



# X-SERIES USER MANUAL

for models AVX-1320 & AVX-1380

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## COMPLIANCE INFORMATION

### Declaration of Conformity

Avocor hereby declares that the following Product Model Numbers:

AVX-1320 & AVX-1380 conform to the provisions of the following regulations:

PENDING

### CAUTION

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

### WARNING

This is a Class A product. In a residential environment, running this equipment may cause radio interference.

### Industry Canada (ICES-003)

PENDING

### Product Disposal

The Product contains small amounts of tin, lead, and/or mercury. Disposal of these materials may be regulated due to environmental considerations.

## DISPOSAL OF OLD ELECTRICAL AND ELECTRONIC EQUIPMENT

Applicable throughout the European Union and other European countries with separate collection programs.



This symbol, found on your product or its packaging, indicates that this product should not be treated as household waste when you wish to dispose of it. Instead, it should be handed over to an applicable collection point to recycle electrical and electronic equipment. By ensuring that this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate disposal of this product.

The recycling of materials will help to conserve natural resources. This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct disposal method.

# INTRODUCTION

The Avocor X Series breaks new ground in display technology. Its innovative tiled wall design, available in 132" and 138" sizes, overcomes traditional installation challenges, making it perfect for any space. This series isn't just about size; it's about transforming environments with a brilliant, seamless visual experience, ideal for places where lighting and visual impact are key. It's more than a display—a bold statement in visual innovation.

## ABOUT THIS MANUAL

This user manual was written to help you get the most out of your display. In addition to detailed descriptions of the display and its features, this guide will walk you through the installation and setup processes while also providing tips, tricks, and best practices on how best to utilize the display.

We make every effort to ensure that this manual is accurate as of the date it was printed. However, it may require periodic updating due to ongoing product improvements and customer feedback. Find the latest version of our manuals at [Avocor.com](http://Avocor.com).

## TEXTUAL CONVENTIONS

The following textual conventions are used in this manual to denote certain actions or information for clarification purposes. Here are the details:

- Remote control and display keypad controls are set in CAPS. For example, "Press OK on the remote control to accept your changes."
- Menus in the OSD and computer interface are in **bold**. The ">" symbol is used to help denote submenu navigation. For example, "Open **Display > Picture > Advanced Settings** to adjust various picture settings."
- Keyboard keys with functional names are capitalized and set in <Angle Brackets>. For example, "press <Enter> to make your selection."

In addition to the above, underlining, *italics*, or a combination of the two are used periodically to help emphasize key points in the text of this manual.

## GRAPHIC CONVENTIONS

The following symbols may appear throughout this manual to emphasize key points. Keep these in mind not only to benefit from their advice but also to avoid problems with the display or personal injury.



TIP — Highlights helpful guidelines and best practices for using certain features.



NOTE — Provides supplemental information and emphasizes text of special significance.



CAUTION — Alerts that given actions may degrade the performance of the display or cause a malfunction.



WARNING — Alert that a given action may result in damage to equipment or personal injury.



DANGER — Alert that a given action may cause serious personal injury or death.

**Note:**

The possibility of damage to the device and the inability to recover due to ignoring the contents of this warning is extremely high. It is also highly probable that you will not be able to get the best display effect if you ignore the content of this notice.

1. Do not invert and throw the equipment during handling and storage.
2. Do not tilt and collide to scratch the equipment during the installation process.
3. Do not drench and immerse the equipment in water.
4. Do not enable the air outlet of the air conditioner close to the display screen.
5. Do not place or use the display in an environment with volatile, corrosive, or flammable chemicals.
6. Do not use the equipment in humid conditions above 80% or on rainy outdoor days.
7. Do not clean the display equipment with water and chemical solvents.
8. Do not use electrical accessories that are not certified by the equipment manufacturer.
9. It must be ensured that the display and its accessories are properly and reliably grounded before use.
10. If an abnormality occurs in the display, such as abnormal smell, smoke, electric leakage, or temperature, please cut off the power immediately and then contact the professional.
11. This device has two input sockets that need to be disconnected at the same time to disconnect the power supply from the device. The AC power for the device shall be 100-240V.
12. This product is an indoor product. It is strictly prohibited to use it in direct sunlight.
13. Wear anti-static gloves and anti-static bracelets during installation and maintenance.
14. Smooth airflow on the back of the display must be considered when designing the heat dissipation scheme.
15. The storage environment of the display should be ventilated and dry, and the humidity should not exceed 85%.
16. Under normal circumstances, the display must be powered on and turned on at least twice a week, and each lighting time shall not be less than 2 hours.
17. If the display is installed in the seaside, saline-alkali area, sulfur-containing gas area, places near kitchen smoke exhaust, or with large indoor and outdoor temperature differences, it may cause equipment failure and affect the service life. If it is inevitable, please consult our professional and technical personnel.
18. This product is only for use at altitudes not greater than 5000m.
19. The working environment of the display should not exceed - 10 ~ 40 °
20. In order to ensure a long-term and more uniform display effect, do not play fixed images for a long time.
21. For enhanced safety, it is advisable to switch off the LED display using either the designated button or the remote control before a power outage occurs.

