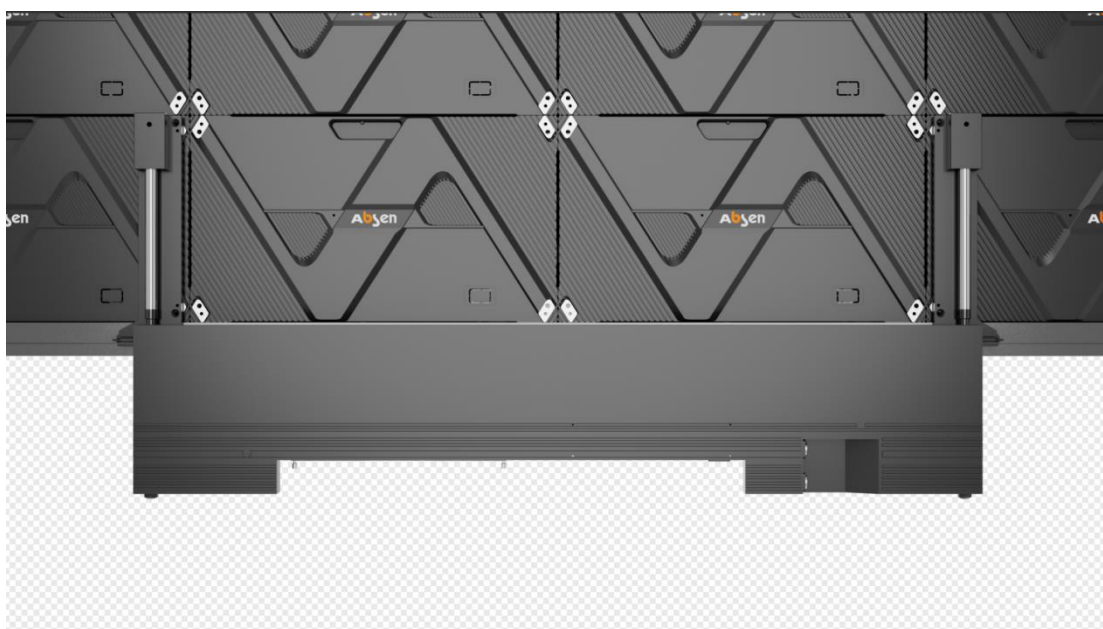


# X-Box User manual



**FCC Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**FCC Radiation Exposure Statement:**

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

# Safety Information



## WARNING!

Please read the safety measures listed in this section carefully before installing, powering on, operating, or doing maintenance on this product.

The following marks on the product and in this manual indicate important safety measures.



**WARNING!**  
Safety risk! Might cause equipment damage or safety risk.



**WARNING!**  
Please read the manual before operating.



**WARNING!**  
Dangerous voltage! Might cause equipment damage or electric shock.



**WARNING!**  
Hot surface! Do not touch.



**WARNING!**  
Flammable!



**WARNING!**  
Possible damage to eyes.



**WARNING:** Be sure to understand and follow all safety guidelines, safety instructions, warnings and precautions listed in this manual.

This product is for professional use only!

This product may result in serious injury or death due to fire hazard, electric shock, and crushing hazard.



Please read this manual carefully before installing, powering up, operating and maintenance of this product.

Follow safety instructions in this manual and on the product. If you have any questions, please seek help from Absen.



**Beware of Electric Shock!**

- To prevent electric shock the device must be properly grounded during installation, Do not ignore using the grounding plug, or else there is a risk of electric shock.
- During a lightning storm, please disconnect the device's power supply, or provide other suitable lightning protection. If the equipment is not in use for a long time, please unplug the power cord.
- When performing any installation or maintenance work (e.g. removing the fuses, etc.) make sure to turn off the master switch.
- Disconnect AC power when the product is not in use, or before disassembling, or installing the product.
- The AC power used in this product must comply with local building and electric codes, and should be equipped with overload and ground fault protection.
- The main power switch should be installed at a location near the product and should be clearly visible and easily reached. This way in

case of any failure the power can be promptly disconnected.

- Before using this product check all electrical distribution equipment, cables and all connected devices, and make sure all meet current requirements.
- Use appropriate power cords. Please select the appropriate power cord according to the required power and current capacity, and ensure the power cord is not damaged, aged or wet. If any overheating occurs, replace power cord immediately.
- For any other questions, please consult a professional.



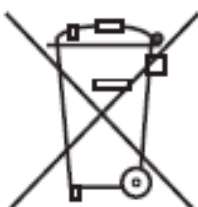
#### Beware of Fire!

- Use a circuit breaker or fuse protection to avoid fire caused by power supply cables overloading.
- Maintain good ventilation around the display screen, controller, power supply and other devices, and keep a minimum 0.1 meter gap with other objects.
- Do not stick or hang anything on the screen.
- Do not modify the product, do not add or remove parts.
- Do not use the product in case ambient temperature is over 55 °C.



#### Beware of Injury!

- Warning: Wear a helmet to avoid injury.
- Ensure any structures used to support, fix and connect the equipment can withstand at least 10 times the weight of all the equipment.
- When stacking products, please hold products firmly to prevent tipping or falling.
- Ensure all components and steel frames are securely installed.
- When installing, repairing, or moving the product, ensure the working area is free of obstacles, and ensure the working platform is securely and stably fixed.
- In the absence of proper eye protection, please do not look directly at the lit screen from within a 1 meter distance.
- Do not use any optical devices that have converging functions to look at the screen to avoid burning the eyes.



#### Product Disposal

- Any component that has a recycling bin label can be recycled.
- For more information on collecting, reusing and recycling, please contact the local or regional waste management unit.
- Please contact us directly for detailed environmental performance information.



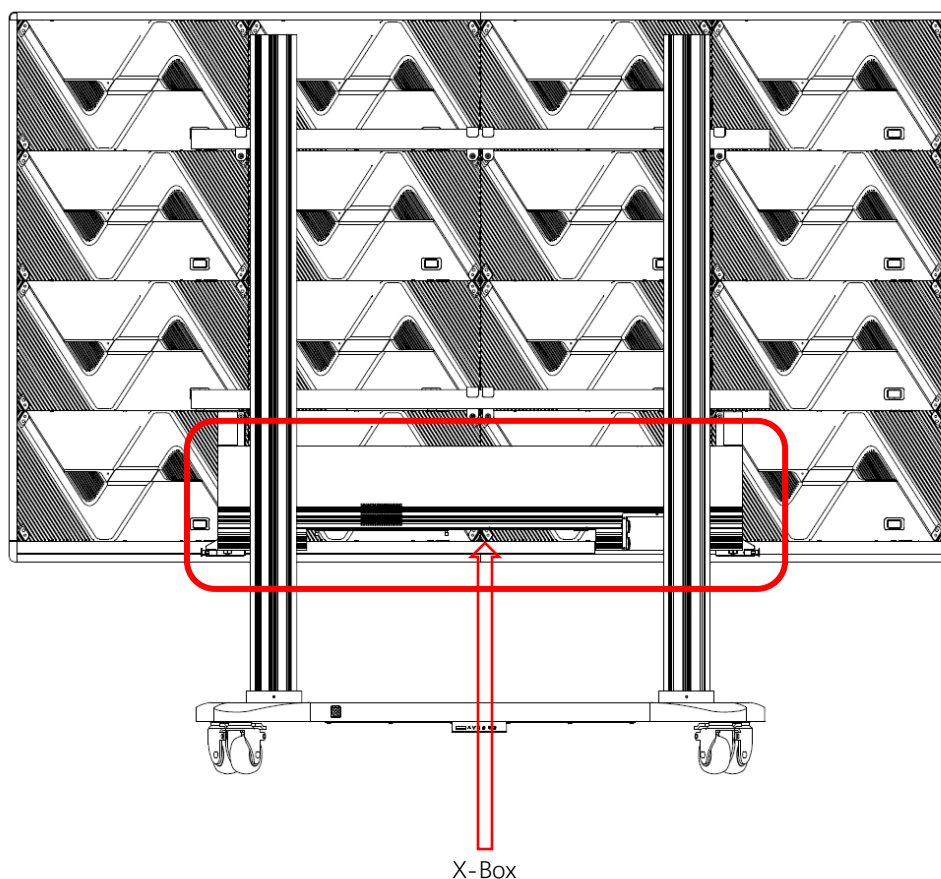
WARNING: Beware of suspended loads.



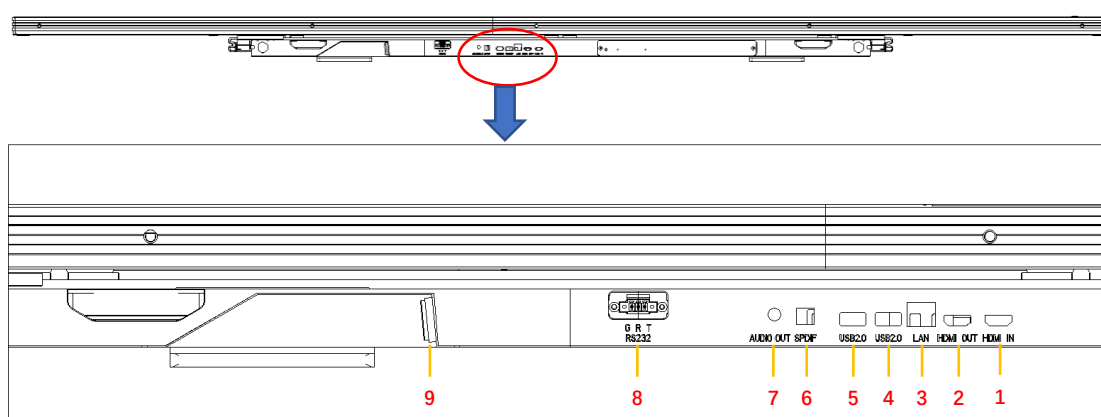
LED lamps used in the module are sensitive and can be damaged by ESD (electrostatic discharge). To prevent damage to LED lamps, do not touch when the device is running or switched off.



WARNING: The manufacturer shall not bear any responsibility for any incorrect, inappropriate, irresponsible or unsafe system installation.



