LDC600XXXSFP-V_Spec

Series User Manual

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1.Safety Guidance

Please read the following safety instructions carefully before using this product.

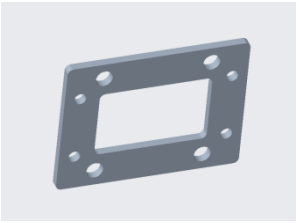
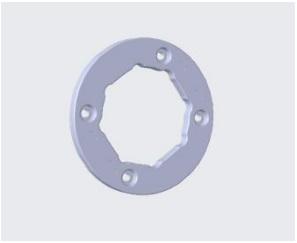
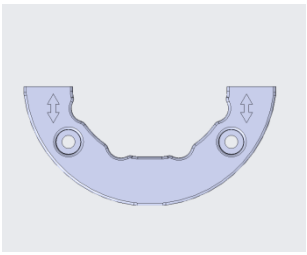
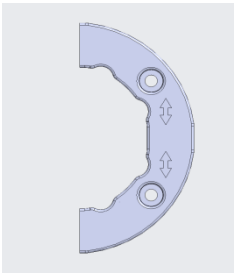
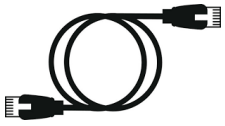
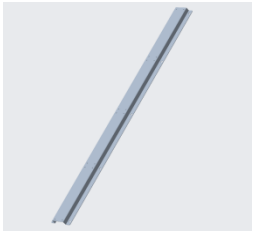
<table>
<tr><td rowspan="2"> </td><td>Before installing, powering, operating or maintaining this product, please read the instruction manual carefully to understand the meaning of the signs in the instruction manual and on the product, and strictly follow the requirements listed in the safety precautions.</td><td rowspan="3">
Injury prevention</td><td>Whenever installing, maintaining or moving this product, please block off the work area or access.</td></tr>
<tr><td></td><td>Check that all external masks and hardware are properly locked.</td></tr>
<tr><td rowspan="2"> </td><td rowspan="2">The ground wire of the product is always connected, please turn off the power when not working. The product is only allowed to be connected to voltages within the range of 100V~240V and frequency within the range of 50-60Hz.</td><td>When hanging installation, it is necessary to install from top to bottom and disassemble from bottom to top.</td></tr>
<tr><td rowspan="5">
Important warning</td><td>The external temperature range that this product can be used normally: the maximum is 40℃, the minimum is -10℃.</td></tr>
<tr><td rowspan="4"> </td><td>Before using this product, make sure all equipment is in good condition.</td><td>The composition of the power box during installation can lead to an increase in leakage current. To avoid the risk of electric shock caused by high leakage current, the installation process must be properly grounded as required.</td></tr>
<tr><td>Please do not use a damaged, defective or overheating power cable or plug.</td><td rowspan="2">To prevent electric shock, this product must be grounded.</td></tr>
<tr><td>Please do not open any lids.</td></tr>
<tr><td>Please do not use any method not</td><td></td><td>The power cable connected to the</td></tr>
</table>

	described in the instruction manual to modify this product.	Power system	system have special protection and are not intended for use by the user. If the power cable is damaged, replace it with a new one, do not attempt to repair it.
	Please do not run this product at full power when the external temperature is higher than 40°C or lower than -10°C.		

2.Packing list

Thank you for choosing our product. Please check whether the following items are complete when opening the box. If anything is missing, please contact your dealer.

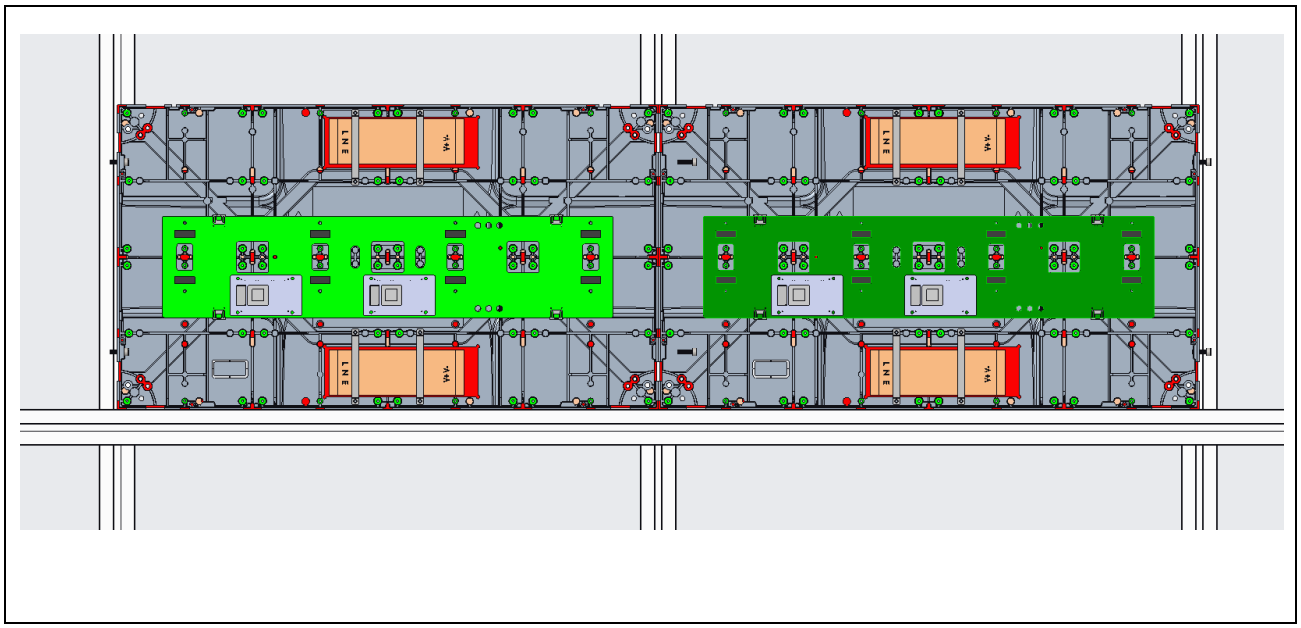
◆ The following is a schematic diagram only and may not match the actual product.

