AURORA DISPLAYS

LDC500XXWPR-R

User Manual



Safety Information



Warning!

Before installation, connection, operation and maintenance, please carefully read the safety precautions listed in this section.

	• This product is for professional use only.
	• In case of fire, fall and electric shock, the product has the risk of injury and death.

	• Please read the instruction manual carefully before installing, supplying power, operating or maintaining this product, understand the meaning of the signs marked in the instruction manual and on the product, and strictly follow the requirements listed in the safety protection measures.

 Electric shock prevention	• The product only allows access to 100V-240V, frequency in the range of 50-60Hz voltage.
	• The ground wire of the product is always on, please power off when not working.
	• Before using this product, ensure that all equipment is in good condition.
	• Do not use damaged, defective or overheated power cords or plugs
	• Please do not open any lid.

 Fire prevention	• Please do not use any method not described in the instruction manual to modify this product.
	• Please do not in the outside temperature higher than 40℃ or below -20 ℃ in the outside environment, full power operation of this product

 Injury prevention	• Whenever you install, maintain, or move this product, block work areas or passages.
	• Check that all external masks and hardware are properly locked.
	• It shall be installed from top to bottom and disassembled from bottom to top during hoisting.

 Important Warning	• The external temperature range that this product can normally use: the maximum is 50 ℃, and the minimum is -20 ℃.
	• In order to avoid the risk of electric shock caused by high leakage currents, the installation process needs to be properly grounded as required.
	• To prevent electric shock, the product must be grounded.

 Power System	Power Cord	The power cord connected to the system has a special nature of protection, they are not available to the user. If the power cord is damaged, you can only replace it with a new one. Please do not try to repair it.
	Signal Line	The signal line connected to the system have a special nature of protection, they are not available to users. If the signal line is damaged, you can only replace it with a new one. Please do not try to repair it.

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1. Introduction of LDC500XXWPR-R Series

1.1 About LDC500XXWPR-R Series

The LDC500XXWPR-R Series is characterized by easy installation and fast maintenance, and providing high-quality display experience with exceptional clarity and detail in the rental stage venue.

2. Product Features and Specifications

2.1 Product Display and Size

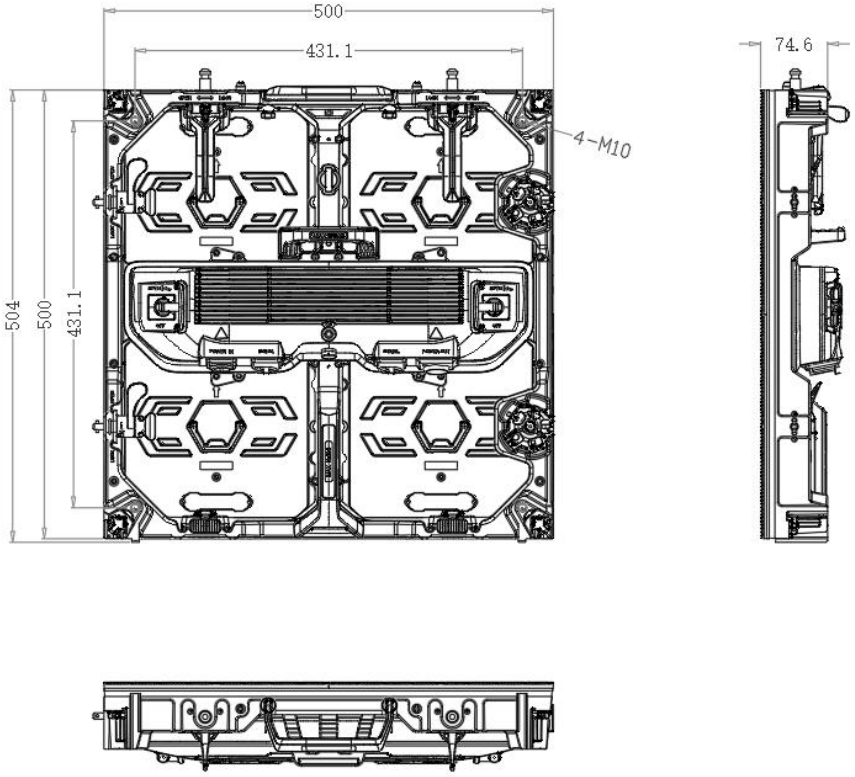


Fig 2-1 LDC500XXWPR-R Series cabinet (Dimensions: 500*500mm)

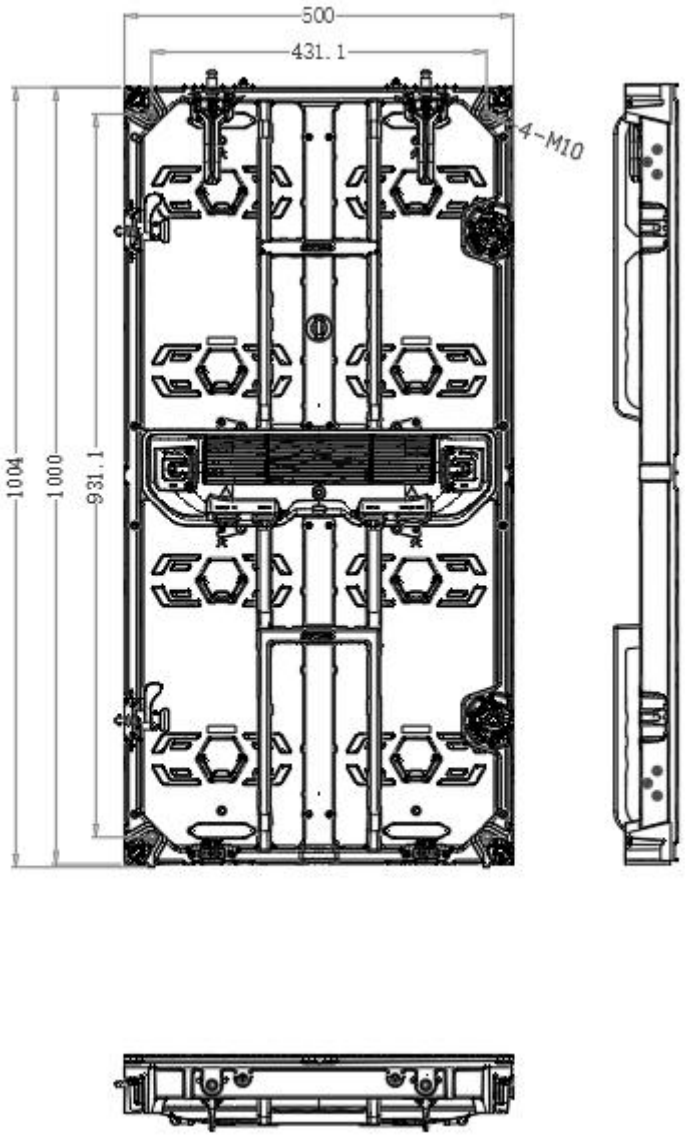


Fig 2-2 LDC1000XXWPR-R Series cabinet (Dimensions: 500*1000mm)

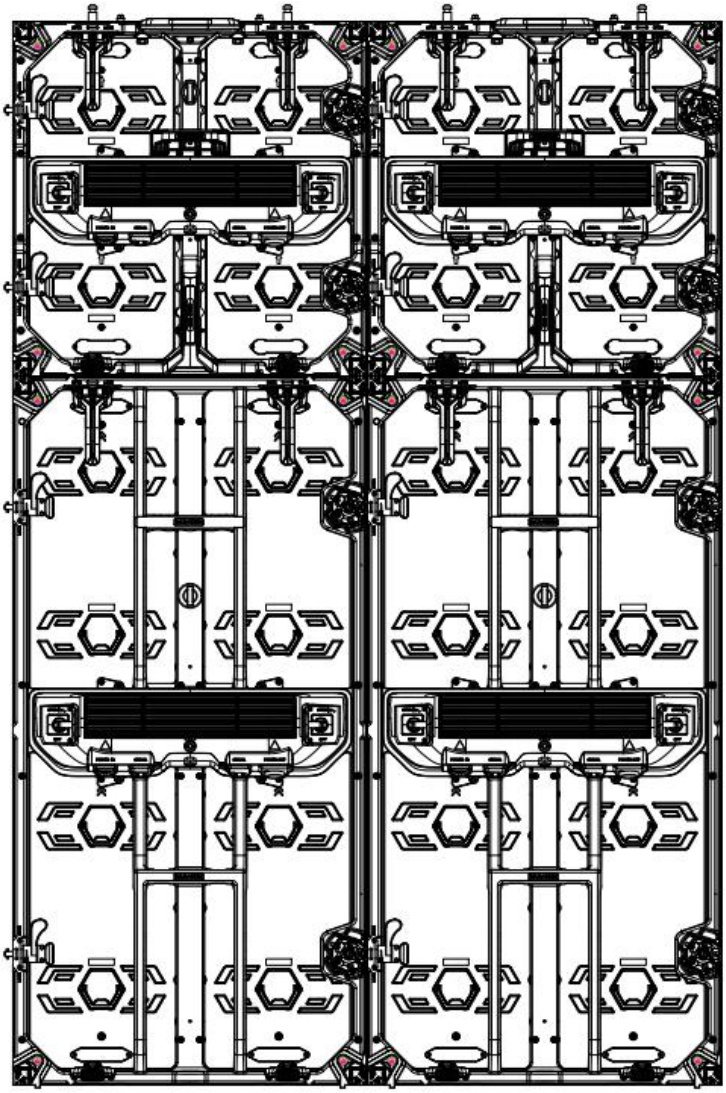


Fig 2-3 LDC500XXWPR-R Series and LDC1000XXWPR-R Series cabinet splicing diagram

Note:LDC500XXWPR-R Series and LDC1000XXWPR-R Series can only be spliced up and down, not left and right!

2.2 Features

1) With different high-precision curve locks, LDC500XXWPR-R Series can form straight screen, outer arc inner arc, a total of 5 angle switching to achieve seamless splicing.

2) The cabinet is designed with corner protector. It is simple to use and provides excellent protection for the lamps of cabinet four corner.

3) The cabinet surface is machine-add, which improves the flatness of the cabinet. The module is directly assembled with the cabinet, which reduces the assembly error between the module chassis and the cabinet and improves the display effect.

4) Cabinet and module support front and rear maintenance, can be suitable for various complex environment.

5) Hard connection for modules and power supplies, which can realize the quick installation and maintenance.

6) The cabinet has good thermal conductivity, good heat dissipation effect and excellent stability.

7) Quick locks designed, 10S can achieve rapid splicing between the cabinets.

8) 500*1000mm cabinet is designed with climbing mechanism, you can directly step on the cabinet for installation and maintenance, to meet the requirements of various sites.

9) Magnetic design, which can automatically absorb the cabinet when rigging, and improve the installation efficiency.

10) Modular design, any spacing modules can be interchanged, to achieve One-cabinet multipurpose.