## 1.1 The interface of Device

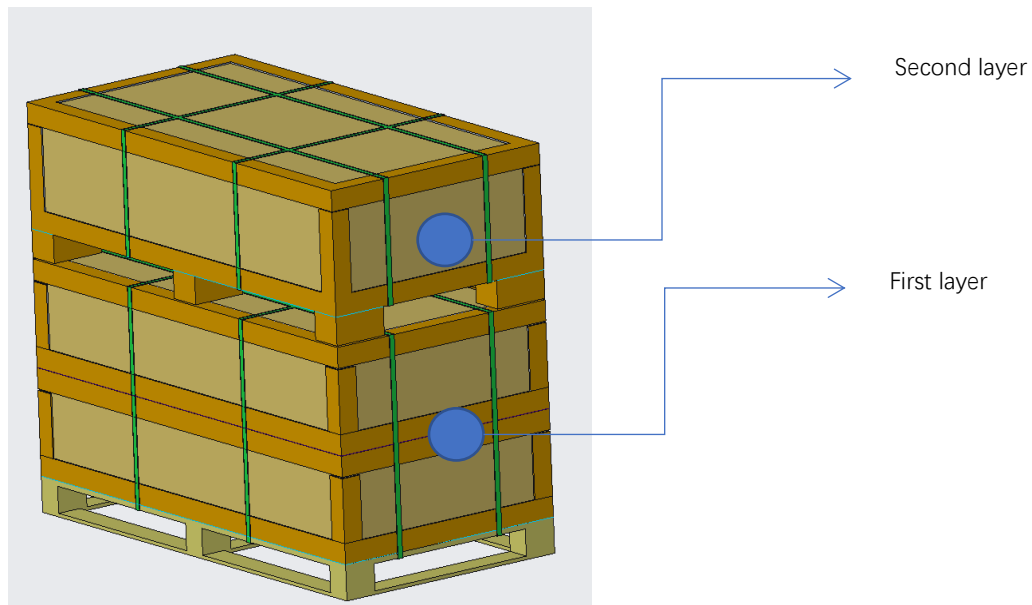
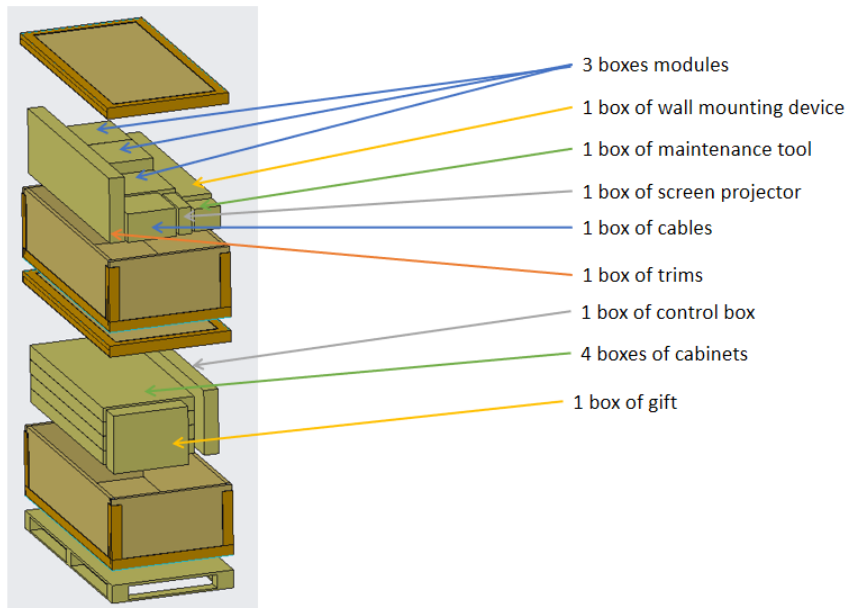


1	HDMI IN	6	SPDF
2	HDMI OUT	7	AUDIO OUT
3	LAN	8	RS-232
4 / 5	USB2.0	9	POWER

## **1.2 Standard Packaging**

### **1.2.1 Standard packaging of X-Box**

- The standard packaging of X108 is carton packing which can support for 10kg without any deformation
- The first layer carton packaging size: :1360x268.5x34.5mm
- The second layer carton packaging size:1360x268.5x34.5mm
- The mobile stand can put into carton packaging directly



## 2. Product Installation

The product can realize installation of wall mounting ,mobile stand and Electric lifting bracket.

### 2.1 Installation tools

serial number	Tool name	photos	serial number	Tool name	photos
---------------	-----------	--------	---------------	-----------	--------

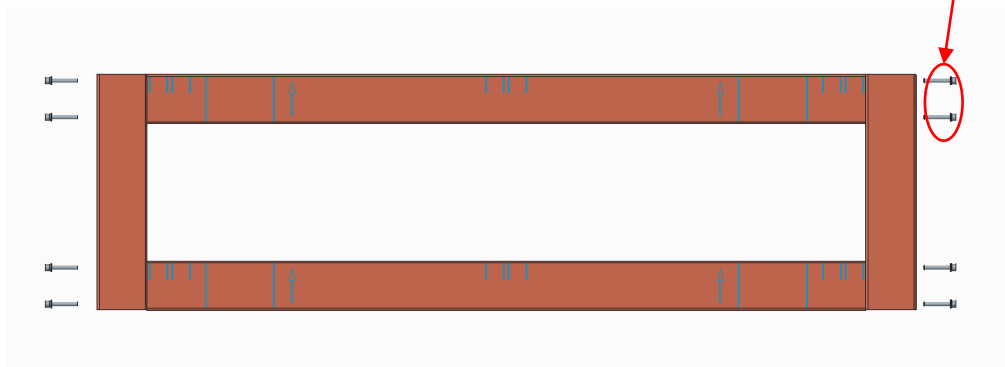


1	art knife		5	Pre-maintenance tools	
2	Allen key		6	PH2 Phillips screwdriver	
3	flexible sleeve		7	rubber mallet	
4	laser level		8	pneumatic drill	

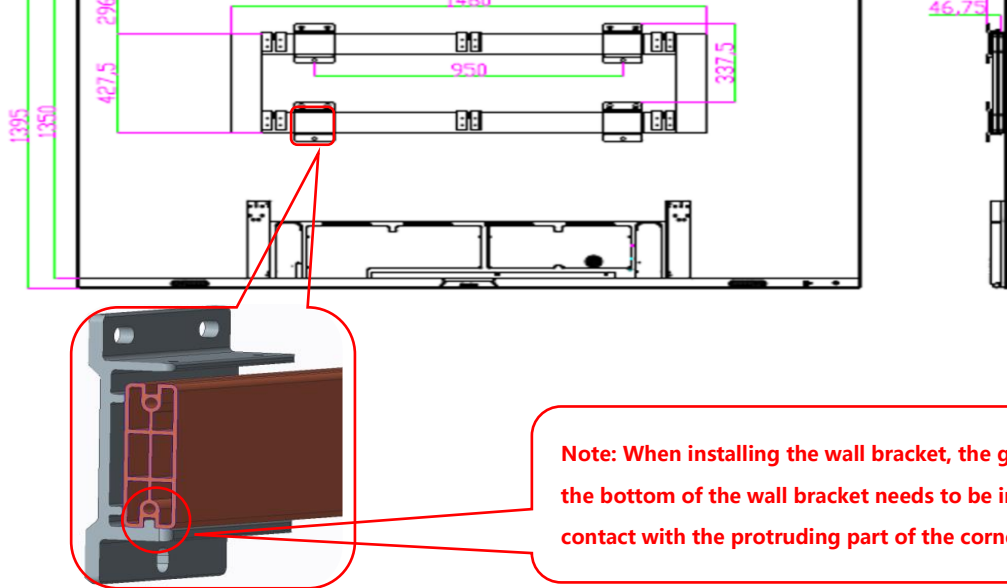
## 2.2 Wall Mount Installation Guide

### 2.2.1 Installation step of wall mounting equipment

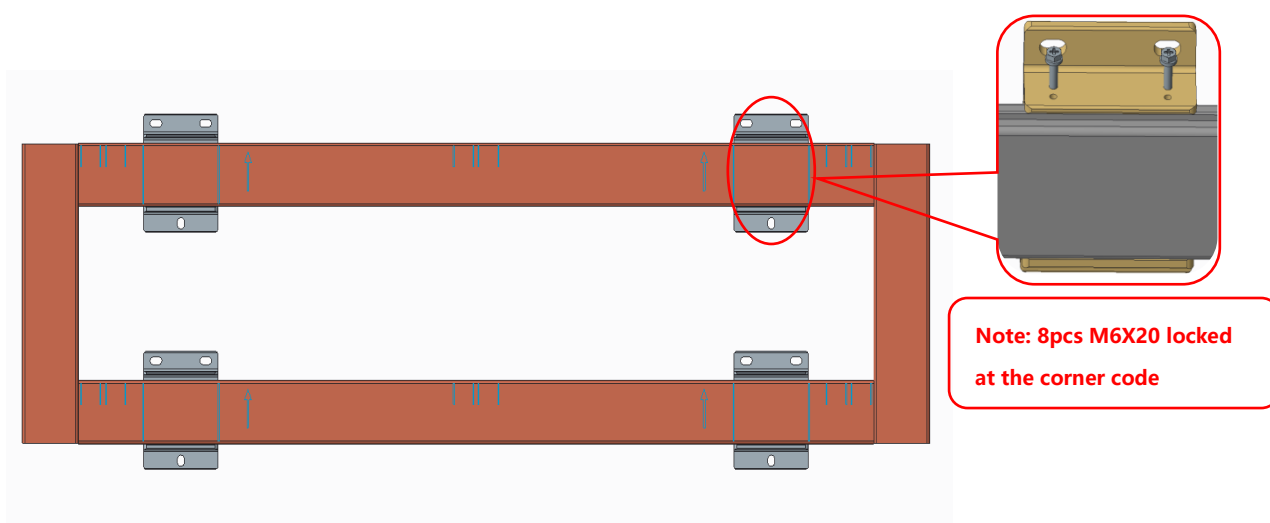
Step 1: Taking out the back frames from packaging, including the horizontal and vertical beams. Setting it up on the ground with the front side facing up (the side with the silkscreen logo on the beams is the front side); Assembling the four sides of the back frames, including two horizontal beams and two vertical beams, and fixing them by eight M8X60 screws.



Step 2: Installing the fixing angle code of back bracket. As the following pictures shown, the pictures shows the detail installation process.



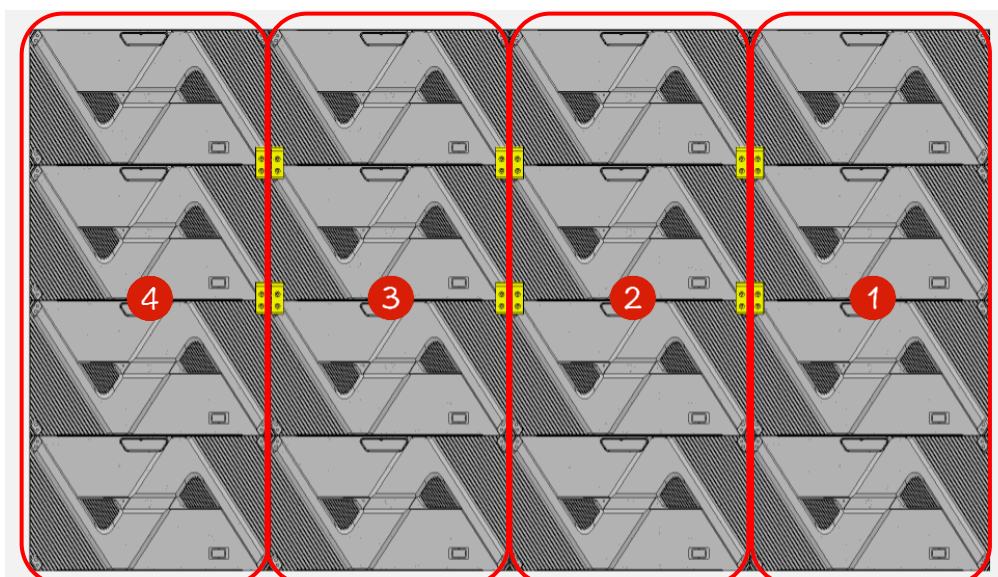
Step 3: Using 8pcs M6X20 to lock the safety screws at the angle code to make sure the wall bracket will not mover, after finish the installation of the wall bracket.



Schematic diagram of the completed installation

## 2.2.2 Screen installation

Step 1: Taking out the box and using 24 M6X16 screws to install the hook connecting piece which is in the back of the cabinets. In addition, the left and right side' s cabinets only need to be installed one side of the cabinet.



Step 2: Install the box columns in the order of 2-3-1-4, with the hook connectors on the back of the box hooked into the grooves of the back frame beam profile. Move the box so that it is centered and aligned with the marking line on the crossbeam, and install the box safety screws using two M4X10 screws (as shown in Figs. 1 and 2), install the box columns in order and lock the left and right connecting bolts on the box (as shown in Fig. 3).

