

LDC1000/750/500/250 Series

Thin Cabinet

User Manual

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1. Safety Information



Warn!

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

	<p>Before installing, powering, operating or maintaining this product, please read the instruction manual carefully to understand the meaning of the signs in the instruction manual and on the product lock, and strictly follow the requirements listed in the safety protection measures.</p>
 <p>Electric Shock Prevention</p>	<p>The product is only allowed to be connected to voltages within the range of 100V-240V and frequency 50-60Hz.</p> <p>The ground wire of the product is always connected. Please turn off the power when not working.</p> <p>Before using this product, make sure that all equipment is in good condition.</p> <p>Please do not use a damaged, defective or overheated power cord or plug.</p> <p>Please do not open any covers.</p>
 <p>Fire Prevention</p>	<p>Please do not use any method not described in the instruction manual to modify this product.</p> <p>Please do not operate this product at full power when the external temperature is higher than 40°C or lower than -20°C.</p>

 Injury Prevention		<p>Whenever installing, maintaining or moving this product, please block off the work area or access.</p>
		<p>Check that all external masks and hardware are locked correctly.</p>
		<p>When hoisting, it is necessary to install from top to bottom and disassemble from bottom to top.</p>
 Power System	<p>Power Cable</p>	<p>The power cords connected to the system have special protection and are not intended for use by the user. If the power cord is damaged, you can only replace it with a new one. Do not try to repair it.</p>
	<p>Data Cable</p>	<p>The data lines connected to the system have special protection and are not available to users. If the power cord is damaged, replace it with a new one, do not attempt to repair it.</p>

2. Product Introduction

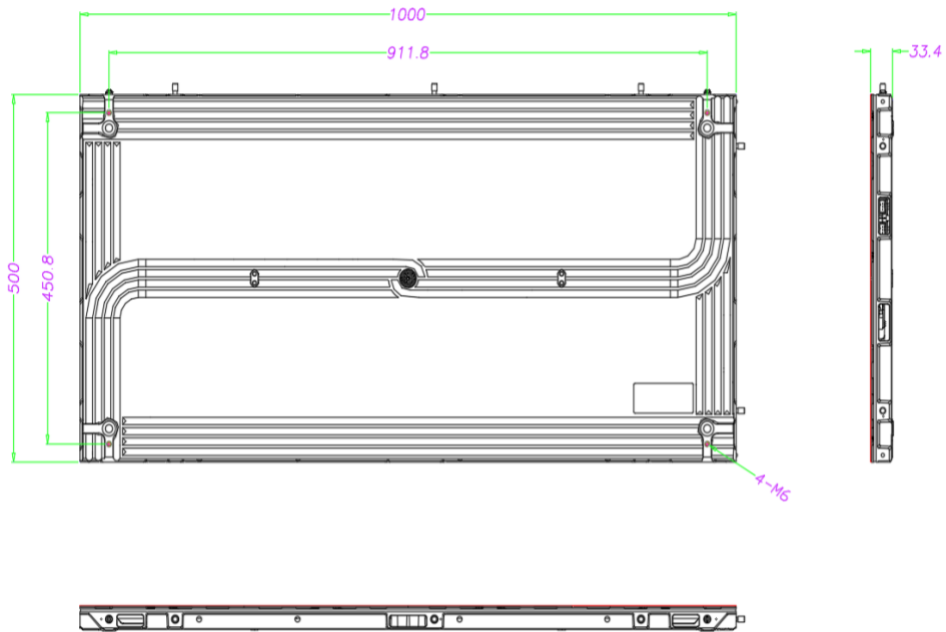
2.1 Thin Cabinet Series

Thin cabinet series has the ability to display high-quality content with excellent clarity and detail, making it an excellent indoor display product. Their flexibility in size and shape allows them to be configured to fit almost any space and can be tilted to create unique and visually stunning displays. It provides a versatile, high-quality and durable solution for a wide range of indoor video display applications.

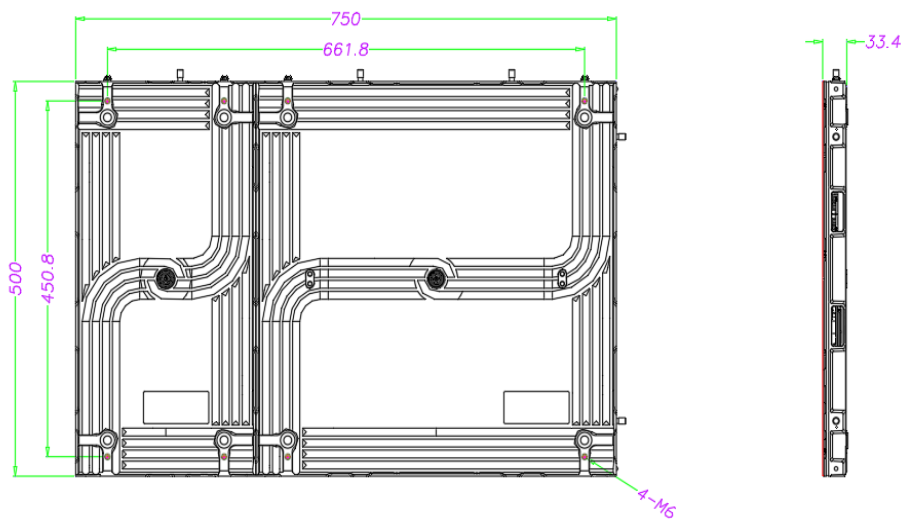
2.2 Features

1. The cabinets and module adopt independent protective structures, which have better protection capabilities.
2. Supports module power supply front maintenance, can be quickly maintained, and can be used in various occasions.
3. The cabinet and module are separated independently, making maintenance faster.
4. High brightness, high gray, and high brush are optional, and the high contrast image is clearly visible.
5. Excellent heat dissipation design, using a metal cabinets for overall heat dissipation, without the need for heat dissipation equipment, reducing cabinets power consumption and extending service life.
6. Supports hoisting, wall-mounted, floor-standing, and wall-mounted installation;
7. Support dual backup of signal and power supply;
8. The module has a correction function, which can realize brightness correction.

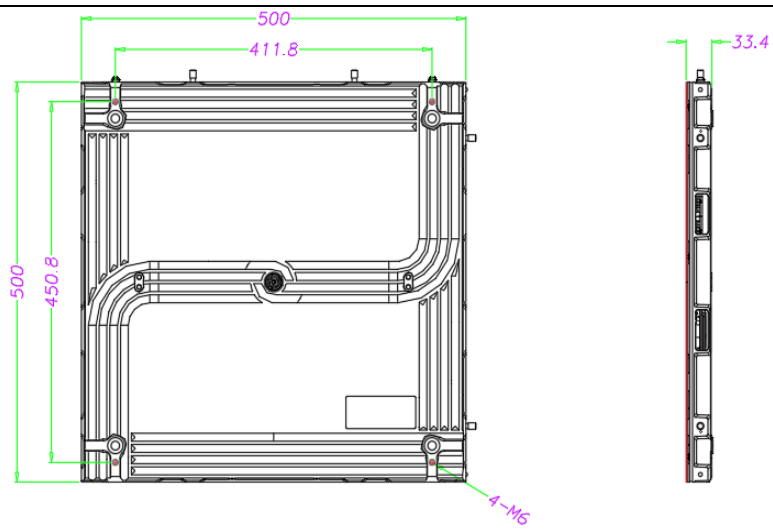
2.3 Specifications of Thin Cabinet Series