			
Module	Cabinet	Structure connecting piece(between box and structure)	Circle connecting piece（between cabinets）
			
Semicircular（left and right）	Semicircular（up and down）	Suction tool	Screws
			
Main signal cable（Standard length 5 m）	Main power cable（Standard length 5m）	Installation tool	Wall mounted bracket（If necessary）

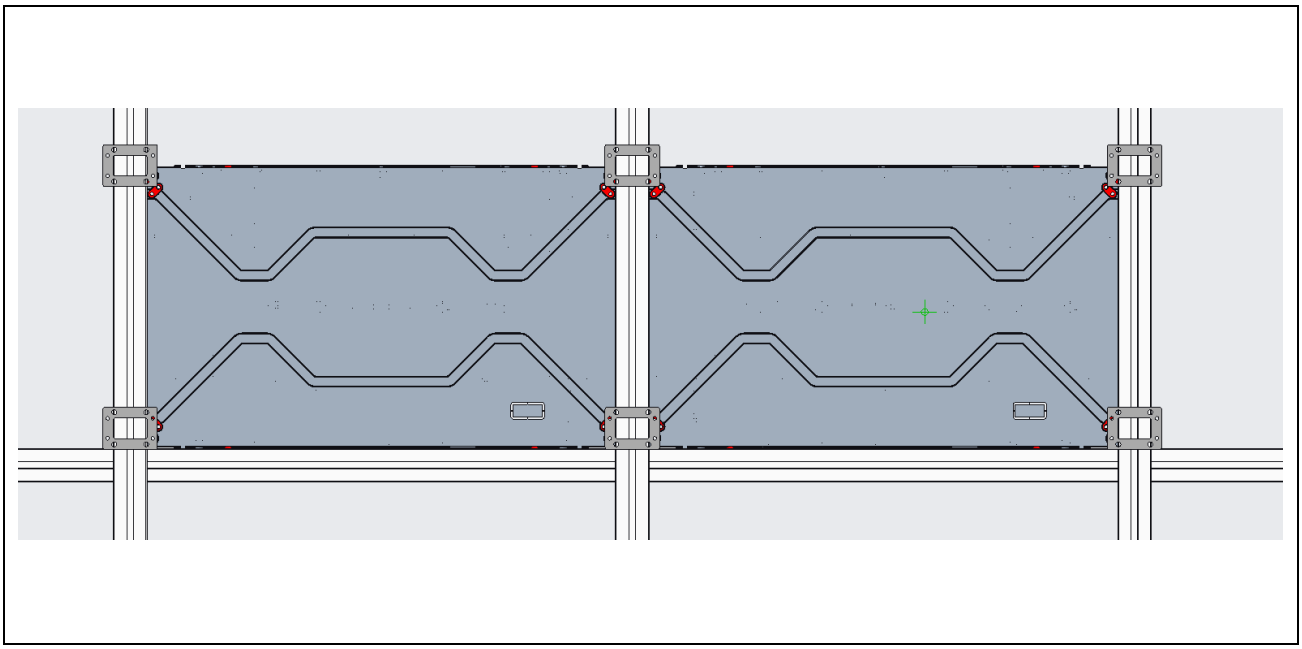
3.Steel structure fixed installation method

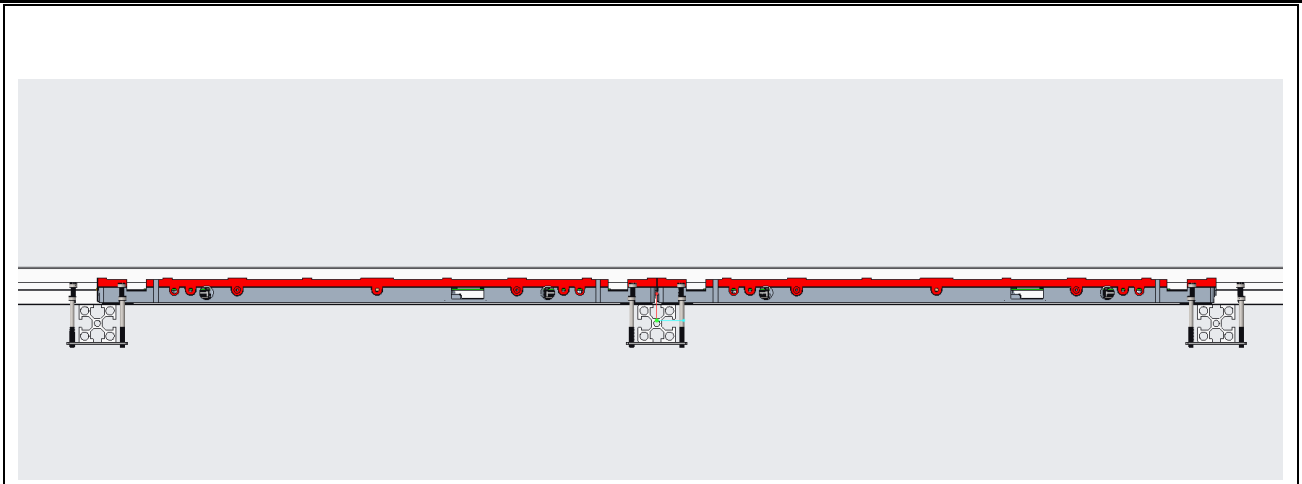
Take the splicing of cabinets with 4 widths and 4 heights (4x4) as an example：

1.When installing the first row of cabinets, use M5*14 screws to splicing the left and right joints between the cabinets without tightening them too much.