2.3 Cabinet Main Components

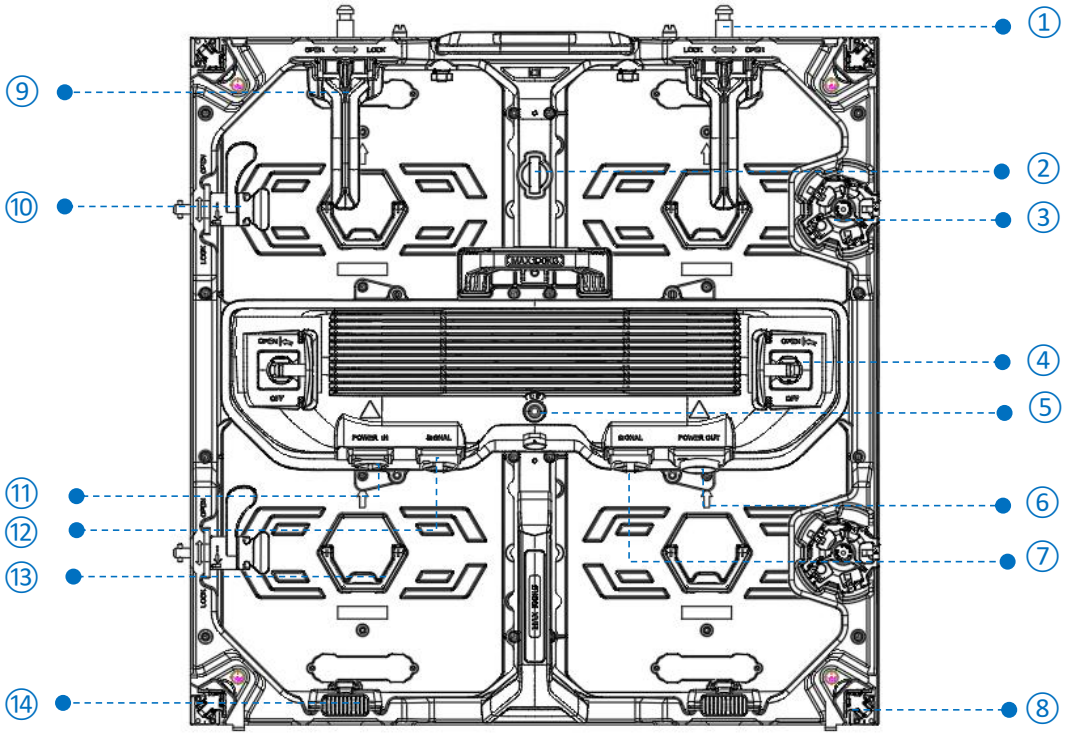


Fig 2-3 LDC500XXWPR-R Series cabinet appearance

① Position pin	② Back frame ring	③ Angle/Curve lock
④Power box lock	⑤ Indicator/Test Button	⑥ Power output
⑦ Signal output	⑧ Corner protector	⑨ Upper lock
⑩ Left lock	⑪ Power input	⑫ Signal input
⑬ Module handle	⑭ Lower lock	

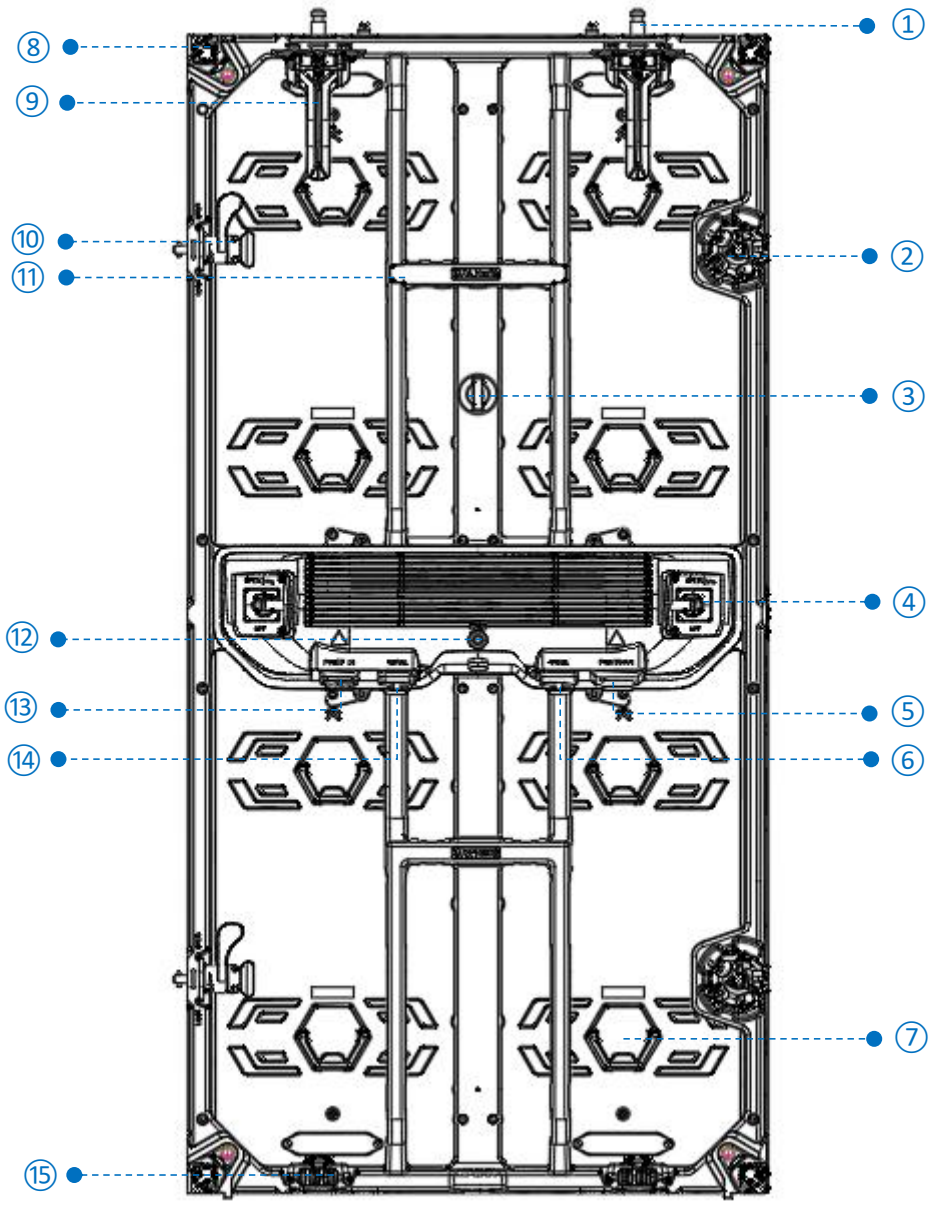


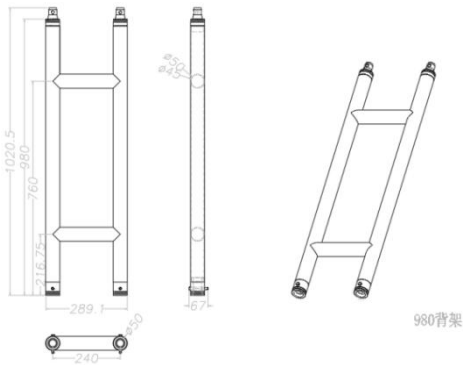
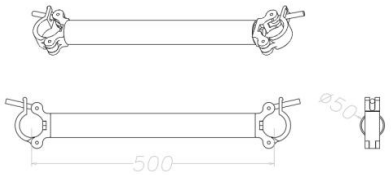
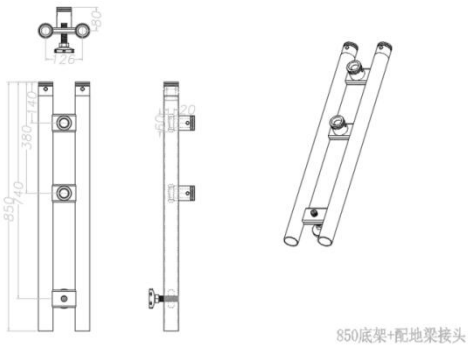
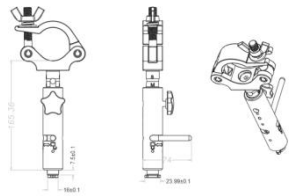
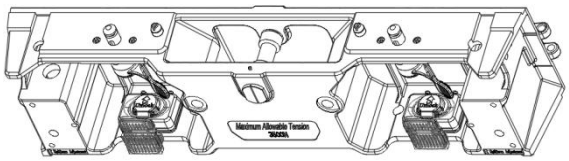
Fig 2-4 LDC1000XXWPR-R Series cabinet appearance

① Position pin	② Back frame ring	③ Angle/Curve lock
④ Power box lock	⑤ Power output	⑥ Signal output
⑦ Module handle	⑧ Corner protector	⑨ Upper lock
⑩ Left lock	⑪ Climbing handle	⑫ Indicator/Test Button
⑬ Power input	⑭ Signal input	⑮ Lower lock

3. Installation Method

3.1 Accessories

3.1.1 Stacking System Accessories

	980mm Back beam
	500mm Cross bar
	850mm Bottom beam
	Back beam connector
	Stacking bar/Rigging bar

Stacking system assembly process:

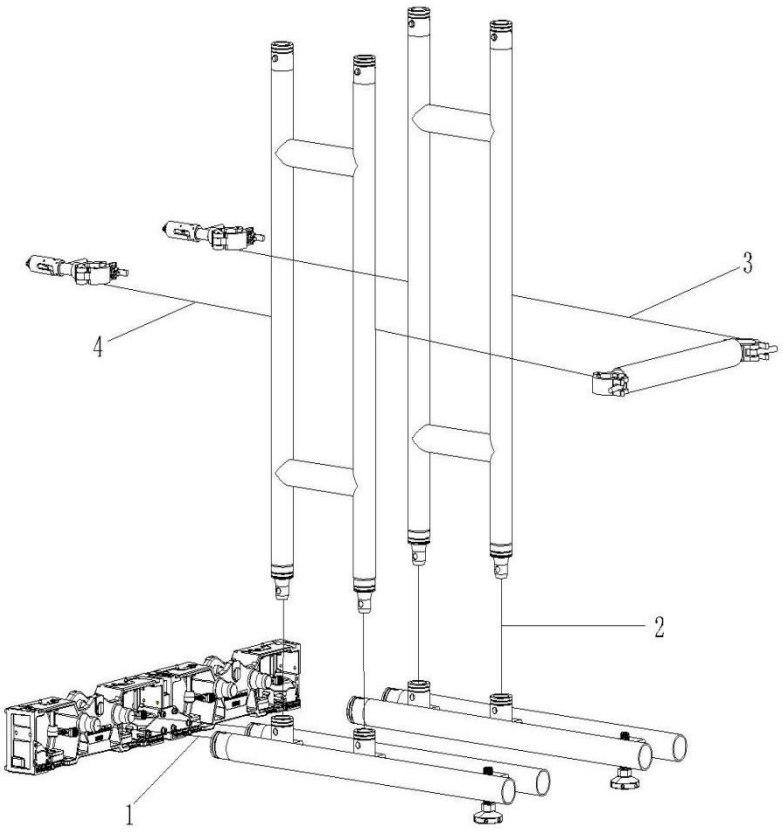


Fig 3-1 Exploded view of Stacking system

According to the sequence shown in the exploded view of the stacking system in Fig 3-1, the installation steps of the stacking system are as follows:

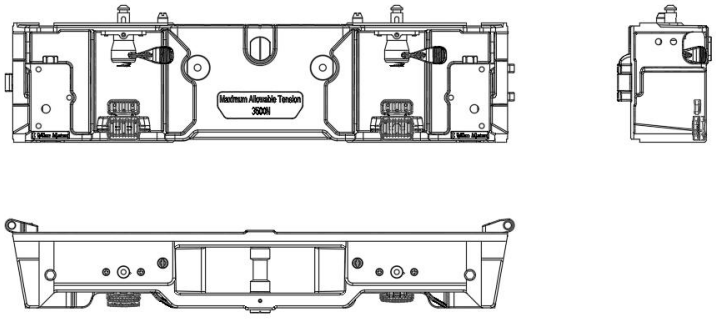
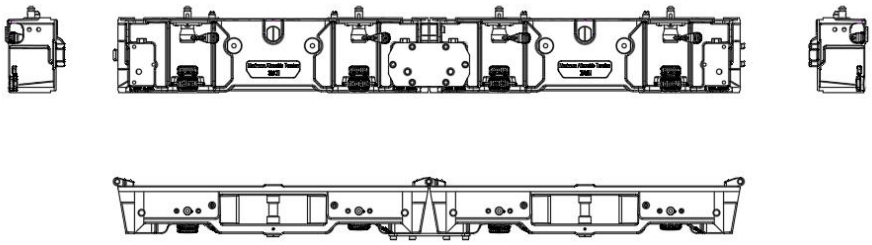
Step 1: As shown in the figure, adjust the foot cup of the stacking bar (rigging bar) to a suitable height, and then connect the 850mm bottom beam with the stacking bar (rigging bar).