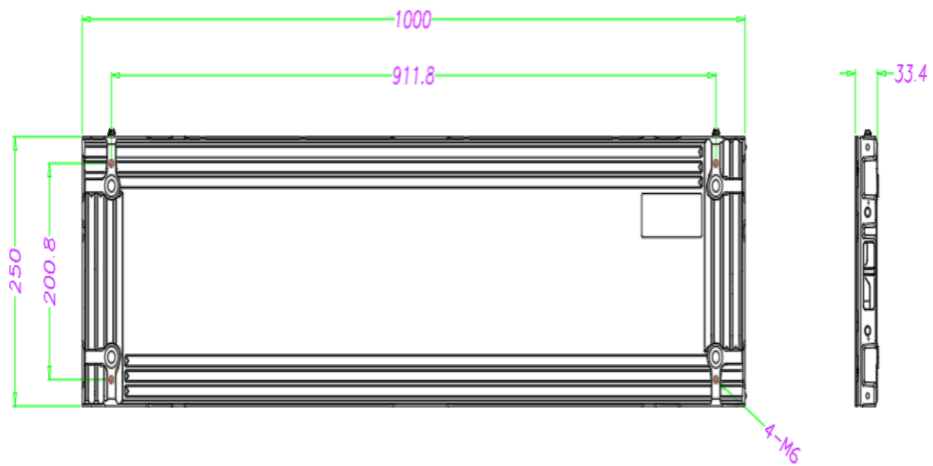
1000x500mm



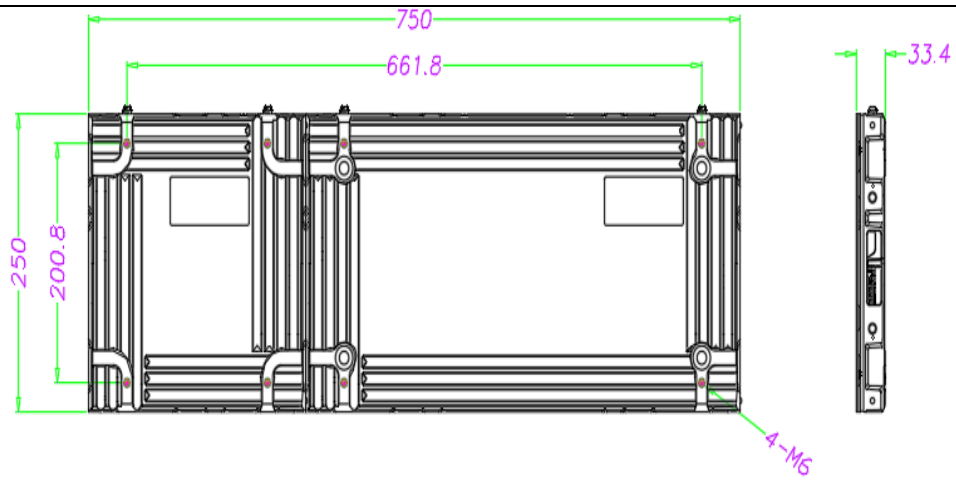
750x500mm



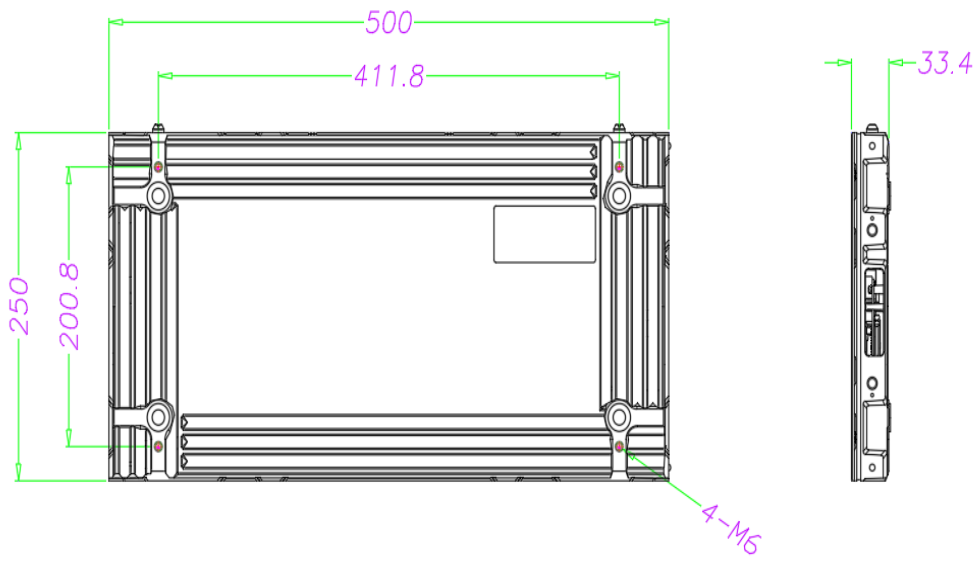
500x500mm



1000x250mm

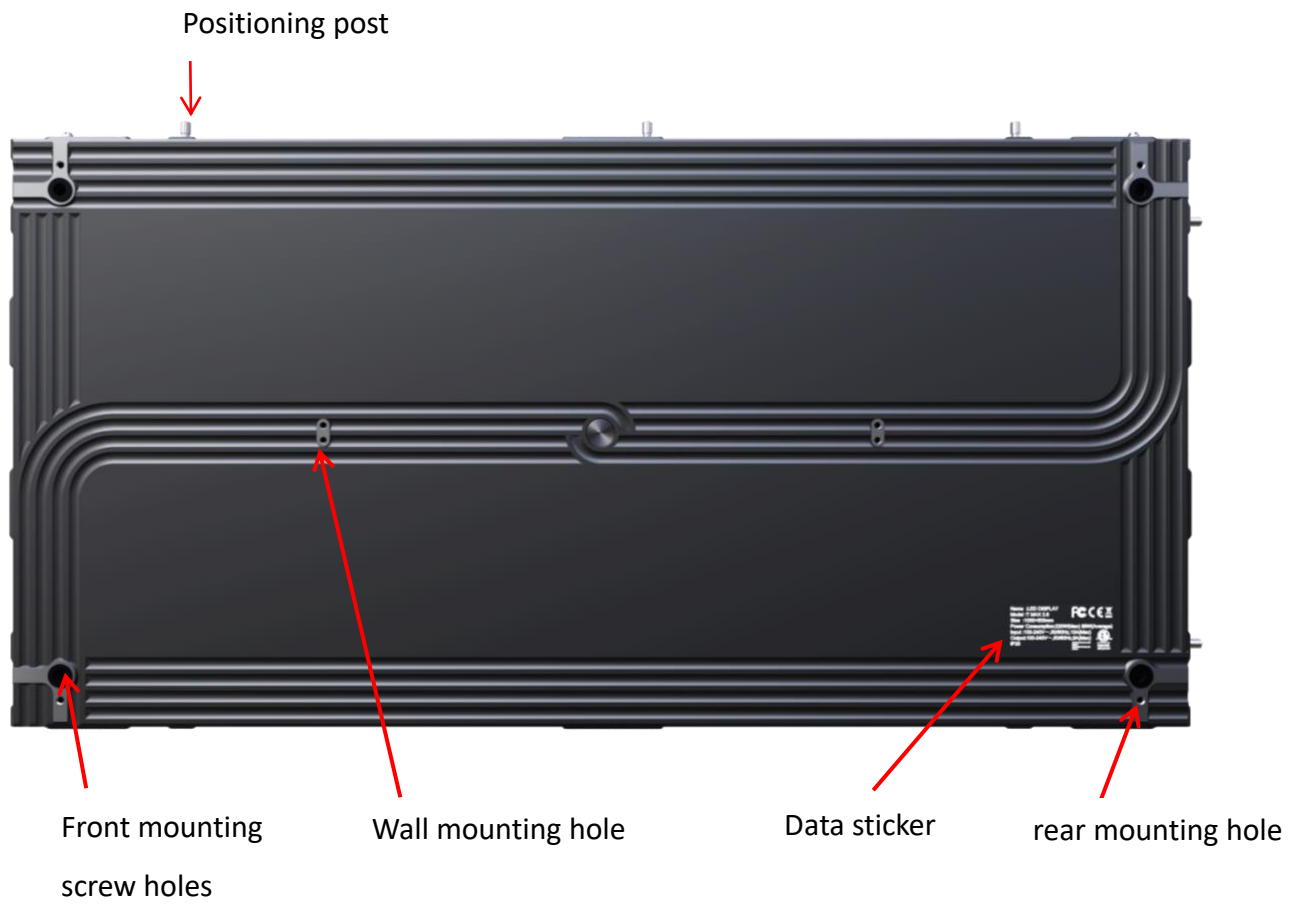


750x250mm



500x250mm

2.4 Thin Cabinet Series details

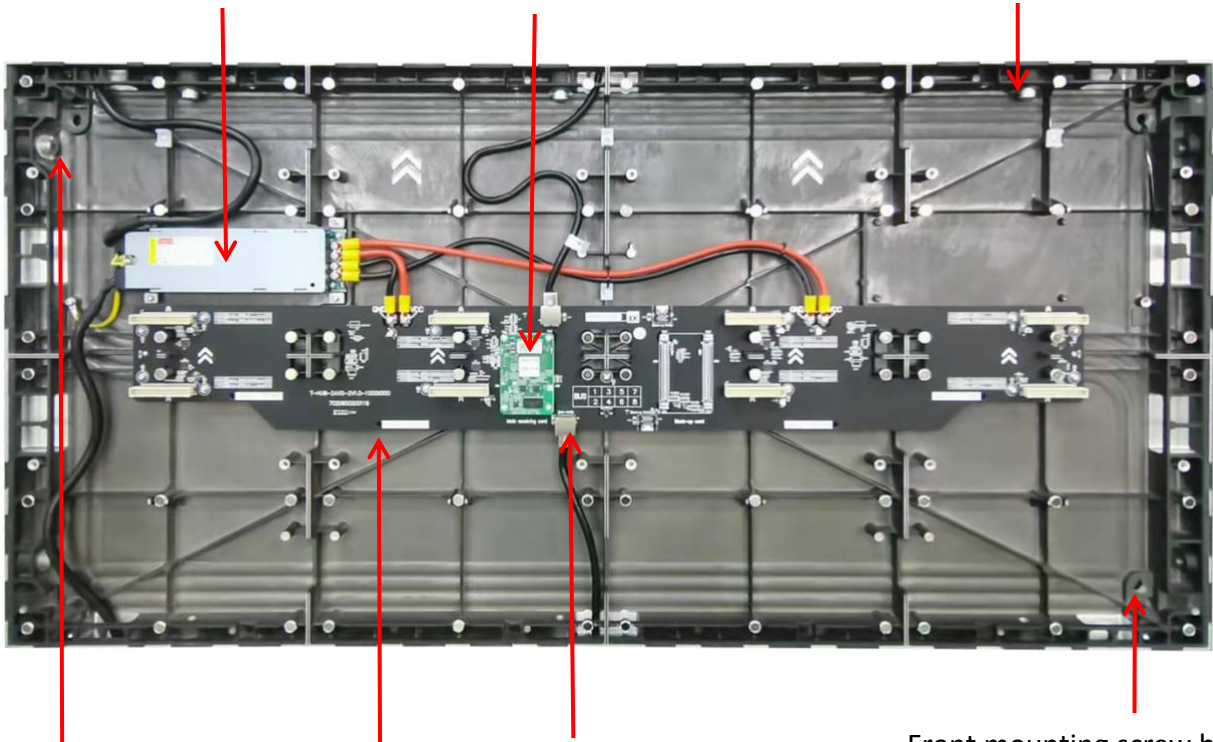


1000*500 rear cabinet picture

Power supply

Receiving card

Upper and lower mounting screws



left and right mounting screws

HUB board

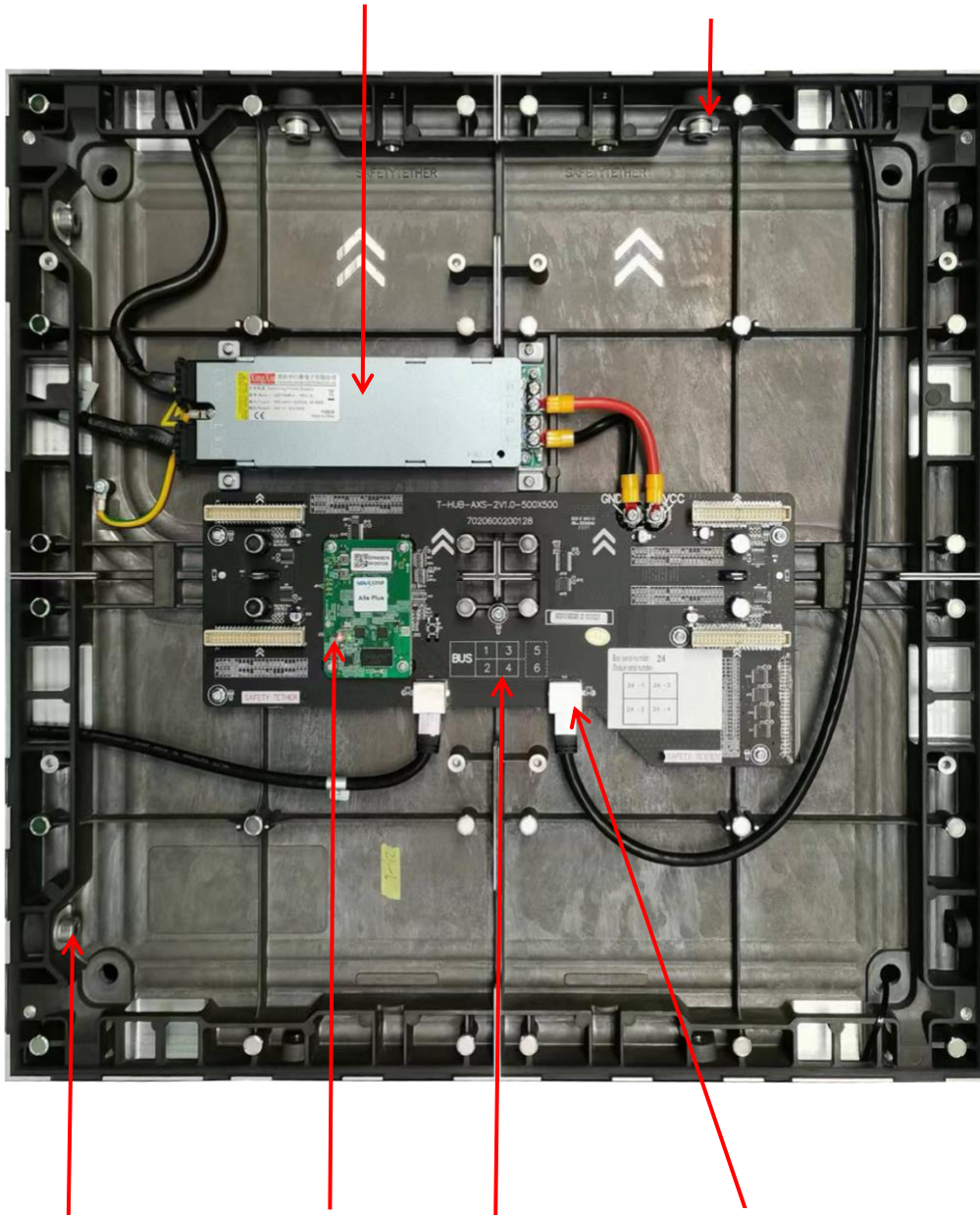
Network port

Front mounting screw holes

1000*500 cabinet front picture

Power supply

Upper and lower mounting screws



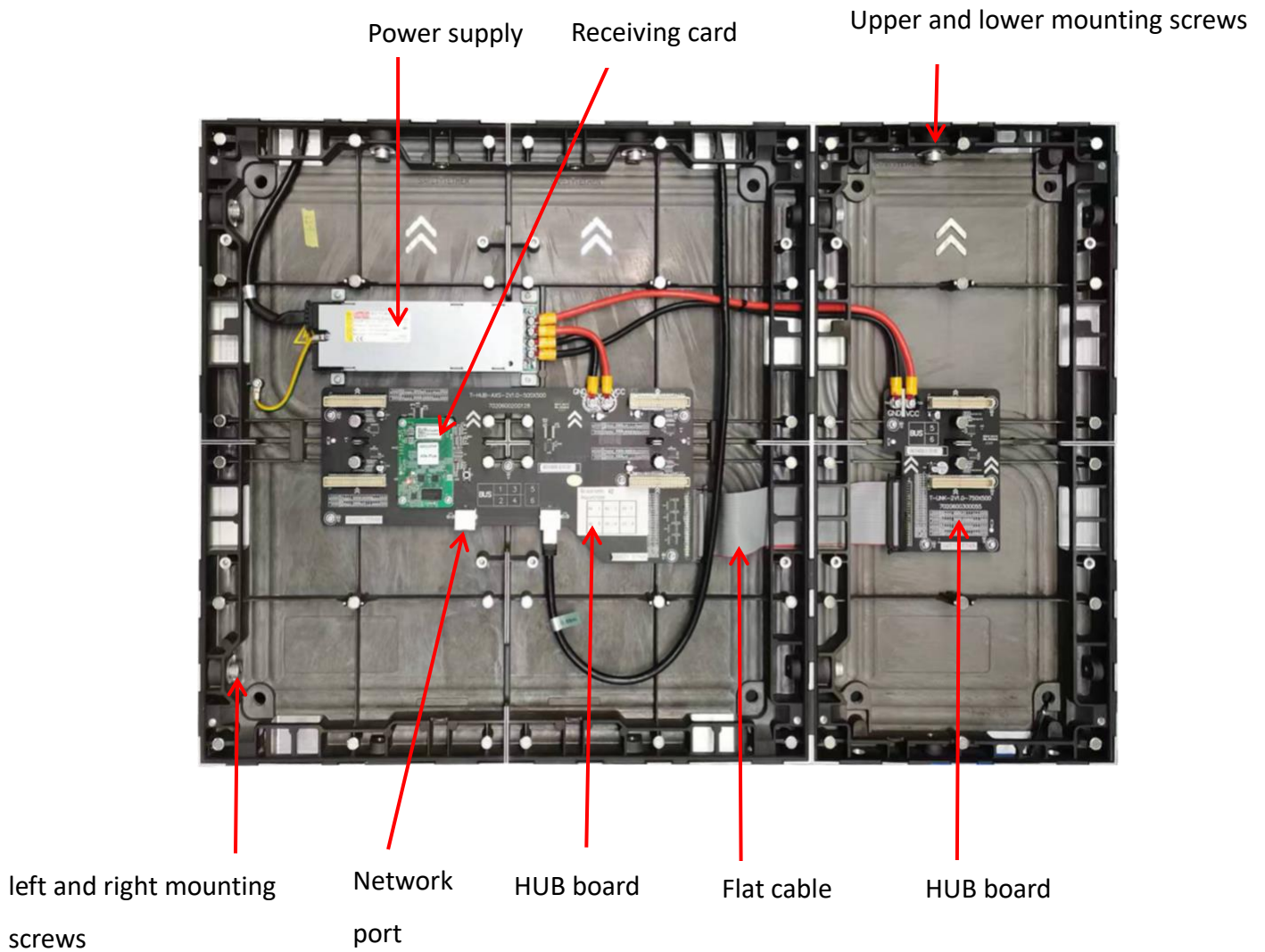
left and right mounting screws

Receiving card

HUB board

Network port

500*500 cabinet front picture



750*500 cabinet front picture

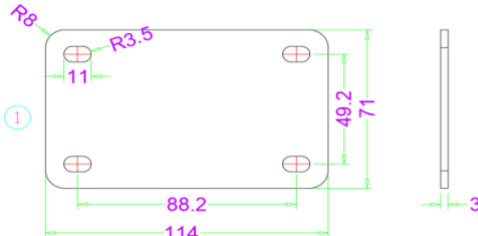
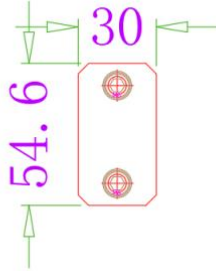