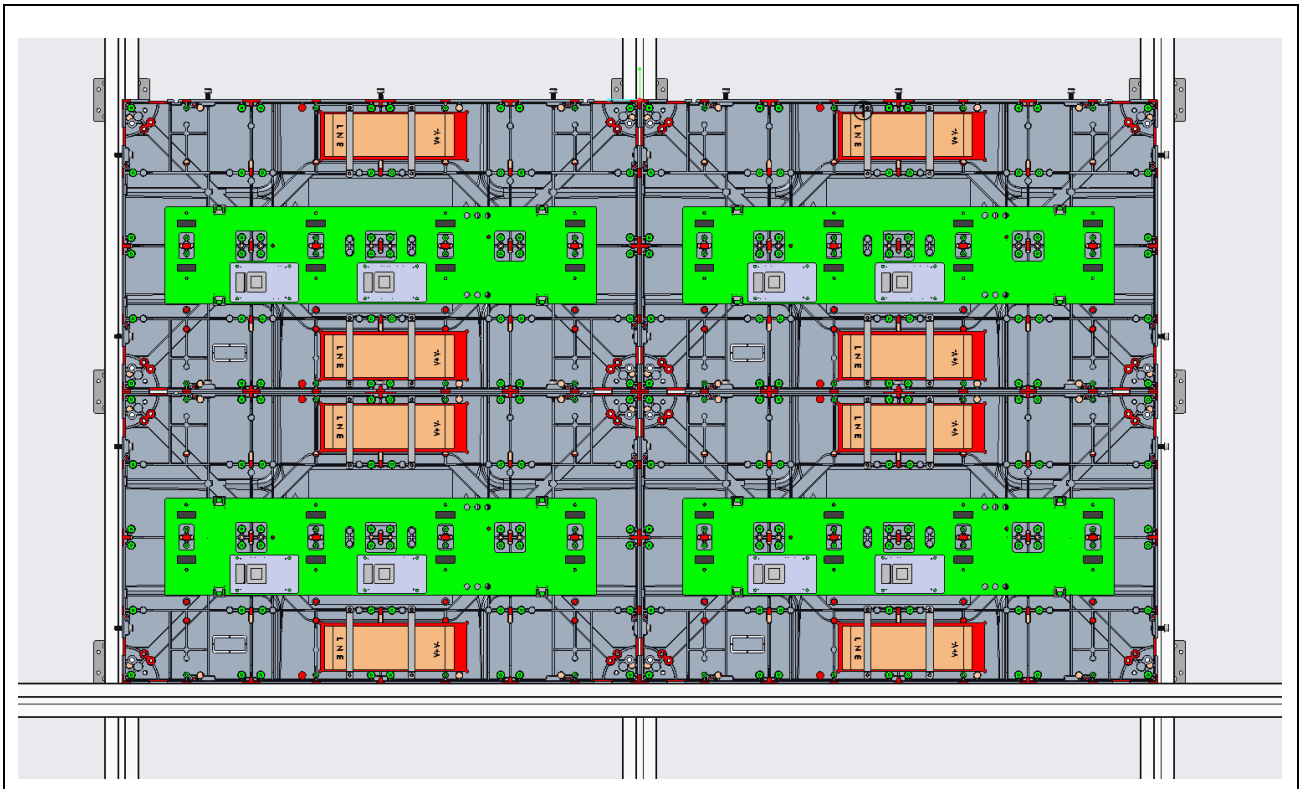


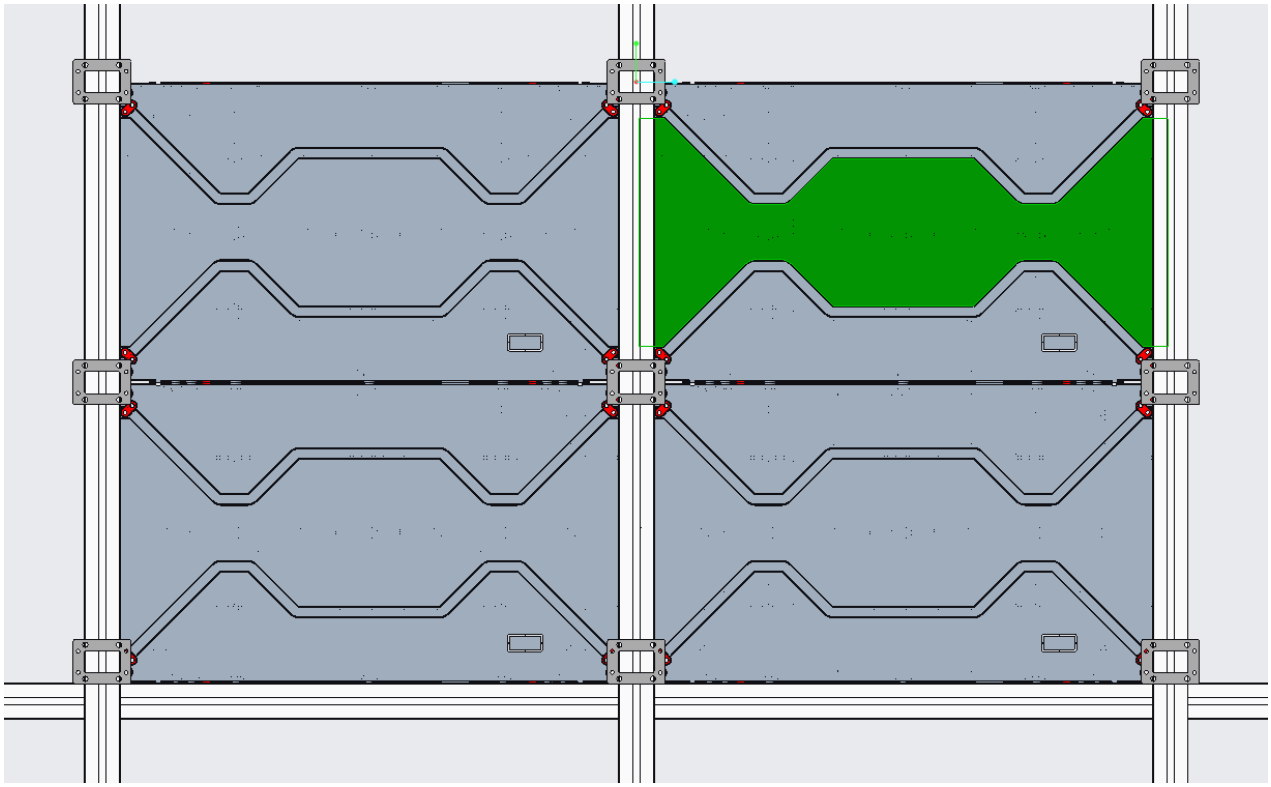
2.The cabinet is fixed on the structure. The connecting piece and M5*60 screws are used between the cabinet and the structure, as shown in the figure.