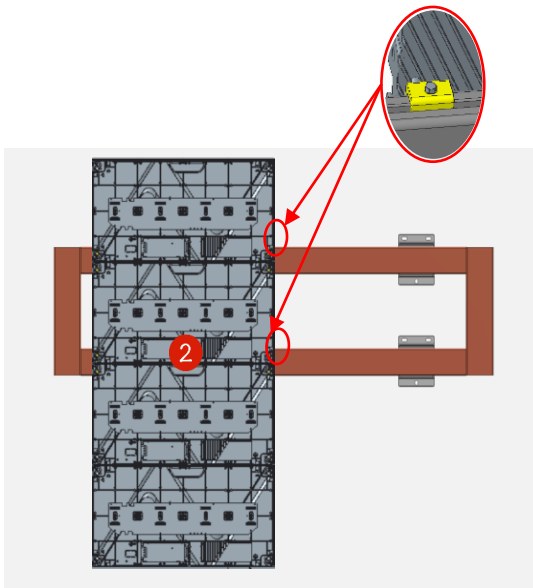


Figure 1

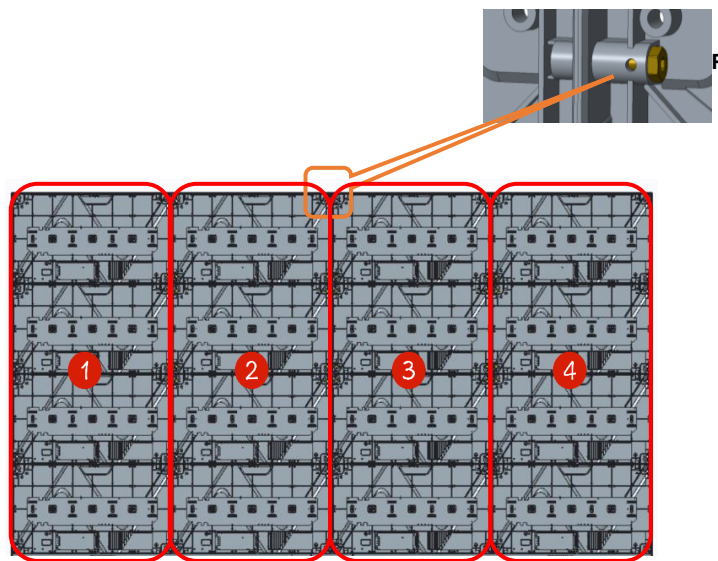
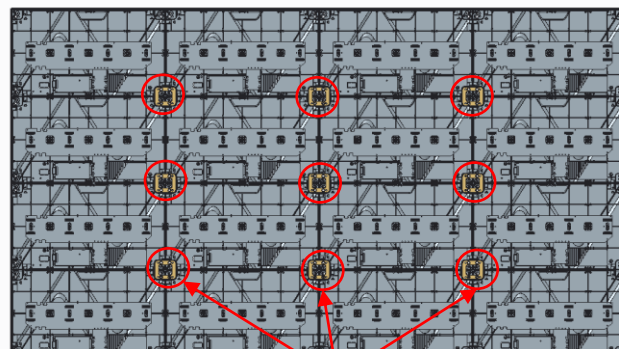


Figure 2

Figure 3

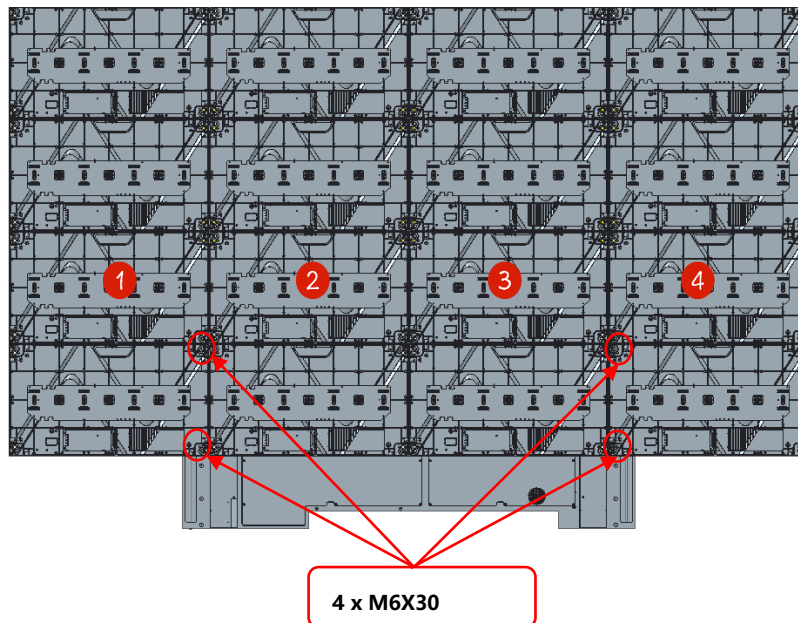
Step 3: Using 34 M8X20 fixing screws to install the leveling connecting piece inside the box.



34 x M8X20 screws

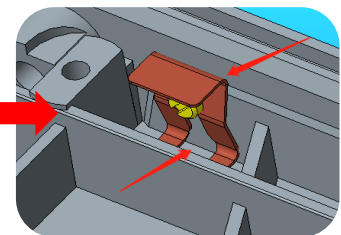
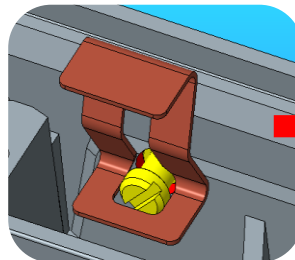
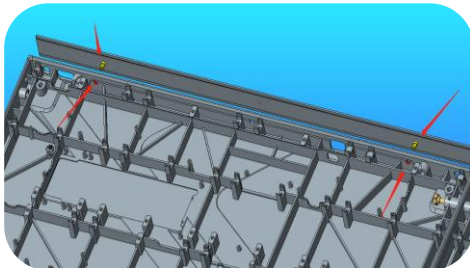
### 2.2.3 Trims and control box installation

Step 1: Control Box Installation: Lift the control box upward from the back of the box to install it between the first and fourth columns, and then use 4 M6\*30 screws to lock it from the front to complete the installation of the control box structure.



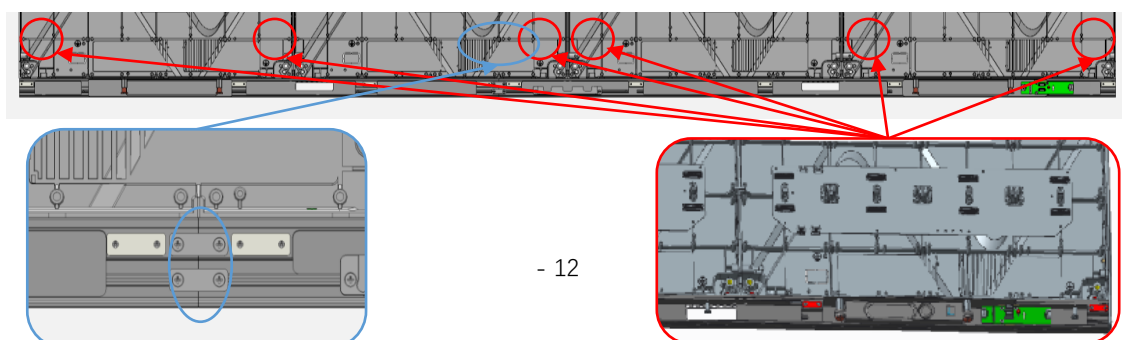
Step 2 (Non-touch version, the touch version content in part 2.4 ):

The installation of top, left and right trims: The upper, left and right trims are fixed and mounted through the trims positioning columns with corresponding positioning holes in the cabinets, and then fixed by the internal fittings of the edging shrapnel.



Step 3: Installation of bottom trims (Non-touch version, the touch version content in part 2.4 )

Using 6 M6X16 countersunk head screws to install the lower wrap around edge to the lower side of the box, and use 4 KM3X8 screws to fix the lower wrap around edge to the connecting piece and adjust the flatness to complete the wrap around edge installation.

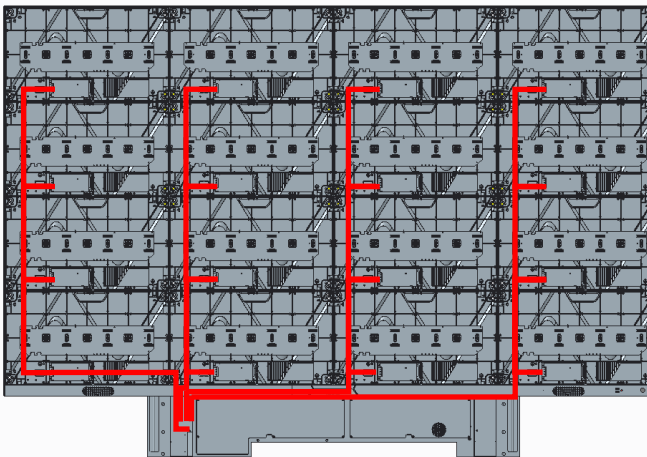


## 2.2.4 Connect the power and network cables

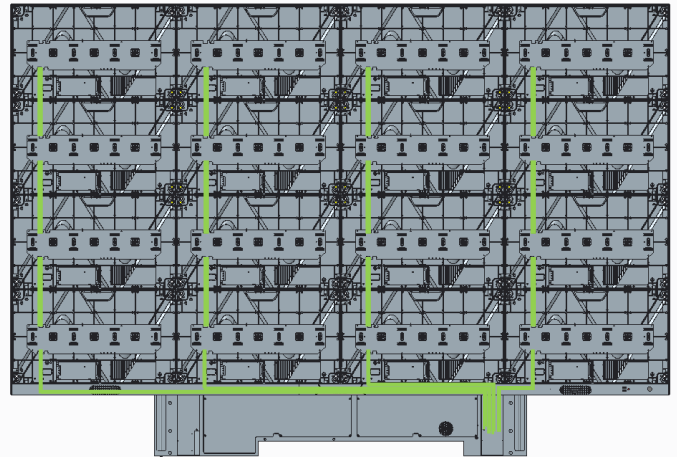
Step 1: Connect the power cord and network cable

Connect the power cord and the network cable, from the left side of the lower edge of the holes through the 4 main power cord, according to the power cord labeling order from left to right as the first column to the fourth column order, connect the power cord and connect the ground wire at the bottom of the box;

Thread out the 4 main network cables from the right side of the lower edge of the holes, in accordance with the order of the main network cable labeling from left to right as the first column to the fourth column order, connecting the network cable (Note: the network cable threading refer to the power cord threading method)

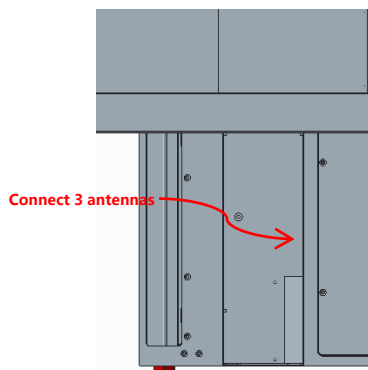


Power cord connection

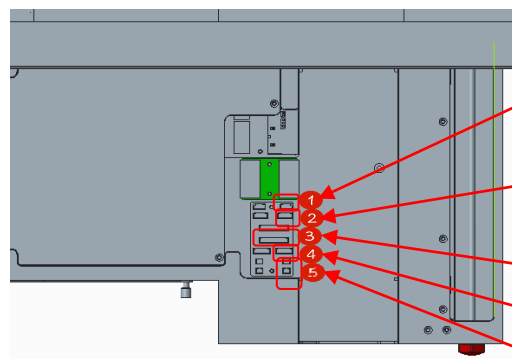


network connection

Step 2: Connect the antenna, audio cable, and other wires from the lower wrap to the control box



Connect 3 antennas



① OPS Infrared Bezel 4Pin Cable

(Connection required when touch control is included)

② OPS USB Transmissive Interface 5Pin Cable

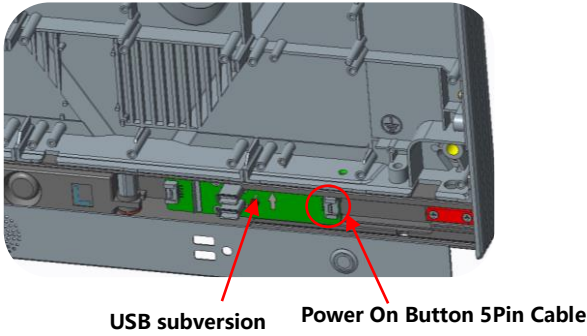
(Connection required with OPS)

③ USB Board Interface, 6pin Cable

④ Start button signal interface, 5pin cable

⑤ speaker cable connector

2.2.5 Install the bottom trim cover and connect the screen on button 5P cable



2.2.6 Mounting modules

Because this product adopts the whole screen calibration, in order to ensure the best display effect, it must be installed in accordance with the order of our company's identification as the figure shown on below.