2.5 Thin Cabient Product Specification Sheet

Product	T1.9	T2.5	T2.6
Pixel pitch(mm):	1.95	2.5	2.6
Pixel density(dot/m ²):	262144	160000	147456
Led lamp	SMD1212	SMD1515	SMD2121
Module size (mm * mm):	250*250	250*250	250*250
Module weight (kg):	0.46	0.46	0.46
Module resolution(PX* PX):	128x128	100x100	96x96
Drive mode	Constant current drive	Constant current drive	Constant current drive
Horizontal viewing angle(Deg):	160	160	160
vertical viewing angle(Deg):	140	140	140
Brightness (cd/SQM):	600	800	1000
Gray (bit) :	≥14	≥14	≥14
Refresh(Hz):	3840	3840	3840
Max power consumption(W/m ²):	520	520	520
average power consumption((W/m ²):	200	200	200

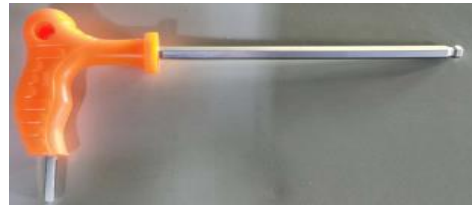
Cabinet size (mm * mm):	1000x500/750x500/500x500/1000x250/750x250/500x250
Cabinet weight (KG/SQM):	20
Cabinet thickness(mm):	33.4
Working voltage (V):	110-220
range of working temperature(°C):	-20~ +55
range of working temperature (RH) :	10%~95%
Storage temperature range(°C):	-40~ +80
Storage temperature range(RH):	10%~90%
Dustproof and waterproof level	IP20
Working environment	户内
Maintenance method	前维护
Certificates	EMC,CE, ETL,FCC, CB

3. Installation

3.1 Installation accessories and tools

<p>Connection plate (For installation and use during front maintenance of the cabinet)</p>	
<p>Top connection plate (For installation and fixation of cabinet and suspension beams)</p>	
<p>Screws (M6*55) (For use in fixing suspension beams and connection plate)</p>	
<p>Front maintenance connection plate screws (M6*16) (Used to fix the cabinet and connecting plate)</p>	

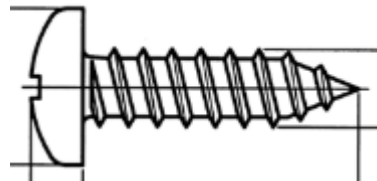
Locking tab tool
(Hexagonal wrench M6, M8)



Pre-module maintenance
tools
(P2. 97. P3. 91, P4. 81 only)

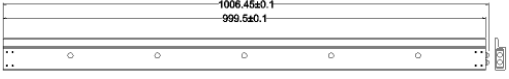
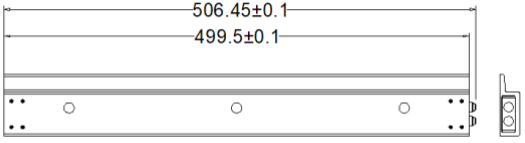
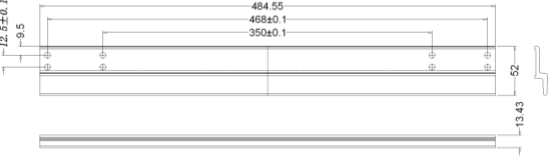
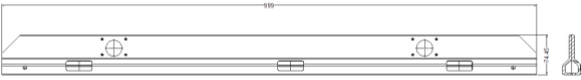


PA5*25 self-tapping
screws
(for installation on
wooden walls)

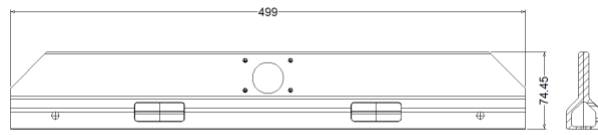


M10*80 expansion screw
(For installation on
concrete walls)



<p>1 meter long mounting wall (for wall-mounted installation)</p>	
<p>0.5 meter long mounting wall (for wall-mounted installation)</p>	
<p>Wall mounted hook (for wall-mounted installation)</p>	
<p>1 meter hanging bar (for hoist use)</p>	

0.5m hanging beam
(for hoisting use)



Allen wrench



Laser level



Spirit level



3.2 Installation method

3.2.1 Install directly on the wooden wall

Check whether the on-site wooden wall meets the construction conditions and whether the materials are standard.

Use a laser level to check the installation surface of the wooden board and check whether the wall surface is flat.

Step 1: Take out the cabinet and use a vacuum tool to remove the module from the cabinet. If the module does not arrive in the cabinet, it can be installed directly and this step can be skipped.

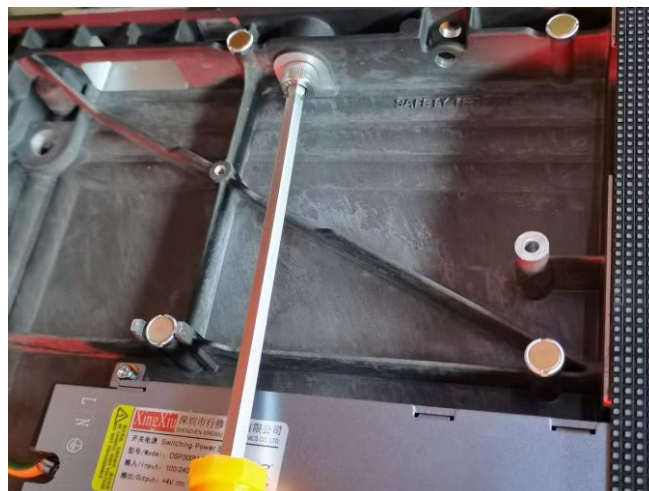


Step 2: Use an electric drill to fix the cabinet to the wooden wall with self-tapping screws, and install the four holes corresponding to the four corners of the cabinets by analogy to complete the installation of a single cabinet. When installing, you can first install the bottom row of cabinets and lock the left and right connecting screws of the cabinet.

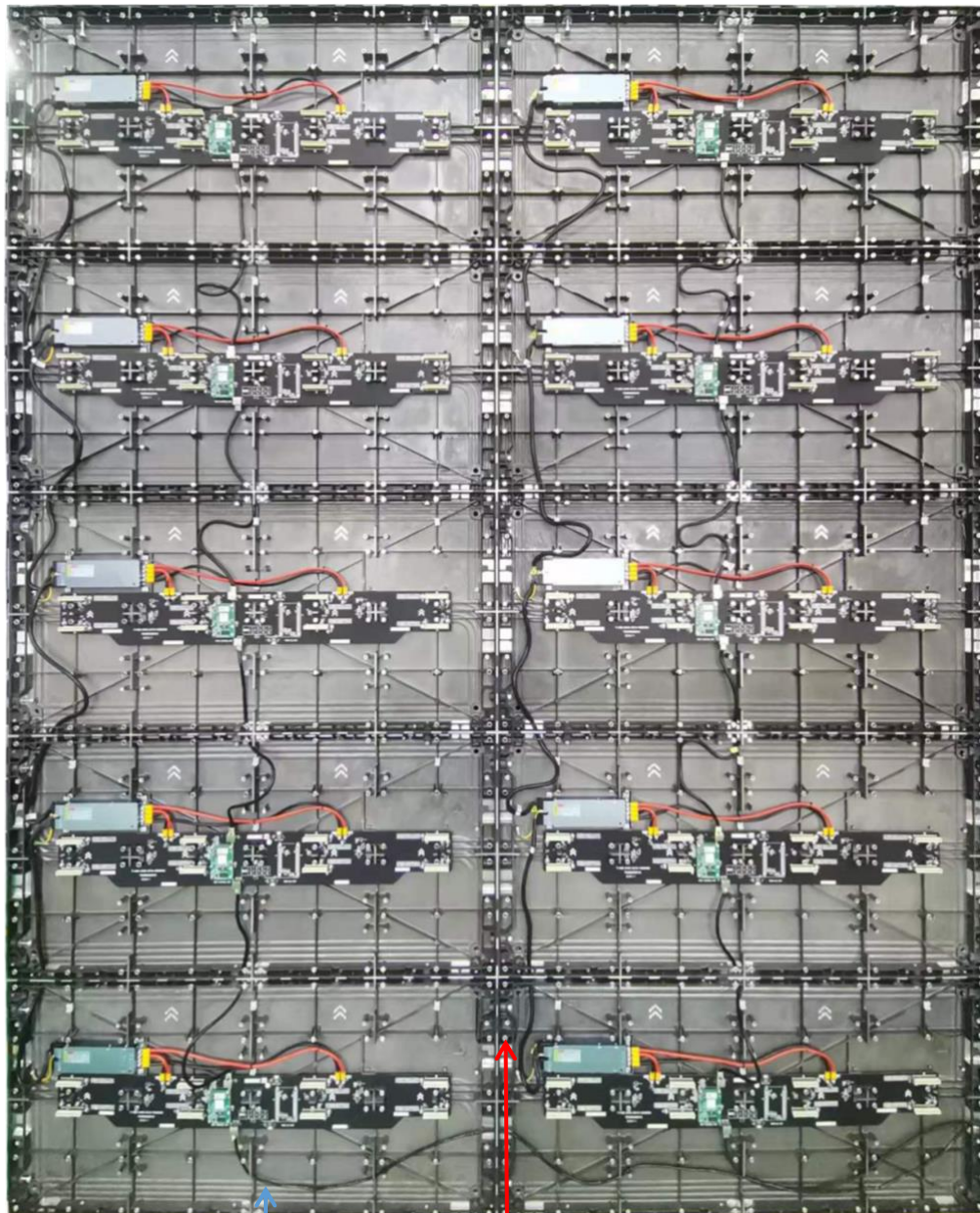




After the bottom row of cabinet is installed, they can be installed upwards one by one, locking the upper and lower connecting screws and the left and right connecting screws between the cabinets until the entire screen is installed.



Step 3: Follow the connection diagram provided by our company to indicate the connecting wires, to be consistent with the drawings, and connect all wires.



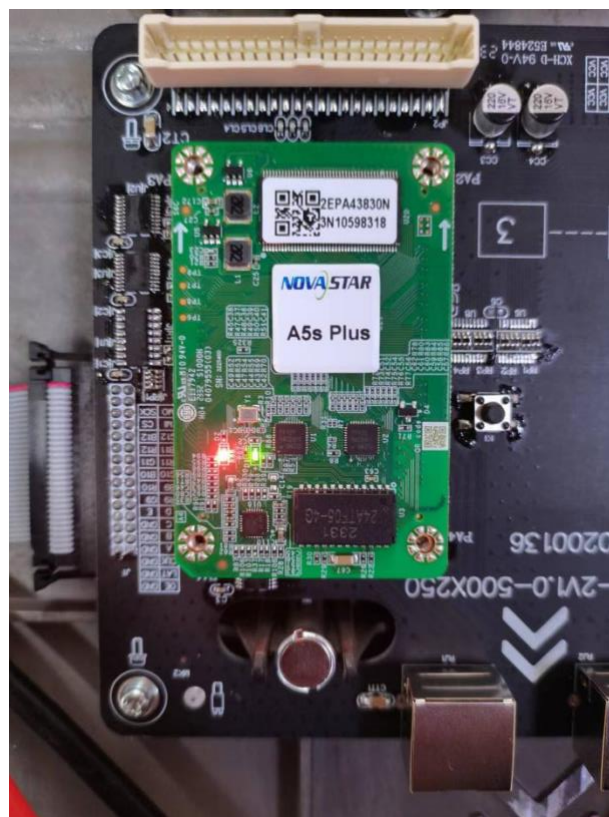
Cable

Power cord

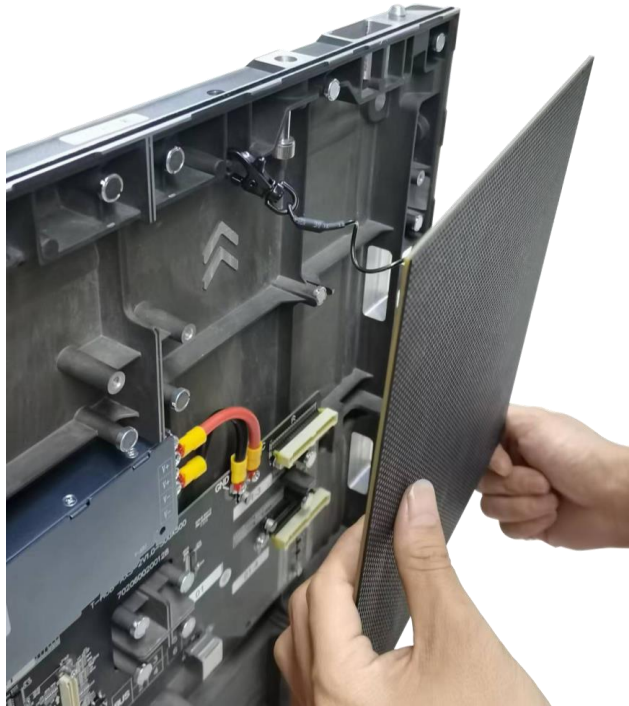
Step 4: Turn on the power and check whether all the cabinets are powered on normally, whether there is a signal from the receiving card, and whether the indicator light flashes normally.

Indicator	Colour	Status	Comments
Power indicator	Red	Always on	Power input is normal

Indicator	Colour	Status	Comments
Running indicator	Green	Flash on every 1 second	Receiving card is working properly, data connection is working, with video input
		Flash on every 3 seconds	Data connection is abnormal
		Flash 3 times with an interval of 0.5s	Data connection is normal, no video input
		Flash 1 times with an interval of 0.2s	Program loading failed, backup program has been started
		Flash 8 times with an interval of 0.5s	Network port redundancy switching occurs, loop backup takes effect



Step 5: Install the module. First hang the module safety rope on the cabinets. body corresponding to the installation location, and then put the module back in sequence. The display surface must be ensured to be flat and there must be no front-to-back dislocation.