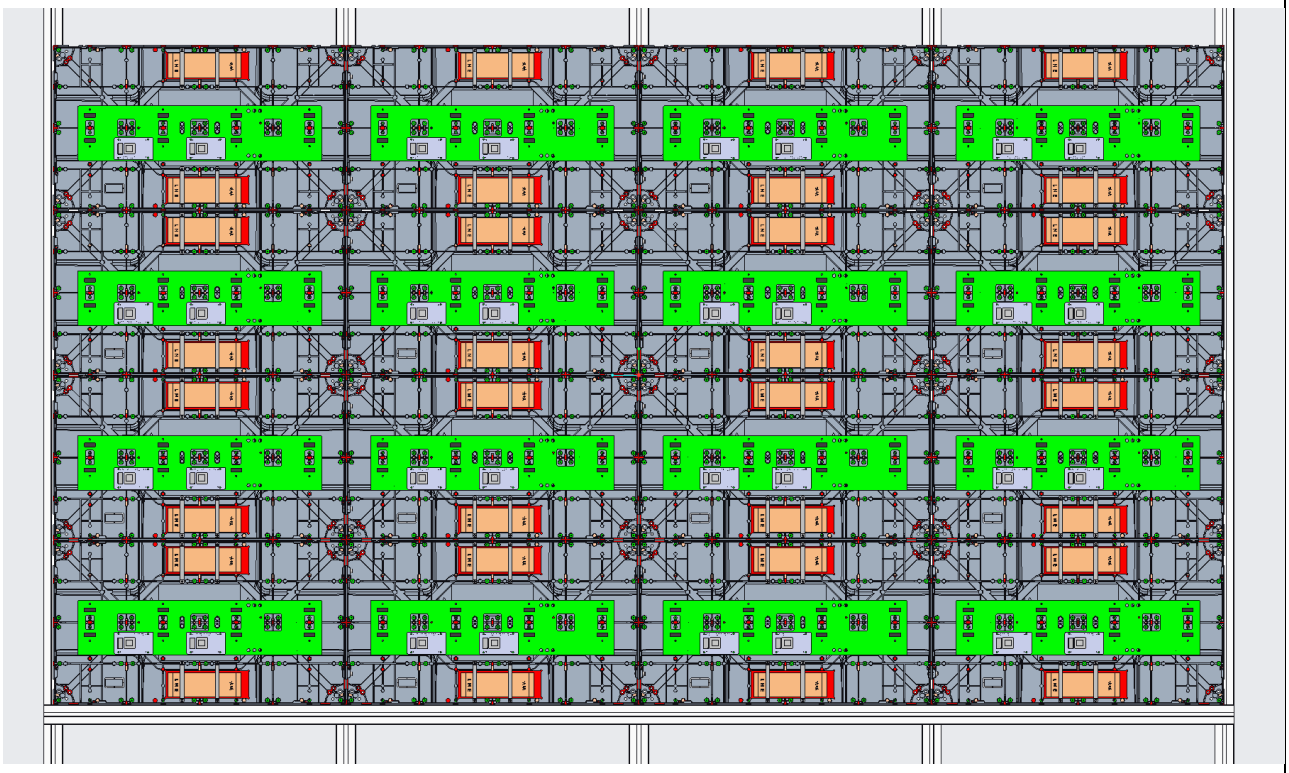


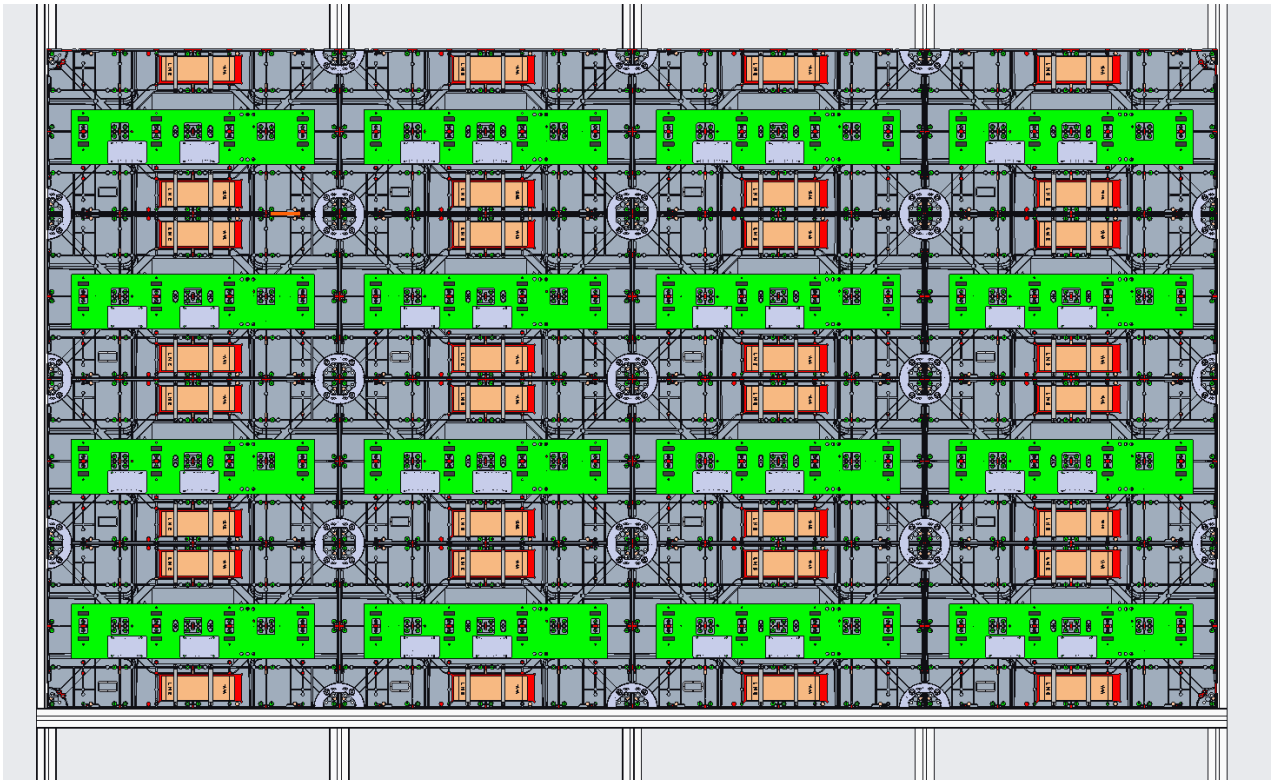
3. Assemble the upper and lower cabinets. Use M5*14 screws to fix the left and right and upper and lower joints between the cabinets. Do not tighten them too much. Follow step 2 to fix the frame connecting piece.





4. After completing the arrangement of the cabinets and fixing the structure according to the above steps, use a full-circle connecting piece in the middle of the cabinet and a semi-circular connecting piece around it (there are differences in the semi-circular connecting pieces spliced up and down the cabinet and on the left and right, and the arrows on the connecting pieces should be installed with the arrow pointing upward) , use M5*14 screws to fix it. After installing the front connecting piece to adjust the flatness between the cabinets, tighten all the screws between the cabinets. The spliced display surface of the cabinet must be within a tolerance range of +/- 0.1mm and remain perpendicular to the reference plane.