## WHAT'S IN THE BOX?

- Avocor X-Series Interactive Display
- Quick Start Leaflet with QR code
- (1) Remote Control & Batteries
- Removal Tool
- Wall Mount
- Power Cables
  - US Cable
  - UK Cable
  - EU Cable
  - AUS Cable
- Spare LED Modules

## SPECIFICATIONS

	AVX-1320	AVX-1380
Diagonal Size (Inches)	132"	138"
Pixel Configuration	Single SMD	
Pixel Pitch	1.27mm	1.58mm
Resolution	2400 x 1080	1920 x 1080
No. of Cabinets per Screen (W x H)	5 x 4 (20)	5 x 5 (25)
Cabinet Material	Die-cast Magnesium	
Screen Dimensions	3064 × 1489 x 31mm 120.6" x 58.6" x 1.2"	3064 × 1832 × 31mm 120.6" x 72" x 1.2"
Screen Surface Area	3050 x 1372 x 31mm 120" x 54" x 1.2"	3050 x 1715 x 31mm 120" x 67.5" x 1.2"
Screen Weight	Net 108kg = 238 lbs	Net 135kg = 297.6 lbs
Recommended viewing distance	>2.5m	>3.8m
Service Access	Front	
Installation	Stand, Wall	
Optical Specifications		
Max. Brightness after calibration	100-550cd/m2	
Color Temperature	2300 – 9300k adjustable	
Visual Viewing Angle (Horizontal)	170°	
Visual Viewing Angle (Vertical)	170°	
Brightness Uniformity	98%	
Color Uniformity	+/-0.15 Cx, Cy	
Contrast Ratio	6500:1	
Processing Depth	16 bit	
Connectivity		
Front Inputs	1 x USB-C (no PD), 1 x USB-A 3.0, 1 x USB-A 2.0	
Bottom Inputs	1 x HDMI 2.0, HDCP 2.2, 1 x 3.5mm Aux	
Internal Inputs	2 x HDMI 2.0, HDCP 2.2	
Control	1 x RS-232, 1 x LAN (RJ45)	
WiFi	Yes	
Audio		
Audio	1 x optical (SPDIF)	
Speakers	2 x 30W forward facing	
Electrical Specifications		
Max Power Consumption	1.84KW	1.87KW
Avg. Power Consumption	0.63KW	0.64KW



Power Supply	AC 100 V ~ 240 V, 50/60 Hz
Stand-by Power	<=0.5W
Refresh Rate	3,840 Hz
Operation Specifications	
Lifetime (Half Brightness	>=100,000 hrs
Operating Temperature	10°C ~ 40°C
Operating Humidity	10%~80%RH (Non-condensing)

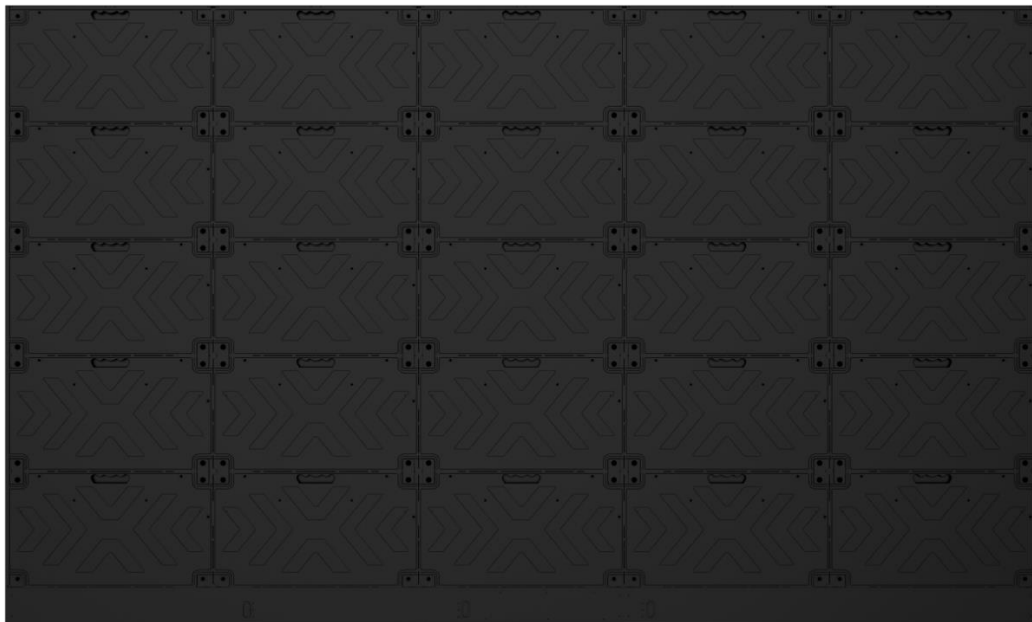
## THE DISPLAY

The following diagrams depict the front, side, and bottom panels of the display. The physical interface and connections are labeled and then described in the tables that follow.

### DISPLAY FRONT



### DISPLAY BACK



\*The back of the product is illustrated for the 138-inch product as an example.

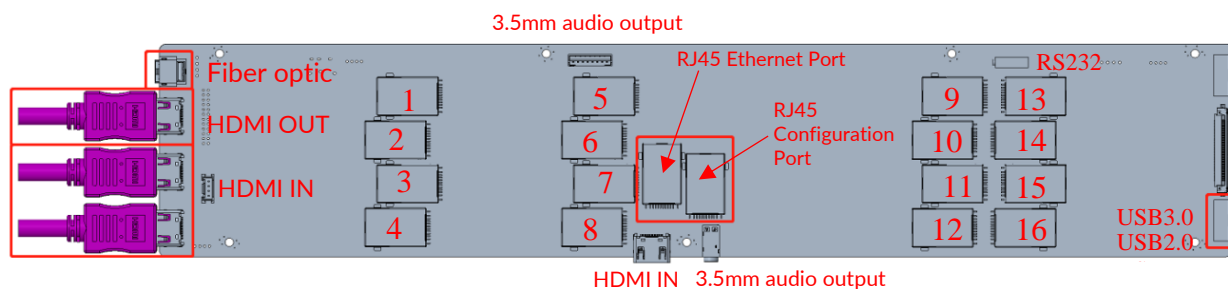
DETAIL: FRONT PANEL BUTTON SENSORS



1.	Light sensibility
2.	IR
3.	Type C port
4.	USB 3.0 port
5.	USB 2.0 port
6.	Menu call-up key (inc. brightness, color temperature, contrast, sound, signal source, and test mode sub-menus)
7.	Menu call-up key (inc. brightness, color temperature, contrast, sound, signal source, and test mode sub-menus)