PARTIAL INSTALLATION DIAGRAM.

3.2.2 Install directly on concrete wall

Check whether the on-site concrete wall meets the construction conditions and whether the materials are standard.

Use a laser level to check the installation surface and check whether the wall is flat.

Step 1: Take out the cabinet and remove the module from the cabinet. If the module is not installed in the arrival cabinets, it can be installed directly, and this step can be skipped.



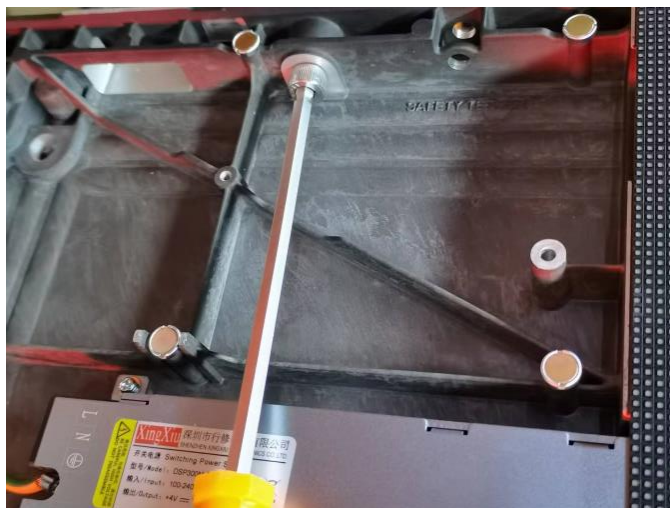
Step 2: Punch holes in the wall with an electric drill, fix the cabinets on the concrete wall with expansion screws, and so on, install the four holes corresponding to the four corners of the cabinets of the whole project, and so on to complete the installation.



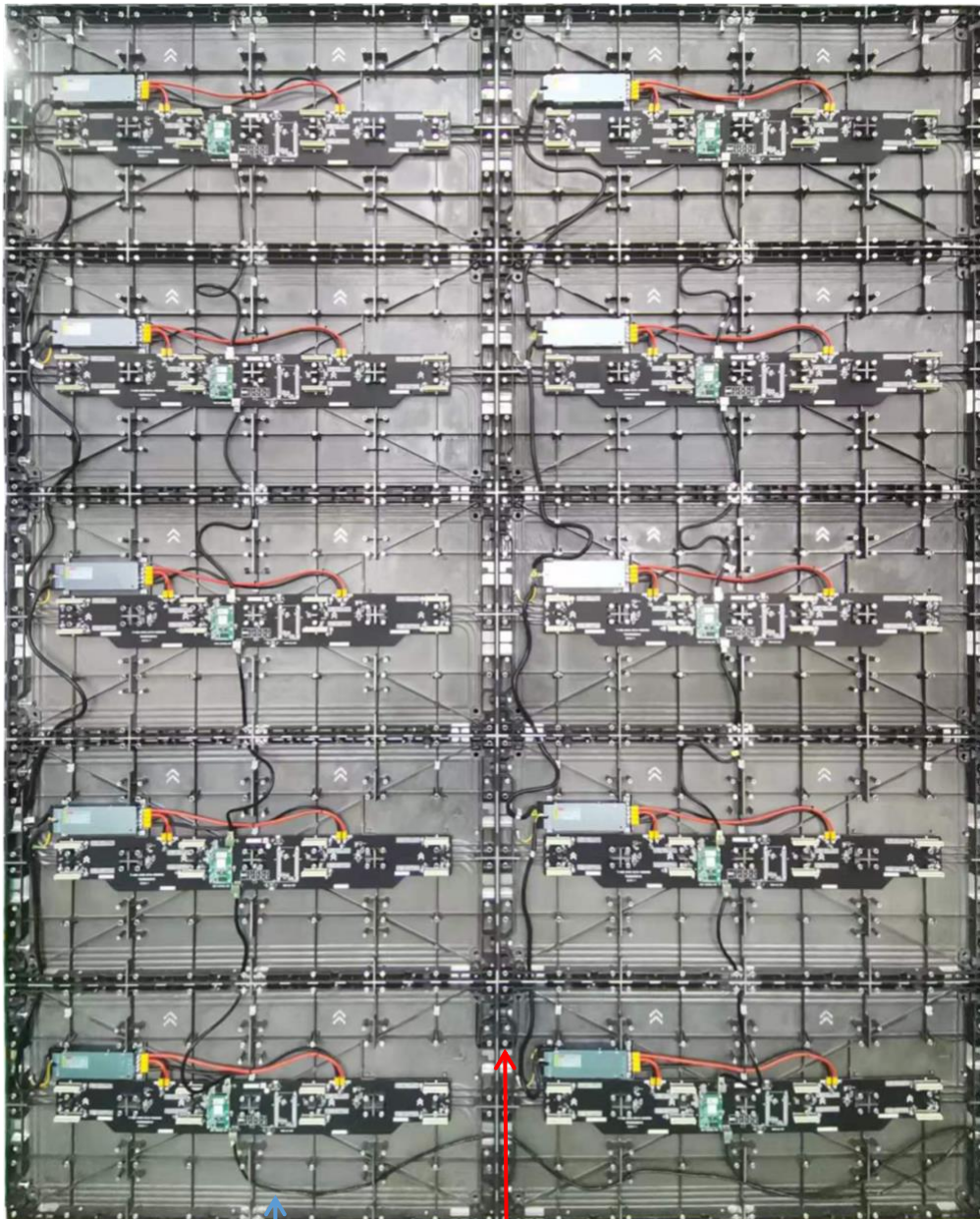
When installing, you can first install the bottom row of cabinet and lock the left and right connecting screws of the cabinets.



After the bottom row of cabinet is installed, it can be installed upwards one by one, locking the upper and lower connecting screws and the left and right connecting screws between the cabinet until the entire screen is installed.



Step 3: Follow the connection diagram instructions provided by our company to connect the wires so that they are consistent with the drawings and complete all wire connected.



Cable

Power cord

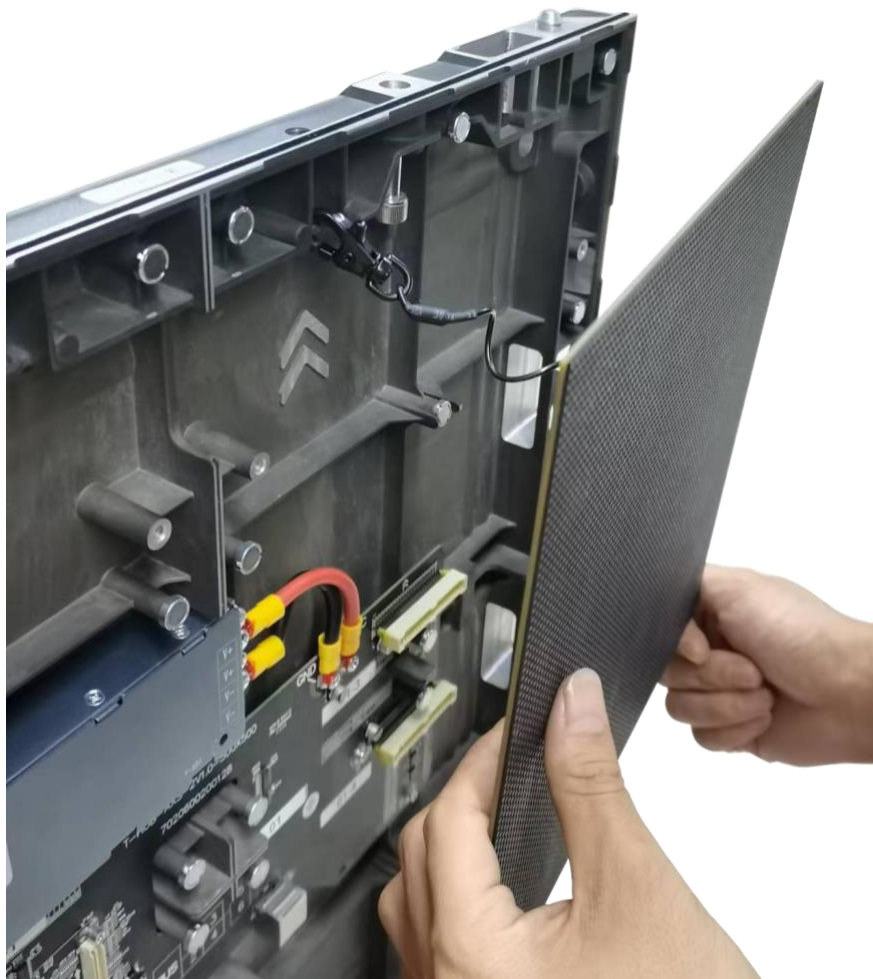
Step 4: Turn on the power and check whether all the cabinets are powered on normally, whether there is a signal from the receiving card, and whether the indicator light flashes normally.

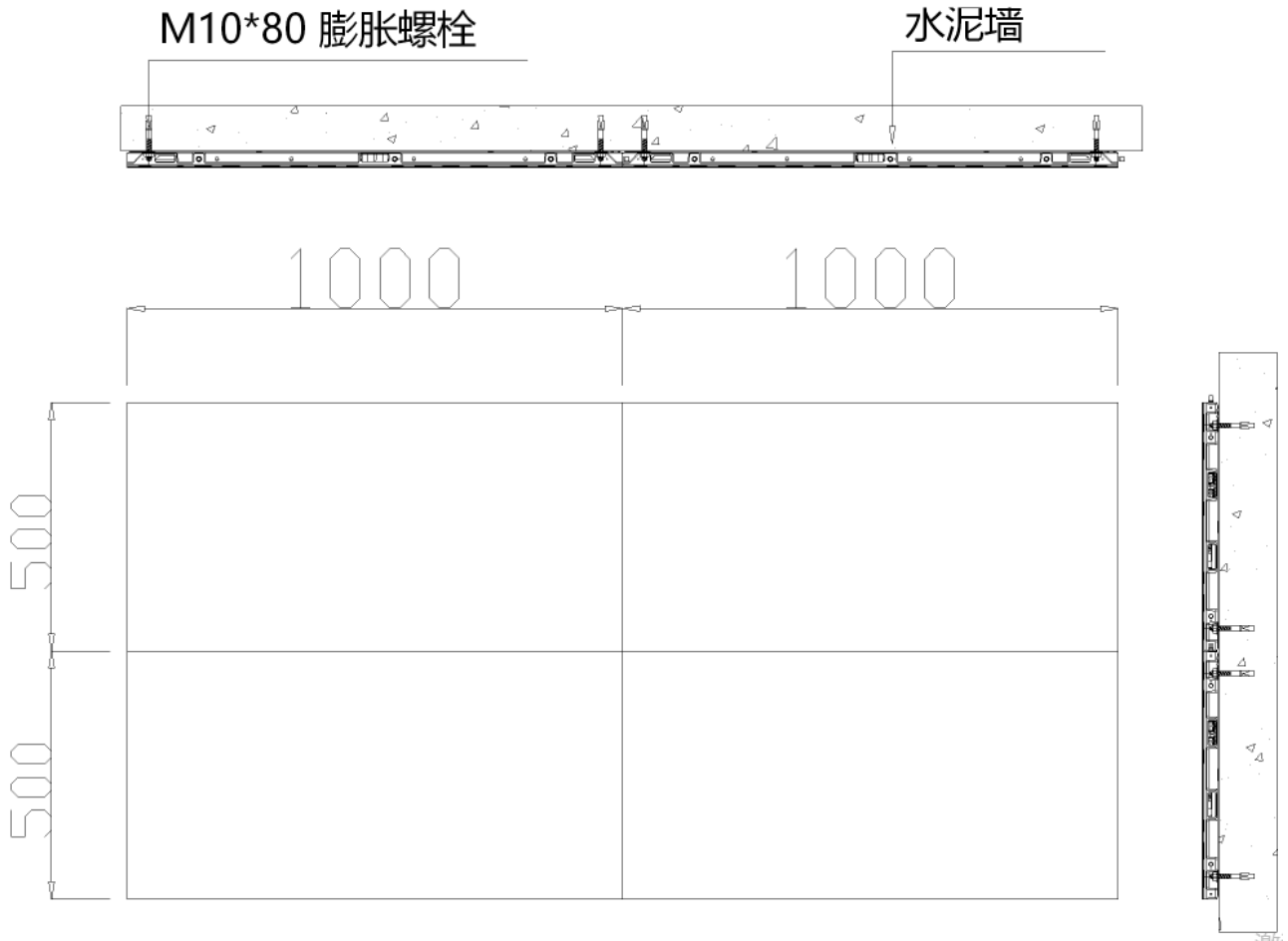
Indicator	Colour	Status	Comments
Power indicator	Red	Always on	Power input is normal

Indicator	Colour	Status	Comments
Running indicator	Green	Flash on every 1 second	Receiving card is working properly, data connection is working, with video input
		Flash on every 3 seconds	Data connection is abnormal
		Flash 3 times with an interval of 0.5s	Data connection is normal, no video input
		Flash 1 times with an interval of 0.2s	Program loading failed, backup program has been started
		Flash 8 times with an interval of 0.5s	Network port redundancy switching occurs, loop backup takes effect



Step 5: Install the module. First, hang the module safety rope at the corresponding installation location of the cabinet, and then put the module back in sequence. The display surface must be ensured to be flat and there must be no front-to-back dislocation.





