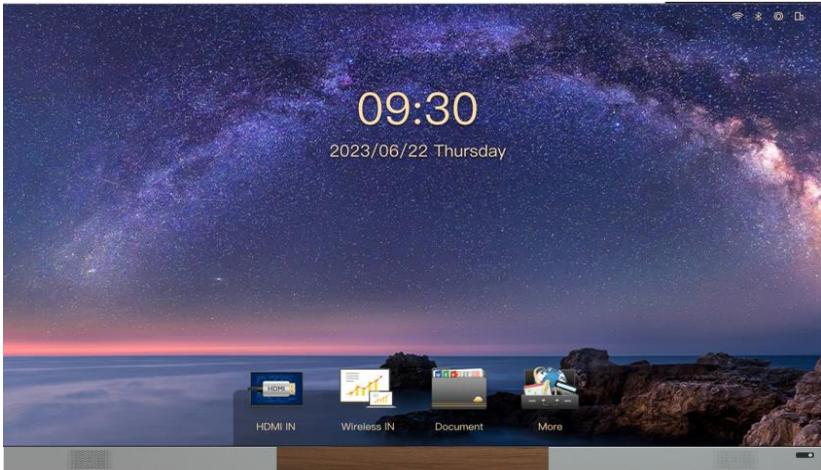


Unilumin | SC series

All-in-one LED Display



Revison History

Number	Version	Brief Introduction of Revise Contents	Revision Date
1	First Version	Initial issue	2024-03-14

The contents of this manual are subject to modification without prior notice.

Special Instructions

Thank you very much for choosing our products. In order to ensure your successful use, please read the manual carefully before using this product. Although we have tried our best to be accurate and reliable when compiling the manual, there will inevitably be flaws, so our company will revise and change the contents of the manual at any time without notice. Please understand. If you encounter any problems or have good suggestions during using this product, you can contact us according to the contact information provided in this manual; We will try our best to help you in time; We sincerely thank you for your suggestions and will evaluate and adopt them as soon as possible.

This manual is for reference only and does not constitute any form of commitment. The product (including but not limited to color, size, screen display, etc.) please refer to the actual product.

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Trademark

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Technology Co., Ltd.

To ensure the correct use of the display screen, please read the following contents carefully:

◆Warning!

There is a great possibility that the equipment will be damaged and cannot be recovered due to ignoring the contents of the warning items.

- 1) It is strictly prohibited to invert or throw the equipment during handling and storage;
- 2) It is strictly prohibited to scratch or collide the equipment during installation;
- 3) It is strictly prohibited for equipment to be drenched or soaked in water;
- 4) It is strictly prohibited to put the outlet of the air conditioner at close range to the display screens;
- 5) It is strictly prohibited to place or use display screens in environments with volatile, corrosive and flammable chemicals;
- 6) It is strictly prohibited to clean the display screens with water and chemical solvents;
- 7) It is strictly prohibited to use electrical accessories that have not been certified by the equipment manufacturer;
- 8) It is necessary to ensure that the display screens and accessory equipment are correctly and reliably grounded before using;
- 9) If there is any abnormal situation on the display screens, such as peculiar smell, smoke, electric leakage and abnormal temperature, please cut off the power supply immediately and then contact the professional personnel;
- 10) It is strictly prohibited for users to personally install APK application software that has not been tested by Unilumin; If the system is stuck or crashed due to this reason, please contact the professional personnel;
- 11) In the living environment, the product may cause radio interference, and practical measures shall be taken to deal with the interference;
- 12) This equipment has an input socket. After disconnection, the power supply can be disconnected from the equipment and connected to 100V-240V AC power supply. For countries where the civil voltage standard is 110V, we will design two input sockets to ensure the safety of the equipment.

◆Attention!

There is a great possibility that the best display effect cannot be obtained due to ignoring the contents of attention.

- 1) When installing and repairing products, antistatic gloves and antistatic wrist strap must be worn;
- 2) The storage environment of the display screens shall be ventilated and dry, and the humidity shall not exceed 85%;
- 3) Under normal circumstances, the display screens must be powered on at least twice a week, and the lighting time for each time is not less than 2 hours;
- 4) If the display screen is installed in seaside, saline-alkaline areas, areas containing sulfide gas, near kitchen smoke exhaust, and places with large temperature difference between indoor and outdoor, it may lead to equipment failure and affect its service life. If it is inevitable, please consult the professionals in our service outlets.
- 5) The symbol* refers to optional part/optional software.

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Chapter 1 Product Introduction

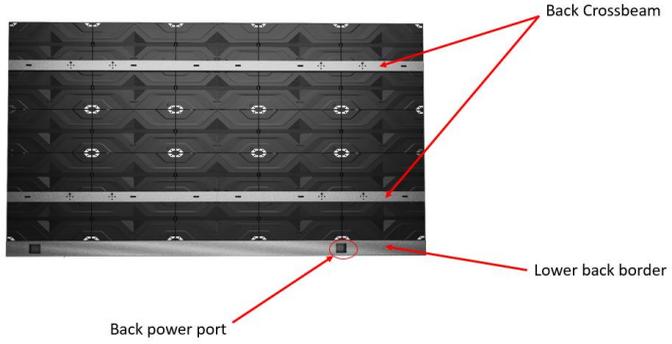
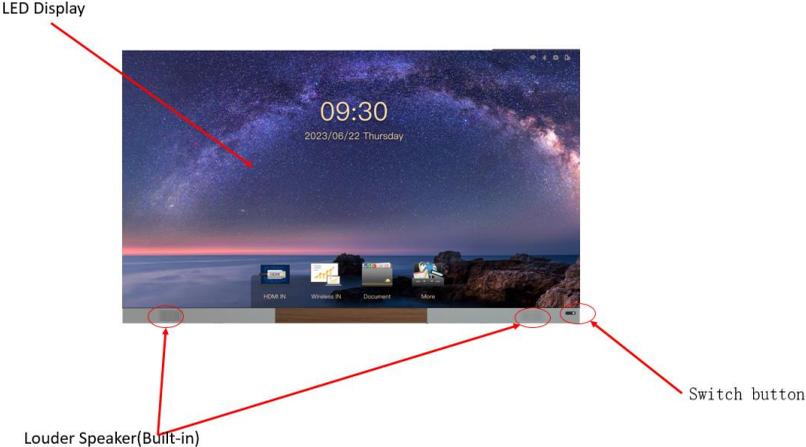
1.1 Product Introduction

SC series all-in-one LED Display is the third generation of commercial LED TV products of our company. SC is a new generation of intelligent display screen based on the concept of hard and soft combination and integrated design, which will perfectly replace the traditional display equipment in large and medium-sized conference rooms. SC adopts 16:9 standard aspect ratio and provides three display sizes of 108 inches, 135 inches and 162 inches; High contrast, wide viewing angle, high refresh and full color performance make its display effect excellent; SC also has design of high-precision die-casting box assembly , beautiful and elegant, easy to install, and only consumes power at the level of household appliances, which is very suitable for indoor display products; Besides, SC is matched with its own UI system, with built-in independently developed software applications such as UFile, UPhoto, USend and UCalendar, providing users with the ultimate usage experience.