Step 2: Connect the 1000mm back beam to the 850mm bottom beam.

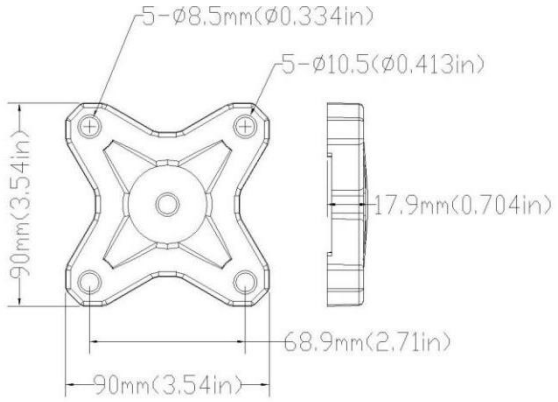
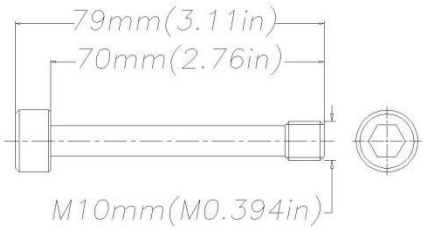
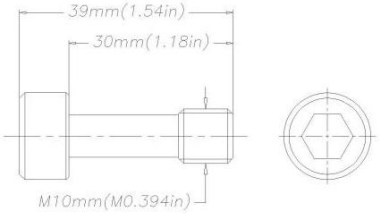
Step 3: Connect the 500mm cross bar to the 1000mm back beam.

Step 4: Lock the cabinet to the bottom beam, fix the back beam connector into the back frame ring of the cabinet, and connect the display screen with the 1000mm back beam through the back beam connector.

3.1.2 Rigging Bar/Stacking Bar

500mm Rigging Bar (Stacking bar)	
	Compositions: Position pin, foot cup (adjustable), upper and lower locks
Installation steps: By inserting the tool into the rigging bar(stacking bar) and turning the foot cup, the height of the rigging bar can be changed within a certain range.	
1000mm Rigging Bars (Stacking bar)	
	Compositions: Position pin, upper and lower locks, foot cup (adjustable), connecting plate, spacer block
Installation steps: Insert the spacer block into the middle of the two rigging bars, tighten it, and then fix the front and rear connecting plates respectively.	

3.1.3 Connecting Plate and Screw

	**Connecting plate** (Used for stacking installation)
	**M10 * 70 Screw** (Used for stacking installation)
	**M10 * 30 Screw** (Used for rigging and stacking installation)

3.2 Cabinet Connection

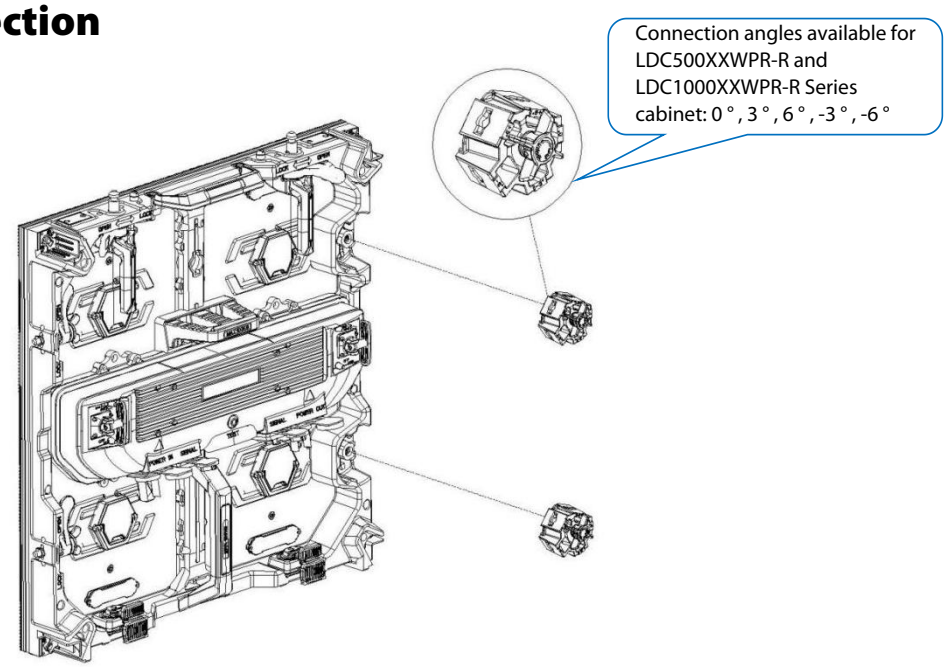


Fig 3-2 Assembly diagram of angle/curve lock

3.2.1 Angle/Curve Lock Splicing

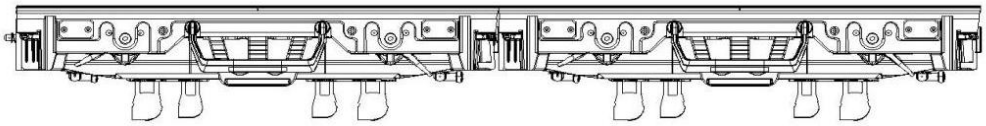


Fig 3-3 0 ° Connection section

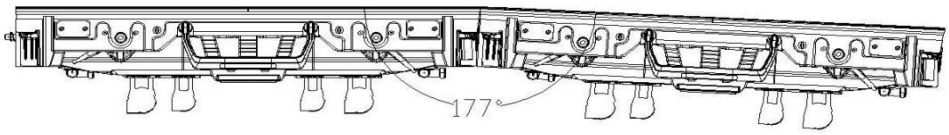


Fig 3-4 3 ° Connection section

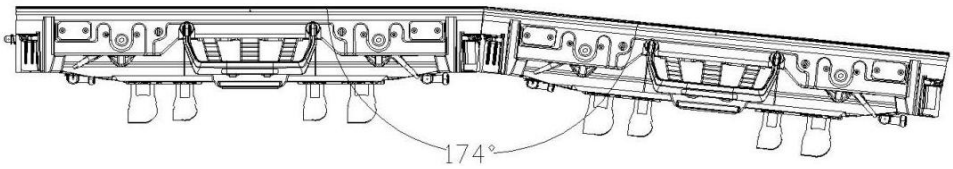


Fig 3-5 6 ° Connection section

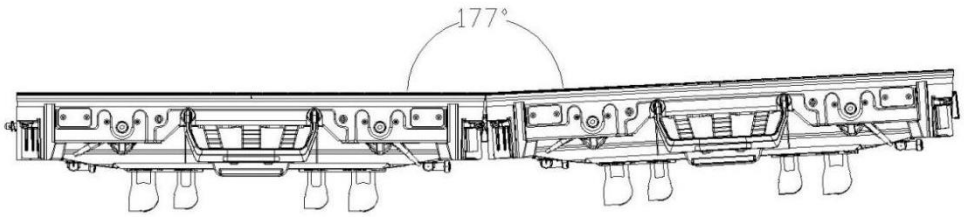


Fig 3-6 -3 ° Connection section

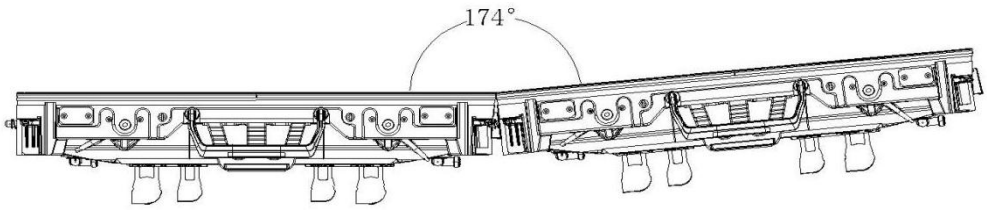


Fig 3-7 -6 ° Connection section

As shown above, LDC500XXWPR-R Series can provide connection angles of 0 ° , 3 ° , 6 ° , -3 ° , -6 ° . Select the desired angle for assembly according to your needs.

3.2.2 Direct Splicing

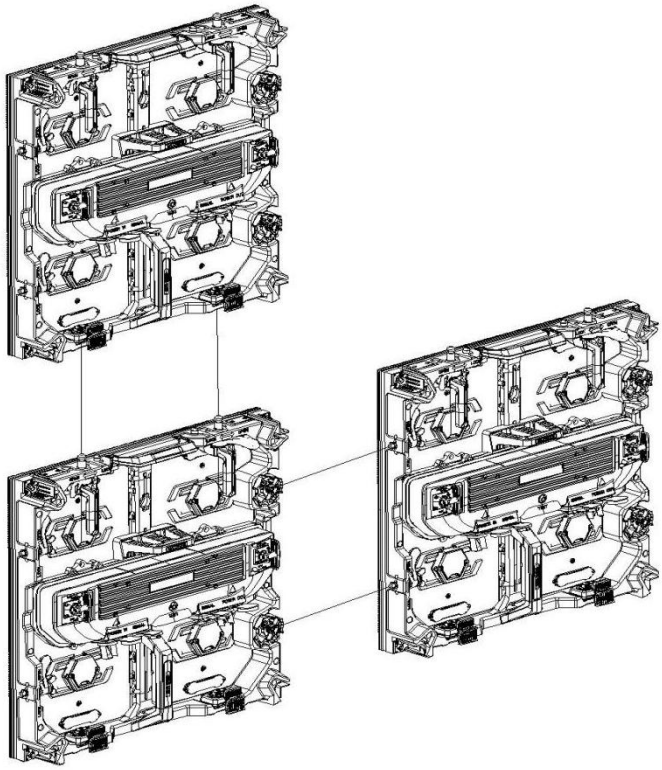


Fig 3-8 Splicing diagram of upper, lower, left and right connection between cabinets

Installation method: First, adjust the angle degree to the 0 ° , tighten it into the cabinet, and then connect the cabinets top, bottom, left and right as shown in Fig 3-8, and fix them with the left lock and the upper lock to complete the connection between the cabinets.