Installation serial number schematic (front view) :

The numbering of the installation order of cabinets:

first line				
second line				
third line				
fourth line				
	first column	second column	third column	fourth column

viewed from the front

The numbering of the installation order of modules:

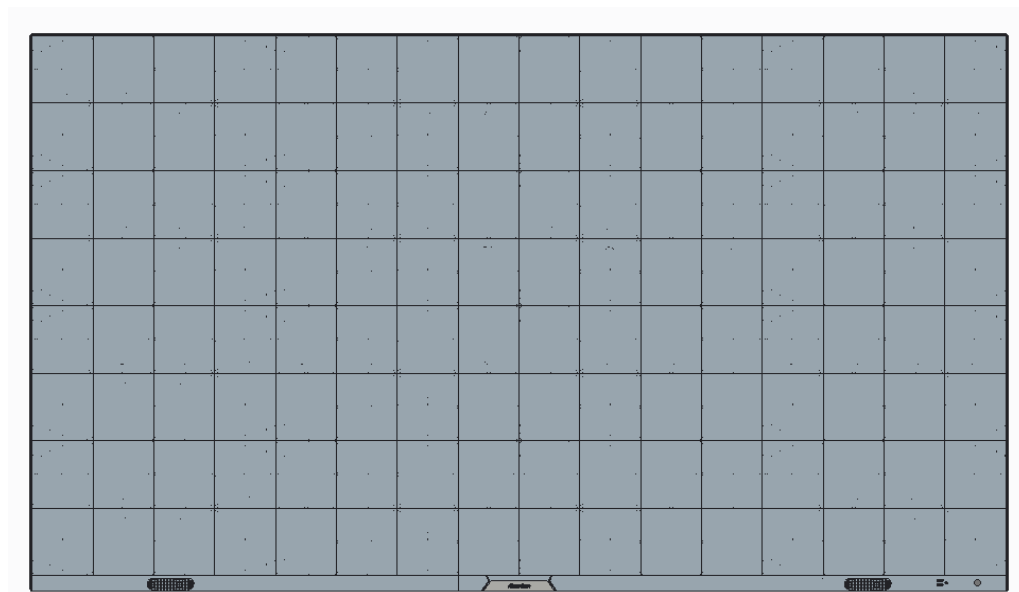
	Correction code for the first row of box light panels				Correction code for the second column of box light panels				Third column box light panel correction code				Fourth column of box light panel correction code			
first line	1-1-1-1	1-1-1-2	1-1-1-3	1-1-1-4	1-1-2-1	1-1-2-2	1-1-2-3	1-1-2-4	1-1-3-1	1-1-3-2	1-1-3-3	1-1-3-4	1-1-4-1	1-1-4-2	1-1-4-3	1-1-4-4
	1-1-1-5	1-1-1-6	1-1-1-7	1-1-1-8	1-1-2-5	1-1-2-6	1-1-2-7	1-1-2-8	1-1-3-5	1-1-3-6	1-1-3-7	1-1-3-8	1-1-4-5	1-1-4-6	1-1-4-7	1-1-4-8
second line	1-2-1-1	1-2-1-2	1-2-1-3	1-2-1-4	1-2-2-1	1-2-2-2	1-2-2-3	1-2-2-4	1-2-3-1	1-2-3-2	1-2-3-3	1-2-3-4	1-2-4-1	1-2-4-2	1-2-4-3	1-2-4-4
	1-2-1-5	1-2-1-6	1-2-1-7	1-2-1-8	1-2-2-5	1-2-2-6	1-2-2-7	1-2-2-8	1-2-3-5	1-2-3-6	1-2-3-7	1-2-3-8	1-2-4-5	1-2-4-6	1-2-4-7	1-2-4-8
third line	1-3-1-1	1-3-1-2	1-3-1-3	1-3-1-4	1-3-2-1	1-3-2-2	1-3-2-3	1-3-2-4	1-3-3-1	1-3-3-2	1-3-3-3	1-3-3-4	1-3-4-1	1-3-4-2	1-3-4-3	1-3-4-4
	1-3-1-5	1-3-1-6	1-3-1-7	1-3-1-8	1-3-2-5	1-3-2-6	1-3-2-7	1-3-2-8	1-3-3-5	1-3-3-6	1-3-3-7	1-3-3-8	1-3-4-5	1-3-4-6	1-3-4-7	1-3-4-8
fourth line	1-4-1-1	1-4-1-2	1-4-1-3	1-4-1-4	1-4-2-1	1-4-2-2	1-4-2-3	1-4-2-4	1-4-3-1	1-4-3-2	1-4-3-3	1-4-3-4	1-4-4-1	1-4-4-2	1-4-4-3	1-4-4-4
	1-4-1-5	1-4-1-6	1-4-1-7	1-4-1-8	1-4-2-5	1-4-2-6	1-4-2-7	1-4-2-8	1-4-3-5	1-4-3-6	1-4-3-7	1-4-3-8	1-4-4-5	1-4-4-6	1-4-4-7	1-4-4-8

#### Numbering instructions:

The first bit is the screen number; the second bit is the box row number, from top to bottom, the top is the first row; the third bit is the box column number: The fourth bit is the module number

For example, 1-1-1-2 is the second module of the first row and column of the first screen.

The picture of completed installation:

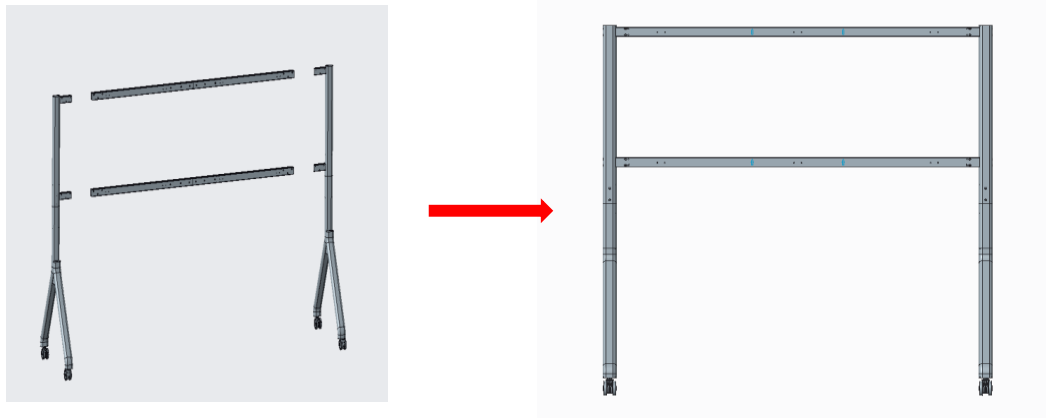


## 2.3 The Guide of Mobile Version (Non-touch version)



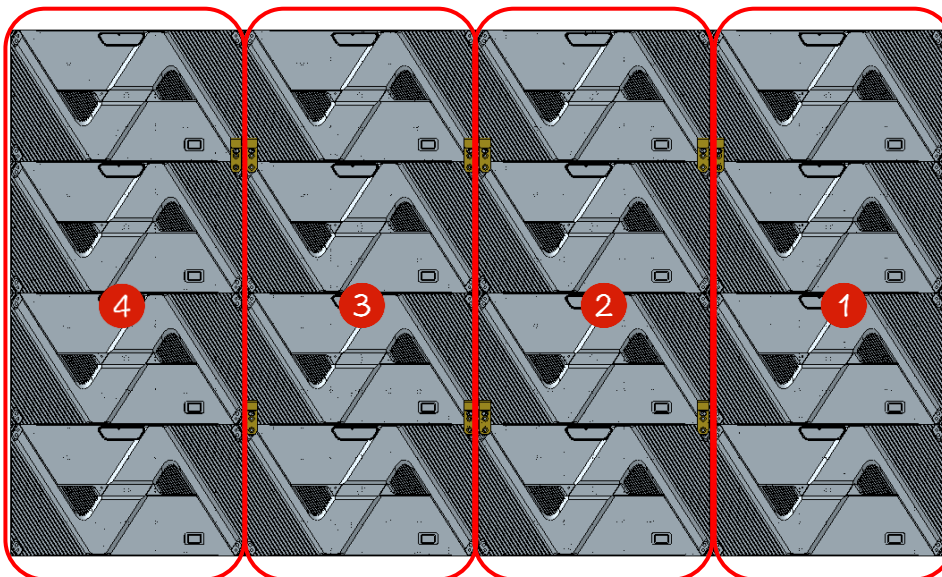
### 2.3.1 The steps of installation for mobile stand

Step 1: Taking out the mobile brackets from packaging and using 12 M6X16 screws to assemble the crossbeam and mobile bracket legs (Note: the crossbeam has an arrow to indicate the arrow upward, and the herringbone leg has a step at the front)



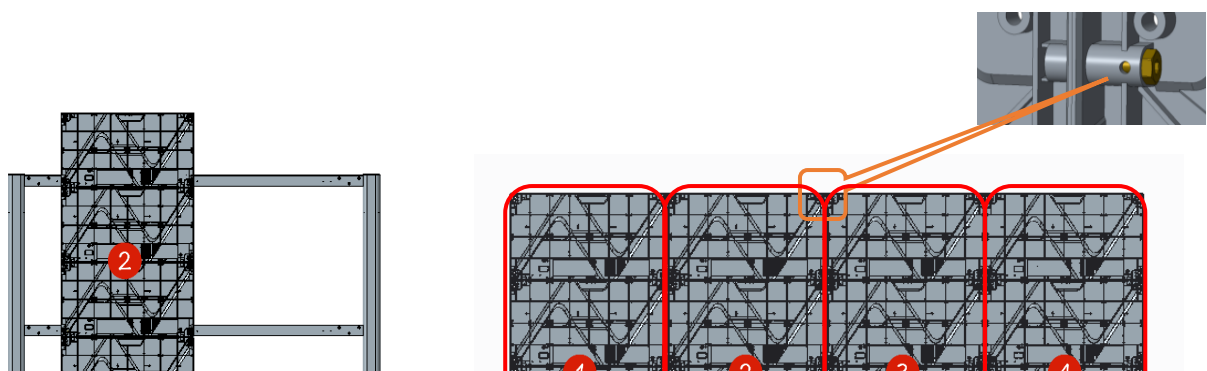
### 2.3.2 Screen installation

Step 1: Taking out the box and using 20 M6X16 screws to install the hook connection piece on the back of the box, the left and right sides of the box only need to install the hook connection piece on the top of one side.