1.2 Product Features

- 1) Integrated software and hardware , Simple operation like TV
- 2) Sectional structural unit, only taking two hours to complete the installation, which is very fast
- 3) Fully inverted COB co cathode design, energy-saving cold screen
- 4) Self-developed UI system, supporting wireless projection, USend, UMS and other functions
- 5) Built-in Android 11.0 operating system, 8G memory, 64G storage, dual-band wifi, built-in wifi6 network card

1.3 Product appearance



1.4 Specification Parameters

Specifications and Models		UTV SC108	UTV SC135	UTV SC162U
Basic Parameters	Display Size (inch)	108	135	162
	Dot Spacing (mm)	1.25	1.5625	0.9375
	Overall Dimensions (W×H) (mm)	2411x1476x30.4	3011x1813.5x30.4	3611x2151x30.4
	Screen Resolution (W×H)	1920X1080	1920X1080	3840X2160
	Maintenance Method	Full front maintenance	Full front maintenance	Full front maintenance
	Box Material	Die-Cast Aluminum	Die-Cast Aluminum	Die-Cast Aluminum
	Total weight (kg)	80	126	180
	Border Material/Color	Aluminum profile/dark gray		
	Operating Voltage	AC 100 V ~ 240 V, 50/60Hz		
	Maximum Power Consumption (W)	880	1013	2190
	Average Power Consumption (W)	320	405	876
	Single-point Luma Correction	Support	Support	Support
	Single-point Color Correction	Support	Support	Support
	Brightness of White Balance (cd/m ²)	600 (adjustable)	600 (adjustable)	600 (adjustable)
	Repetition Frequency (Hz)	60	60	60
	Refresh Rate (Hz)	3840	3840	3840
Gray Scale (bit)	13	13	13	
Horizontal/vertical Viewing Angle (degrees)	0-180	0-180	0-180	

Mainboard Parameters	Operating System	Standard Android 11.0
	CPU	Cotex A73*4+A53*4
	GPU	Mali-G52 MP8
	Memory/Storage	DDR4 8G/64G
	External Interface	SPDIF*1/USB2.0*1/HDMI in*2/USB3.0*3/Audio Out*1/RJ45*2
	Wireless Projection	Support
	Remote Control Operation	Support
Sound parameters	Sound Brand	Wanlibo
	Rated Power (W)	12W/8Ω*2
	Fixed mode	Built-in (Support customer outsourcing)
	Frequency Response	90~20KHz
	Sound pressure level SPL	79±3dB
	Distort THD	≤10%@120~300Hz 80% rated power, ≤70%@300~10KHz 80% rated power

1.5 Scope of Application

SC is widely used in indoor spaces such as conference rooms and multi-function halls of schools. At the same time, it can also be used in public places such as studios, airports, stations, urban subways, as well as exhibition halls, shopping malls, brand stores, promotion sites, home theaters and other fields.



Chapter 2 Equipment Installation

2.1 Installation Method



Wall-mounted

To install the equipment, it requires to drill mounting holes in the wall, so the wall must be solid. And the minimum carrying shall be 3 times the weight of the screen.

Environment: Brick wall, concrete wall, thick wall, etc.

Mobile Bracket

It provides standard mobile bracket, which can be installed on the flat level floor without walls or other auxiliary structures.

Environment: Flat level floor

2.2 Installation Procedure



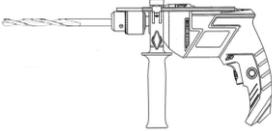
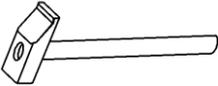
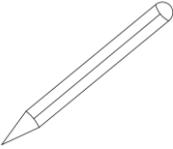
2.3 Preparation Before Installation

2.3.1 Installation Precautions

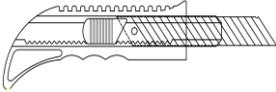
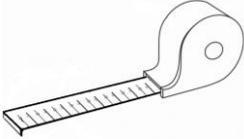
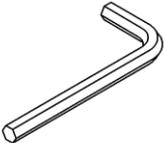
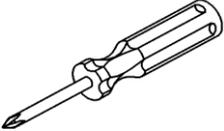
- ◆ This equipment must be installed by at least 2 professional technicians.
- ◆ If the network cable or power socket (such as through-wall wiring) needs to be re-laid before installation, the customer needs another professional to complete it in advance, and the specifications must meet the requirements of the equipment.
- ◆ If there are no good dust prevention measures, it is strictly prohibited to install equipment during the renovation and construction of the conference room. Excessive dust will affect the service life of the equipment.
- ◆ The temperature and humidity in the installation site shall be kept within the range where the equipment can work normally. It shall pay special attention to observe whether the outlet of the air conditioner is facing the display screen. If so, communicate with the customer to change the position of the outlet. The relative humidity of the installation environment cannot be larger than 70%. If the humidity is too high, customers can be advised to install dehumidifying equipment (such as air conditioners with dehumidifying function, special dehumidifiers), etc.
- ◆ For wall-mounted installation, it is necessary to confirm whether the installation position meets the requirements. For example, whether the wall can bear load, whether the wall surface has radian, whether the size meets the requirements, etc. Arc installation is not supported.

- ◆ Please confirm the installation size, and check the corresponding dimension figure and wiring diagram in the attachment.

2.3.2 Preparation Tools

Tool Name	Explanation	Illustration
Chopping bit $\phi 10$ (wall-mounted need)	Used to drill in wall and install expansion screws	
Hammer (wall-mounted need)	Used to drive expansion screws into walls	
Marker pen (wall-mounted need)	Used to mark hole sites	
Gradienter (wall-mounted need)	Used to assist installation and ensure horizontal installation of equipment	

Chapter 2 Equipment Installation

<p>Paper cutter</p>	<p>Used for equipment and module unpacking</p>	
<p>Tape</p>	<p>Used to measure dimensions</p>	
<p>Hexwrench (included with goods)</p>	<p>Used to lock the Cabinet</p>	
<p>Phillips screwdriver (included with goods)</p>	<p>Used for Phillips head screws and install Sound</p>	
<p>Open End Wrencehers (included with goods)</p>	<p>Used to drive expansion screws into walls or used to install mobile stand</p>	

Slotted screwdriver (included with goods)	Used to install or remove the cabinet positioning column	
--	--	---

2.4 Equipment Unpacking

Firstly, please carefully check whether the packaging is damaged. If the packaging is normal, continue to examine the shipping list to check the main components. If there is any discrepancy, please contact us in time.

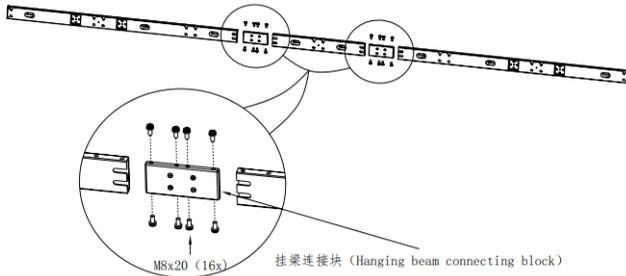
Main components: Cabinet, module, remote control handle, screen projector* (optional), sound cabling* (optional), etc. Please refer to the shipping list for specific components and their quantity.