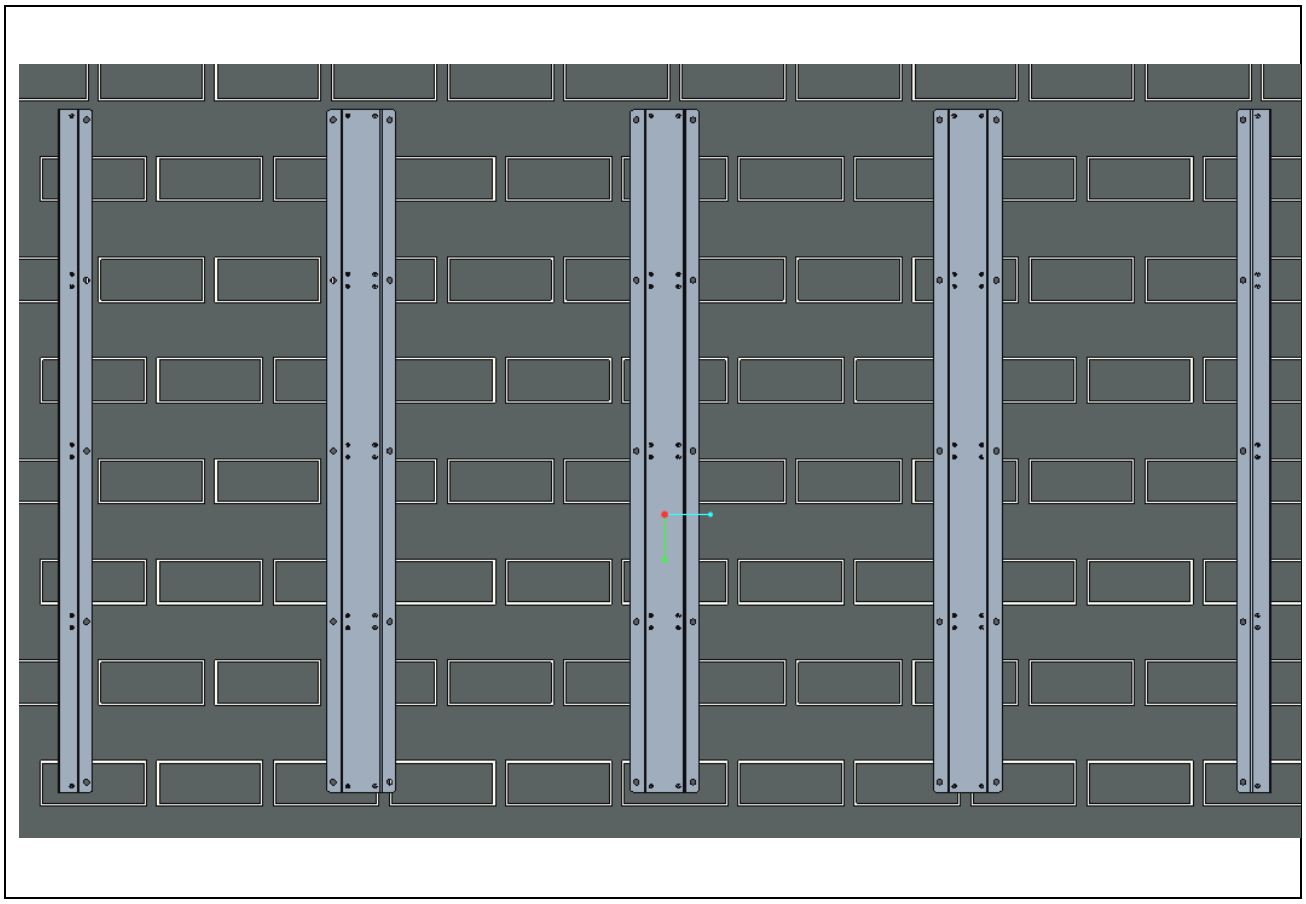




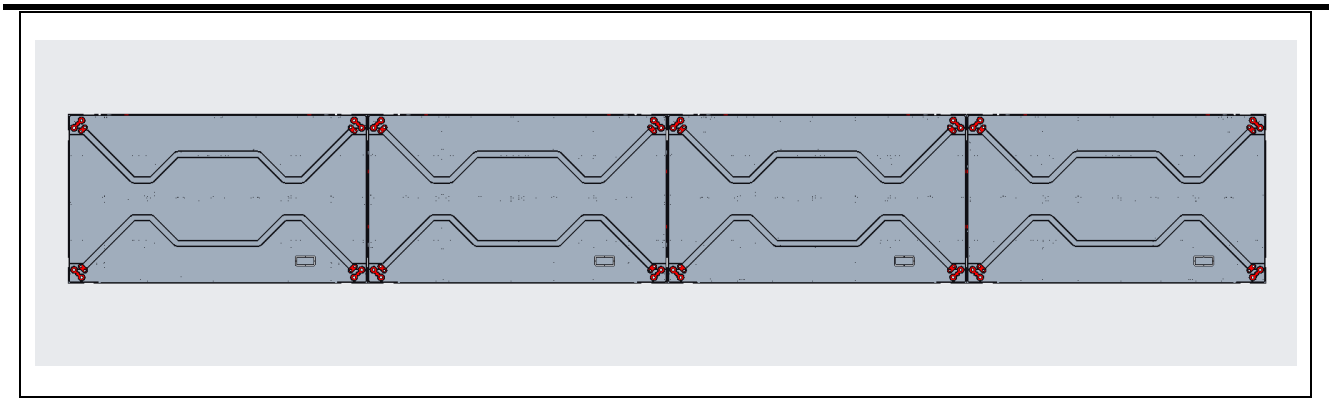
4.Wall mounting bracket installation method

Take the splicing of cabinets with 4 widths and 4 heights (4x4) as an example：

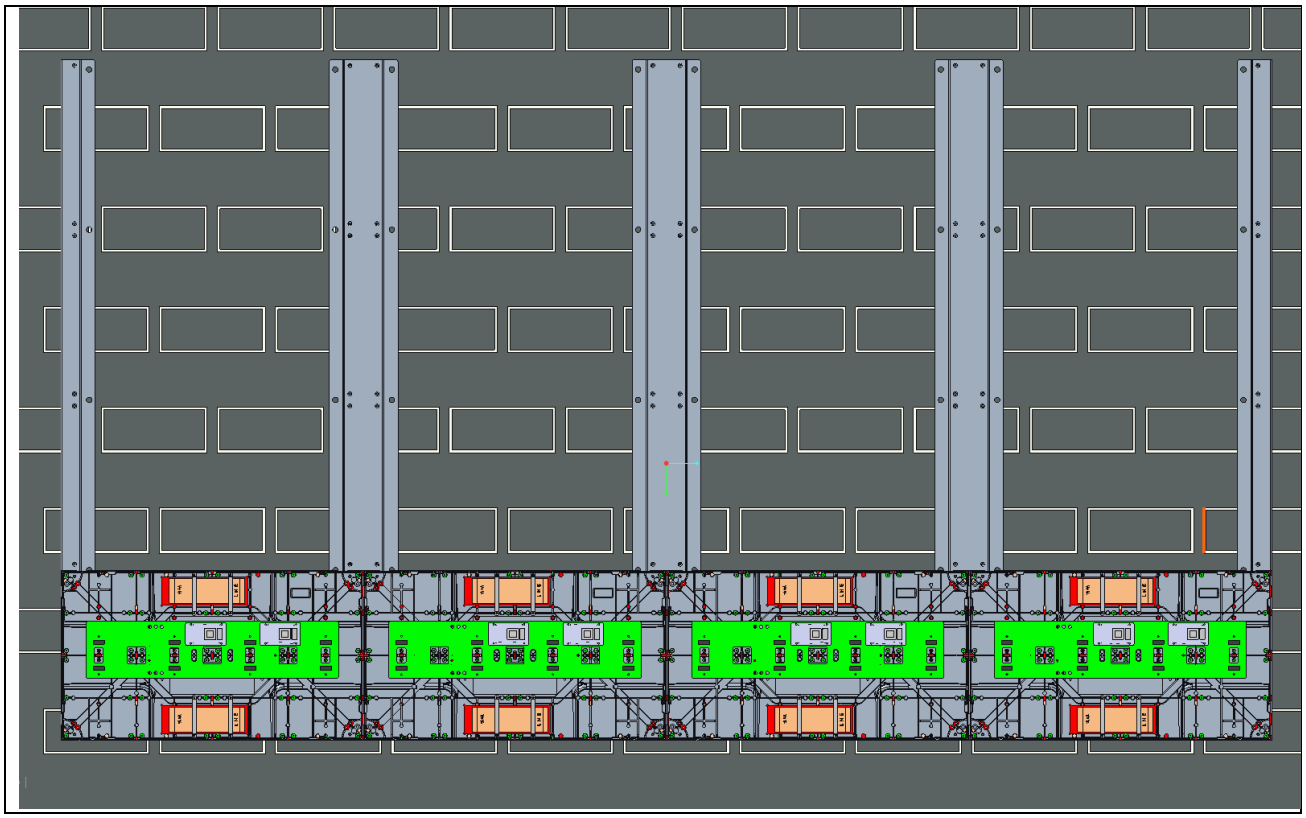
1. Install the wall-mounted bracket and use expansion screws to fix the bracket to the load-bearing structure.