Step 2:

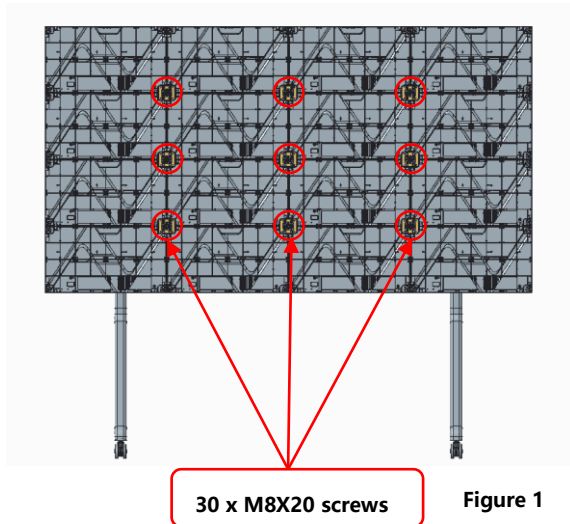
Install the box columns in the order of 2-3-1-4, with the hook connectors on the back of the box hooked into the grooves in the backstay beam profiles. Move the box so that it is centered and aligned with the marking line on the crossbeam (as shown in Figure 1), install the box columns in order and lock the left and right connecting bolts on the box (as shown in Figure 2).



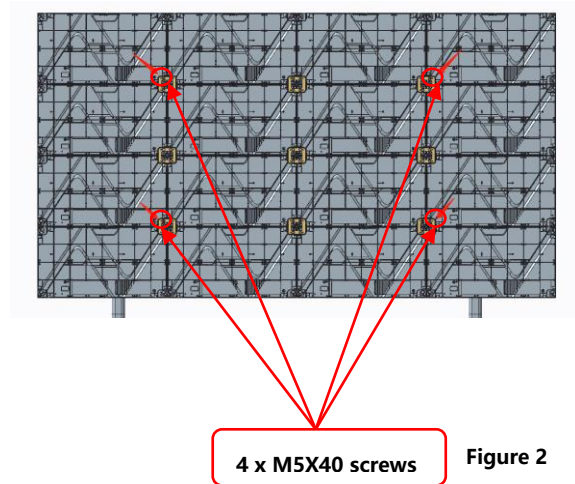


**Figure 1**

Step 3: Using 30 M8X20 fixing screws to install the box within the leveling connection piece (as shown in Figure 1), use 4 M5X40 screws to install the box security screws, to ensure that the screen will not move from side to side (as shown in Figure 2 Note: Fixed corners can be)



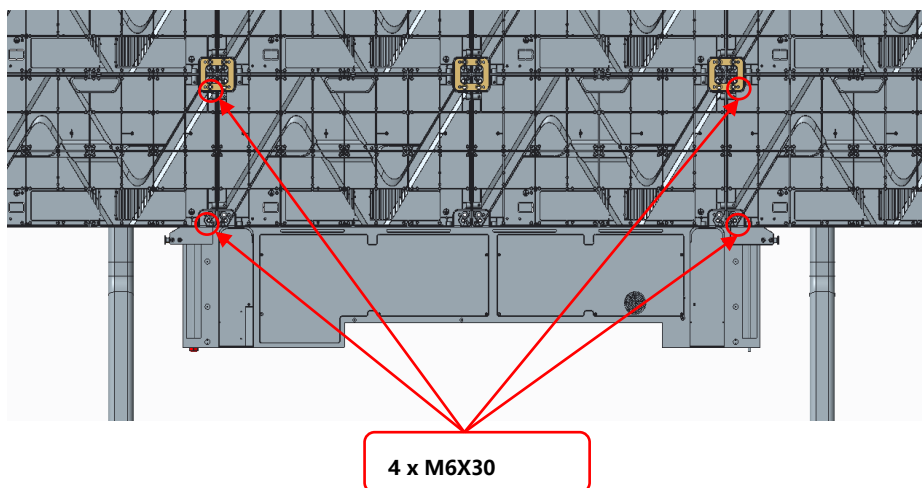
**Figure 2**



### 2.3.3 Trims and control box installation

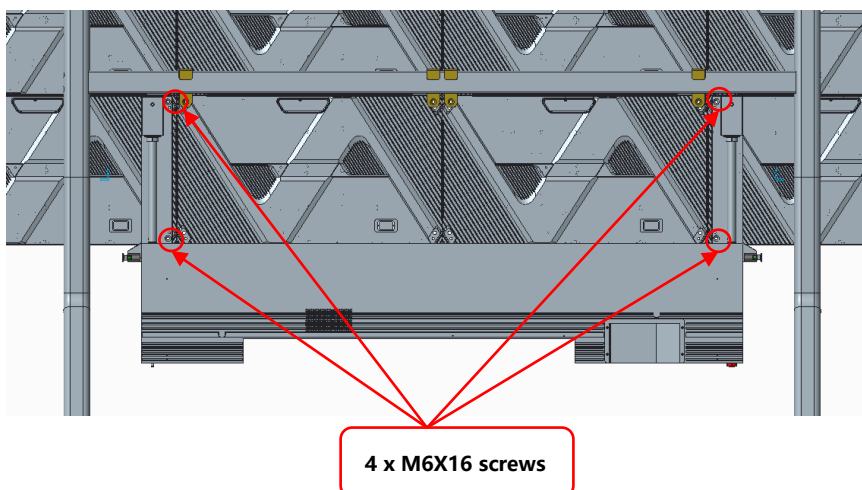
Step 1: Control Box Installation:

Front Installation: Lift the control box up from the back of the box to install it between the second and fifth columns, and then use 4 M6\*30 screws to lock it from the front to complete the installation of the control box structure



#### Front mounted control box

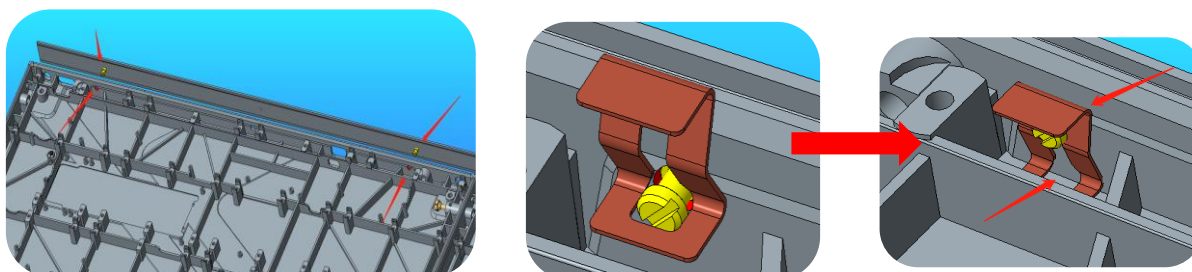
Rear mounting: use four M6X16 screws to fix the control box from the back (mobile version is recommended to fix the control box from the back for easy installation)



#### Rear mounted control box

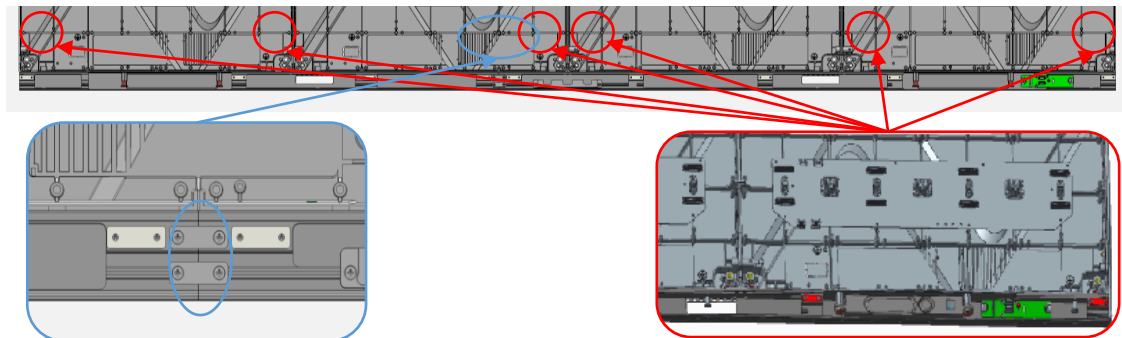
Step 2 (Non-touch version, the touch version content in part 2.4 ):

The installation of top, left and right trims: The upper, left and right trims are fixed and mounted through the trims positioning columns with corresponding positioning holes in the cabinets, and then fixed by the internal fittings of the edging shrapnel.



Step 3: Installation of bottom trims (Non-touch version, the touch version content in part 2.4 )

Using 6 M6X16 countersunk head screws to install the bottom trims on the bottom side of the cabinet, and using 4 KM3X8 screws to fix the bottom trims with the connecting piece, which can use for adjusting the flatness .



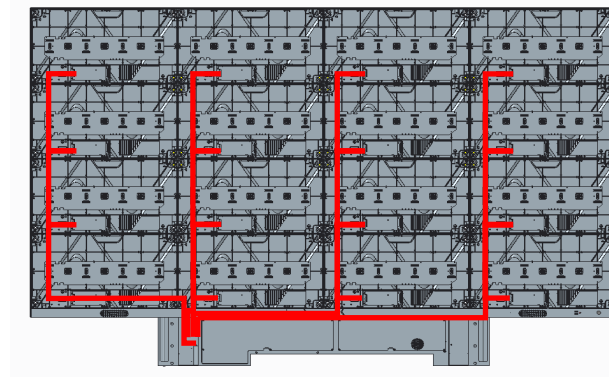
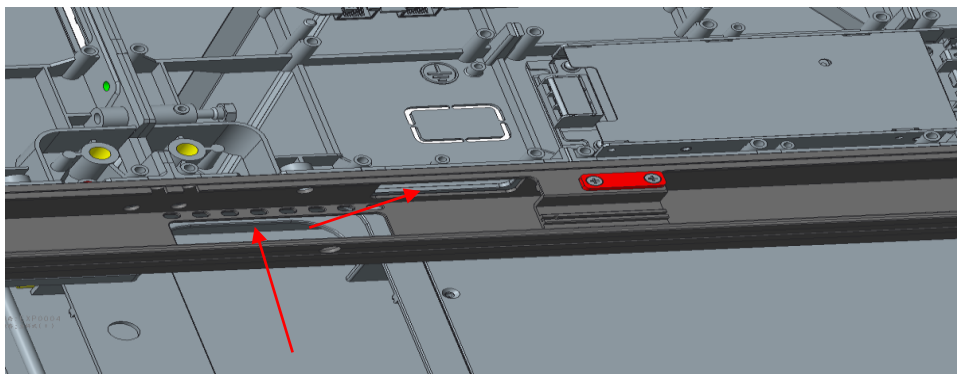
Attach the wrap-around connector piece using 4 KM3X8 screws.

Fixed with 6 M6X16 countersunk head screws

### 2.3.4 Connect the power and network cables

Step 1:

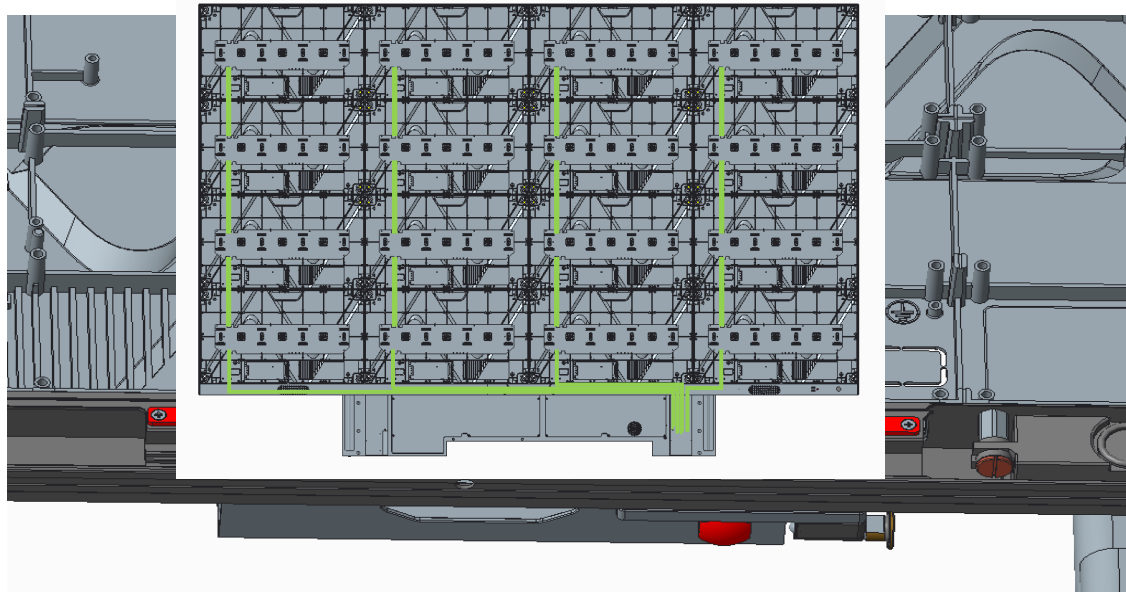
Getting through 4 main power cords from the hole of left side of bottom trim. The order of cabinets, from left to right, is the first column to forth column, which will be corresponding with the order of label on power cord. Then, connecting the power cord and earth wire at the bottom of the cabinets.