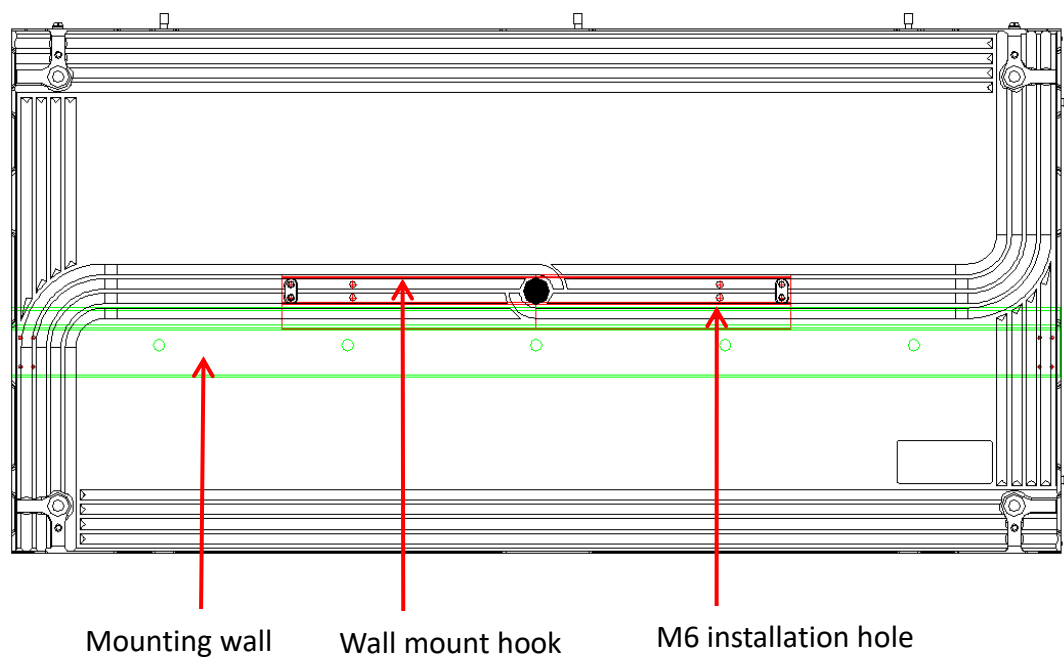
Schematic diagram of partial installation

3.3 Wall mounting installation

Check whether the on-site wall meets the construction conditions and whether the materials are standard. Use a laser level to check whether the concrete installation surface is flat.

Preparation before installation: For a screen composed of multiple cabinets, all modules can be removed first to facilitate cabinets wiring and installation connections. After installing all the cabinets, follow the connection diagram provided by our company to connect the wires and install the screen module. If the module is not installed in the cabinets when it arrives, it can be installed directly.

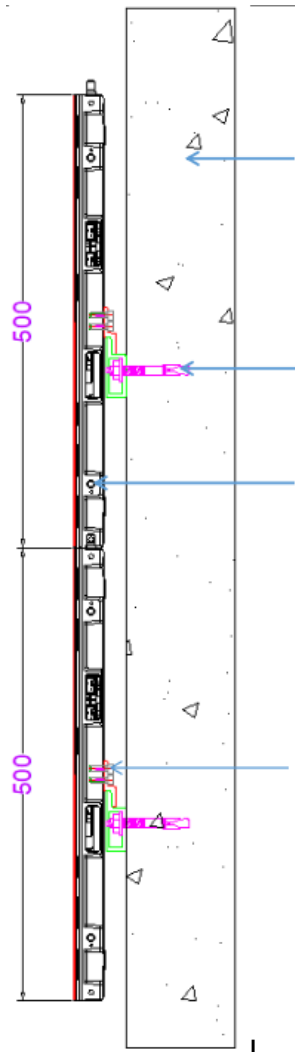
Step 1: Adjust the hook beam to the position corresponding to the cabinets hole, and lock the M6*20 screws to secure the installation.



Step 2: Drill holes on the wall at the same level and use M10*80 expansion bolts to install the wall hanging strip.

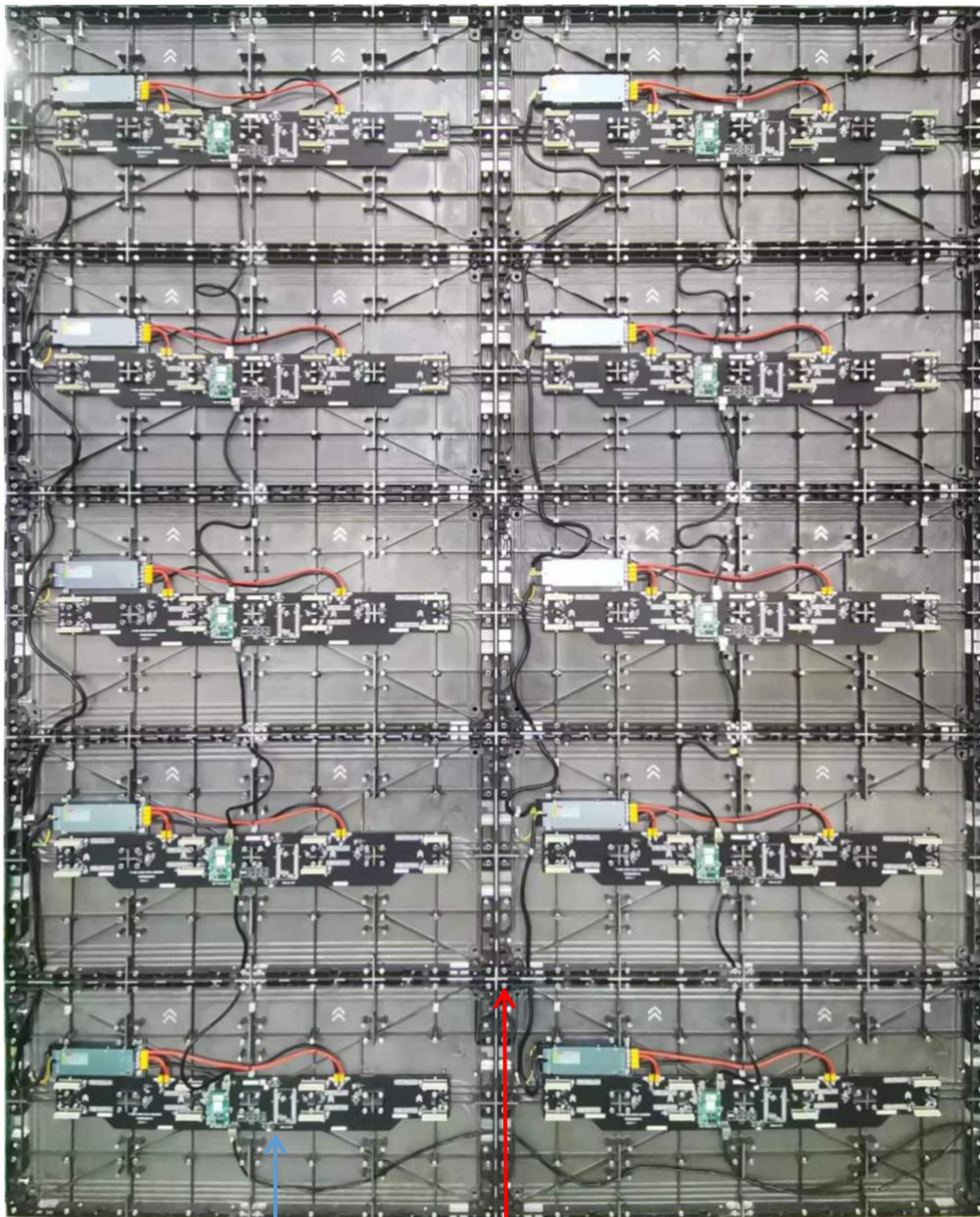
Step 3: Place the installed cabinets and hook beam on the wall mounting bar to complete the installation. After installation, check whether the installation is smooth.

Step 4: Follow the above steps to install other cabinets one by one. During installation, lock the upper and lower connecting screws and the left and right connecting screws between the cabinets. After the installation is completed, check whether the installation is smooth.



Installation Diagram

Step 5: Follow the connection diagram provided by our company to connect the wires to make them consistent with the drawings, connect all the wires, and install the modules.



Cable

Power cord

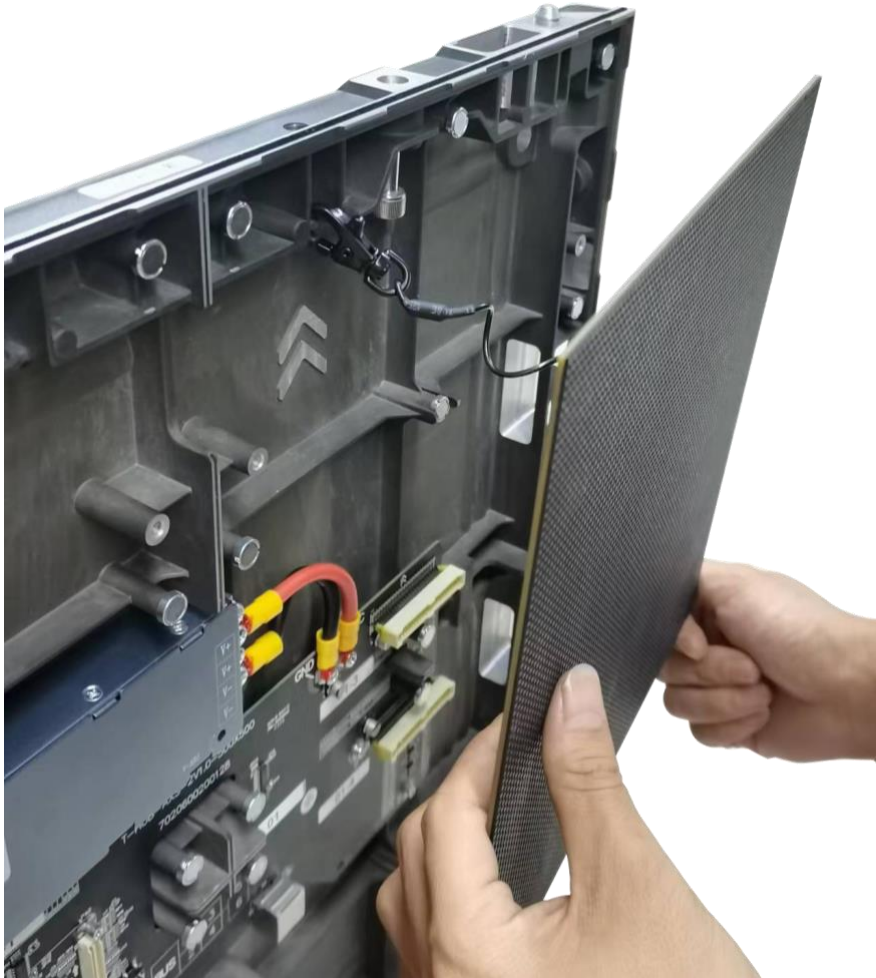
Step 6: Turn on the power and check whether all the cabinets are powered on normally, whether there is a signal from the receiving card, whether the indicator light flashes normally, and whether the display cabinet is flush.

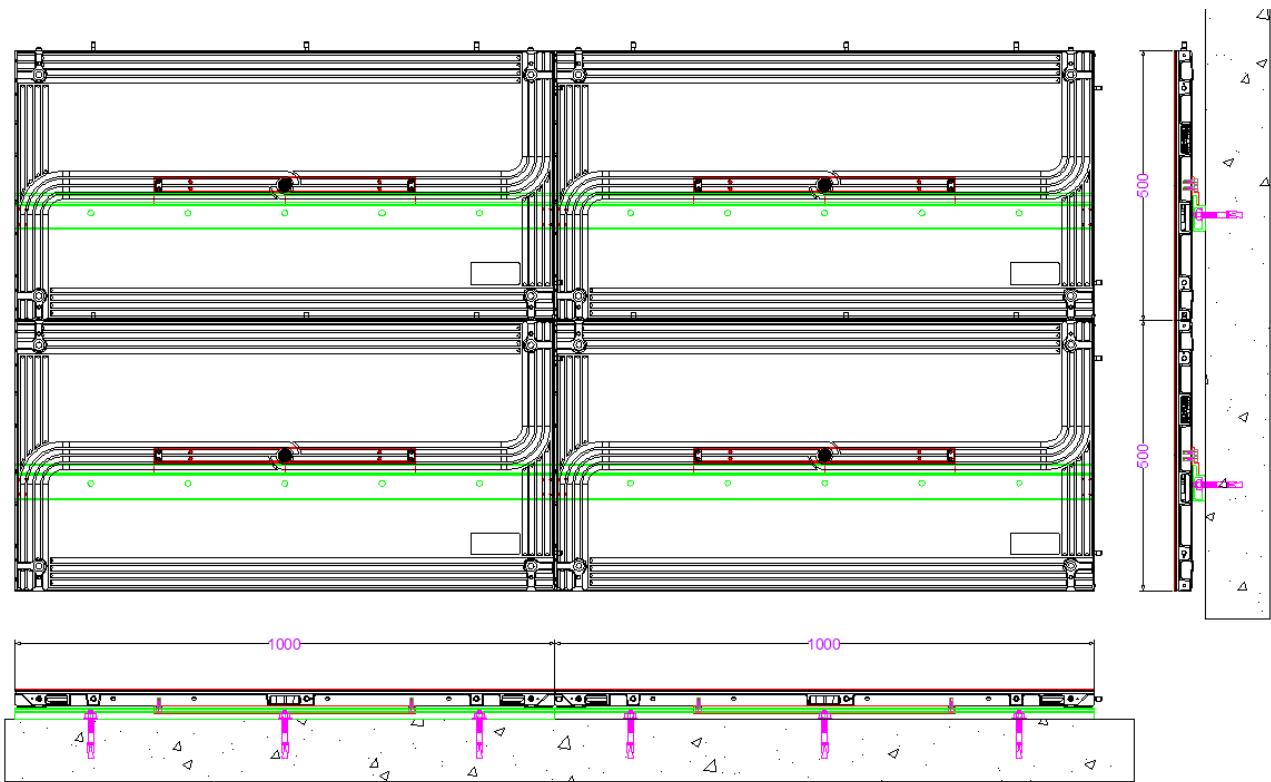
Indicator	Colour	Status	Comments
Power indicator	Red	Always on	Power input is normal

Indicator	Colour	Status	Comments
Running indicator	Green	Flash on every 1 second	Receiving card is working properly, data connection is working, with video input
		Flash on every 3 seconds	Data connection is abnormal
		Flash 3 times with an interval of 0.5s	Data connection is normal, no video input
		Flash 1 times with an interval of 0.2s	Program loading failed, backup program has been started
		Flash 8 times with an interval of 0.5s	Network port redundancy switching occurs, loop backup takes effect



Step 7: Install the module. First hang the module safety rope on the cabinets. body corresponding to the installation location, and then put the module back in sequence. The display surface must be ensured to be flat and there must be no front-to-back dislocation.