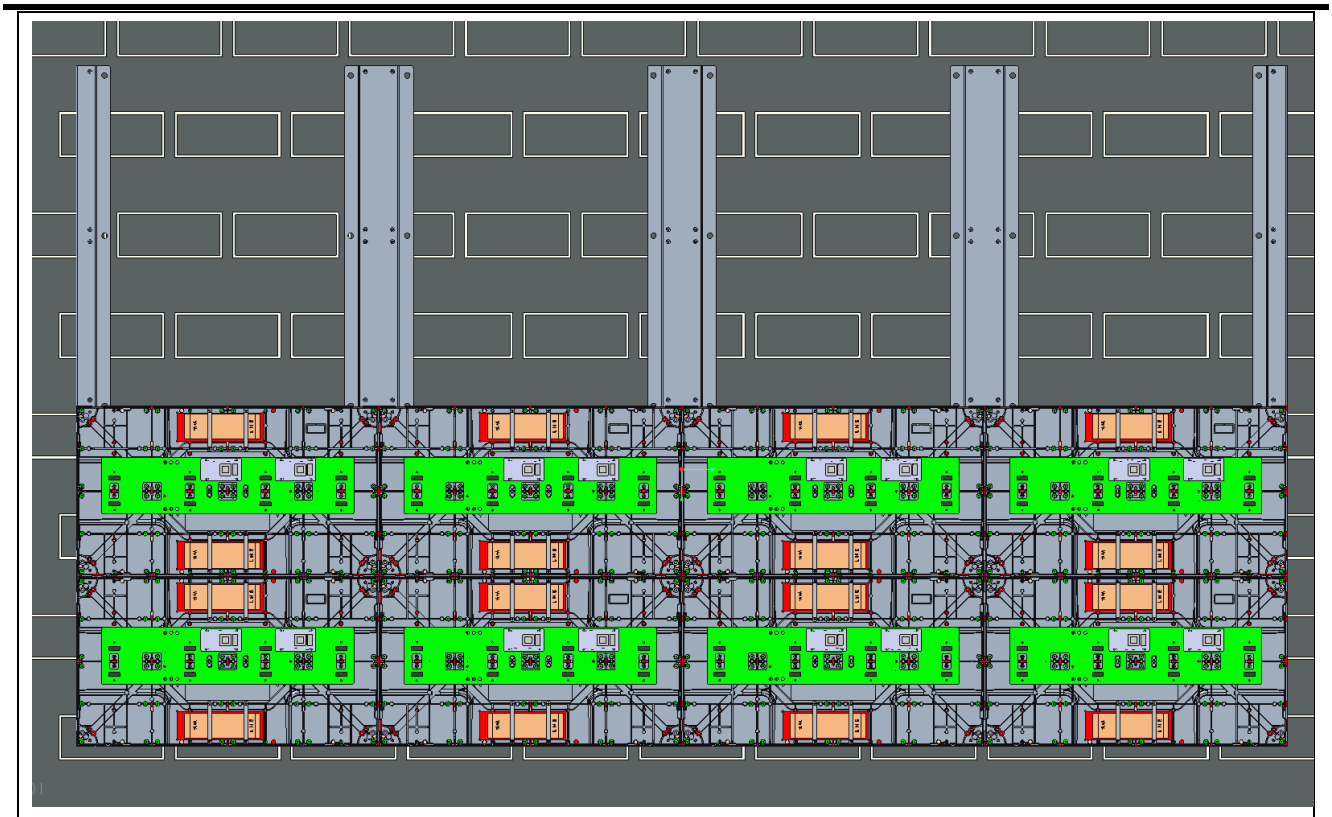
2.When splicing a row of cabinets, use M5*14 screws to fix the left and right joints between the cabinets without tightening them too much.