Note: LDC500XXWPR-R Series and LDC1000XXWPR-R Series can only be spliced up and down, not left and right!

3.3 Installation Method

3.3.1 Rigging Installation

Note:

1) LDC500XXWPR-R Series can lift up to 20 cabinets high, LDC1000XXWPR-R Series can lift up to 10 cabinets high.

2) After our company test, the single rigging bar can bear up to 3000N.

3) When using suspension ropes for rigging, make sure that each rope is stressed (rope is tight), and each rigging bar can lift up to 10 meters.

Step 1: First, install the rigging bar on the truss with wire rope clasps.

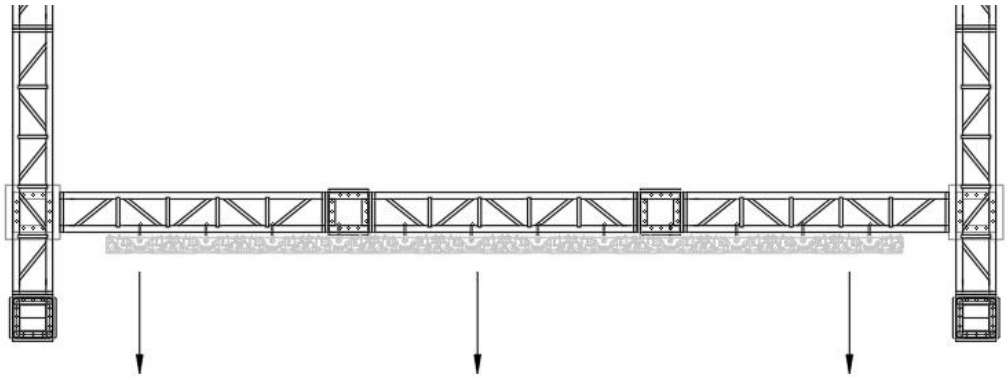


Fig. 3-9 Installation of rigging bar

Step 2: Align the upper lock of the cabinet with the mounting hole of the rigging bar.

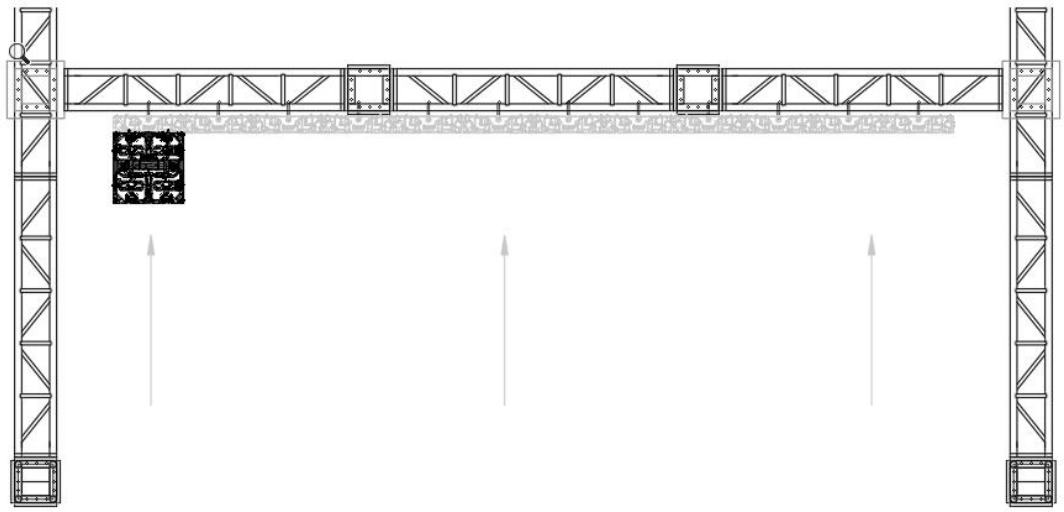


Fig 3-10 Install the cabinet

Step 3: Align the left and right cabinet mounting holes.

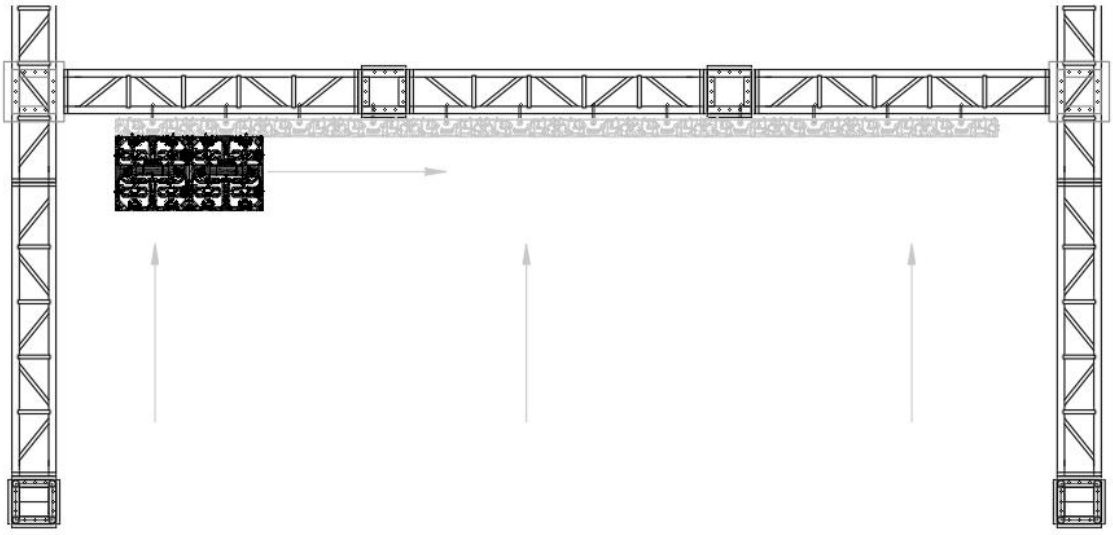


Fig 3-11 Install horizontal cabinets

Step 4: Raise the hanging bar to a suitable height, then align the positioning holes of the cabinet with the positioning columns of the previous row of cabinets, and lock the upper and lower connecting plates after alignment and insertion. According to the on-site cabinets arrangement, repeat the above steps to complete all cabinets installation.

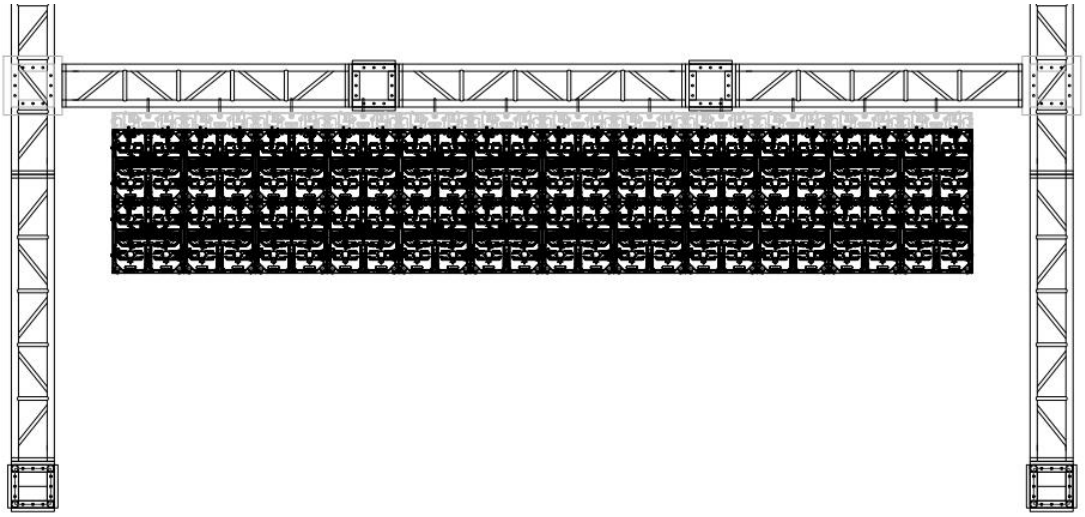


Fig 3-12 Install vertical cabinets

3.3.2 Stacking/Ground Installation (Standard back frame system)

Note: In principle, the height should not exceed 4 meters. If it exceeds 4 meters to be reinforced, please quote separately.

Step 1: Fix the stacking bar (①) to the bottom beam, places the bottom beam on the ground, and fixes the back beam(②) on the bottom beam through the bolt.

Step 2: According to the needs of the screen body installation, between the bottom beam, the back beam through the adapter bracket fixed to the bottom beam, according to the above operation mode combination of multiple units, and connect unit into a whole: base and base connected, back beams are connected to each other by the cross bar(③) , the cabinet and the back beam through the clamps(④) connected to the fixed.