Schematic diagram of power cord threading holes

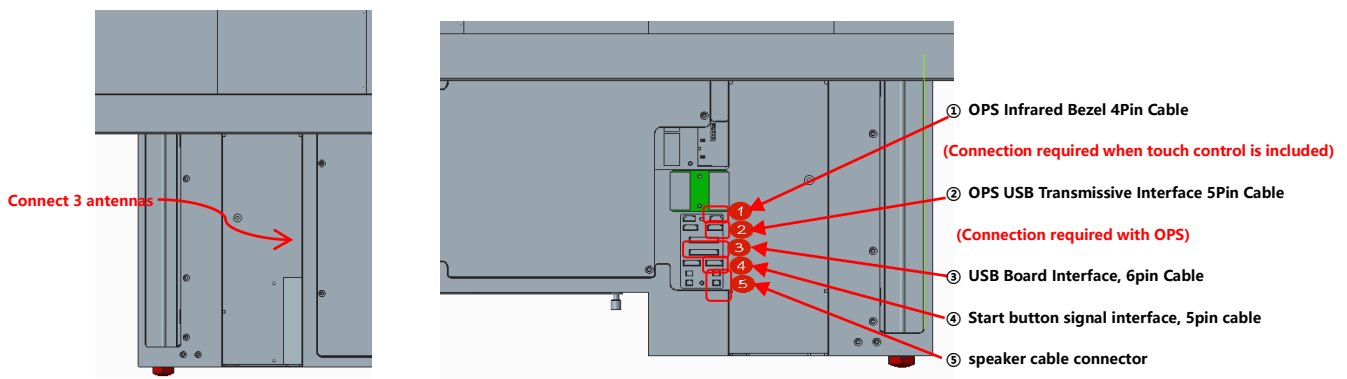
Step 2:

Getting through 4 main network cables from the hole of right side of bottom trim. The order of cabinets is the same as above from left to right as the first column to forth column, which will be corresponding with the order of label on network cables Then, connecting the network cables. (Note: network cables threading mode refer to the power cords threading mode)

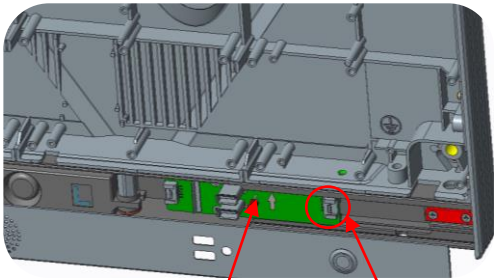


### Schematic diagram of network cord threading holes

Step 3: Connect the antenna, audio screen cable, and other wires from the lower wrap to the control box



2.3.5 Install the bottom trim cover and connect the screen on button 5P cable



USB subversion      Power On Button 5Pin Cable

2.3.6 Mounting Modules

Because this product adopts the whole screen calibration, in order to ensure the best display effect, it must be installed in accordance with the order of our company's identification as the figure shown on below.

Installation serial number schematic (front view) :

The numbering of the installation order of cabinets:

first line				
second line				
third line				
fourth line				
	first column	second column	third column	fourth column

viewed from the front

The numbering of the installation order of modules:

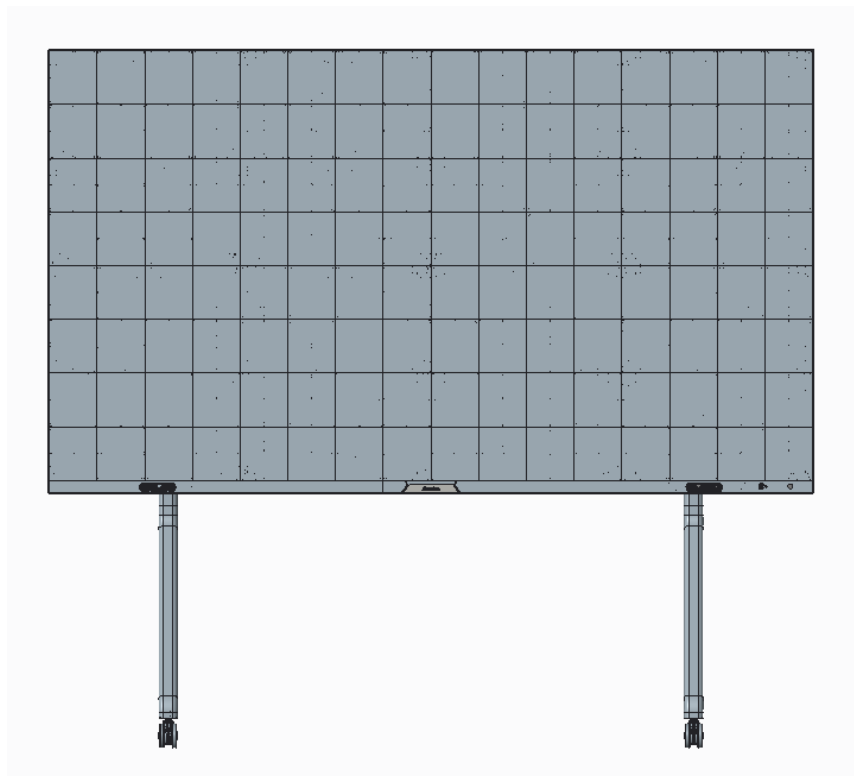
	Correction code for the first row of box light panels				Correction code for the second column of box light panels				Third column box light panel correction code				Fourth column of box light panel correction code			
first line	1-1-1-1	1-1-1-2	1-1-1-3	1-1-1-4	1-1-2-1	1-1-2-2	1-1-2-3	1-1-2-4	1-1-3-1	1-1-3-2	1-1-3-3	1-1-3-4	1-1-4-1	1-1-4-2	1-1-4-3	1-1-4-4
	1-1-1-5	1-1-1-6	1-1-1-7	1-1-1-8	1-1-2-5	1-1-2-6	1-1-2-7	1-1-2-8	1-1-3-5	1-1-3-6	1-1-3-7	1-1-3-8	1-1-4-5	1-1-4-6	1-1-4-7	1-1-4-8
second line	1-2-1-1	1-2-1-2	1-2-1-3	1-2-1-4	1-2-2-1	1-2-2-2	1-2-2-3	1-2-2-4	1-2-3-1	1-2-3-2	1-2-3-3	1-2-3-4	1-2-4-1	1-2-4-2	1-2-4-3	1-2-4-4
	1-2-1-5	1-2-1-6	1-2-1-7	1-2-1-8	1-2-2-5	1-2-2-6	1-2-2-7	1-2-2-8	1-2-3-5	1-2-3-6	1-2-3-7	1-2-3-8	1-2-4-5	1-2-4-6	1-2-4-7	1-2-4-8
third line	1-3-1-1	1-3-1-2	1-3-1-3	1-3-1-4	1-3-2-1	1-3-2-2	1-3-2-3	1-3-2-4	1-3-3-1	1-3-3-2	1-3-3-3	1-3-3-4	1-3-4-1	1-3-4-2	1-3-4-3	1-3-4-4
	1-3-1-5	1-3-1-6	1-3-1-7	1-3-1-8	1-3-2-5	1-3-2-6	1-3-2-7	1-3-2-8	1-3-3-5	1-3-3-6	1-3-3-7	1-3-3-8	1-3-4-5	1-3-4-6	1-3-4-7	1-3-4-8
fourth line	1-4-1-1	1-4-1-2	1-4-1-3	1-4-1-4	1-4-2-1	1-4-2-2	1-4-2-3	1-4-2-4	1-4-3-1	1-4-3-2	1-4-3-3	1-4-3-4	1-4-4-1	1-4-4-2	1-4-4-3	1-4-4-4
	1-4-1-5	1-4-1-6	1-4-1-7	1-4-1-8	1-4-2-5	1-4-2-6	1-4-2-7	1-4-2-8	1-4-3-5	1-4-3-6	1-4-3-7	1-4-3-8	1-4-4-5	1-4-4-6	1-4-4-7	1-4-4-8

#### Numbering instructions:

The first bit is the screen number; the second bit is the box row number, from top to bottom, the top is the first row; the third bit is the box column number: The fourth bit is the module number

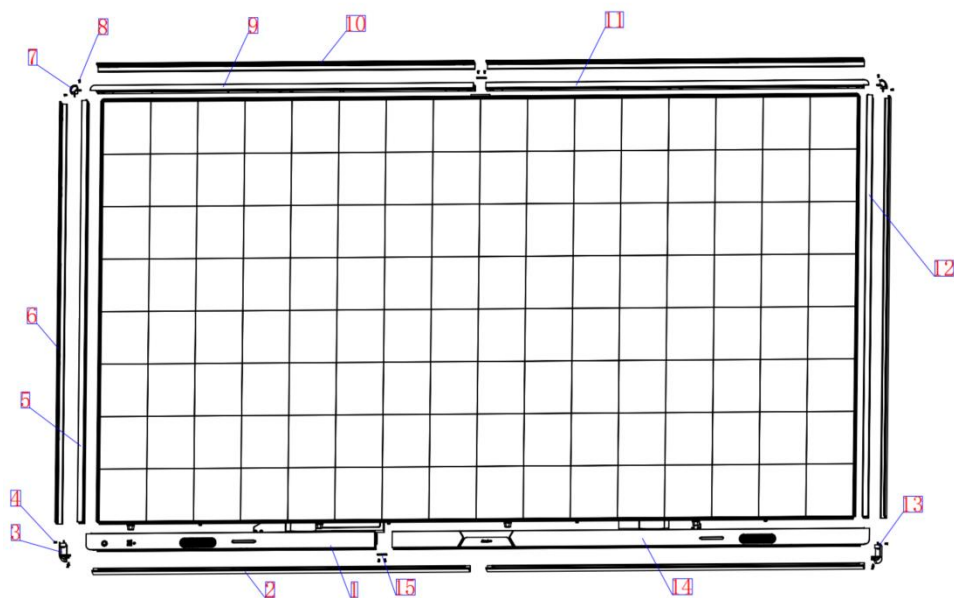
For example, 1-1-1-2 is the second module of the first row and column of the first screen.