2.5 Start Installation

2.5.1 Wall-mounted Installation

Step 1: Beam splicing. Remove all wall-mounted pieces from the package and splice them into a beam with connecting pieces. According to the screen size, there will be wall-mounted pieces with different sections. Please take the real size as the standard.

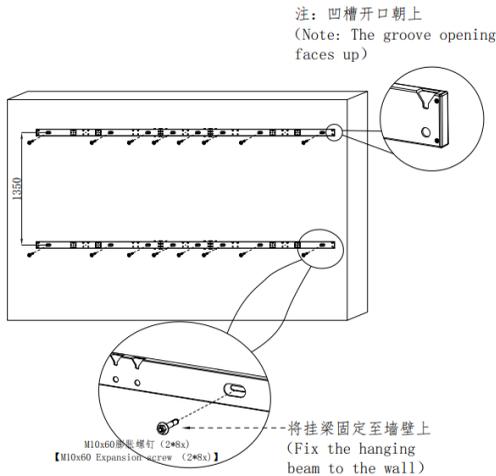
1 挂梁组件安装 (Mounting of beam assembly)



通过M8x20螺钉将挂梁拼接起来
(The hanging beams are joined by M8x20 screws)

Step 2: Beam fixing. The height of the beam from the ground can be determined according to the height of the conference table and the wall surface. Attach the beam to the determined position, keep beam level with a gradienter, and mark the hole position with a marker. Then punch the marked holes with percussion drill, and finally fix the beam with expansion screws.

2 挂梁组件固定 (The hanging beam assembly is fixed)

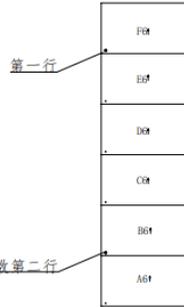


Step 3: Cabinet installation. Take out the Cabinets, hang the cabinet to the beam according to the coding sequence. Lock the box to the hanging bracket connection screws with an allen wrench. Finally, lock the lateral box to the box with an allen wrench to connect and organize the power and network cables in the bottom bezel.

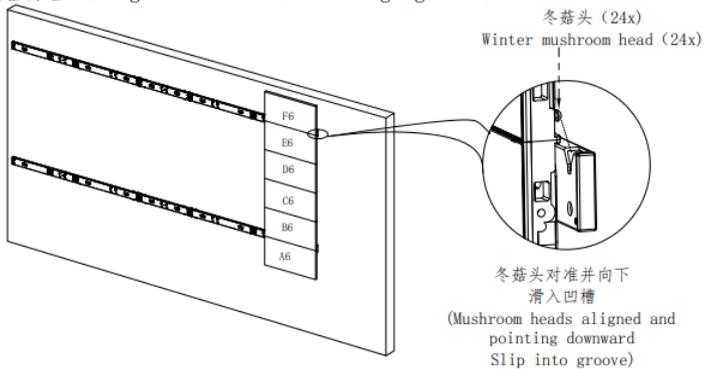
3 从包装取出一整列箱体，然后冬菇头固定 (Take out a whole row of boxes from the packaging and fix them with winter mushroom head)

注意：1. 冬菇头固定到第一行和倒数第二行箱体底部的M10牙孔，每个箱体2个冬菇头，一列箱体共4个冬菇头

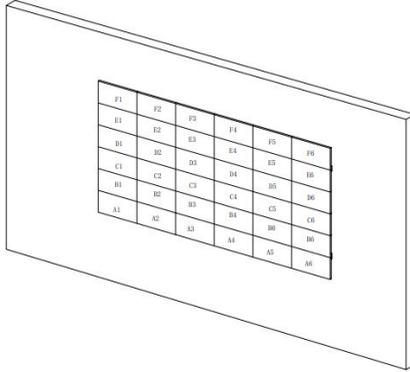
(The winter mushroom head is fixed to the M10 threaded holes at the bottom of the first and second to last of boxes, with 2 mushroom nails in each box. There are a total of 4 mushroom nails in one row of boxes)



4 将箱体挂到挂梁上 (Hang the box onto the hanging beam)

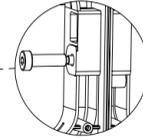
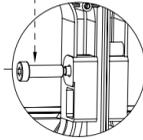
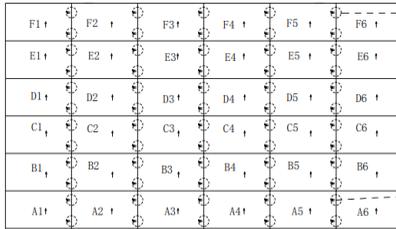


5 依次将其他列箱体挂到挂梁上(Hang the other columns of boxes on the hanging beam in turn)



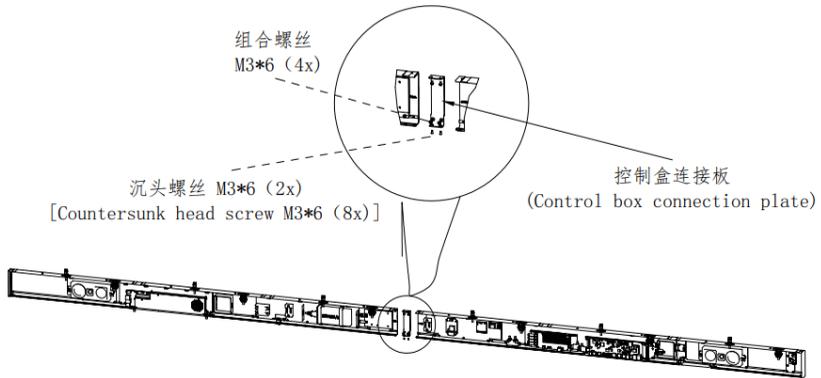
6 塞打螺钉M8将相邻框架锁紧(Plug screw M8 locks the adjacent frame)

塞打螺钉M8 (60x)
[Plug screw M8 (60x)]

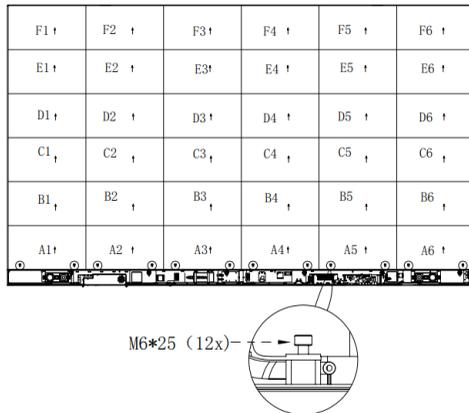


Step 4: Bottom Border Installation. Splicing the left and right control boxes through the control box connection board, and fixing the control box on the screen body, connecting the power cable and network cable.