8.	<ol style="list-style-type: none"><li>1. Brightness reduction key under brightness adjustment mode</li><li>2. Down/Minus key under menu call-up mode</li></ol>
9.	<ol style="list-style-type: none"><li>1. Brightness increase key under brightness adjustment mode</li><li>2. Up/plus key under menu call-up mode</li></ol>
10.	Standby/wake-up key
11.	Bi-color indicator lamp (red/blue)
12.	HDMI input port (toward the bottom)
13.	3.5mm audio output port (toward the bottom)
14.	Built-in two*30W stereo that supports 2.0 channels

## INTERNAL INTERFACES

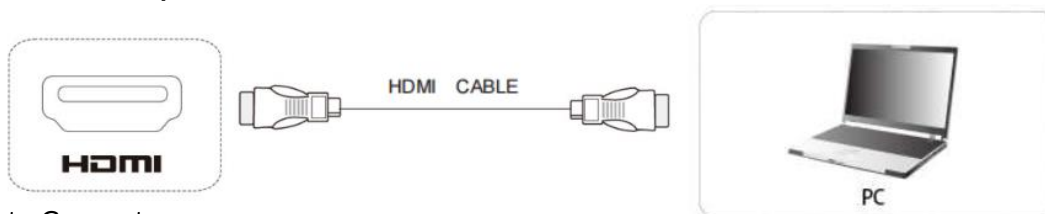


Input Interfaces	
Type	QTY
HDMI OUT	1
HDMI IN	3
RJ45 Ethernet Port	1
RJ45 Configuration Port	1
3.5mm audio output	2
RS232 communication interface	1
Fiber optic digital audio output	1
USB 2.0	1
USB 3.0	1
USB-C	1

## EXTERNAL INTERFACES

The number of ports and type of the device are subject to the real product received. Our description here is for illustration only.

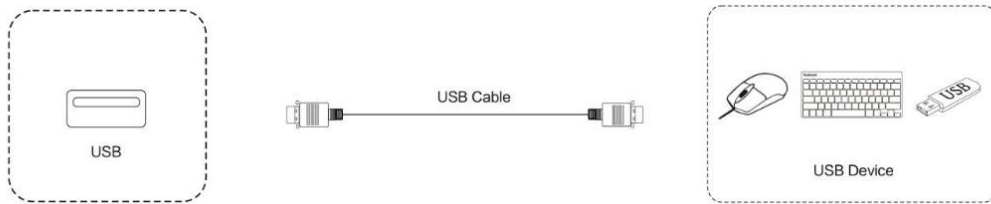
### Connect HDMI input



How to Connect:

1. Use an HDMI cable to connect to your computer or other device having HDMI output.
2. Press the channel switch key (on the machine or remote control) to switch to the HDMI display channel.

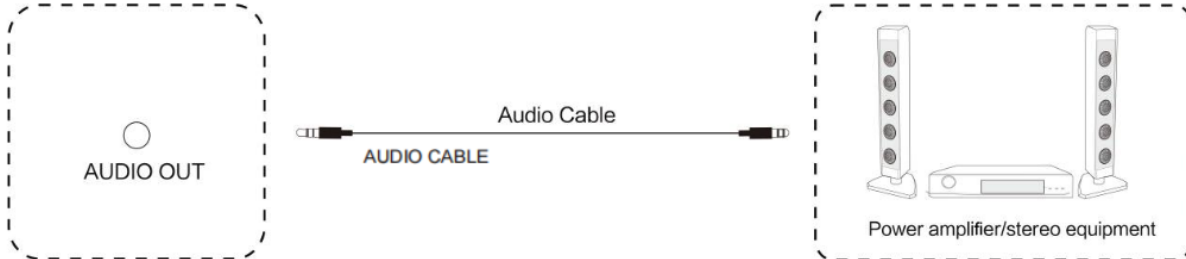
## USB Input/TYPE-C input



How to Connect:

1. Connect the USB disk, mouse, and keyboard to the USB / type-c interface.
2. The mouse and keyboard can be directly used after they are connected to the USB/TYPE-C interface.
3. To view the contents of the USB disk, enter the explorer on the system home screen and read the file.

## Output video signals



How to Connect:

1. Connect one end of the audio cable to the 3.5mm audio output port and the other end to the amplifier, stereo, headphones, and other devices.
2. You may use the remote control to control the volume of the audio sound output.

# THE REMOTE CONTROL



Icon	Description
	Standby/Wake-up
	Up
	Down
OK	Enter
	Left
	Right
+	Volume +
-	Volume -
	Return
	Brightness adjustment
	Menu
	Home screen

## REMOTE CONTROL BATTERIES

To install batteries in the remote control:

1. Press down the tab on the cover plate and pull the cover plate up.
2. Insert the included batteries. Ensuring that the polarities correctly match the (+) and (-) markings inside the battery compartment.
3. Insert the lower tab of the cover into the opening and press down the cover until it clicks in place.