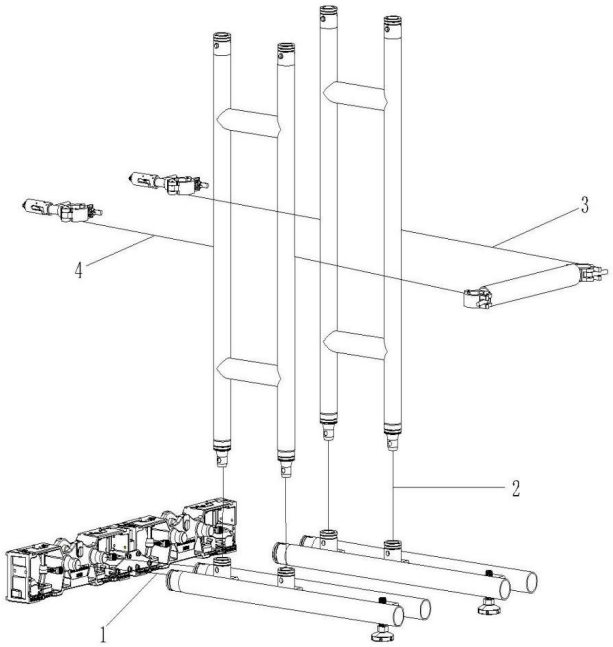


Fig 3-13 Schematic diagram of stacking installation

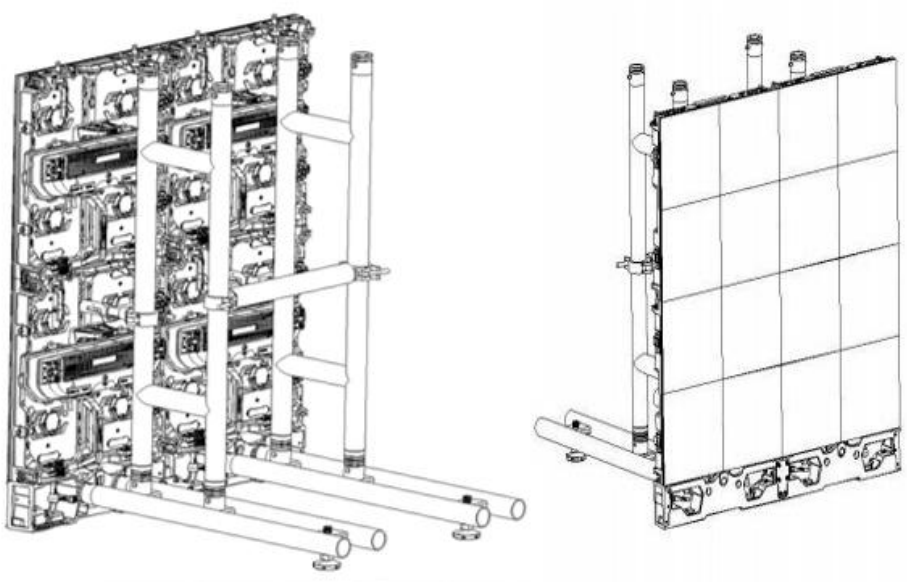
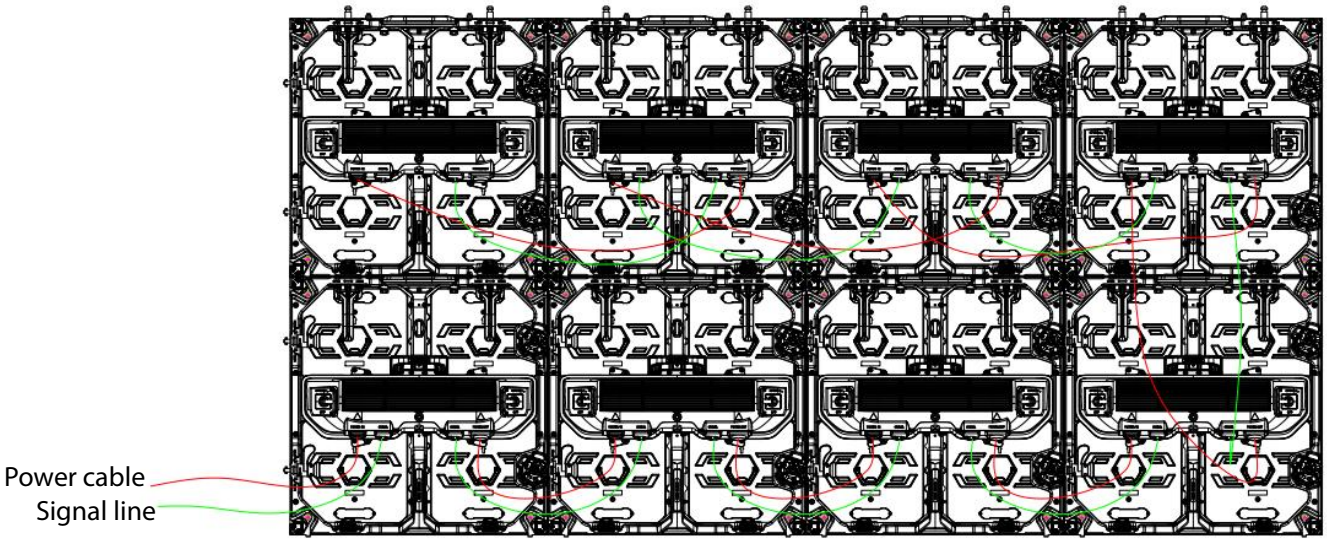


Fig 3-14 Schematic diagram of stacking installation

3.4 Wiring

Connect the wires according to the cable diagram to achieve consistency with the drawings. Power on to check whether all cabinets are powered on normally, whether the receiving card has the signal, and whether the indicator light flashes normally.



Note:

1) LDC500XXWPR-R Series(Indoor&Outdoor): voltage 220V can load 16 cabinets, voltage 110V can load 8 cabinets.

2) LDC1000XXWPR-R Series(Outdoor): voltage 220V can load 7 cabinets, voltage 110V can load 5 cabinets.

4. Cabinet Front and Rear Maintenance

4.1 Front Maintenance for Indoor Product

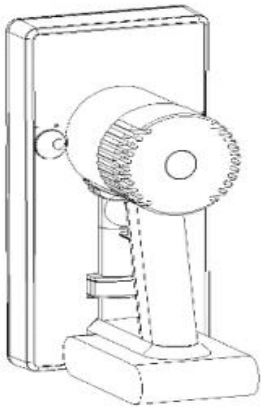


Fig 4-1 Front maintenance tool

Front maintenance has the following steps:

Step 1: Place the front maintenance vacuum tool against the module surface.

Step 2: The maintenance vacuum tool to suction the module.

Step 3: Pull the module out with force to complete front disassembly of the module.

4.2 Rear Maintenance for Indoor&Outdoor Product

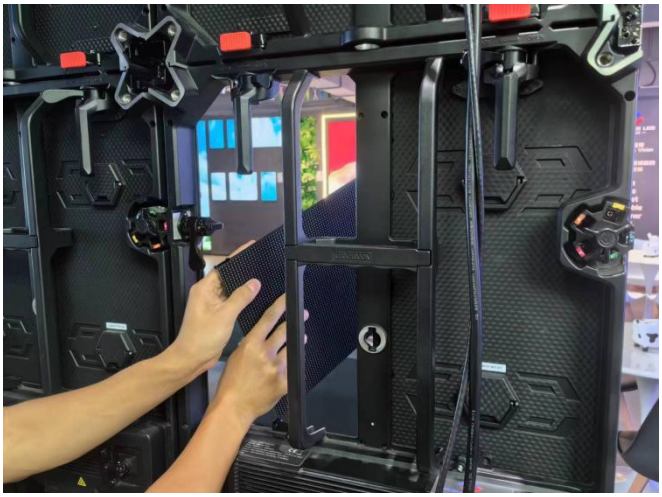


Fig 4-2 Cabinet rear maintenance

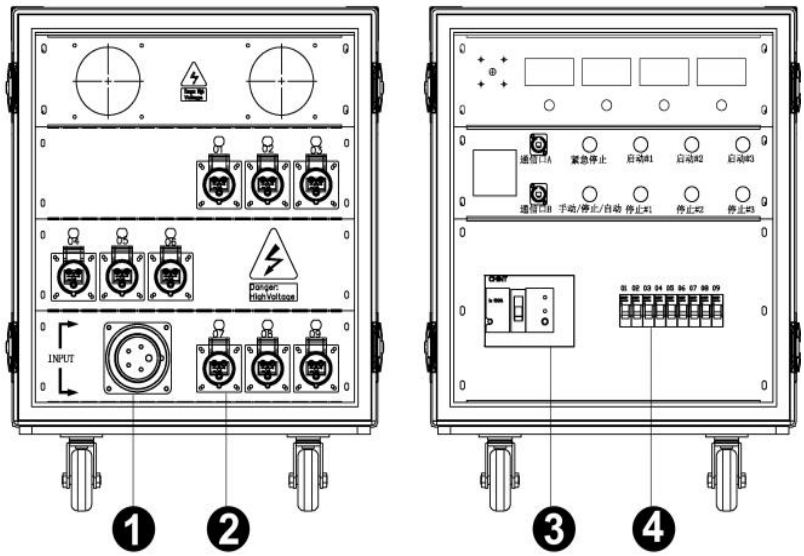
As shown in Fig 4-2, the module is disassembled in the following steps:

Step 1: First, unscrew all the screws connecting the back of the module to the cabinet.

Step 2: Hold the module handle, push the module out with horizontal force and then take it out through the cabinet to complete the rear disassembly of the module.

4.3 Distribution Box for Rental LED Display

The distribution box for rental LED display is specifically designed for rental application. The distribution box has features such as small size, light weight, quick installation and maintenance, and is designed with truckles for easy movement and transportation. The CEE standard compliant power plugs are used for the inputs and outputs. The "stepwise delayed power-on" mode is used for the output to avoid instant impacts of large load on the power grid. This can effectively protect the electronic elements in the LED display and extend its lifespan. The multiple outputs, strong compatibility, and high flexibility can realize quick power connection. The highly reliable and enclosed cabinet can avoid direct contact with human body and effectively prevent foreign objects. Protection against short circuit, overcurrent, overvoltage, overload, overtemperature, and lightning is provided.



No.	Components	Remarks (s)
1	Input port	3-Phase , 5-wire power supply
2	Output port	Power output port
3	LDC500XXWPR-R switch	Control main power on or power off
4	Air switch	Control branch power on or power off

5. Nova Control System

5.1 Overview of The System

This product uses Nova's receiving card, with the control software Nova LCT, the user can control all the key information of the display screen through the control software, and realize the various settings of the LED display screen.

5.2 Working Environment Requirements

In order to ensure the stability and safety of the system during operation, the working environment has the following requirements:

(1) Hardware requirements: Brand computer, I7 processor/16G memory/1T hard disk/4K discrete graphics card/23 inch display

(2) system requirements: Operating system for win10 and above.

(3) Network requirements: The display needs to be connected to the network when online calibration.

5.3 Installation of Nova LCT

The installation method of Nova LCT is the same as that of ordinary software. Just install it according to the prompts of the installation wizard.

If you encounter an anti-virus software or firewall pop-up prompt, please select Allow, because the serial port driver may need to be installed during the installation process.

If there is no serial port driver on the client computer or the serial port driver version is too low, the installation program will automatically update the serial port program on the client computer to the version of the serial port driver in the installation package.

5.4 Operation of Nova LCT

5.4.1 Preparation

Before operating Nova software, please connect the computer and send the card and large screen as shown in the figure.

5.4.1.1 Connection of synchronous control system:

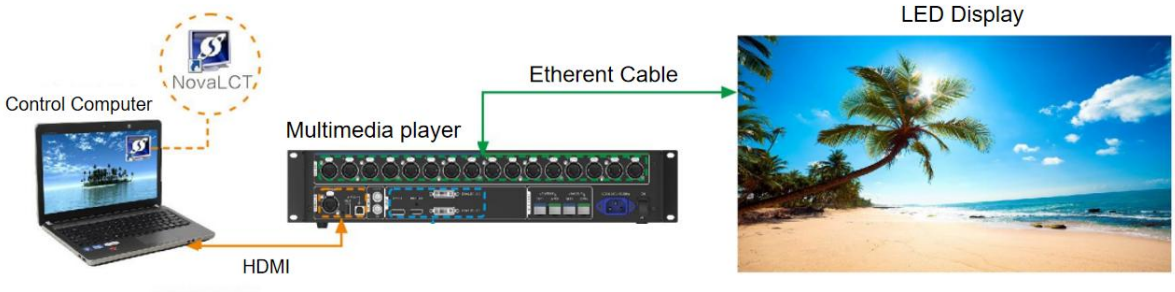


Fig 5-1 Direct connection

5.4.1.2 Connection of asynchronous control system:

Direct connection of network cable: please open DHCP on the software Vip lex express and select the network card, and refresh the asynchronous device after confirmation; Wi Fi connection: connect Wi Fi at the beginning of AP on the computer, e.g. AP10001066, password: SN2008@+

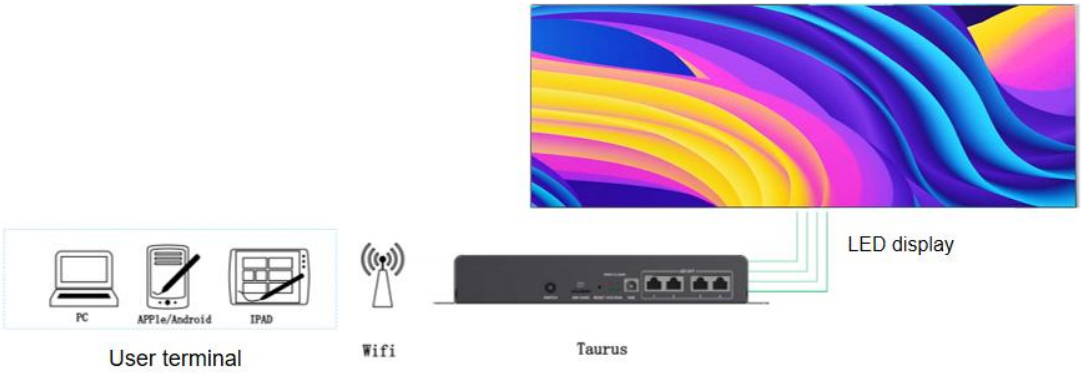


Fig 5-2 asynchronous control

5.4.2 Software Installation

Visit the official website of Nova Nebula, select "Download Center> Software and Materials", and click "Display Debugging Software NovaLCT". In the download list, download the required version of the software installation package.