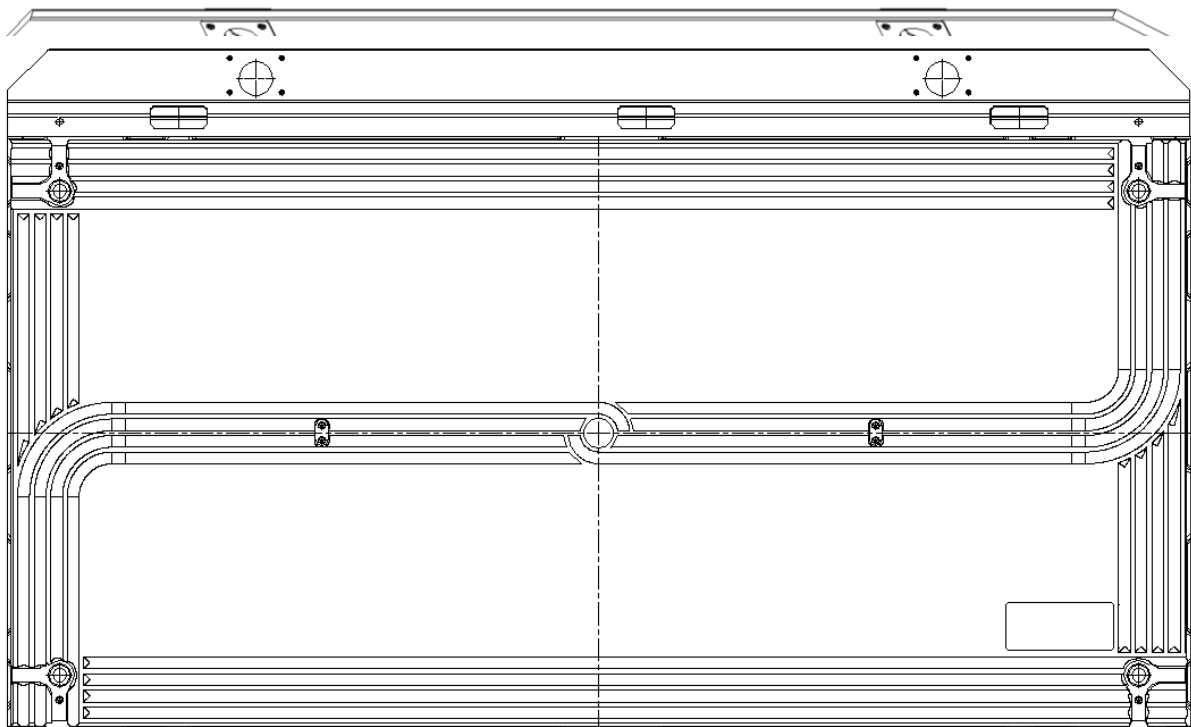
PARTIAL INSTALLATION DIAGRAM

3.4 Hoist Installation

Check whether the site meets the lifting construction conditions and whether the lifting points, lifting ropes, etc. meet the installation standards.

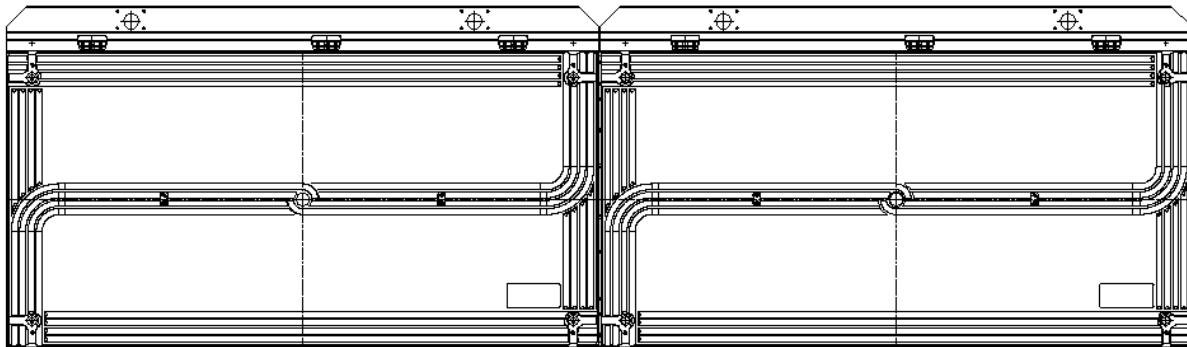
Preparation before installation: For screens with a large number of cabinets, remove all modules first to facilitate cabinet wiring and installation connections. After installing all the cabinets, follow the connection diagram provided by our company to connect the wires and install the screen module. If the module does not go to the cabinets, it can be installed directly and this step can be skipped.

Step 1: Find the hanging bar corresponding to the box, install the hanging beam according to the corresponding hole position, and adjust the flatness of the hanging beam surface. Fix and install the first cabinet.

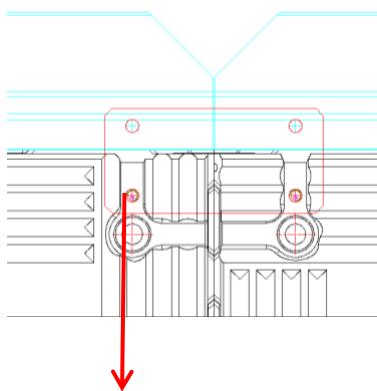
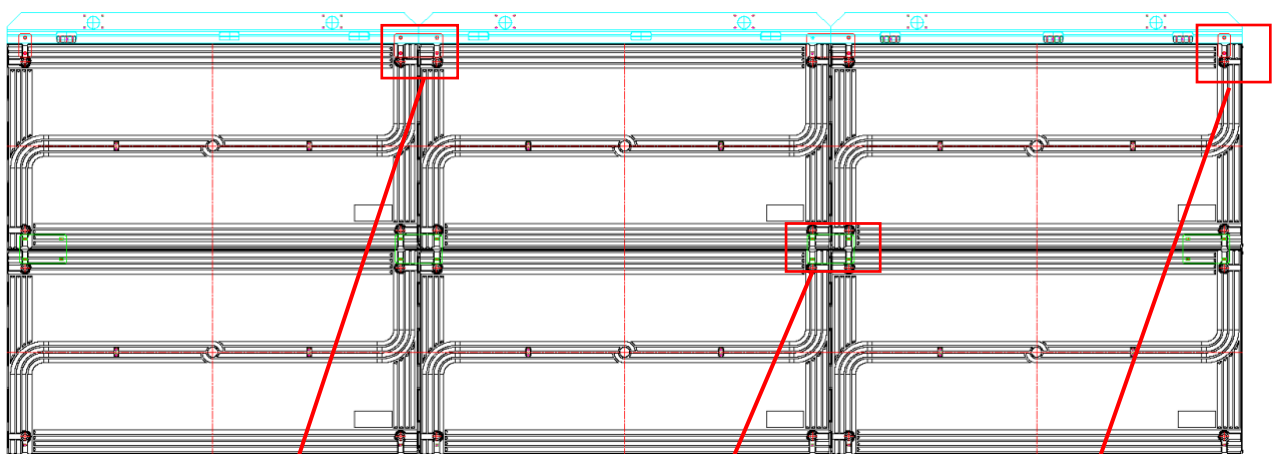


Installation diagram of a single cabinet and hanging bar

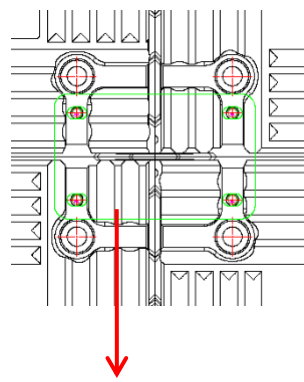
Step 2: Install the second suspension beam and cabinet using the same method as the previous step, and lock the left and right connecting screws between the cabinet.



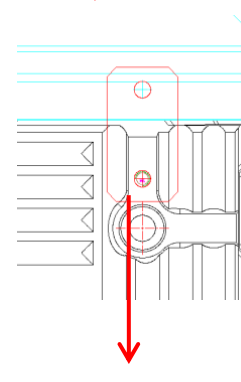
Step 3: Install the other remaining cabinet in the same way as above, lock the left and right connecting screws and the upper and lower connecting screws between the cabinet install the corresponding connecting pieces, and adjust the flatness.