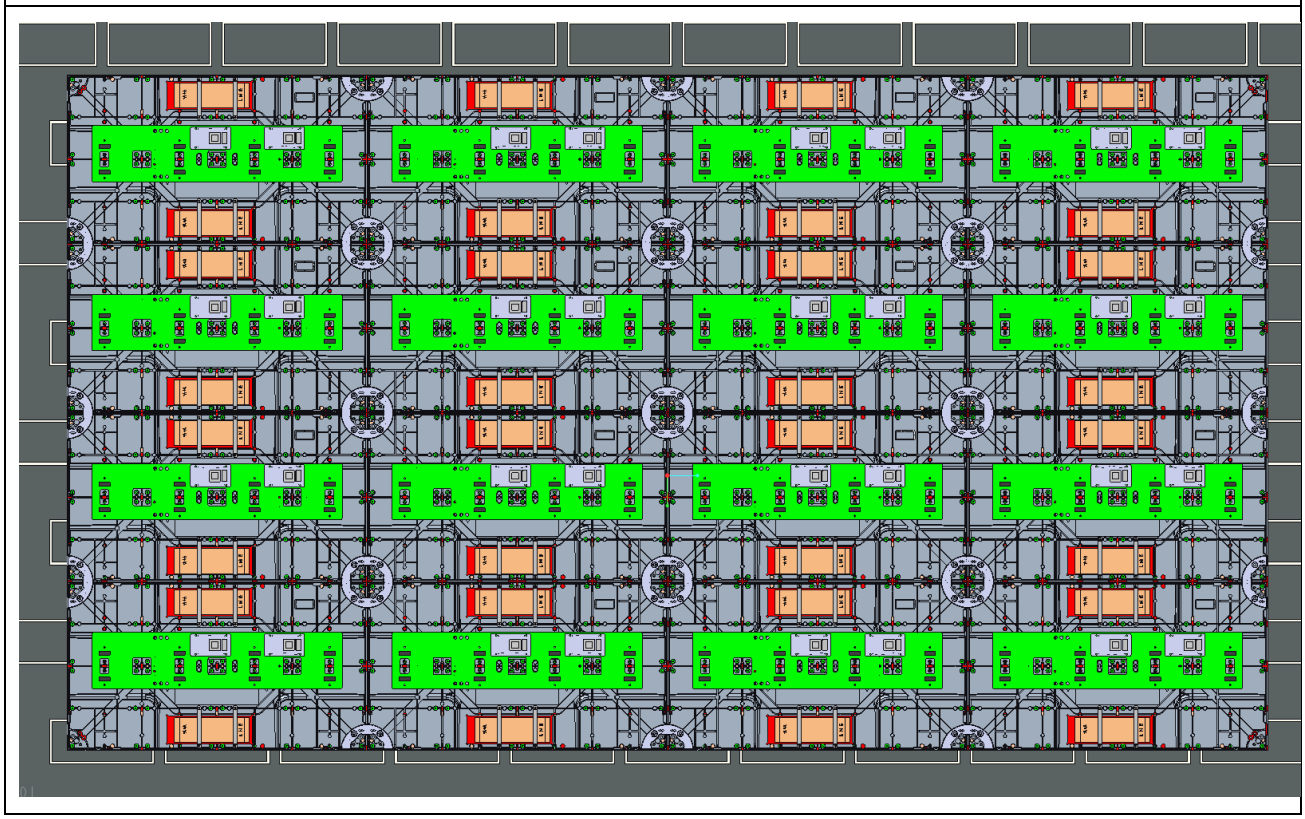


3. Fix the spliced first row of cabinets on the wall bracket, align the holes, and use M5*14 screws to fix it.



4. Repeat steps 2 and 3. After the screen splicing is completed, install the front connecting piece to adjust the flatness between the cabinets, and tighten all the screws between the cabinets. The spliced display surface of the cabinet must be within a tolerance range of +/- 0.1mm and remain perpendicular to the reference plane.





5.Module Numbering Rules

The corresponding position numbers of the modules are as follows: the cabinet number is A-1, arranged as viewed from the front of the screen. There are two types of modules: A and B. The interface of module A is at the bottom and the interface of module B is at the top (corresponding labels will be affixed on the modules).

A-1-1 A	A-1-2 A	A-1-3 A	A-1-4 A
B A-1-5	B A-1-6	B A-1-7	B A-1-8

6.Schematic diagram of screen installation sequence

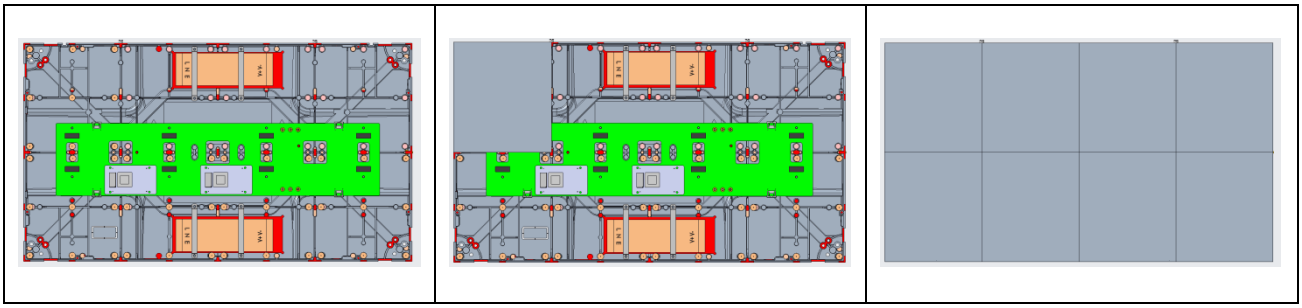
Label analysis: B-3-1: second layer, third cabinet, first module.

<table>
<tr><td colspan="4">D-1</td><td>D-2</td><td>D-3</td><td>D-4</td></tr>
<tr><td colspan="4">C-1</td><td>C-2</td><td>C-3</td><td>C-4</td></tr>
<tr><td colspan="4">B-1</td><td>B-2</td><td>B-3</td><td>B-4</td></tr>
<tr><td>A-1-1</td><td>A-1-2</td><td>A-1-3</td><td>A-1-4</td><td rowspan="2">A-2</td><td rowspan="2">A-3</td><td rowspan="2">A-4</td></tr>
<tr><td>A-1-5</td><td>A-1-6</td><td>A-1-7</td><td>A-1-8</td></tr>
</table>

Taking the screen 4*4 as an example, it is composed of 16 cabinets, and each cabinet is composed of 8 modules.