5.4.2.1 Installation method

1) Before installing the NovaLCT, please prepare a computer with the Windows system on and close the antivirus software.

2) Software installation package decompression, run ". exe" file, according to the installation wizard prompts to complete the software installation. If prompted by the firewall, select Allow. If there is no serial port driver on the computer, the NovaLCT installer will automatically install or update the serial port driver.

5.4.2.2 Installation results

If the installation is successful, the shortcut  If the installation is successful, the shortcut  and  icons appear on the taskbar.

5.4.3 Connection of Equipment

5.4.3.1 Connecting PC and Transmit Card

The PC on which the NovaLCT is installed is connected to the sending card through a control line (USB cable or network cable), as shown in the figure 5-3, wherein the sending device is shown in MCTRL4K. All control commands, parameters and configuration files are transmitted via the control line.

The PC may also be separately connected to a plurality of transmission cards via a control line. Select a target communication port in the NovaLCT to operate.

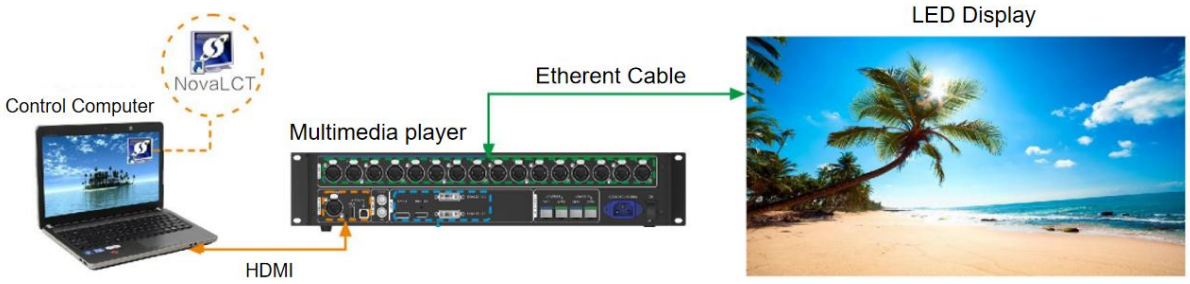


Fig 5-3 Hardware connection example

When the receiving card supports the non-sending card mode, the computer with the NovaLCT installed can be directly connected to the receiving card through the network cable.

5.4.3.2 Connection NovaLCT and sending card

When the hardware connection is normal, NovaLCT will automatically connect to the sending card as long as the sending card is operating normally. After the connection is successful, the main window displays the number of sending cards and the monitoring information of the control system, as shown in Fig 5-4.

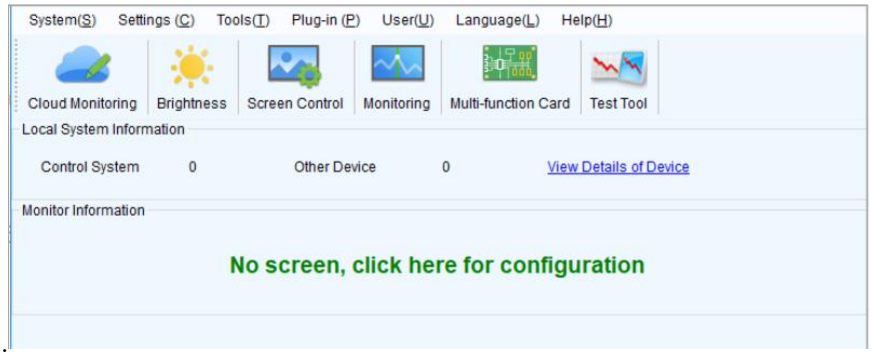


Fig 5-4 Main window (not logged in)

Click View Device Details to view the port, device name, quantity, and SN. The information of the communication port includes an IP address indicating that the network port is used for communication, and the character "USB" indicates that the USB interface is used for communication. The SN is the unique identification of the sending card.

Connection-related operations:

- **Reissue card**

Select System> Reconnect .

- **Restart service**

5.4.4 User Login

5.4.4.1 Connected sending card

When the sending card is connected, the user can directly use the functions visible in the software without logging in. If you need to use advanced features, you need to log in to the NovaLCT.

Method of operation:

Choose Login> Synchronize Advanced Login, enter the password, and click Login ". The default passwords are "admin" and "666". After successful login, the main window is shown in fig 5-5.

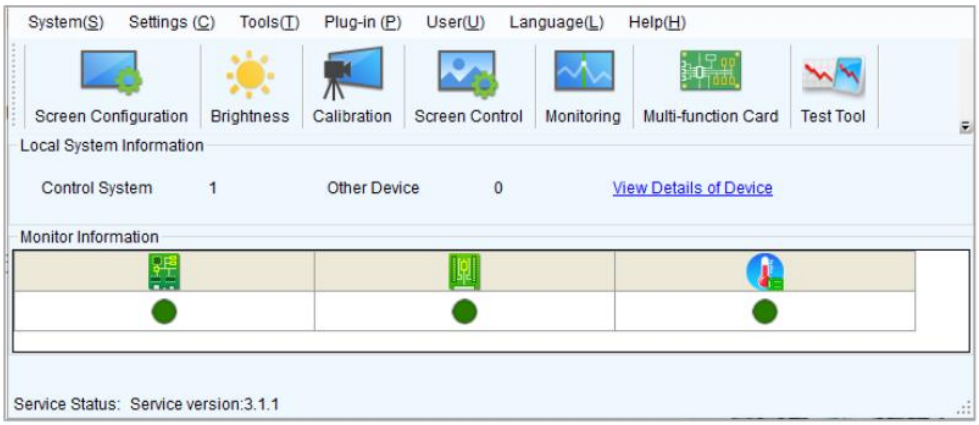


Fig 5-5 Main window (logged in)

Other operations:

1) To log out, select Login> Log Out ".

2) To modify the login password, select Login> Modify Password ".

5.4.4.2 Send card not connected

When the sending card is not connected, if the user wants to know the specific function of the software, he can log in to the demo mode.

Method of operation:

Choose Login> Demo Mode Login, enter admin or 888, and click Login ".

5.4.5 Display Configuration

Note: The NovaLCT only supports the configuration of the regular display screen, and does not support the configuration of the special-shaped screen.

❖ **Load from Local**

a. Select Local Recovery Profile .

b. Click Browse, select the profile, and click Open .

c. Click Next .

- If the local configuration file is in. zip format, see the figure and steps in Loading from the cloud platform.

- When the local configuration file is in ". scfg" format, the interface displays the loading progress.

When the load is complete, the dialog box will automatically close as shown below.

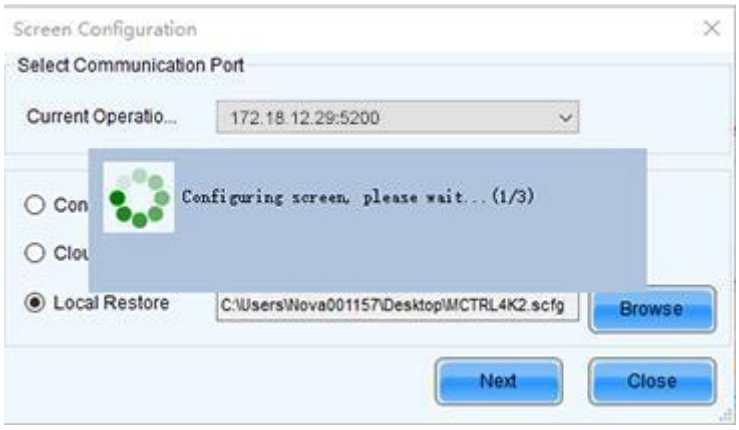


Fig 5-6 Display screen configuration interface

5.4.6 Manual Screen Matching

For the usual display screen, the basic screen matching operation can be completed by setting the input source, lighting the display screen and connecting the display screen in turn.

(The NovaLCT will send the card and receive the card according to the functions supported by the display screen configuration interface.).

5.4.6.1 Setting input source

Step 1: Select "Login> Sync Advanced Login" from the menu bar, enter the password and click "Login". The default passwords are "admin" and "666".

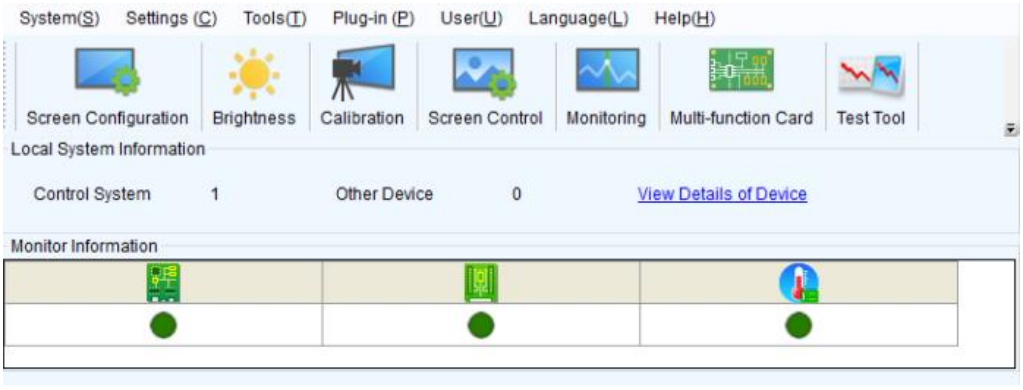


Fig 5-7 Main window (logged in)

Step 2: Click 

, or select "Settings> Display Configuration" from the menu bar to open the as shown in Figure 5- 7 dialog box.

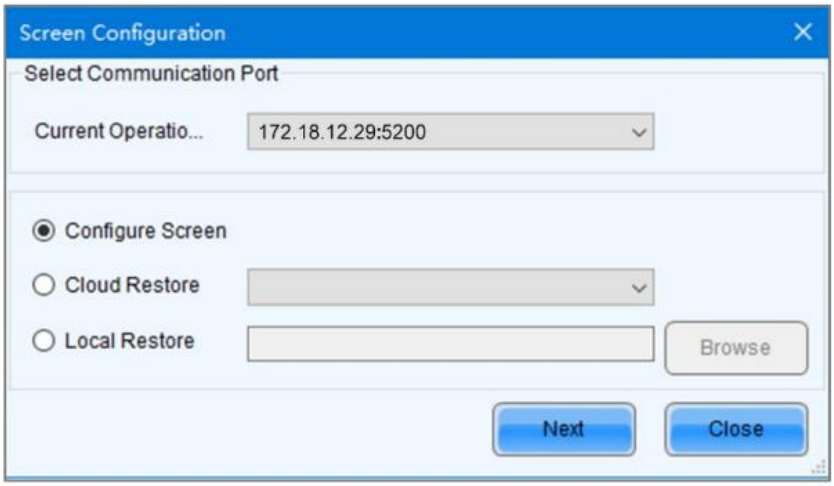


Fig 5-8 Screen configuration

Step 3: Select a communication port.