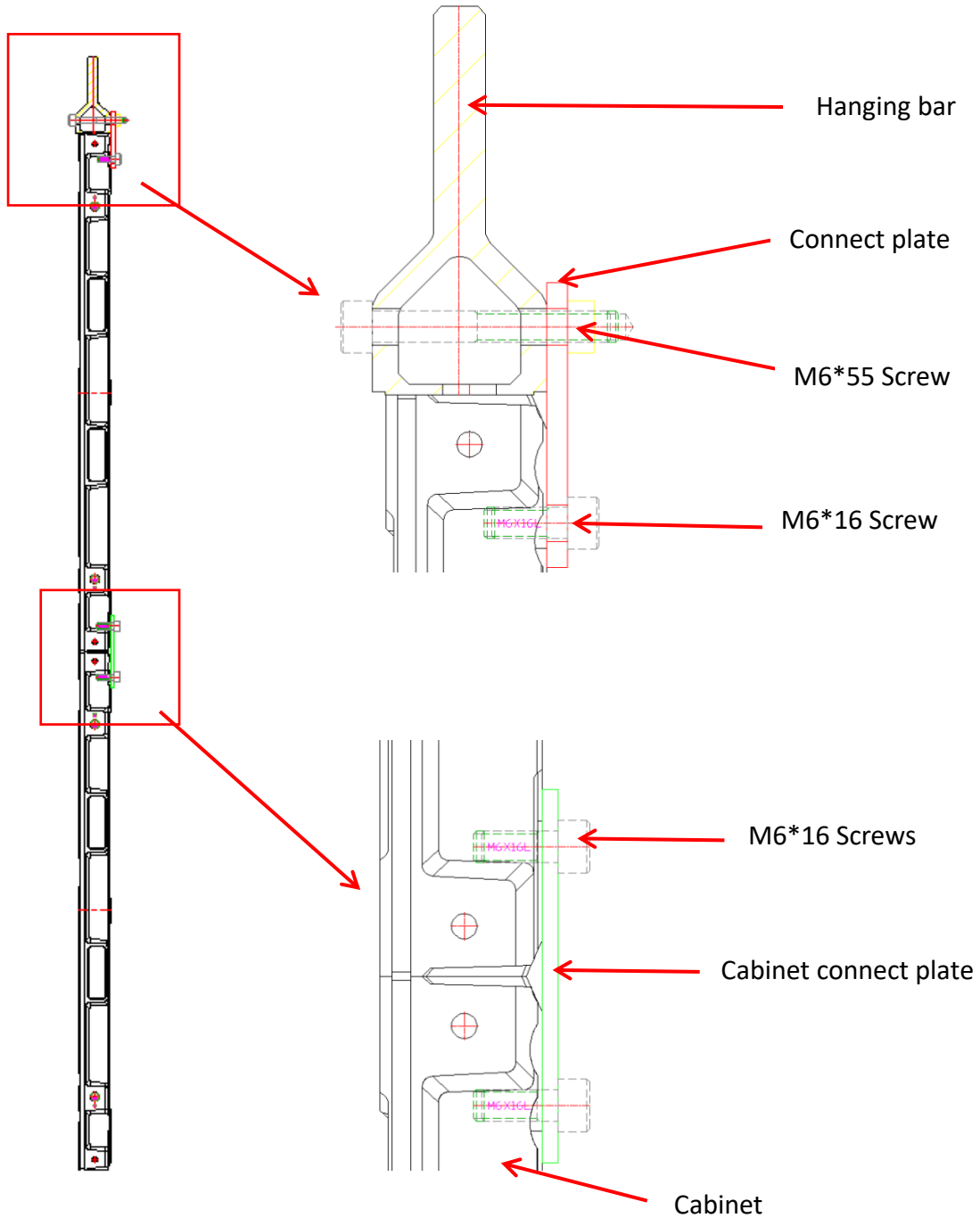
Connection plate



Cabinet connection plate

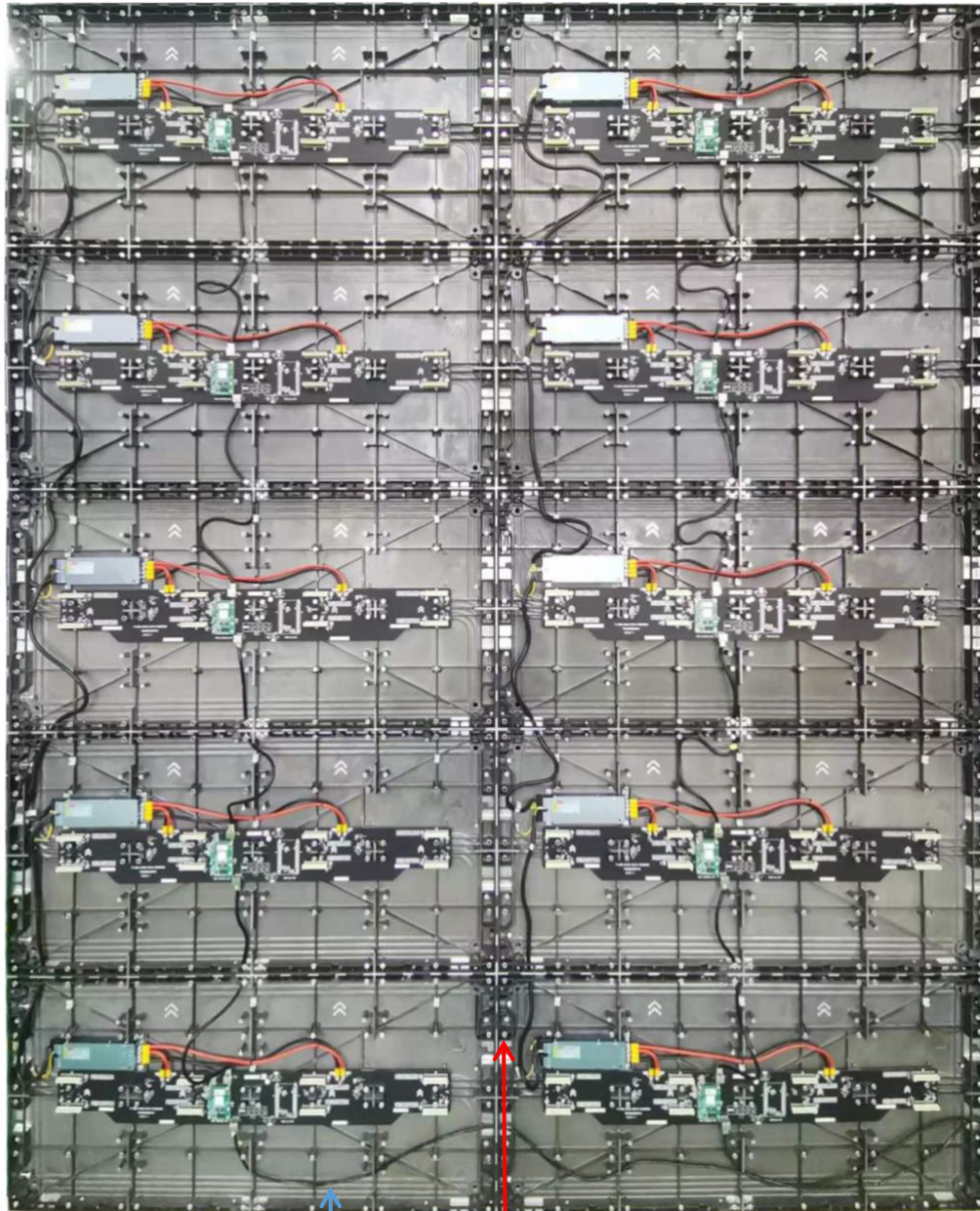


Side connection plate



side view of the hoist

Step 4: Connect the power cord and network cable according to the drawings provided by our company. Turn on the power and check whether all the cabinets are powered on normally, whether there is a signal from the receiving card, and whether the indicator light flashes normally.



Cable

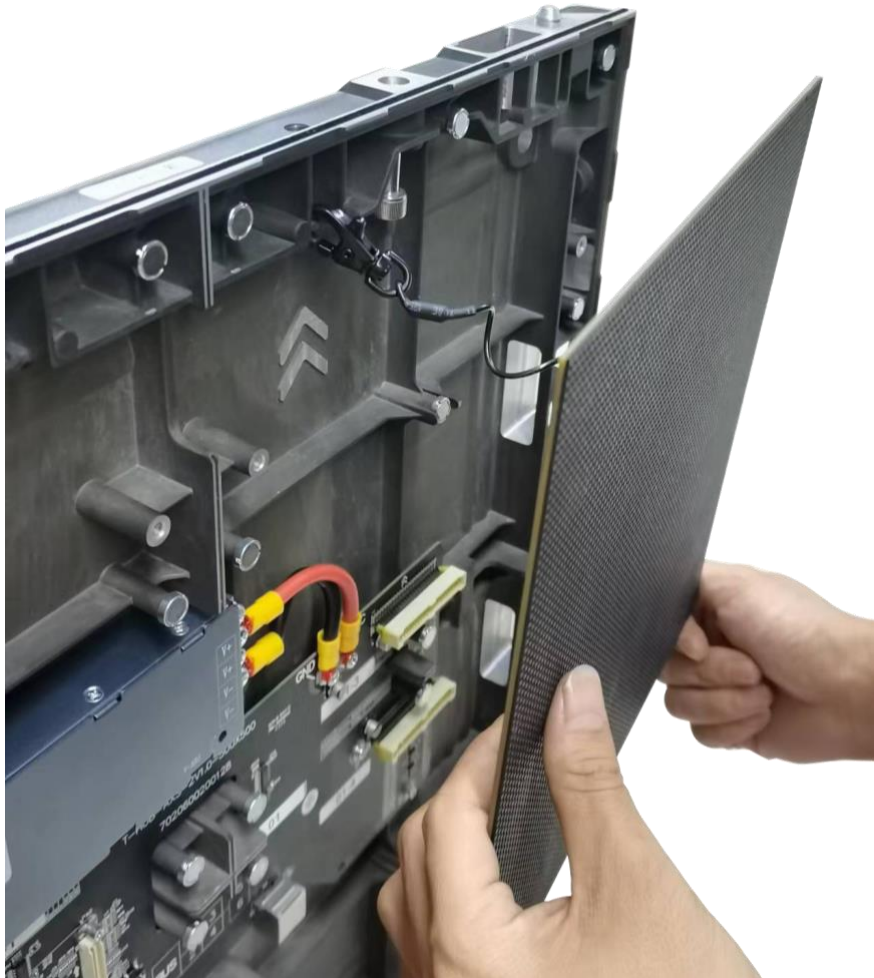
Power cord

Indicator	Colour	Status	Comments
Power indicator	Red	Always on	Power input is normal

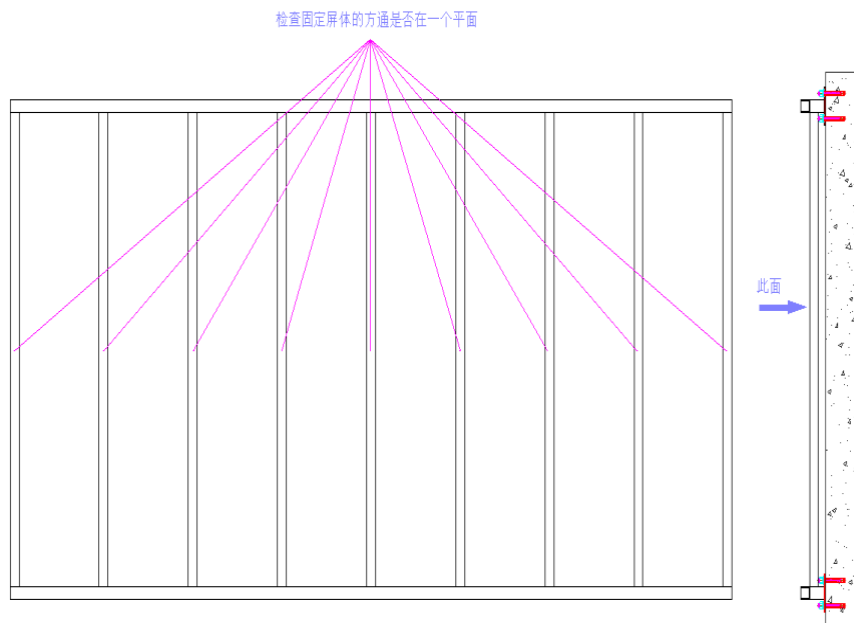
Indicator	Colour	Status	Comments
Running indicator	Green	Flash on every 1 second	Receiving card is working properly, data connection is working, with video input
		Flash on every 3 seconds	Data connection is abnormal
		Flash 3 times with an interval of 0.5s	Data connection is normal, no video input
		Flash 1 times with an interval of 0.2s	Program loading failed, backup program has been started
		Flash 8 times with an interval of 0.5s	Network port redundancy switching occurs, loop backup takes effect



Step 5: Install the module. First hang the module safety rope on the cabinet. body corresponding to the installation location, and then put the module back in sequence. The display surface must be ensured to be flat and there must be no front-to-back dislocation.



3.5 Steel Structure Installation

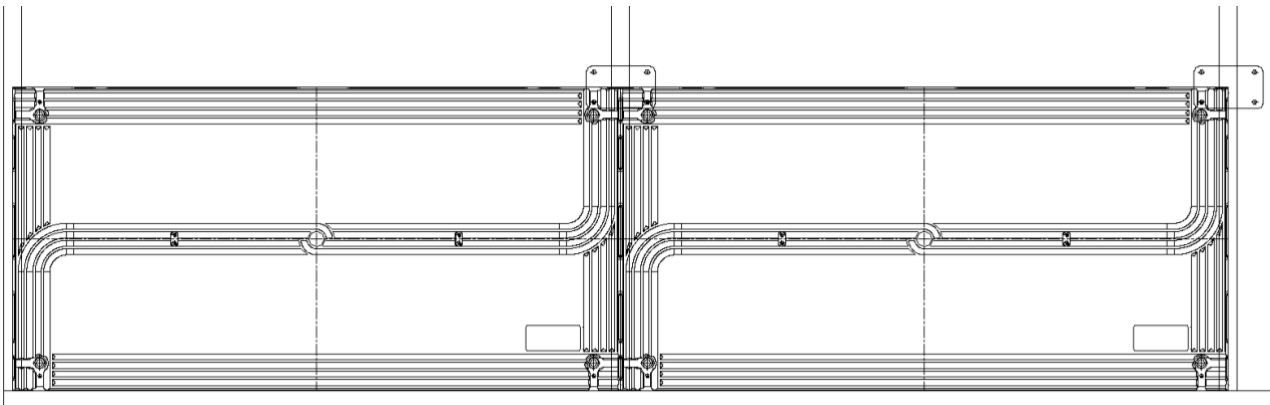


Preparation before installation: Check whether the on-site steel structure is consistent with the dimensions of the drawing, whether the steel structure is welded firmly, and whether the materials are standard. Use a laser level to check the steel structure installation surface and whether the square tube that fixes the screen is on a vertical surface.

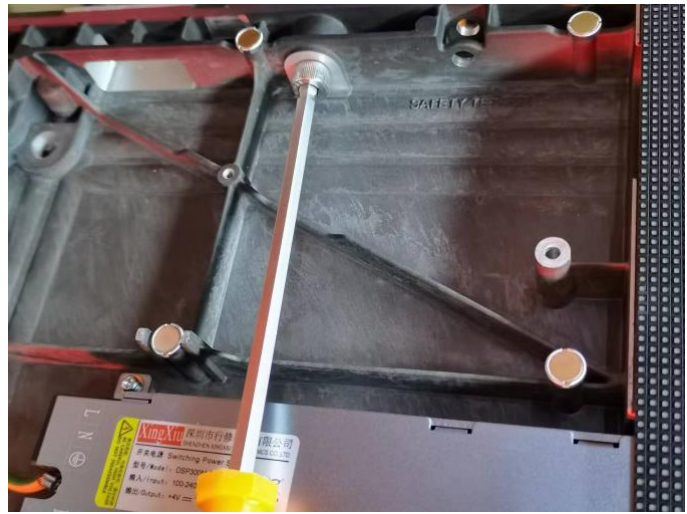
Use a laser level and a spirit level to check whether the bottom structure of the display is level and vertical to the vertical pole. After completing the above checks, confirm that there are no problems before proceeding with installation.

Step 1: Take a cabinet and place it smoothly on the horizontal square tube, try to align the two sides with the center of the vertical bar, take another cabinet and install it, lock the connecting

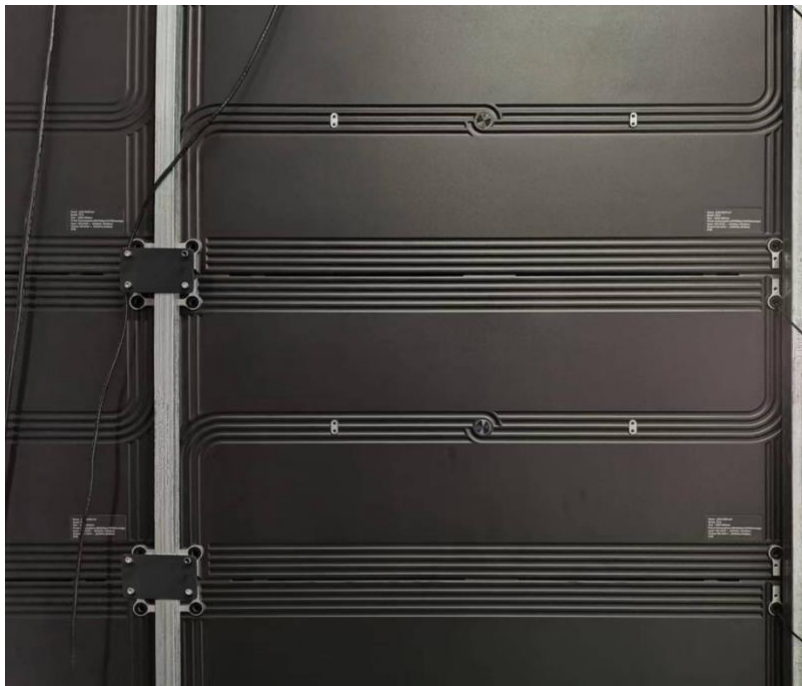
piece, and lock the left and right connecting screws of the cabinet.