The picture of completed installation



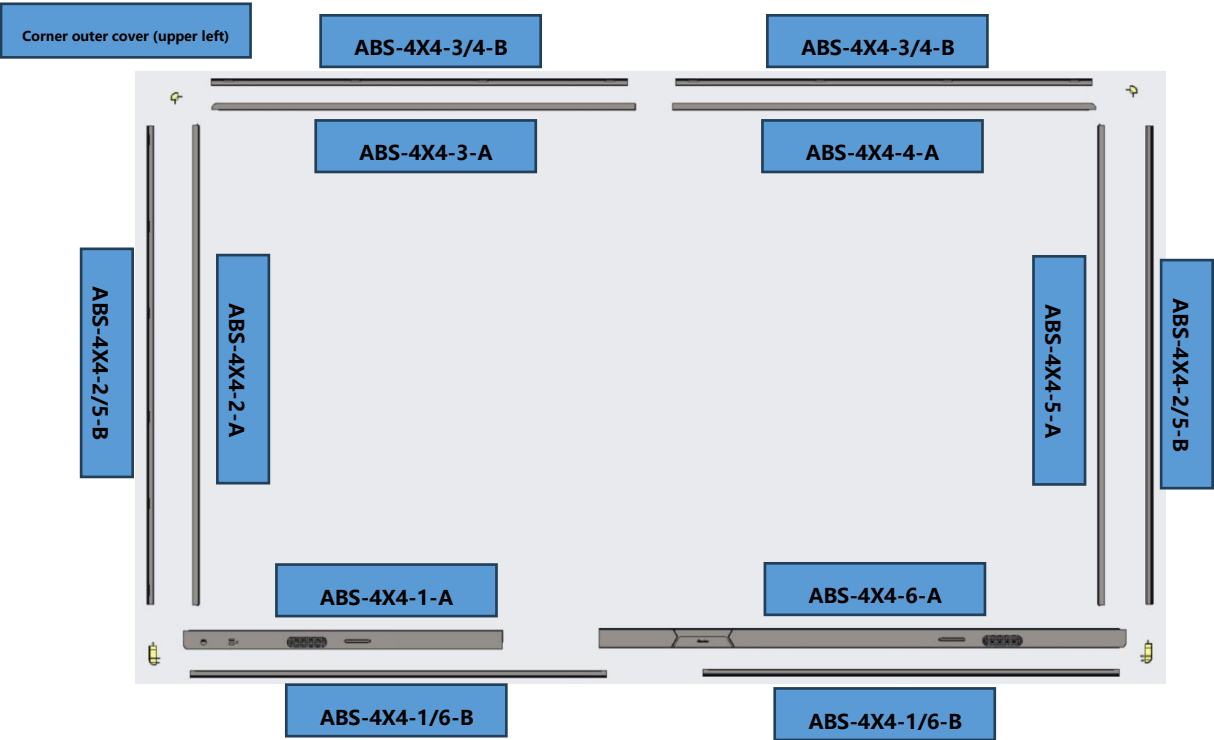
2.4 Trim installation (touch version)

2.4.1 list of touch version trim



Serial No.	Material Name	dosage	norm	note
1	Bottom Inner Frame-Left	1	subassemblies	
2	Bottom Frame	2	subassemblies	
3	Lower left corner	1		
4	KM338	6		Left and right corner fixing
5	Left inner frame	1	subassemblies	
6	Left and right frames	2	subassemblies	
7	upper corner	2		
8	PM338	8		Upper corner + upper and lower frame fixing piece
9	Upper inner frame - left	1	subassemblies	
10	Upper frame	2	subassemblies	
11	Upper inner frame - right	1	subassemblies	
12	Right inner frame	1	subassemblies	
13	Lower right corner	1		
14	Bottom inner frame - right	1	subassemblies	
15	Upper and lower frame mounts	2		
16	Edge Mounting Straps	24		
17	Infrared control line	1	Wire length 200mm	
18	dry-erase marker	2		
19	teacher's pointer	1		

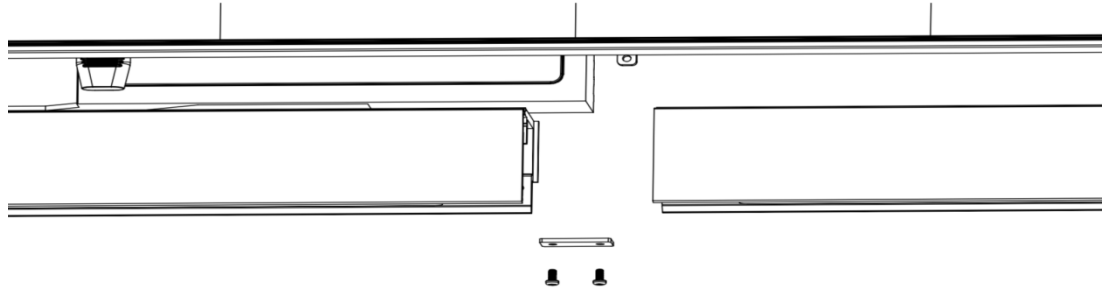
2.4.2 Schematic diagram of Trim for touch version



### 2.4.3 Steps of installation

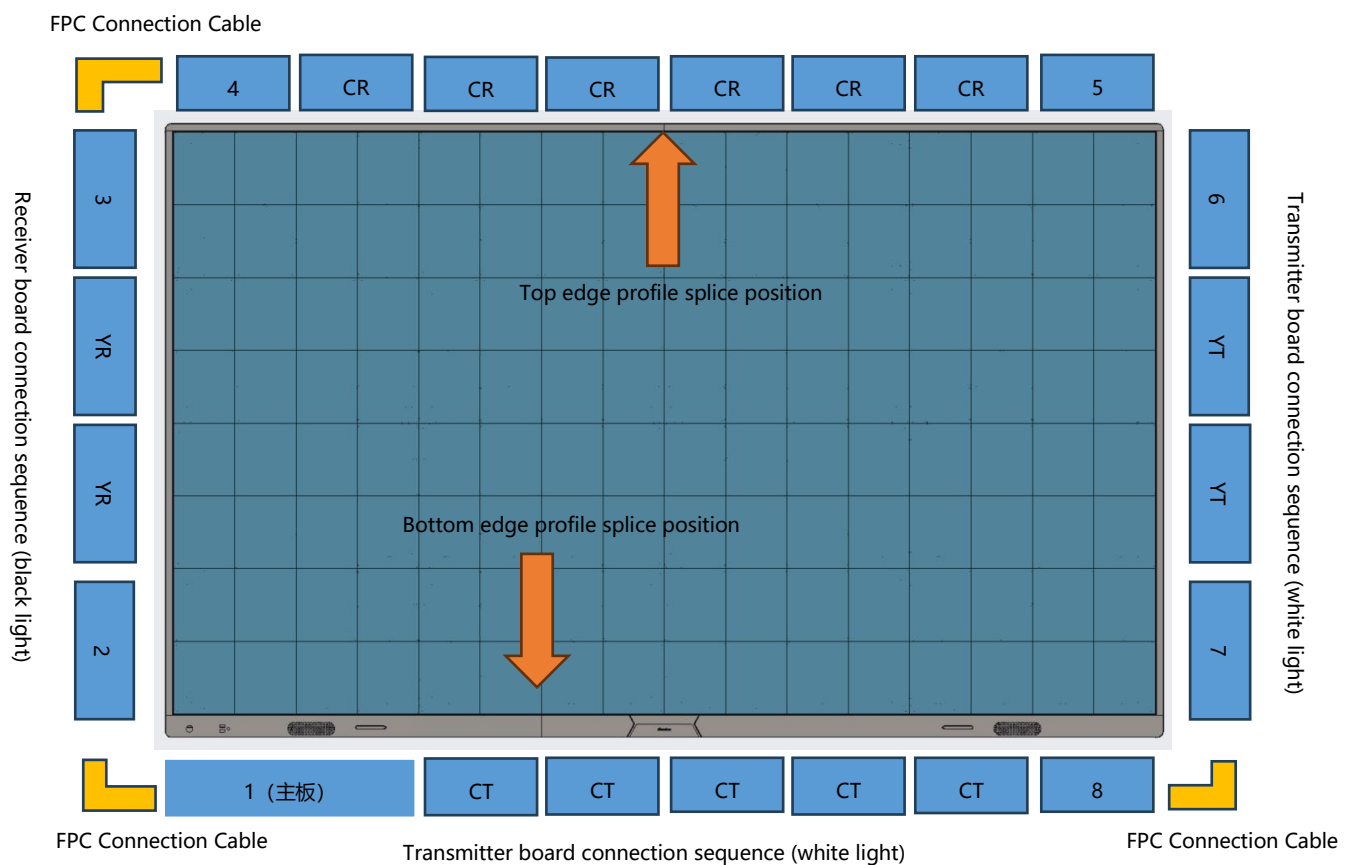
Step 1: Installing the top , left and right trims which the last letter is " A ". The installation method can be read in part 2.2.2

Step 2: Using two PM3X8 screw to connect the bottom trim.



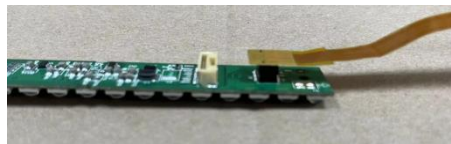
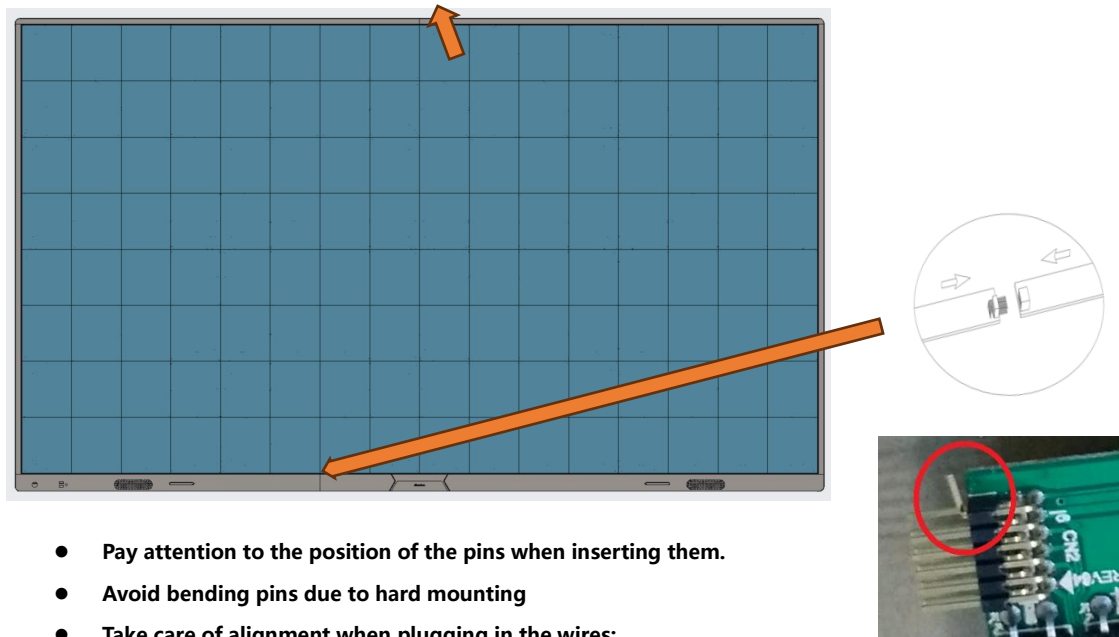
Step 3: Attach the bottom trim to the lower side of the cabinet by five M6X16 countersunk head screws.

Step 4: The schematic diagram is about how to connect FPC cables of touch panel



Some points need to be cared about connecting FPC cables process:





Step 5: The process of connecting power cords and network cables is same as non-touch version. (In part 2.2.4 or 2.3.4)

Step 6: Using three HM3X6 screws to fix the secure ground wire (lower left, upper left, lower right).