When the computer is connected to multiple sending cards through the control line, there will be multiple drop-down items.

Step 4: Select "Configure Display" and click 'Next' to open the 'Display Configuration' dialog

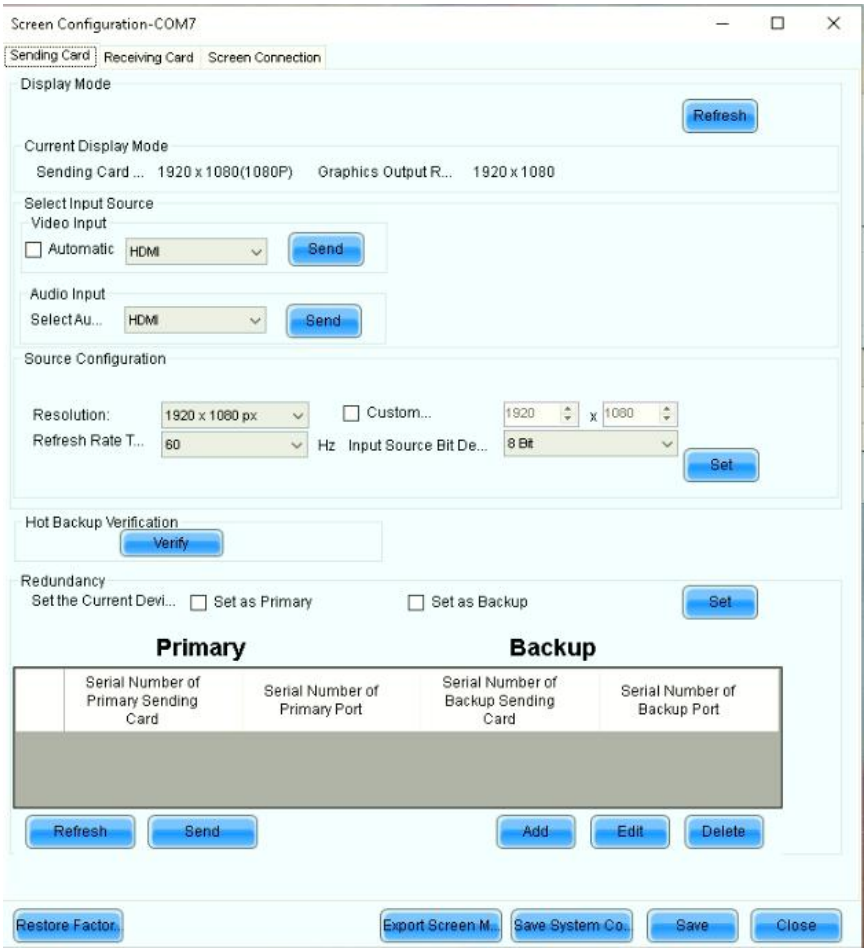


Fig 5-9 Display Configuration

Step 5: In the 'Send Card' interface, check the current display mode, as shown in Figure 5-10.

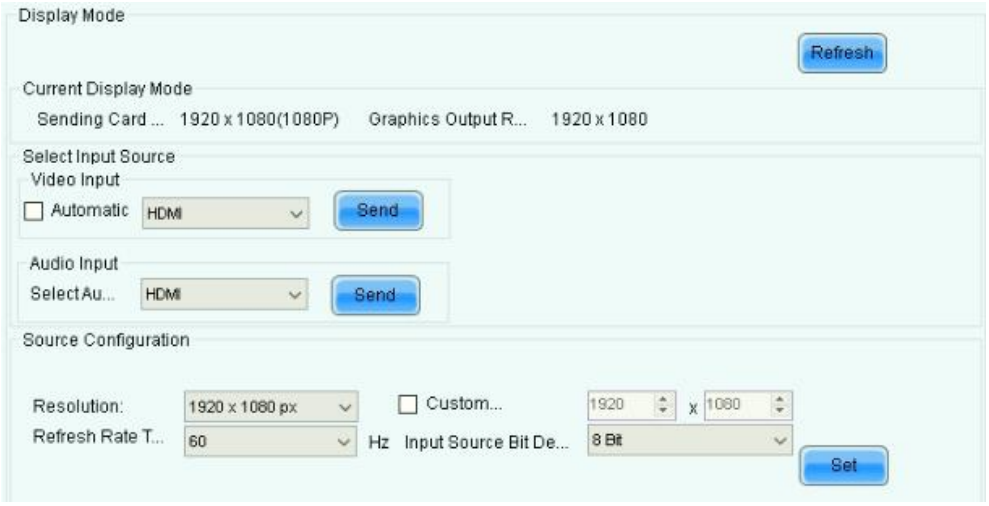


Fig 5-10 Input Source Information

Step 6: Check 'Auto Select' to automatically select the input source according to the actual input signal, or manually select the 1 input source from the drop-down box.

Step 7: Click Send to send the configuration information to the hardware.

Step 8: In the Source Configuration section, select the input source type and set the corresponding resolution. The resolution can be selected from the drop-down box or customized.

Step 9: Set the refresh rate and the number of bits in the input source.

After changing the refresh rate, we recommend that you resend the performance parameters on the Receiving Card tab to avoid the situation that the receiving card cannot adapt to the refresh rate. It is recommended to set the number of input source bits to "8 bit".

Step 10: Click Settings to send the configuration information to the hardware.

Step 11: Click Refresh to confirm the setting result of the input source.

Step 12: Click 'Cure' to cure the configuration information to the hardware

5.4.7 Connecting The Display

Step 1: In the Display Configuration dialog box, select the Display Connection tab.

Step 2: Set the number of displays and click Configure ".

When multiple output ports of the sending card carry different areas of a large screen, the number of display screens is set to 1; When multiple output ports carry different screens, the number of display screens is set to the number of screen loads.

Step 3: in the "standard display screen" interface, set the number of receiving card columns and rows, for example, in the of Fig 5- 11, the is set to 10 columns and 5 rows.

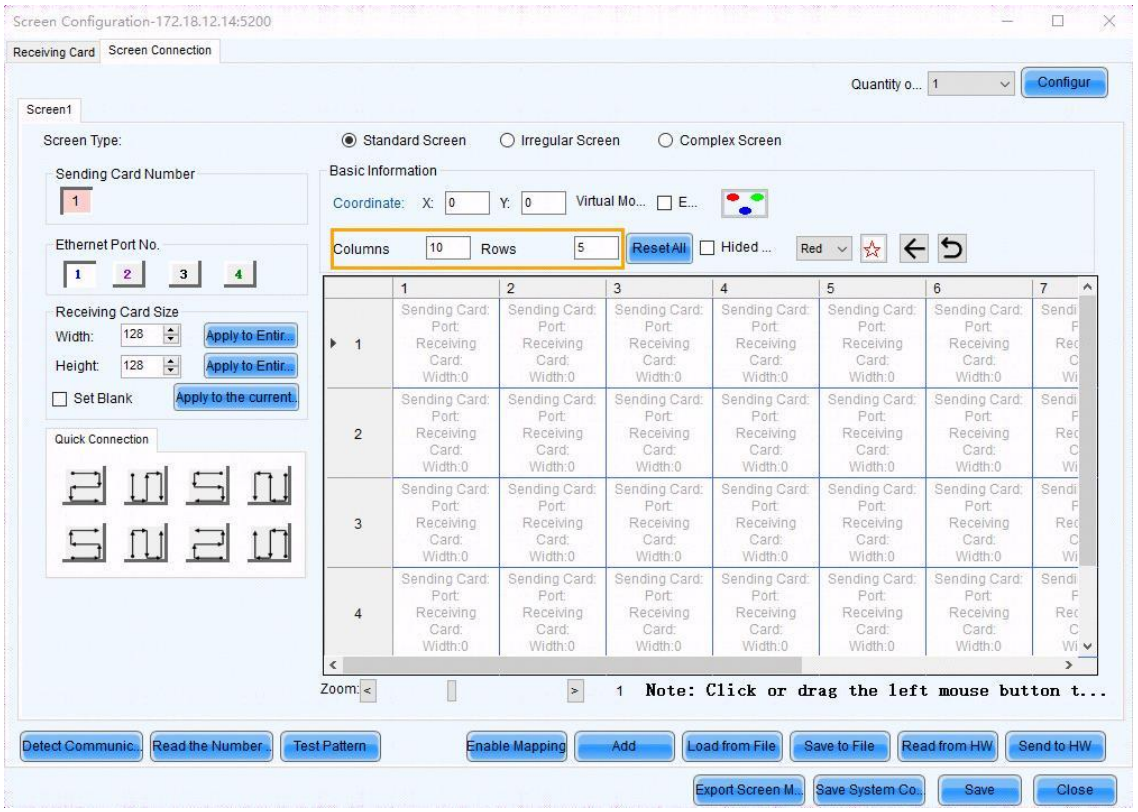


Fig 5-11 Column and row quantity of receiving cards

Step 4: Select an outlet.

Step 5: Set the receiving card routing and tape load size. For example, the in the of Fig 5-12 is the receiving card with the load of the output port 1.

- Custom Route: Click or drag the mouse in the table.
- Quick Route: Click the 1 quick route style and drag the mouse to select an area in the table.

When routing, the load size defaults to the current value. If necessary, you can modify the load width and height on the left side of the interface. You can unconfigure a receiver card right-clicking it.