### Notes on Batteries

- Please only use approved AAA-type batteries.
- Do not mix an old battery with a new one or different types of batteries.
- If you do not use the remote control for a long time, remove the batteries to avoid damage from battery leakage.
- Do not expose batteries to excessive heat, such as from sunshine, fire, or the like.
- Don't recharge, heat, disassemble, short, or throw batteries into a fire.



### Notes on Remote Control Operation

- Make sure that there is nothing obstructing the infrared beam between the remote control and the IR receiver on the display.
- If the effective range of the remote control decreases or it stops working, replace the batteries with new ones.
- The remote control may fail to operate if the infrared remote sensor is exposed to bright sunlight or fluorescent lighting.
- Ambient conditions may possibly impede the operation of the remote control. If this happens, point the remote control at the display and repeat the operation.



### Remote Control Sensor

- The effective area of the remote control includes the vertical distance within five meters in front of the display and the area within an angle of 30 degrees from the vertical point to the left and the right.



## PRECAUTIONS

### INSTALLATION PRECAUTIONS

Thank you very much for choosing our products. Please go through this instruction before starting the LED display operation.

1. When goods are received, please first check that the items received are consistent with the inventory shown in the *Packing List* packed along with the product.
2. Before the installation, please carefully read the *installation diagram* and *system diagram* of the product /project.
3. The *installation diagram* shows precautions taken during the installation of the screen. Panels are to be installed in strict accordance with the location required in the *Installation Diagram*.

**NOTE:** Please note the view orientation of installation drawings.

4. The *system Connection Diagram*, which shows the detailed requirements of the display power supply and signal connection, needs to be strictly followed in operation.

**NOTE:** If tiles need to be removed when installing panels, it is advised to record the location of removed tiles and accordingly put back tiles to avoid calibration data confusion and undesired display effect resulting from the wrong location of tiles. Tiles marked A and B need to be in the right location as required to avoid display fault resulting from misplacement.

5. Please purchase and lay out cables according to the International Electrotechnical Commission (IEC) or local national standards that are equivalent to the IEC standard and ensure that the wiring personnel are qualified for the work;

**WARNING:** If the product is damaged due to cable quality problems or failure to observe wiring requirements by relevant standards, we will not be responsible for the warranty but will provide paid maintenance service;

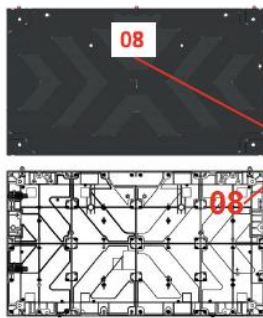
# CABINET & TILE PRECAUTIONS

## INSTALLATION PRECAUTIONS FOR CABINET & TILE

V1.0

Note: In order to ensure the display effect, cabinets and tiles must be installed by serial numbers. Following example takes the spliced screen with 5 rows and 5 columns to illustrate, which can provide reference for other screen installation of same series with different specifications.

### I CABINET NUMBER



Cabinet number  
(number stickers will  
be found on both  
sides of cabinet)

▲ 08: The number 8 cabinet on the screen.

### II TILE NUMBLE

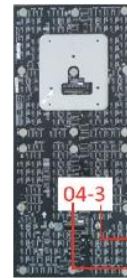


Cabinet Tile  
Number Number

1	2	3	4
5	6	7	8

Tile Number On Each Cabinet  
(Front View)

▲ 08-6: The 6th tile on cabinet no.8.



1	2	3	4
---	---	---	---

Tile Number On Each Cabinet  
(Front View)

Tile Number

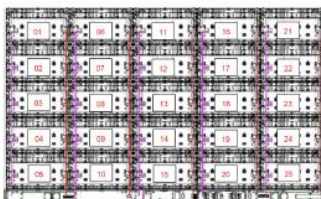
Cabinet Number

▲ 04-3: The third tile on cabinet no.4.

### III CABINET INSTALLATION



Screen Back View



Screen Front View

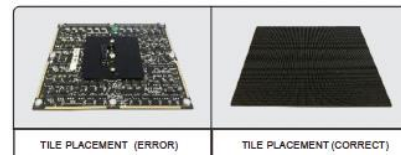
▲ The installation position of each numbered cabinet in above two diagrams.

### IV TILE INSTALLATION

1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8

▲ The installation position of each numbered tile on each cabinet.

### V TILE PLACEMENT



TILE PLACEMENT (ERROR)

TILE PLACEMENT (CORRECT)

▲ Tile shall be taken out from the packing box or removed from the screen carefully to keep the LEDs surface upward.

6. The communication line of the product uses CAT5E cable; please select the cable in line with the requirements of TIA / EIA standards and conduct wiring as required.

**NOTE:** Due to the inconsistent performance of different network cables on the market, it is recommended to purchase network cable from our company to ensure proper functioning of the product;

7. For the communication cable without aviation plugs, please fix the signal cable firmly near the signal port of the module control board during wiring with cable ties provided in spare parts;
8. For the products with terminals, cascade power cables for panels are provided. And please fix the cable according to the cable color defined by the label;

## ADJUSTMENT PRECAUTIONS

1. Make sure all cables are properly wired before powering the display.
2. When the display total power is above 30KW, it is recommended to power the display part by part to avoid undesired effects of excessive current on the power grid and display;
3. Control software and player need to be properly installed on the computer, and the cables of the control system need to be properly connected.