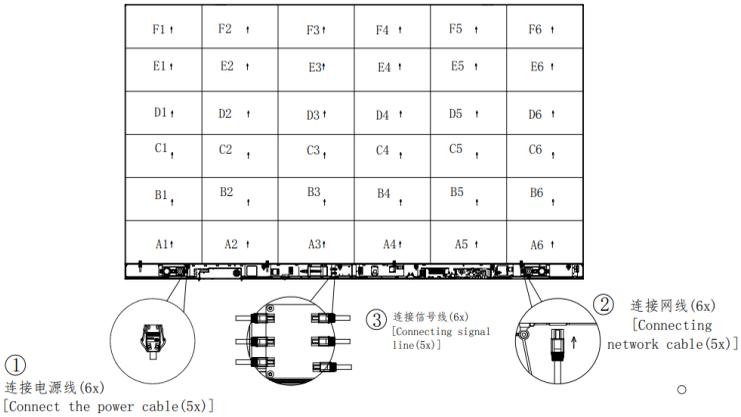
7 左右控制盒拼接 (Left and right control box splicing)



8 将控制盒固定在屏体上 (Secure the control box to the screen body)

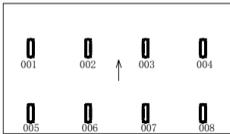


9 连接电源线及网线 (Connect power cables and network cables)

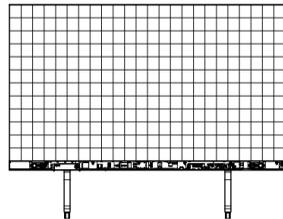
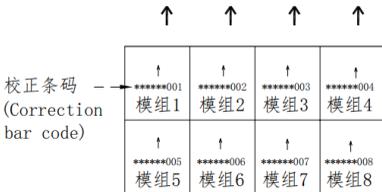
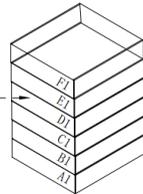


Step5: Module installation. Take out the modules and install them to the cabinets according to the coding sequence. The module will be adsorbed on the surface of the Cabinet by magnets. Please read the following Attention during installation:

10 模组安装 (Module installation)



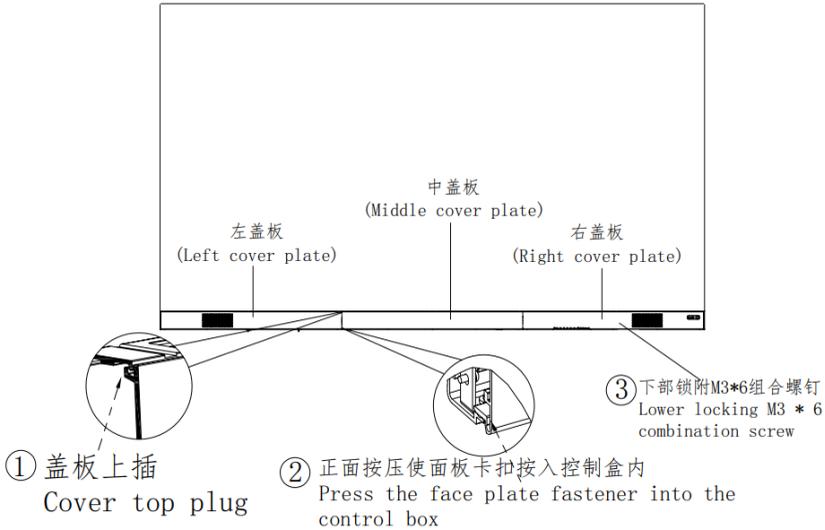
注：确认模组纸箱序号与箱体序号一致
 (Note: Confirm that the serial number of the module carton is the same as that of the box)



注：从左至右，从上至下依次安装模组1至模组8，(模组与HUB箭头方向一致)
 Note: Module 1 to module 4 are installed from left to right (the direction of module and HUB arrow is the same)

Step6: After the installation, plug in and light it up.

11 通电调试确认OK后，安装控制盒盖板(Install the middle cover plate of the control box after power debugging is confirmed OK)



We have already done luma corrector and LED parameter configuration before leaving the factory, so this product does not need software debugging on site. If you want to know the specific parameters and debugging methods, please contact us for technical support.

Attention

When installing the module, you must be careful and pay attention to the following matters:

1. Antistatic gloves must be worn on both hands. In addition to antistatic effect, gloves can also keep the surface of the module clean.
2. The lamp beads at the edge of the module are very easy to fall off when bumping. Therefore, when aligning the module, it must be lightly moved and placed. After the module is aligned correctly, it will be automatically attached by magnetic force. At this time, use your hand to adjust gently.
3. The installation personnel shall keep zero lamp beads damaged due to bumping.
4. If unevenness is found in the installation process, please adjust it in time before installing it down. The causes of unevenness may be as follows:
 - ① Check whether the lock catch of the corresponding Cabinet is too loose or too tight.
 - ② Check whether there is any foreign matter on the surface of the Cabinet or on the back of the module
 - ③ Adjust the height of the magnet on the cabinet
5. It can use ladders, chairs and other solid objects as cushions to install top module. In order to prevent falling, do not use unsafe objects. It is not allowed to trample on the module package. Safety helmets and safety belts must be worn for aerial work exceeding 2 meters.
6. It is not allowed to place the module in a place that is easy to touch and fall after taking out the module.

2.5.2 Installation of Mobile Bracket

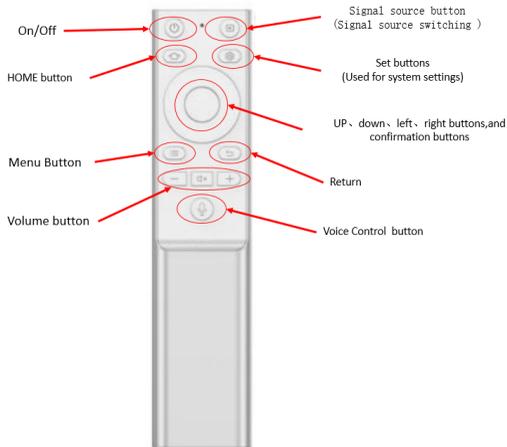
If you have purchased mobile brackets or other brackets, please refer to the installation drawing of the bracket shipping accessories.