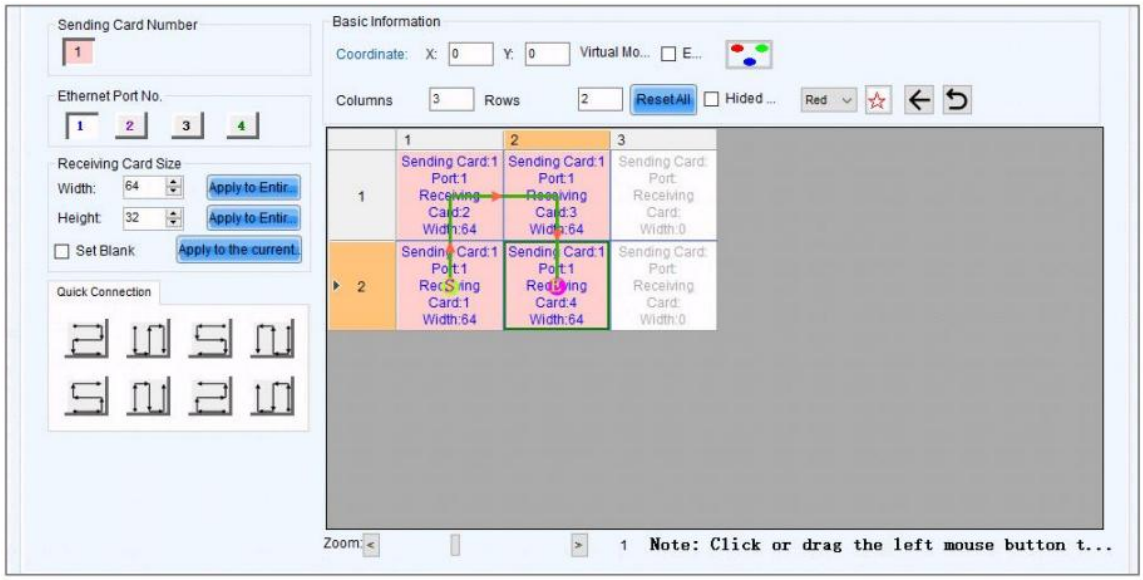


Fig 5-12 Receiving card connection and size

Description:

1. [Configuration] Number of display screens 1

2. Set [Number of rows and columns of receiving card]]

3. Set the number of carrier points for each receiving card

4. Click all receiving cards according to the network port of the sending card connected to the signal line and the actual routing direction

5. Send it to the hardware. Click [Cure] after the screen displays normally]

6. Packaging Transportation and Storage

6.1 Package

- **Flight case: 1 pack 8pcs cabinets**

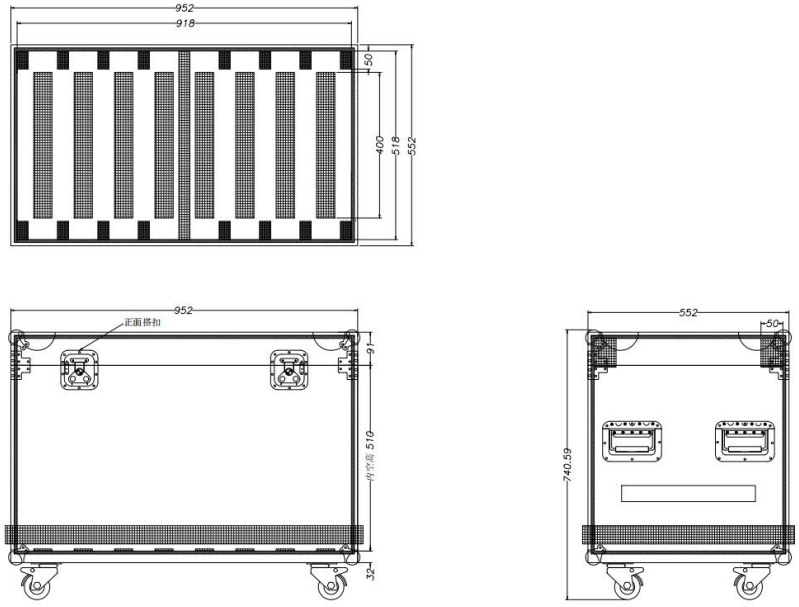


Fig 6-1 Diagram of 1 pack 8pcs cabinets flight case

- **Flight case: 1 pack 5pcs cabinets**

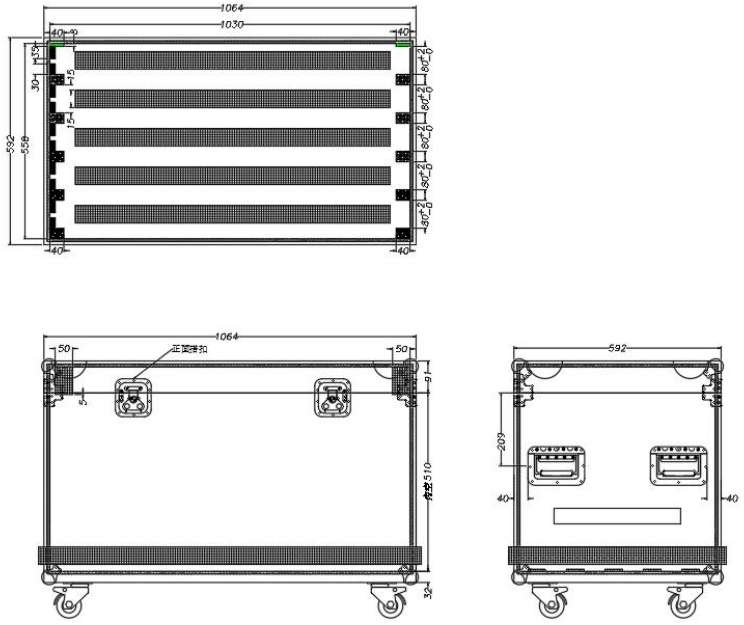


Fig 6-2 Diagram of 1 pack 5pcs cabinets flight case

Packing information is as follows:

Specifications	LDC500XXWPR-R Flight Case	LDC500XXWPR-R Flight Case
Size: length * width * height (mm)	952*552*740.59 (1 Pack 8)	1064*592*510 (1 Pack 5)
Gross weight	106KG (1 Pack 8)	91.5KG (1 Pack 5)

6.2 Transportation

The cabinets must be packaged before transportation. The product shall not be placed upside down or horizontally, and must be protected against the wind, rain, direct sunlight, and corrosive liquid during transportation. The stacking layers shall not exceed three layers for flight cases.

6.3 Storage

The cabinets shall be stored in an environment with an ambient temperature ranging from -30°C to +60°C and a relative humidity ranging from 10% to 60% RH. Do not store the cabinets in an environment with volatile, corrosive, or flammable chemical products.

7. Troubleshooting and Component Replacement

7.1 Common Faults and Troubleshooting Methods

7.1.1 Failure in Lighting up the Display

Causes:

1) No power is supplied to the display or the control devices.

2) The LED display does not have input signals.

3) The control PC is in sleep mode or the graphics card is set incorrectly.

Troubleshooting method:

1) Check AC power input of the display and the control devices.

2) Check cables between the sending box and the receiving card. Check whether the DVI cable between the control PC and the sending box is connected reliably.

3) Check whether the control PC is in sleep mode or monitor protection mode. If the control PC is not in sleep mode, check whether the graphics card is configured properly on the software.

7.1.2 Incomplete Picture or Incorrect Position of Picture Displayed

Causes:

1) The connecting file for the screen is incorrect.

2) Receiving card signal cables between cabinets do not contact properly.

3) The displaying position and screen size are set incorrectly.

Troubleshooting method:

1) Check whether the display's signal cable connection method is same to that of the loaded file xxxx.scr.

2) Check whether the signal cable is connected to the cabinet receiving card. If the receiving card is faulty, replace the receiving card.

3) Check whether Displaying Position and Screen Size on the software are set to actual screen size.

7.1.3 Screen Blinking

1) The ports on the sending box are loose, or the signal cables are too long.

2) The output resolution of the playing device or sending box is set incorrectly.

Troubleshooting method:

1) Check whether the DVI cable and signal cable are connected to the display and devices, or whether the length of signal cables exceeds the maximum transmission distance (the effective transmission distance shall not exceed 10 m for DVI cable, 100 m for signal cable, 300 m for multi-mode optical fiber, and 15 km for single-mode optical fiber).

2) Check whether the resolution of the playing device and the sending box is greater than or equal to the resolution of the screen.

7.1.4 Blinking of a Cabinet in the Display

Causes:

1) The output of receiving card or hub card is faulty.

2) The receiving card program is incorrect.

Troubleshooting method:

1) Check whether the receiving card signal cable and hub card in the cabinet are connected correctly.

2) Check the receiving card program for the cabinet or check the receiving card.

7.1.5 Failure in Lighting up of a Cabinet in the Display

Causes:

1) The power supply, receiving card, or hub card for the cabinet is faulty.

2) Signal output of the previous cabinet is faulty.

Troubleshooting method:

1) Check voltage at the DC side of the power supply and the receiving card power supply. Check the receiving card signal indicator light in the cabinet. Check whether the hub card contacts properly with the receiving card.

2) Check output signals of the receiving card of the previous cabinet, or replace the signal cable.

7.1.6 Failure in Lighting up Part of the Modules in the Cabinet

Causes:

1) Output of the power supply for the modules is faulty.

2) Output of signal which controls the related modules is faulty.

Troubleshooting method:

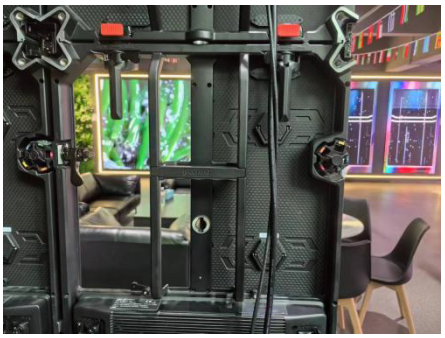
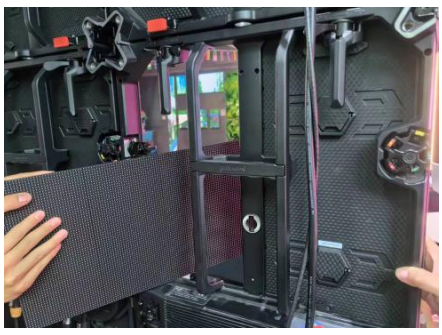
1) Check DC voltage for the modules.

2) Check the hub card ports or flat cables that control the modules.

7.2 Replacement of Main Components

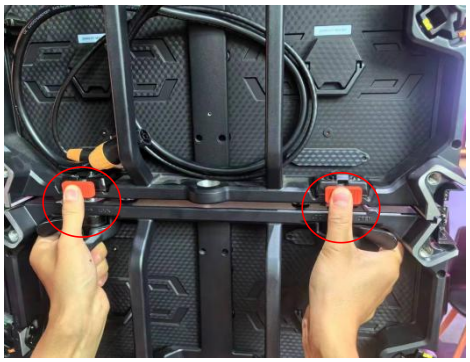
7.2.1 Replacement of Module

Disconnect the power supply of the display , replace the module according to the following steps:

Steps	Picture	Description
Step 1		Remove the M3 * 8 screws on the cabinet(five in total)
Step 2		Remove the screws locked on the module chassis
Step 3		Push the module forward, remove it horizontally at an angle from the removal port, and then replace a new one

7.2.2 Replacement of The Cabinet

Disconnect the power supply of the display and replace the cabinet as follows:

Steps	Picture	Description
Step 1		First unlock the left and right locks between the cabinets
Step 2		Then hold the upper and lower handles of the cabinet with both hands and press to unlock the upper and lower locks and disassemble the cabinet
Step 3		When replacing the new cabinet, hold the upper and lower handles of the cabinet, and then press the upper and lower latch buttons (The lock rebound) indicating that it is locked, and then lock the left and right locks to complete the installation

7.2.3 Replacement of Power Box

Disconnect the power supply of the display, and replace the power box according to following steps:

Steps	Picture	Description
Step 1		Unscrew the locks on the back cover of the power box to the left to remove the power box
Step 2	 	Tighten the locks on the back cover of the power box to the right to replace a new power box. (Note: The T-lock inside the back cover of the power supply is placed horizontally)

7.3 Maintenance of Display Screen

1. The LEDs is precision electronic component. When installing or removing indoor small spacing modules, please wear gloves and pay attention to handling with care.

2. Indoor display screen, please do not install near the air outlet of the air conditioner, so as not to damp the LEDs and cause short-circuit damage.

3. When the display screen is not used for a long time, please power on at least 2 times a week for 30 minutes each time for dehumidification.

7.4 Technical Support

High pressure danger! Do not disassemble the internal power supply and receiving card of the cabinet. In case of any problem, contact the LED display manufacturer for help.