**NOTE:** All the necessary software and related instructions are kept in USB, and it is recommended to back up a copy on the computer for any contingency;

## OPERATION PRECAUTIONS

Before operating the display, you need to know the following information: LED display is a complex system, including a number of electronic components, mechanical structure, hardware control system, software control system, etc. Adjustment and inspection of the product is a must procedure and have been finished before delivery. However, due to transportation, assembly at the site, wiring, etc, some problems may occur during first use. Please carefully check and debug the product to ensure normal functioning;

**WARNING:** Please follow the dehumidifying procedures below when you first use the display or if it is not used for more than seven days. The following are dehumidifying procedures:

Set the display brightness in the range of 20-30%, and preheat for at least 12 hours, during which time please play the ordinary video; then adjust the display to normal brightness to rectify normal use.

**WARNING:** Do not turn the display to a completely white image during the dehumidifying procedures; otherwise, permanent damage may be caused to the display.

**WARNING:** For later display operation process, if the screen is not used for more than three days, preheating is necessary for each power-on operation: preheat the display under 30% brightness for 6 hours, and then adjust it to normal brightness, which will remove the humidity;

## MAINTENANCE PRECAUTIONS

After a period of use, if the display needs repairing, spare parts can be used to replace broken ones; if there are problems that cannot be fixed on your side, please contact our sales representatives or after-sales service staff.

When our maintenance personnel are needed to help repair or maintain the display, please provide the following information to assist maintenance personnel with fault analysis:

1. Please check the label attached to the back of the panel to find the project identifier.
2. You need to briefly describe the problem. Any photo or video will help us quickly and effectively tell the failure reason, thus solving the problem as soon as possible;

**WARNING:** Do not mix the spare parts of the display for different projects together to avoid malfunction.

# PRODUCT INSTALLATION

## INSTALLATION ENVIRONMENT

1. For wall mounting, the wall should be a load-bearing structure. Installation on special wall structures such as glass, marble, porcelain, or hollow walls may result in additional costs as these structures cannot bear the weight of the product and may need special installation processes.
2. The installation is limited to punching the load-bearing wall, hanging, or mounting on a vertical bracket; any special installation, such as wall reinforcing or steel structure installation, will be subject to additional cost calculated as actually incurred.
3. We assume no responsibility for any potentially hazardous installation designated by you despite the advice of our installer, nor shall we be held liable for any damage to any other item caused by your use of any non-our company standard/proprietary hanging bracket.

## STRUCTURE INSTALLATION

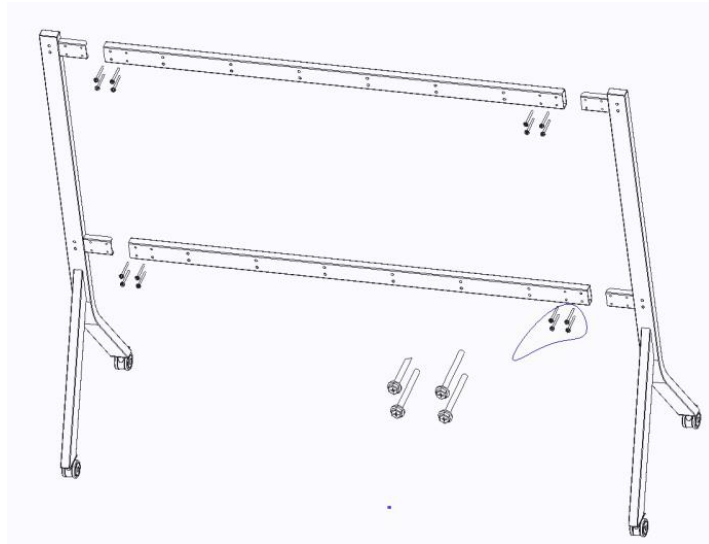


Bracket mounting\*

\*The installation descriptions below are provided for the 138-inch product as an example.