2.6 Inspection after Installation

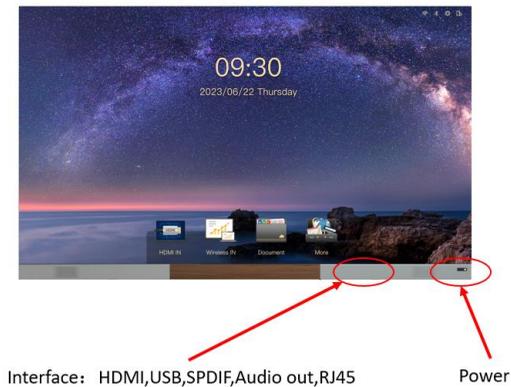
Number	Check Items	Check Mode
1	Whether the overall installation of the equipment is horizontal, whether the height is appropriate, whether the full screen can be seen when sitting at the last position of the conference table, and the overall viewing angle is good.	View
2	The screen display is normal, the resolution setting is correct, and there is no image distortion, flower screen and other problems	View
3	Whether the bracket is installed firmly and the screen is shaken or titled.	View
4	There are no scratches, paint-shedding and cracks in the appearance of the equipment, and the frame is installed smoothly without tilting.	View
5	The surface of the module is clean and flat, without finger marks, warping, depression, excessive gaps and other phenomena.	View
6	There is no blind lamp, LED damage, color block, flash screen, flower screen and other phenomena.	View
7	The function of the key can work normally.	Operational testing
8	Normal on/off, normal standby.	Operational testing
9	The operation of the remote control is normal.	Operational testing
10	The video can be played with sound, which can adjusted.	Operational testing
11	Computer projection and mobile phone projection are normal.	Operational testing
12	The spare parts list is complete and handed over and kept in place	Check

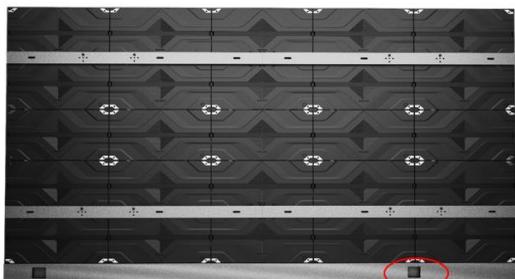
Chapter 3 Equipment Use

3.1 Instructions of Remote Control



3.2 Description of External Interface





Power inlet

3.3 Power on and Power off

1) Plug in and turn on the power switch to start the equipment.

2) When the indicator light is red, the equipment is in standby state. At this time, press the on/off button  of the remote control.

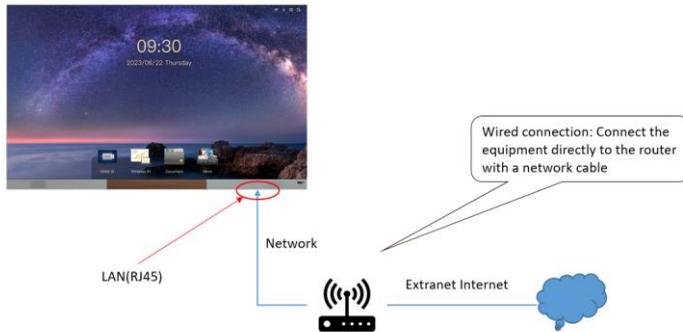


3) Power off: Press the on/off button  of the remote control, equipment standby, indicator light is red. Turn off the power button, turn off the equipment, and the indicator light is off.

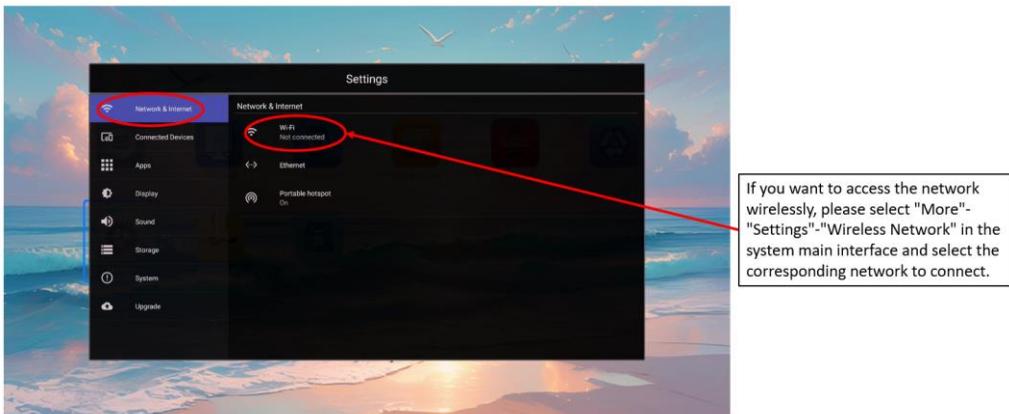
3.4 Networks and Hotspots

You can connect the device to the network and turn on the hotspot according to the following operations.

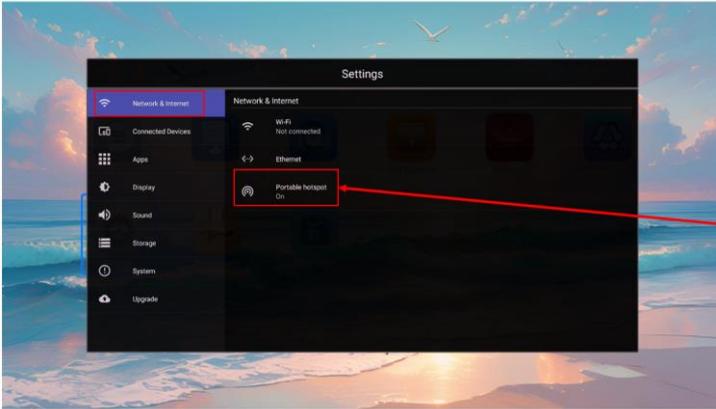
1) Wired access network



2) Wireless access network



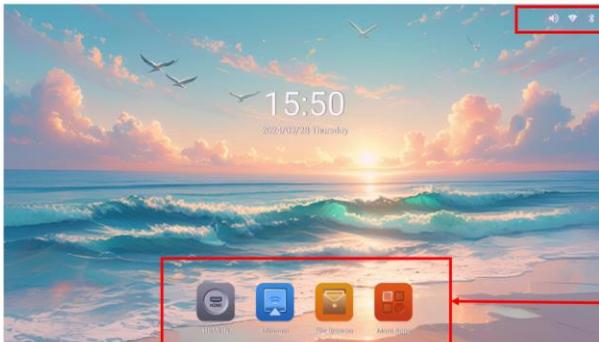
3) Turn on hotspot



Select "More"->"Settings"->"Hotspot" in the system main interface to turn on the hotspot of portable WLAN, which are mainly used for wireless projection.

3.5 System Page Description

SC uses its own business UI system. The home page displays the network status, clock, common software bar, Hiboard, etc. It is convenient for you to give priority to the operation in the meeting. At the same time, you can customize the layout through Themes according to your personal preferences. When the boot is completed, the system will enter the home page by default.