Step 7: The installation of modules is same as non-touch version. (can read in part 2.2.6 or 2.3.6)

Step 8: When module installation is completed, the touch function can be tested

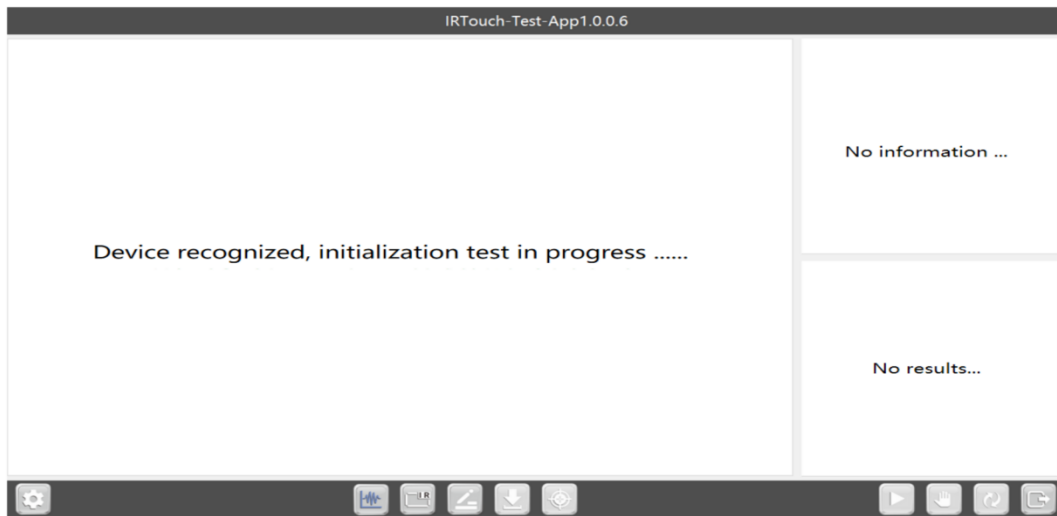
## 2.4.4 touch function test

- Connected to a computer for testing

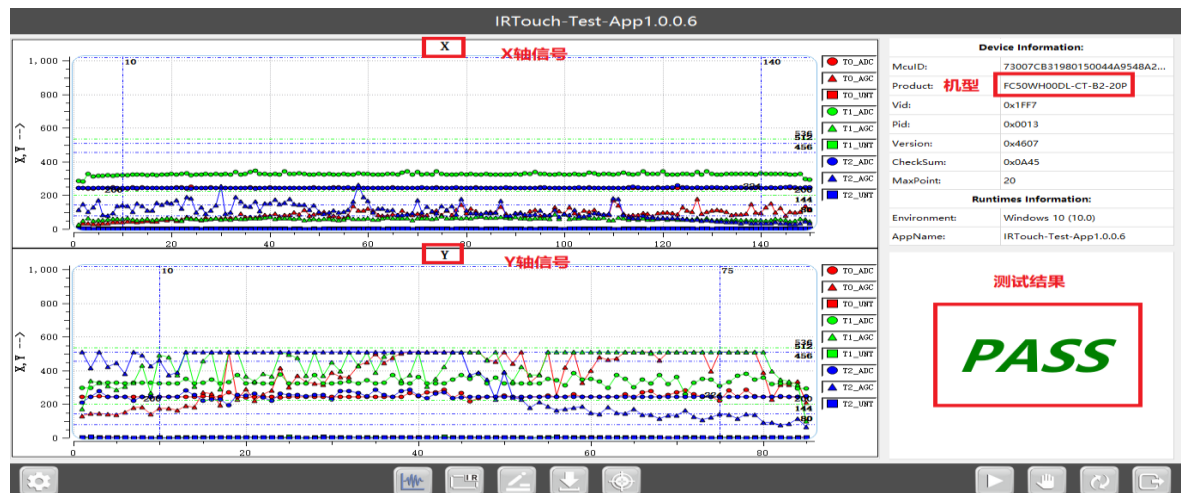
Step1: Open the IRTouch-Test software.



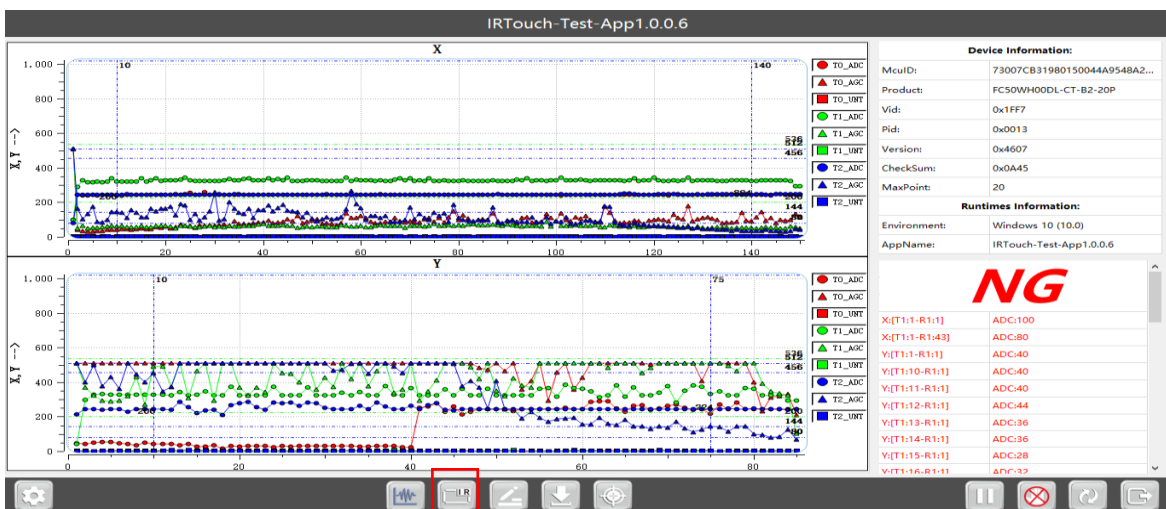
## Step2: Touch Frame connects to PC by USB



Test result: Pass



Test Result: NG



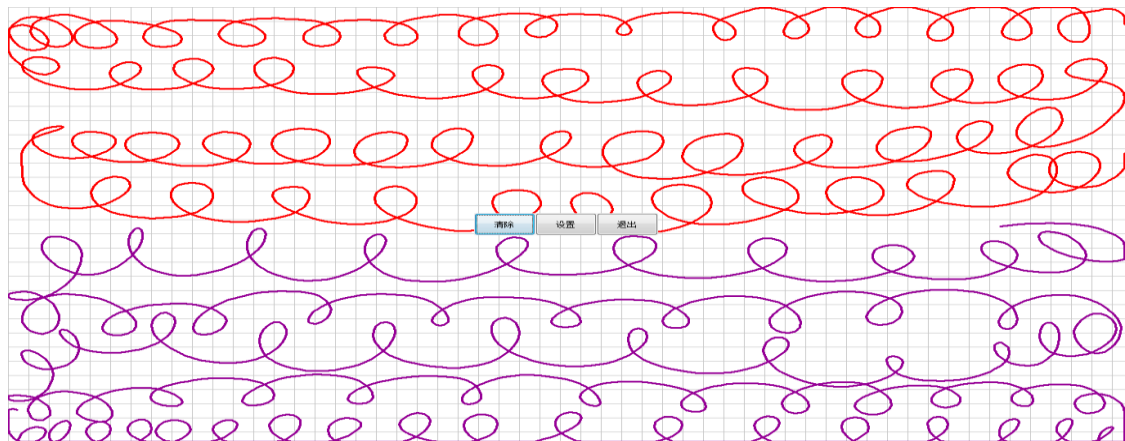
The matrix can be viewed by clicking on it

## 2.4.5 Connecting to PC to test drawing

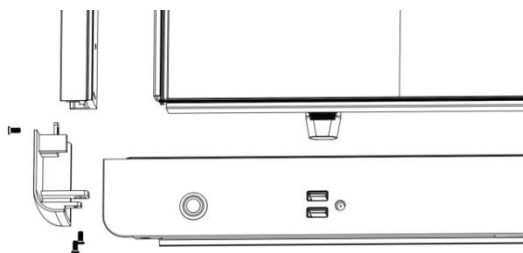
- The diameter of the touching object used to draw the line test (a stylus is recommended) needs to be greater than 8mm;
- When drawing a line with more than two points, the gap between two touches (two pens) is required to be more than 25mm;
- Do not move the mouse of the testing computer during line drawing test;
- When drawing lines, the angle between stylus and glass should be less than 45°.



- Two styluses can start to draw lines simultaneously with one stylus draws a curve from the upper right corner of the touch screen along the edge, and the other stylus draws a curve from the lower left corner along the edge. The two styluses should draw the whole touch screen. The "Clear" button on the line drawing interface can clear the line drawing operation and enter a blank page.






Step 9: Using four KM3X8 and PM3X8 screws to fix four corner of trims after the test is completed. Finally, the trims



with last letter "B" which are decorative function can be installed.

## 3. Guide of maintenance

### 3.1 maintenance tools


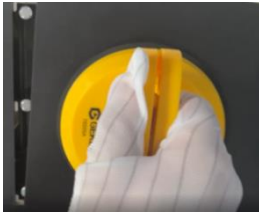

Maintenance tool list	Tools	Function	Picture
	Front maintenance tool	Install/Remove LED Module	
	PH2 Phillips screwdriver	Remove/install the screws for the HUB, receiving card	
	Multimeter	Measuring power supply system	

### 3.2 Instruction of maintenance

#### 3.2.1 maintenance of modules




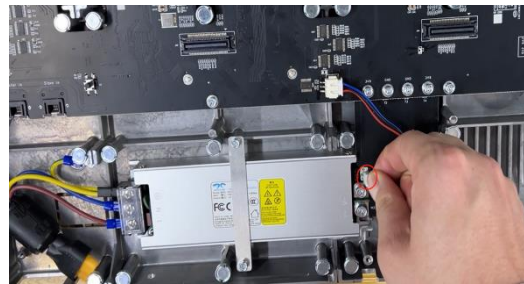

The modules of X108 can be quickly removed by passive front maintenance. Unfolding the handle of the front maintenance tool, and placing the front maintenance tool on the surface of the faulty module. Then, pulling up the handle of the front maintenance tool, and gently pull the maintenance tool outward to take the module out.

**Note:** Before maintaining the module, it is necessary to use a dust-free cloth to clean the dust the surface of the maintenance tool, before using the maintaining tool.

Picture			
Steps	❶ Confirm the location of the faulty module and place the front maintenance tool in the middle of the faulty module	❷ Pull up the handle of the maintenance tool, gently pull the maintenance tool outward, and take out the module	❸ Install the spare module on the screen.

### 3.2.2 HUB/Receiving card /Power maintenance

Using the maintenance tool to remove the module which is the faulty panel, and then using a screwdriver to remove the screw fixing the HUB board for replacement

HUB board maintenance	Picture
<p>❶ After removing the module with the maintenance tool, remove the current equalizing wire on the HUB board</p>	
<p>❷ Use a PH2 Phillips screwdriver to remove the screws fixing the HUB board and replace the faulty HUB board</p>	
Receiving card maintenance	Picture
<p>Remove the HUB board, the receiving card is on the back of the HUB board, remove the screws of the receiving card for maintenance</p>	
Power supply maintenance	Picture
<p>❶ After removing the module with the maintenance tool, remove the current equalizing wire on the power supply</p>	
<p>❷ Use a PH2 Phillips screwdriver to remove the fixing power supply screw to directly replace the faulty power supply</p>	

### 3.2.3 Announcements

1. When touching LED light boards or panels, paying attention to anti-static and do the following effective protection:
  - a. Wear a grounded electrostatic wrist strap or electrostatic gloves;
  - b. The screen is strictly grounded, and the grounding resistance is required to be  $\leq 10$  ohms, and a point inspection is carried out every six months;
2. When cleaning the surface of the lamp panel, do not use unknown chemical liquids, but use a clean dust-free or clean water damp cloth to wipe light.



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