## STEP 1: ASSEMBLE THE BRACKET

1. Find the parts according to the parts breakdown of the bracket assembly, as illustrated below:

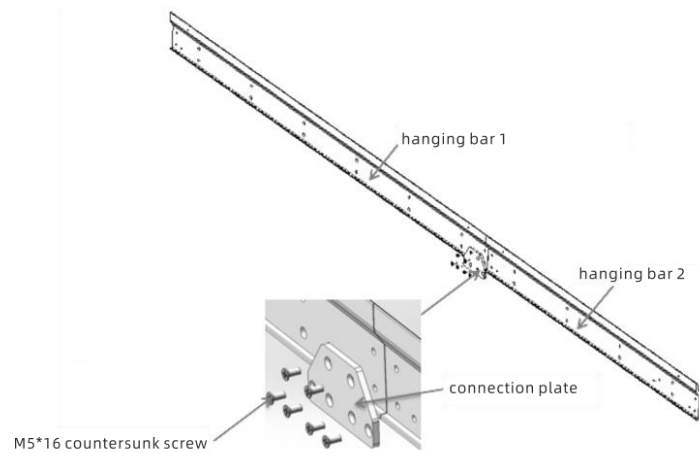


2. Tighten the installation screws with the corresponding tools. The assembled bracket is as shown below:

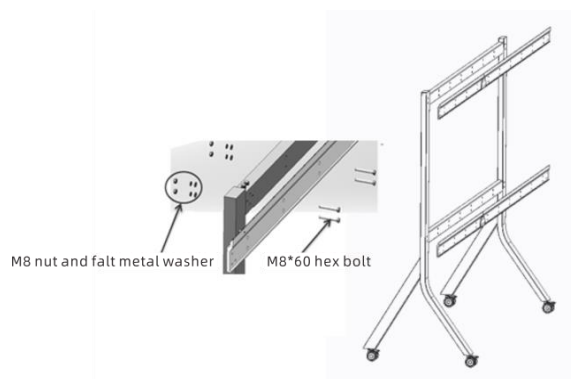


## STEP 2: INSTALL THE HANGING BARS

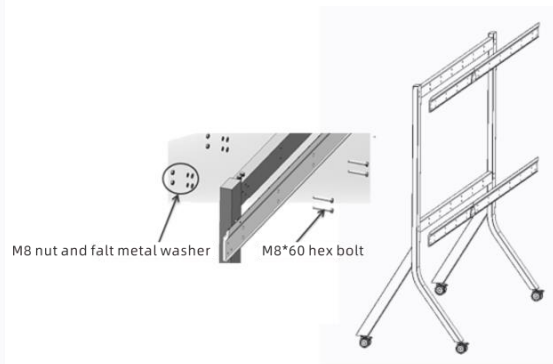
1. Select the corresponding accessories to install the hanging bars, as illustrated below:



2. Install the hanging bars on the bracket, as illustrated below:

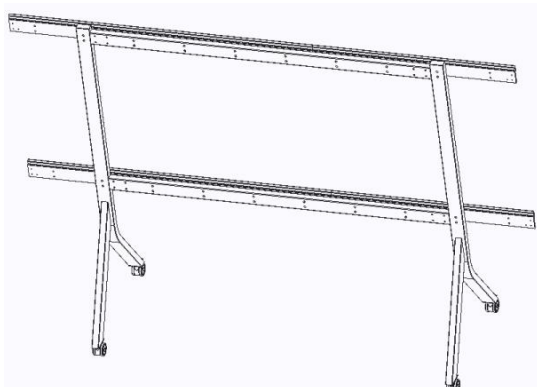


For 132/138/165-inch

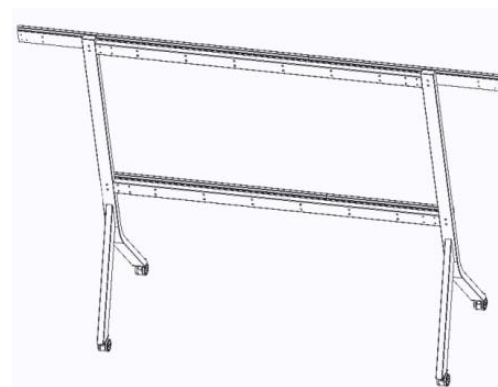


For 120/150-inch

3. The hanging bars and the bracket are assembled, as illustrated below:



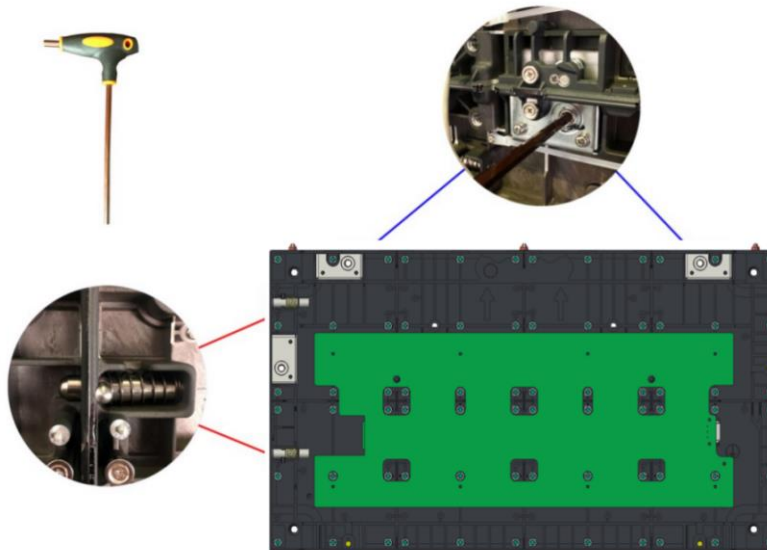
For 132/138/165-inch



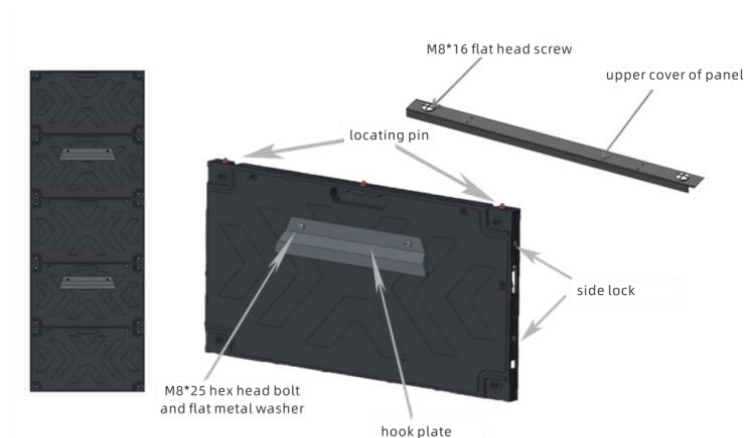
For 120/150-inch

### STEP 3: ASSEMBLE THE PANELS

1. The integrated display is delivered with the panels joined into a column according to their numbers. A total of five columns are joined.
2. Connect the panels with a tool using hook locks on the top and bottom in the position marked in blue and spring side locks on the sides in the position marked in red, as illustrated below:



3. Install the hanging plates on the corresponding panel with two M8\*25 hex head bolts and flat spring washers.
4. Remove the locating pins on the top panels and the spring locating pins on the leftmost column viewed from the front. Then secure the upper edging with a cross screwdriver, as illustrated below:





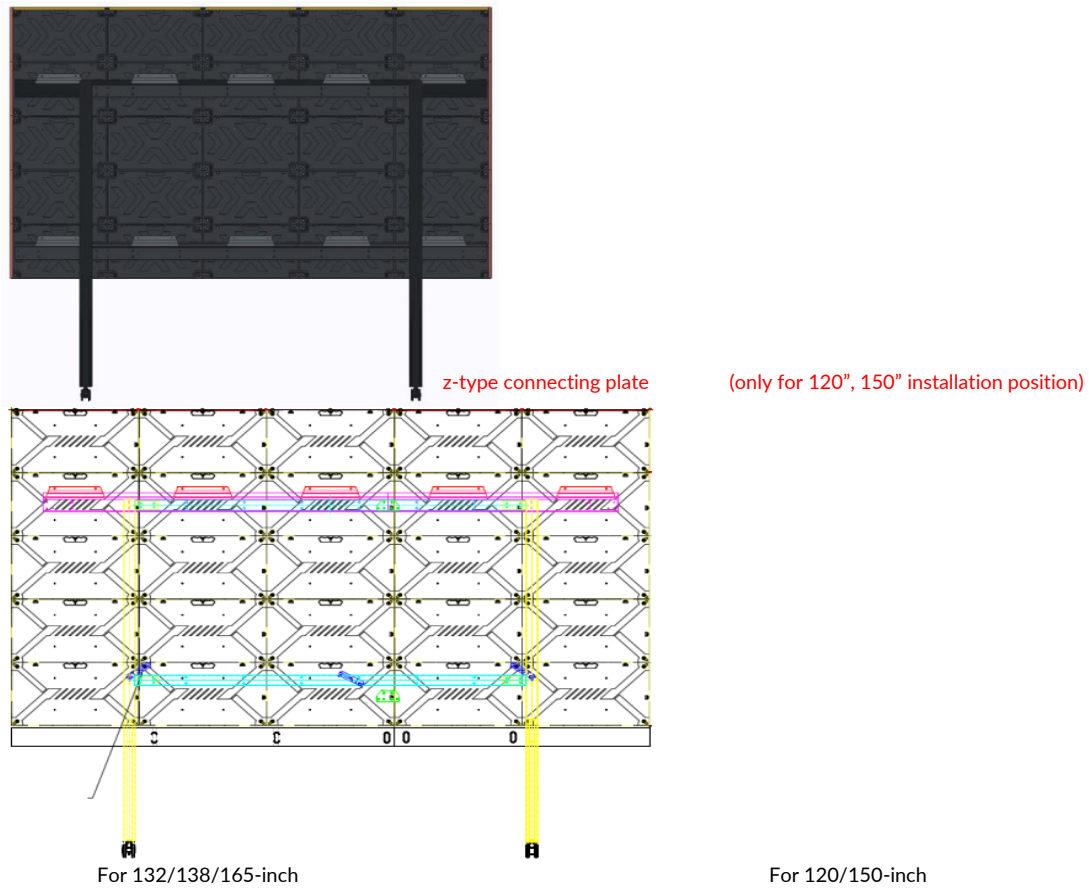
## STEP 4: ASSEMBLE THE ENTIRE MACHINE

\* Make sure that the bracket castors are tightly locked and the hanging bars are level;

1. Hang the panel from center to sides. Place the hanging hook of the panel on the hanging bars of the bracket.
2. Install the adjacent second column so that the hanging hooks are on the hanging bars and the adjacent side planes are closely attached together. Pull out the side spring locating pin and insert the entire pin into the corresponding locating hole. Then rotate the side hook lock with the corresponding hex wrench until the panels in the left and right columns are fully locked, as illustrated below:



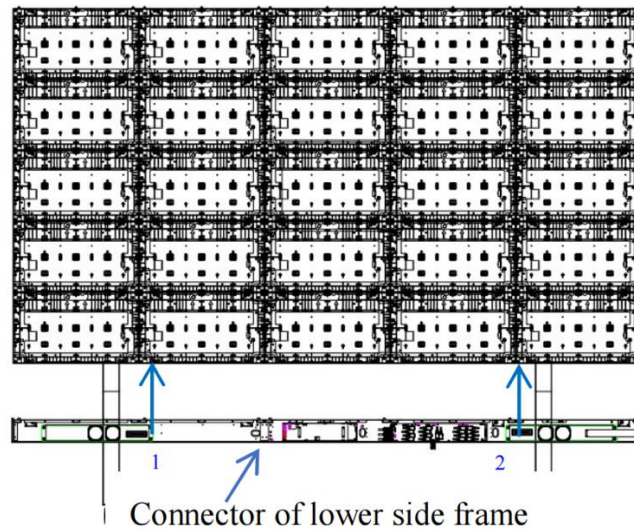
3. Install the panels in the rest of the columns, as illustrated below:



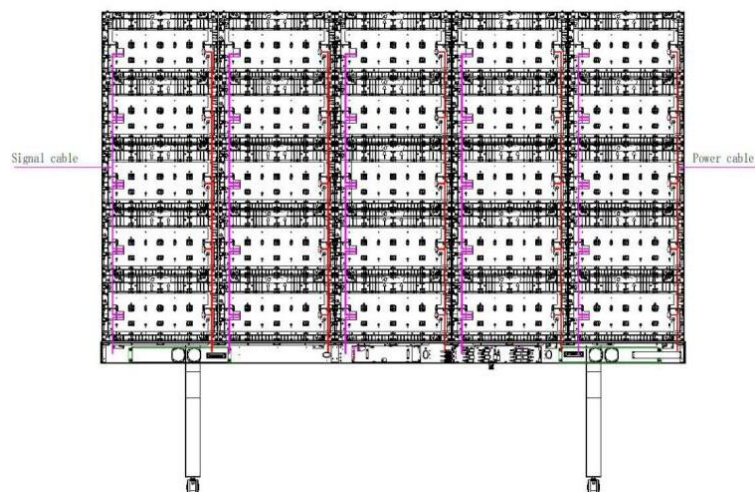
## STEP 5: ASSEMBLE THE LOWER SIDE FRAME

\* The lower side frame assembly is made up of lower frames 1 and 2, connected by a connecting plate.