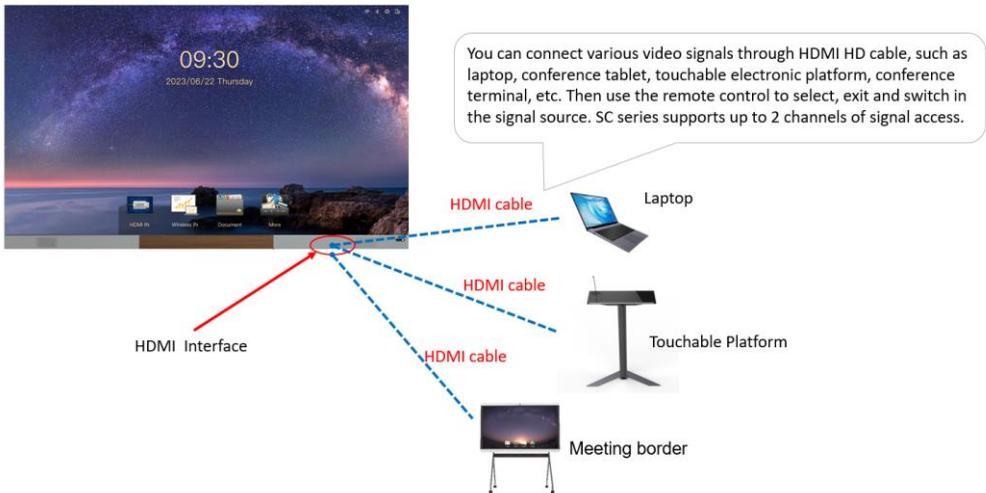


Display network connection status

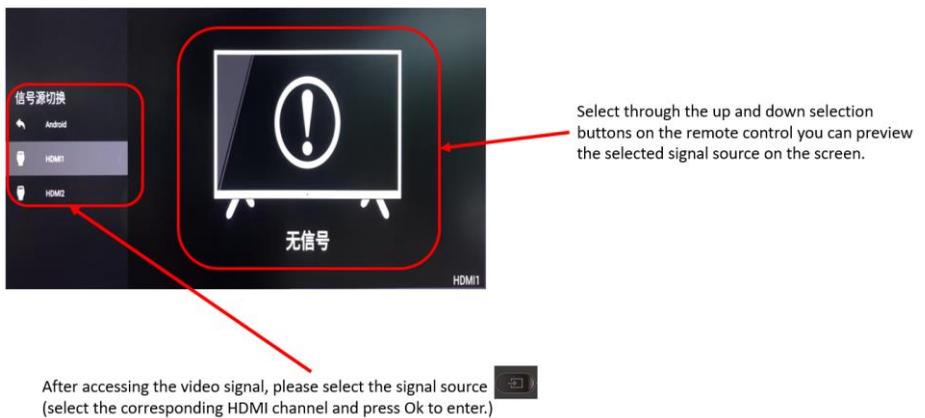
Main interface icon

3.6 Introduction of Software

3.6.1 Signal source

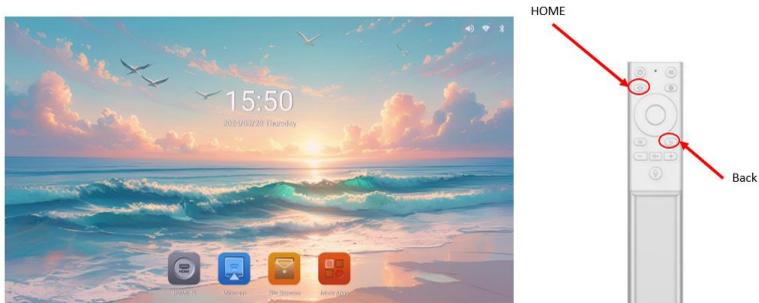


1) Select signal source



2) Exit signal source

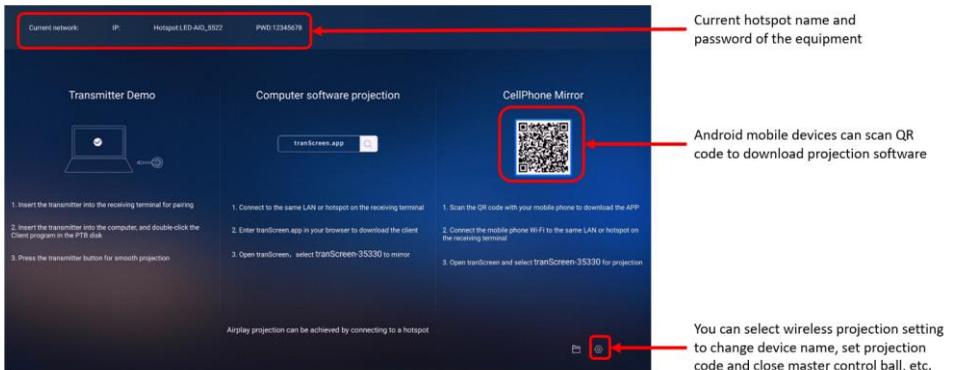
When you need to exit the HDMI signal source, please press the Back button on the remote control and select Yes to exit. Or press the HOME key to directly return to the system main page.



3.6.2 Wireless Projection

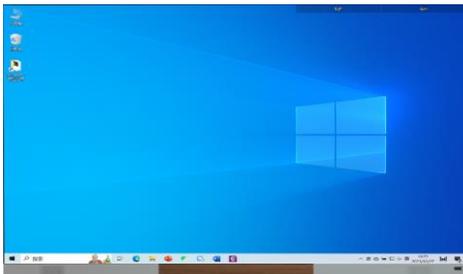
You can project your mobile phone, tablet or computer onto the screen by wireless projection without any cable connection. This equipment supports up to 4 devices to project at the same time. Different systems use different projection methods. Please refer to the following operation methods for wireless projection:

- 1) Guidance and Setup: Select wireless projection on the homepage page of the system, enter the guidance interface, you can operate according to the guidance. Select Settings icon  in the guidance interface, enter the projection settings.



2) Software Projection: Enter <https://transcreen.app/> or scan QR code through mobile phone to download Transcreen client, achieve projection by Transcreen.

Applicable equipment: Android phones, Android tablets, Windows computers.



1. The mobile device is connected to the screen hotspot or connected to the same network segment as the screen.
2. Open the installed Transcreen client for projection.



3) Airplay Projection: Applicable equipment: Iphone, Apple computer, iPad. No need to install software

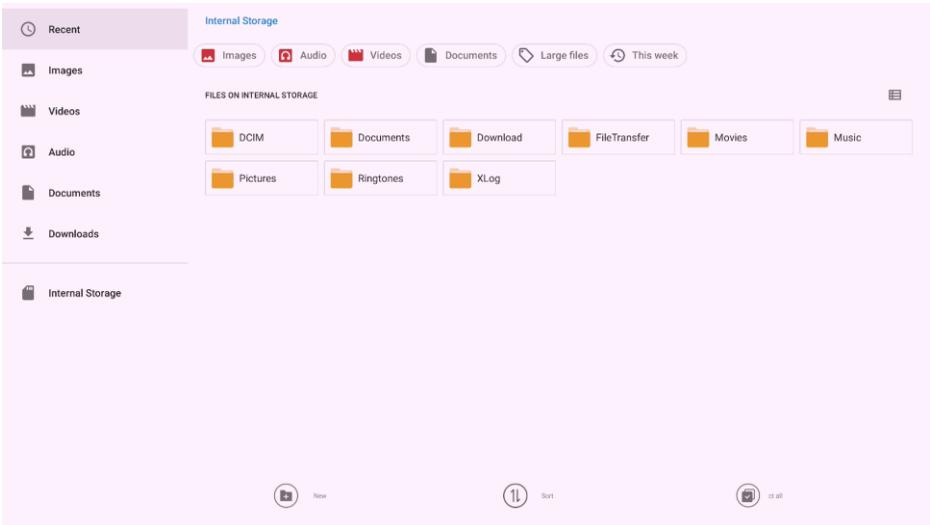
- 1.The apple device is connected to the screen hotspot or connected to the same network segment as the screen
- 2.Turn on the Airplay function of the Iphone for projection