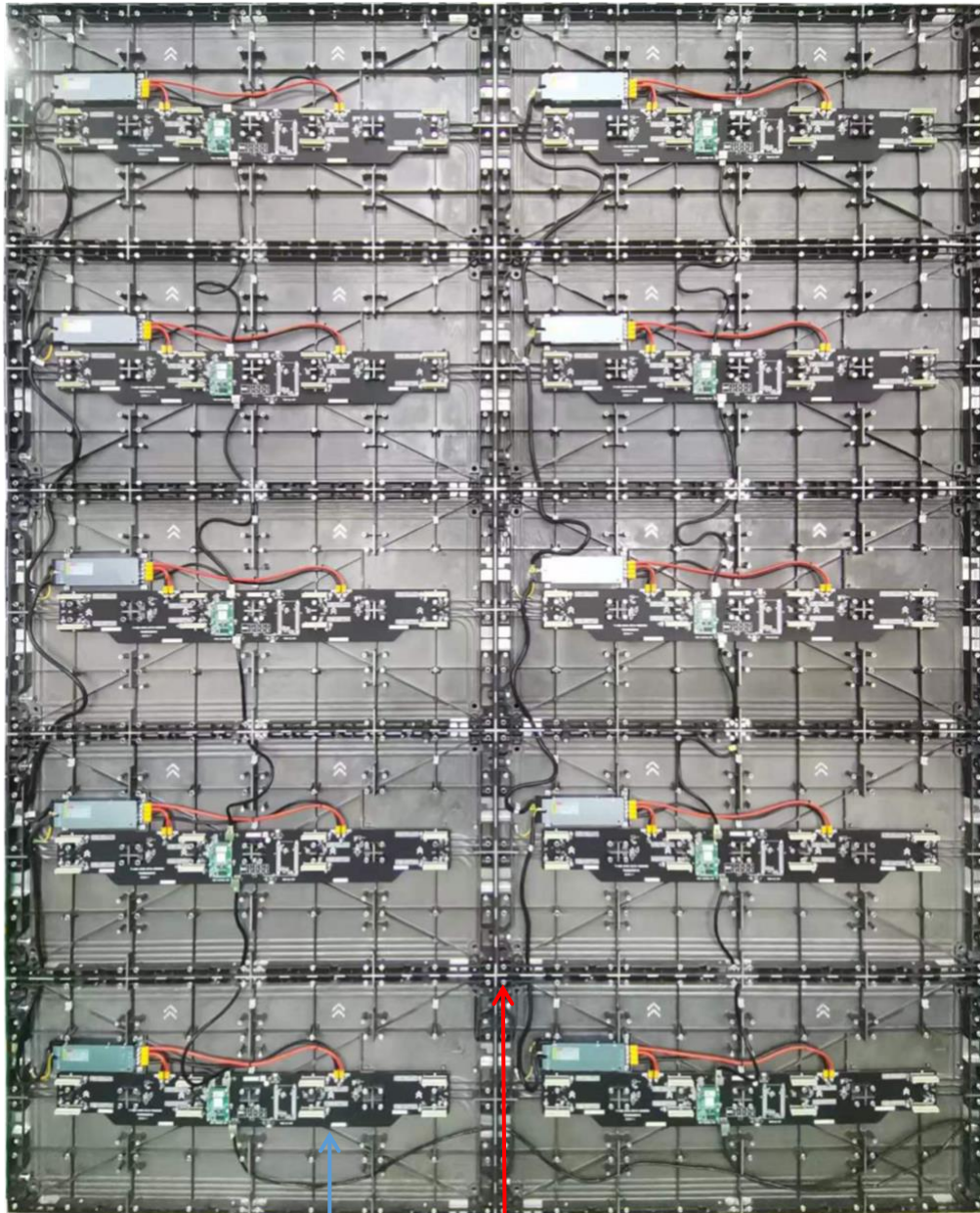
Step 2: After installing the bottom row of cabinet in the same way, install the upper cabinet in sequence, lock the connecting pieces, and lock the connecting screws between the cabinets.



Step 3: Repeat the above steps 1 and 2 until the entire screen installation is completed.



Step 4: Connect the power cord and network cable according to the drawings provided by our company. Turn on the power and check whether all the cabinet are powered on normally, whether there is a signal from the receiving card, and whether the indicator light flashes normally.



Cable.

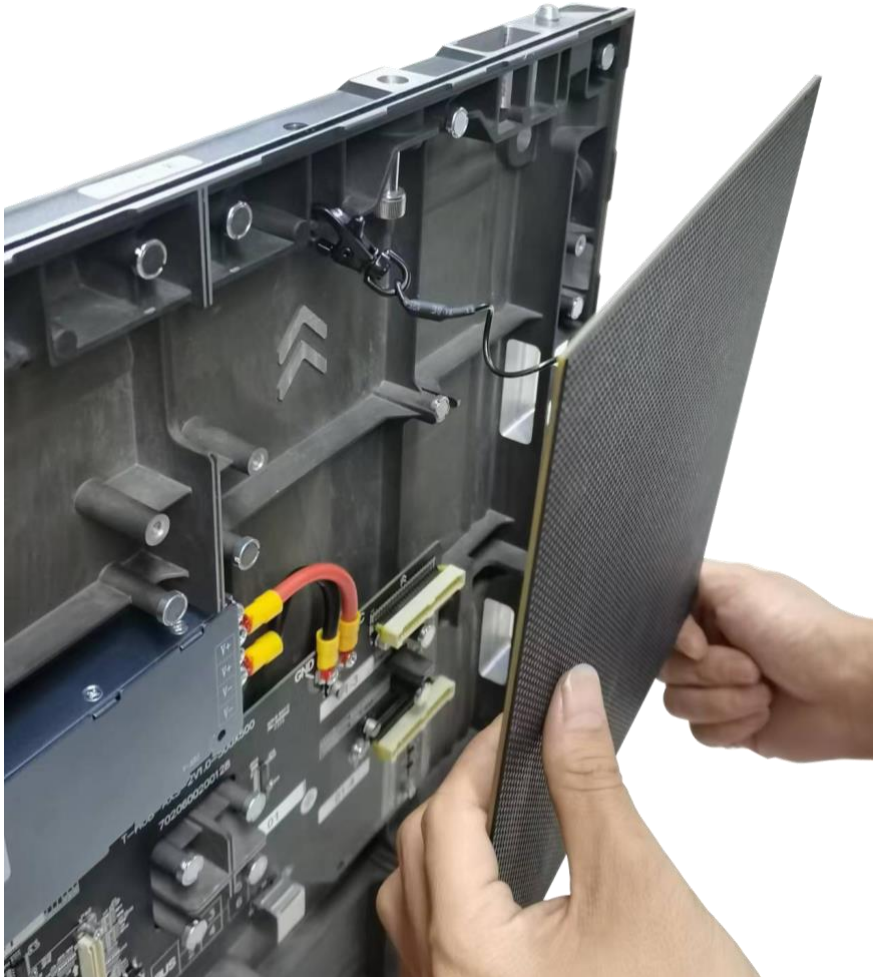
Power cord

Indicator	Colour	Status	Comments
Power indicator	Red	Always on	Power input is normal

Indicator	Colour	Status	Comments
Running indicator	Green	Flash on every 1 second	Receiving card is working properly, data connection is working, with video input
		Flash on every 3 seconds	Data connection is abnormal
		Flash 3 times with an interval of 0.5s	Data connection is normal, no video input
		Flash 1 times with an interval of 0.2s	Program loading failed, backup program has been started
		Flash 8 times with an interval of 0.5s	Network port redundancy switching occurs, loop backup takes effect



Step 5: Install the module. First hang the module safety rope on the cabinet. body corresponding to the installation location, and then put the module back in sequence. The display surface must be ensured to be flat and there must be no front-to-back dislocation.



4. Maintenance Methods

4.1 Maintenance Method

Note: To ensure safety, all maintenance and installation operations need to be performed during a power outage.

(1) Module Maintenance

- ◆ Hold the electric vacuum tool and press the button to remove the module.
- ◆ Note: Please make sure to support maintenance tools and modules during operation to prevent the module from falling.
- ◆ When we install the module, we want to make sure that the direction of the arrow on the back of the module is consistent with the direction on the hub board



(2) Maintenance of other accessories

(3) Maintenance of receiving cards

Turn off the power and remove the 4 screws holding the receiving card in place with a screwdriver.

Replace the receiving card with a new one, install the set screws that were removed earlier.

Tip: Please assemble in the direction indicated by the arrows.

Indicator	Colour	Status	Comments
Power indicator	Red	Always on	Power input is normal

Indicator	Colour	Status	Comments
Running indicator	Green	Flash on every 1 second	Receiving card is working properly, data connection is working, with video input
		Flash on every 3 seconds	Data connection is abnormal
		Flash 3 times with an interval of 0.5s	Data connection is normal, no video input
		Flash 1 times with an interval of 0.2s	Program loading failed, backup program has been started
		Flash 8 times with an interval of 0.5s	Network port redundancy switching occurs, loop backup takes effect



4.2 Troubleshooting

Fault status	Failure analysis	Solution
LED screen not powered	<ol style="list-style-type: none"> 1. The monitor has no power supply. 2. The signal transmission cable is not connected correctly. 3. The computer's graphics card is improperly placed. 4. The screen is closed by the control software. <p>There is a problem with the control system.</p> <ol style="list-style-type: none"> 5. The receiving card is damaged. 6. The control system does not display program parameters. 	<ol style="list-style-type: none"> 1. Make sure the screen power supply is correct. 2. Check whether the DVI cable and other transmission cables are well connected. Set your computer's graphics card to copy or extend mode. 3. Set the control system software to display the open state. 4. Check whether the control system is installed properly. The green light flashes and the red light indicates normal operation; the green light on or off indicates that the receiving card is broken or has no signal. If it is indeed damaged, replace it. 5. Check whether the receiving card is working normally (red light is on) and whether the transmission signal (green light is flashing) is normal. 6. Open the control software to load the program parameters of the monitor and send them to the monitor's receiving card for storage.
Abnormal display level	<ol style="list-style-type: none"> 1. The displayed program parameters are incorrect 2. The resolution setting of the graphics card or control system is incorrect. 	<ol style="list-style-type: none"> 1. Please check whether the display parameters sent are correct. If the parameters are missing, please contact us. 2. Reset the resolution of the graphics card and control system (Note: You need to restart the computer after adjusting the resolution of the control system. Use an external sending cabinets to directly cut off the power and restart)

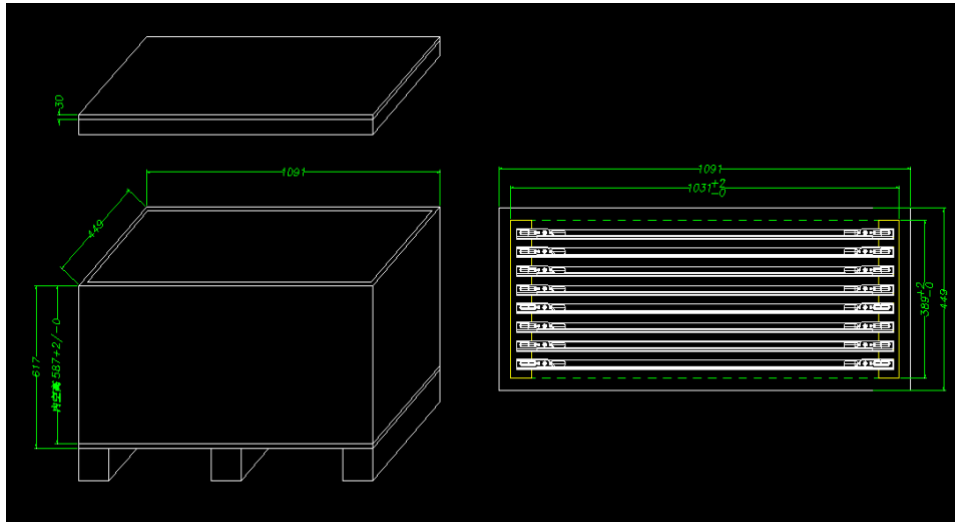
<p>Black screen or duplicate Display number of pictures</p>	<p>1. The power cord is damaged 2. The receiving card is damaged</p>	<p>1. Check whether the power supply of the cabinet is correct. 2. Check whether the receiving card is working normally (red light is on) and transmitting signal (green light is flashing). If the green light is on or off, please replace the receiving card.</p>
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Fault status	Failure analysis	Solution
Power outage of a single cabinet	<p>1. The power supply is abnormal. The winding connecting this module is loose.</p> <p>2. The input winding connected to this module is damaged due to displacement.</p> <p>3. The signal receiving IC is damaged. There is no output signal from the upper module.</p>	<p>1. Check whether the power supply voltage of the module is normal.</p> <p>2. Reinsert the winding displacement.</p> <p>3. Replace the input winding displacement of this module.</p> <p>4. Replace this module.</p> <p>5. Replace the upper module of this module.</p>
Missing colors in module display	<p>1. The winding connecting this module is loose.</p> <p>2. The input winding connected to this module is damaged due to displacement.</p>	<p>1. Re-insert the female connector of the 2.0 interface.</p> <p>2. Replace the input header displacement of this module.</p>
No operation and missing colors in multiple LEDs	<p>1. LED failure, poor welding or short circuit</p> <p>2. The IC that controls this indicator light is damaged.</p>	<p>1. Use a soldering iron to resolder the pins of the LED or the IC pins that control the LED, or replace the LED directly.</p> <p>2. Replace the integrated circuit.</p>

<p>Unable to connect to control system</p>	<p>1. The graphics card settings are incorrect.</p> <p>2. The USB of the control system is not inserted correctly or the driving software is not installed.</p> <p>3. Cabinet or module failure.</p>	<p>1. Check whether the graphics card settings are correct.</p> <p>2. Check whether the USB control cable is well connected or the USB driver software is properly installed.</p> <p>3. Check whether the module is faulty.</p>
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5. Packaging

Standard packaging: Cabinet and module are packing seperately



Cabinet : 8pcs in one wooden case

Module: 64pcs in one cabinet