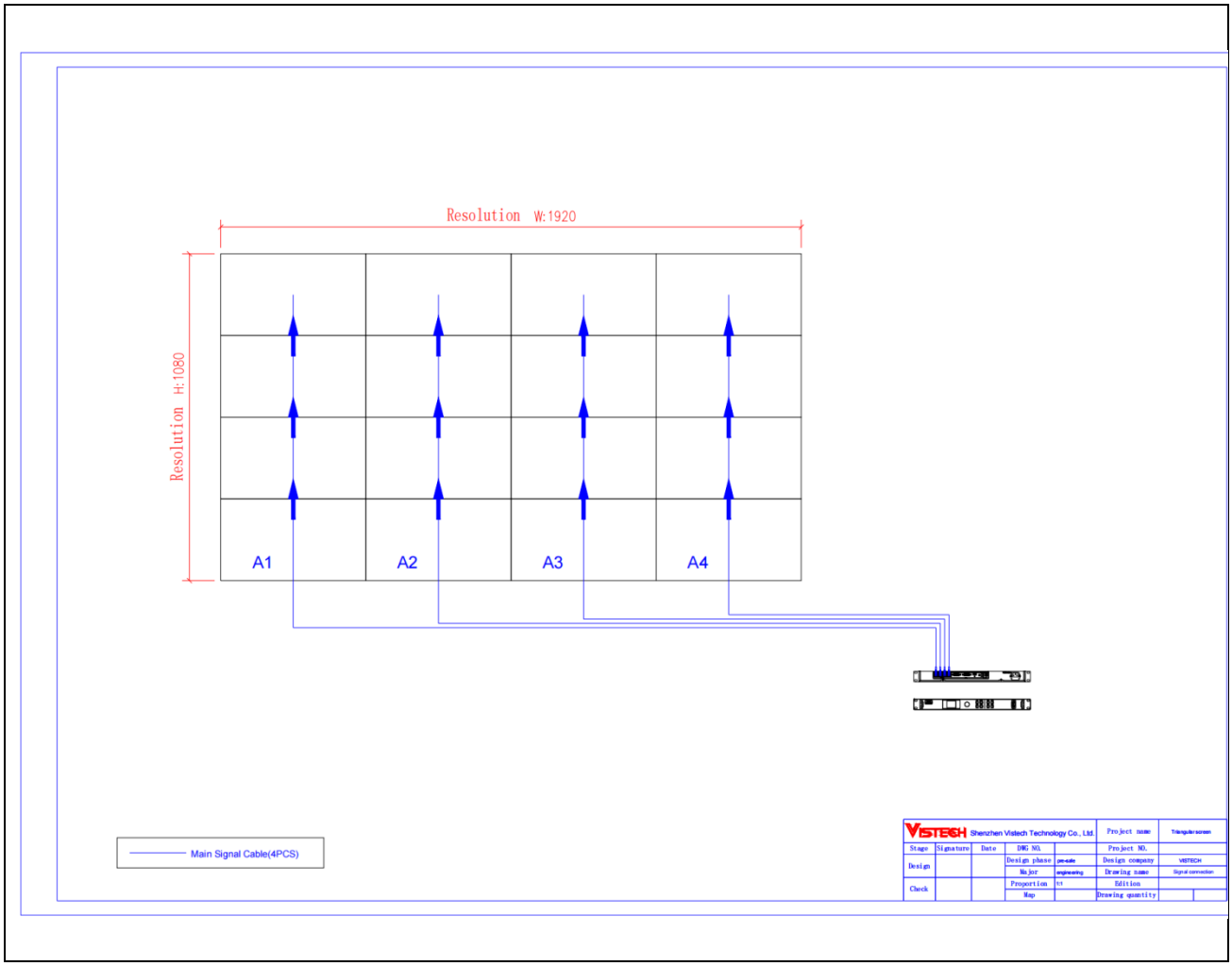
7. Module Installation

1. Please carefully remove the module from the packaging foam and install it in sequence according to the number.
2. Assemble the cabinet as shown in the figure below, and insert the module including the connector surface into the corresponding connector of the cabinet HUB.
3. The module is fixed by magnetic suction. There are 8 modules in a single cabinet. It is recommended to install the middle box module on the first row of the screen first, and then install it on both sides in sequence.



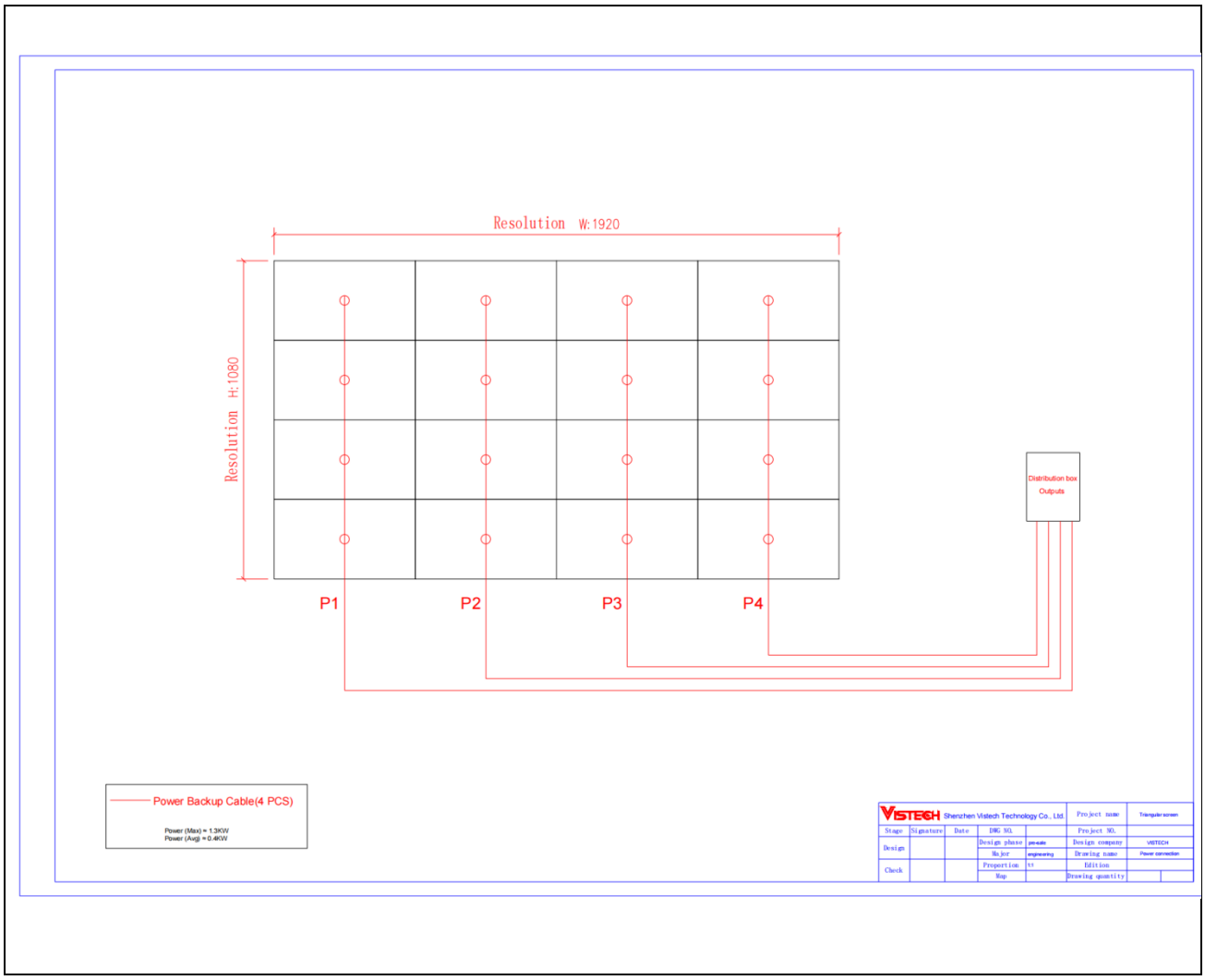
8.Signal and power cable connections

1. The short signal cables between the cabinets are connected in series according to the order of the drawing. A single main signal cable can carry a maximum of 650,000 pixels (width points * height points), and the loading area must be rectangular. As shown in the figure, 4 main network cables need to be used, and the sending device requires 4 network ports. A1-A4 are connected to the corresponding network ports in sequence.



2. The power cables between the cabinets are connected in series up and down in the order shown in the drawing.

As shown in the figure, 4 main power cables need to be used, and P1-P4 are connected to the power distribution cabinet in sequence.



9.Troubleshooting

Fault type	Fault description	Possible Causes	Solution
Module issues	One or more pixels of the module do not light up.	Dead pixel or poor welding	Replace the module
	The pixel shows black or miss color	Driver IC/resistor, poor soldering or not working	Replace the module
Some areas are black doesn't	Single module is not displayed	1. Corresponding to HUB interface problems 2.Module interface problems	1.Replace the HUB 2.Replace the module
	The load area of a single or multiple power supplies is not displayed, and the power signal light does not light up.	The power supply is not working or the cable is in poor contact.	Check the cable connection or replace the power supply
	The loading area of a single or multiple receiving cards is not displayed.	1. Problems with network cable connection between receiving cards 2. The problems of receiving card	1.Replace the signal cable between receiving cards 2. Replace the receiving card
	The loading area image of a main signal cable is not displayed	1. The main network cable is faulty or in poor contact 2. The network port on the sender is faulty	1.Replace the main signal cable 2. Replace the sending device or switch to the remaining network port
Whole screen doesn’t display	The sending device shows no input signal	1. HD data cable problem or poor contact 2.Computer graphics card problem 3.Sending device signal interface problem	1. Replace HD data cable 2. Replace input source signal 3. Replace the sending device or switch to the remaining network port