3.6.3 File Browser

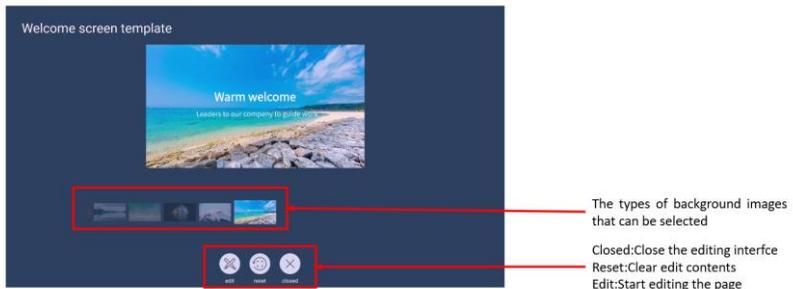
The file types include local files and externally stored files(USB drives,TF cards,etc)

- 1.Local files can view screenshots and other content(Recommend using a USB mouse for operation)
- 2.External storage file interface (insert USB flash drive, TF card, etc).Video or image content can be played through external storage



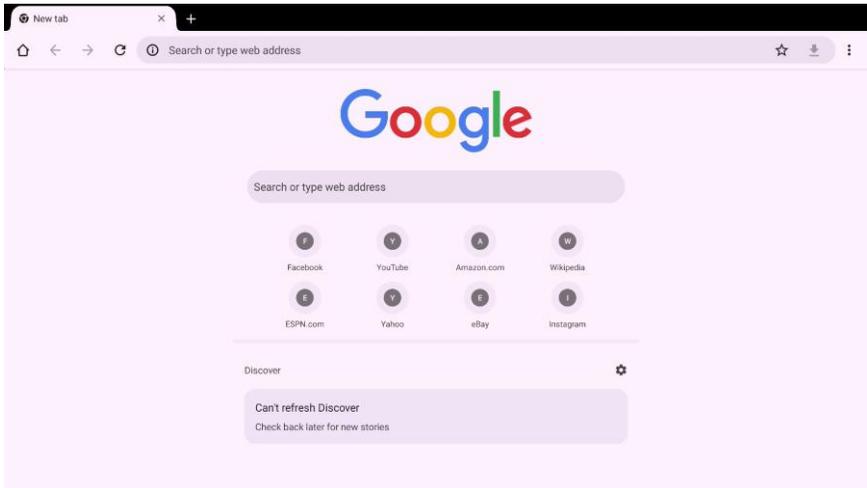
3.6.4 Welcome Wall

Through the welcome wall, you can display your meeting or event theme on the home page more quickly. Entering the interface of “welcome wall”, click “More” to edit various style of welcome wall interface. You can use flying mouse mode and virtual keyboard of the remote control to edit, and also can access the mouse and keyboard through the USB port for operation.



3.6.5 Browser

We have built-in UBrowsers specially designed for large screens. Users can quickly enter search content through the search box on the home page, and enjoy the browsing experience of large screen pages.



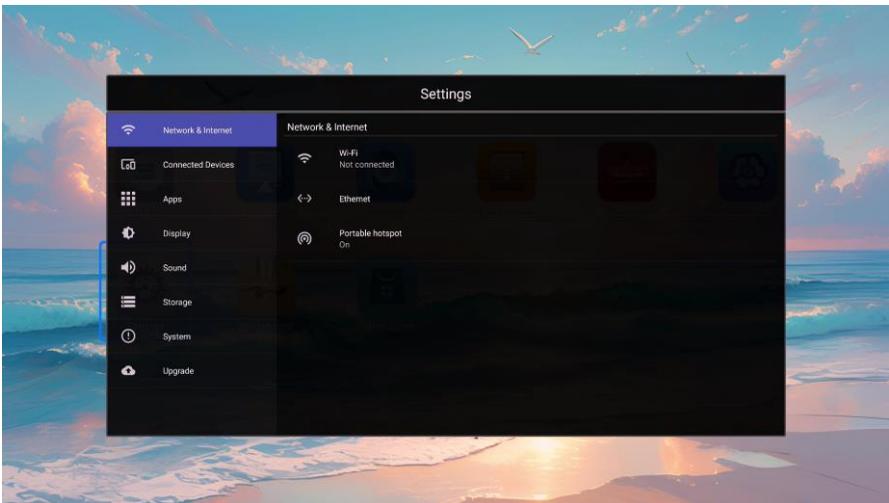
3.6.6 Other Applications

We support you to install other apps, but there is no guarantee that the device is compatible with applications other than those we develop or test. So please be careful with your installation. The installed APP will be viewed in "Other Applications".



3.6.7 Settings

In the setting interface, you can set up related systems such as network connection, timing on/off, time and date, etc.



Chapter 4 Common Troubleshooting and Component Replacement

4.1 Common Troubleshooting

4.1.1 Blank Screen

Reason analysis:

- 1) The power supply of the equipment is not turned on or the equipment is in standby state
- 2) The hardware of the system is abnormal

Elimination methods:

- 1) Check the power input and equipment operation indication status
- 2) Check the system card inside the power box. The Android card can be connected to the LCD display for inspection, and the transmitter can be directly checked by the computer for input source.

4.1.2 Some unit box isn't bright in the display screen

Reason analysis:

- 1) The power supply, receiving card or adapter card of the box fails;
- 2) The signal output of the previous stage box is poor.

Elimination methods:

- 1) Measure whether that voltage of the DC end of the power supply and the input end of the power supply of the receiving card is normal, check whether the signal indicator light of the receiving card in the box is normal, and whether the adapter card is in good contact with the receiving card;
- 2) Check whether the signal output of the receiving card of the previous stage box is normal or replace the normal network cable.

4.1.3 Some module isn't bright in the display screen

Reason analysis:

- 1) The module data interface is damaged

2) The connection of the pinboard data interface is poor

Elimination methods:

- 1) Replace the module and check whether the module is abnormal
- 2) Replace the pinboard or the data interface of the pinboard

4.1.4 Chromatic aberration exists in a module in the display screen

Reason analysis:

- 1) The calibration data of the module has not been uploaded

Elimination methods:

- 1) Restart the power supply of the startup equipment, and check whether the module correction data can be uploaded automatically
- 2) Upload software by using Colorlight software

4.1.5 Transmitter cannot be projected

Reason analysis:

- 1) Screen hotspot is not open
- 2) Hotspot has been changed, but that screen projector has not been re-paired
- 3) The antenna is not connected or closed, resulting in poor signal
- 4) The projection device is not in the same network segment as the screen

Elimination methods:

- 1) Check whether the hotspot is open
- 2) Re-pairing the screen projector
- 3) Check whether the antenna is external and the contact is good
- 4) Check whether the network connected by the projection device is in the same network segment as the screen

4.1.6 No sound

Reason analysis:

- 1) Sound is not turned on or in standby state
- 2) The audio cable is damaged or has poor contact

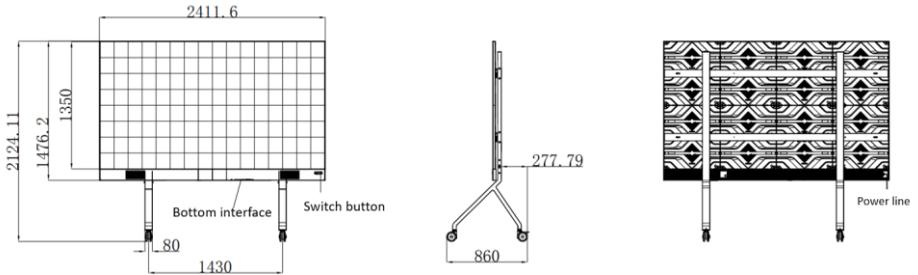
Elimination methods:

- 1) Check the working state of the sound
- 2) Check the audio cable

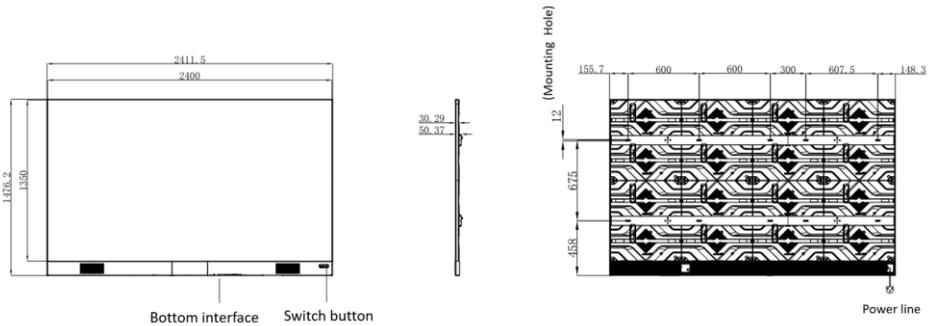
Chapter 5 Drawings

Note: We are sorry that our products may be updated without any notice, so the following drawings may not be the latest and only for reference , if you have any doubts, please do not hesitate to contact us.

5.1 UTV SC108 Drawings

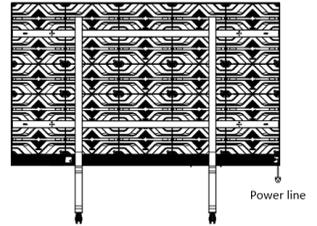
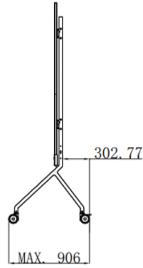
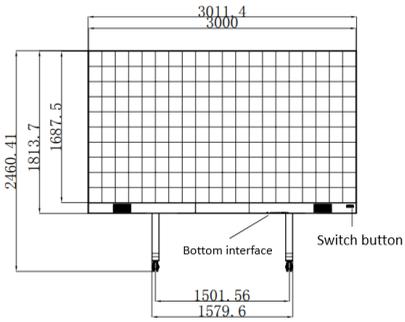


(1-1) UTV SC108 Mobile bracket installation

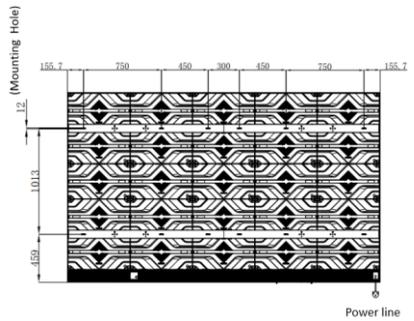
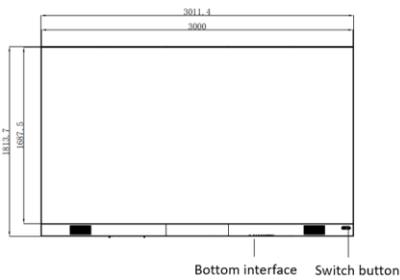


(1-2) UTV SC108 Wall mounted installation

5.2 UTV SC135 Drawings

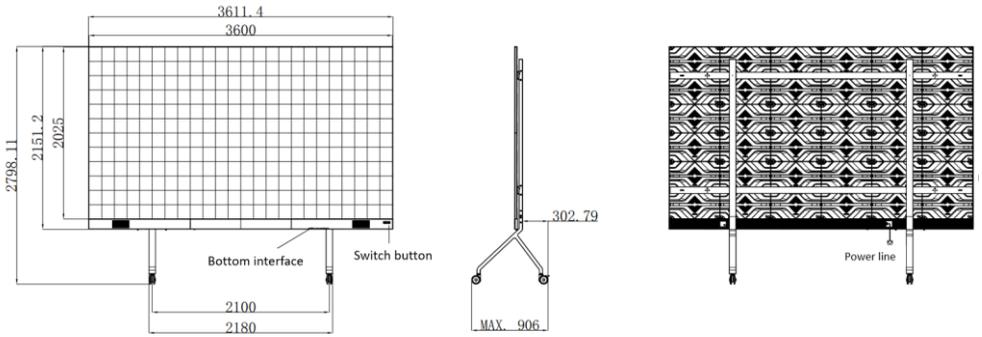


(2-1) UTV SC135 Mobile bracket installation

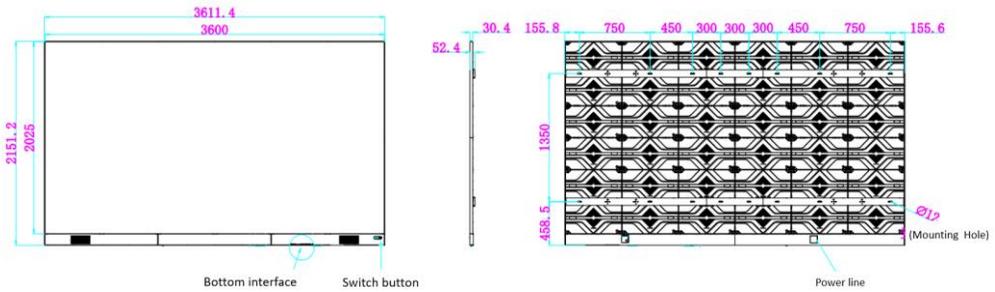


(2-2) UTV SC135 Wall mounted installation

5.3 UTV SC162U Drawings



(3-1) UTV SC162U Mobile bracket installation



(3-2) UTV SC162U Wall mounted installation



Contact Information

Shenzhen Headquarters

Headquarter Address: No. 112 Yongfu Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen

Pingshan manufacturing center: No. 6 North Lanjing Road, Pingshan New District, Shenzhen

Daya Bay manufacturing center: Longsheng Fifth Road, western Daya Bay, Huiyang District, Huizhou.

Telephone (switchboard): + 86- (0) 755-29918999

Fax: + 86- (0) 755-29912092

Website: www.unilumin.com

Service Department Tel: + 86- (0) 755-29592226 (direct line-24-hour service hotline: 400-677-3888)

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