1. The lower side frame assembly is secured on the lowermost row of panels with rotary hook locks, as illustrated below:



2. Wiring: Red indicates a five-branch power cable, and purple indicates a signal cable (network cable). Connect the power and signal cables between the panels according to the diagram.
3. Then, connect the signal and power cables to the lower side frame assembly. Insert each column of the signal cables into the corresponding columns of sockets according to their respective positions only. Plug in the power cables with 3p plugin connectors according to their respective positions, as illustrated below.



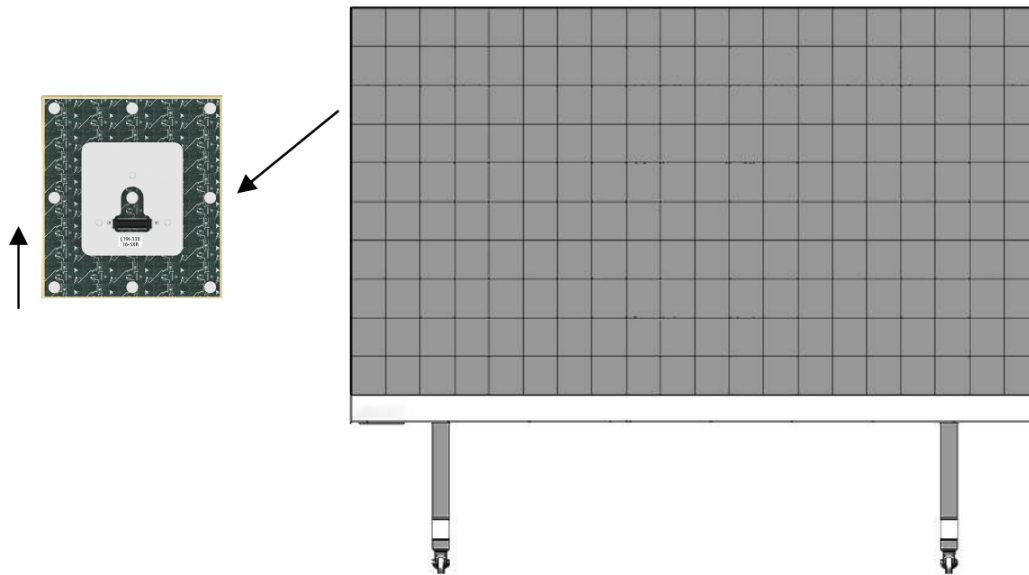
## STEP 6: INSTALL THE MODULES

\* Install the modules from left to right, from right to left, from bottom to top, or from top to bottom as appropriate for the installation environment on the site.

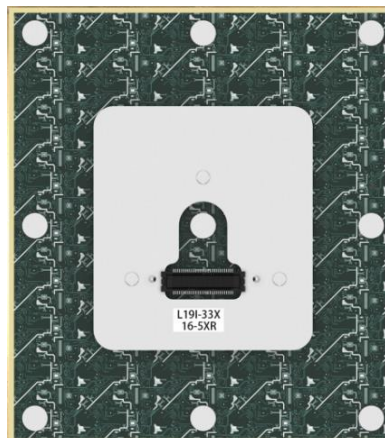
\* Repair any improper flatness during assembly.

1. The modules shall be hard-connected to the hub board and the connectors on the modules.

Use the right strength and avoid forceful insertion during installation, as illustrated below:



2. Serial numbers of panels and modules. Each of the panels is delivered with a number marked on the upper right (on the inside), which represents the installation position of the panel at the time of factory correction. Each of the modules is also marked with a number (on the back). For example, in the number 16-5, 16 means the lamp board is installed in panel 16 at the time of factory correction; 5 means the position inside panel 15.



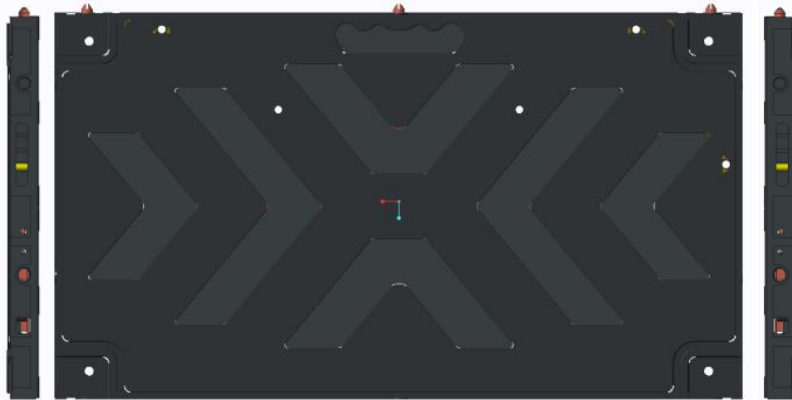
3. To achieve a better display effect, you can install the modules according to their serial numbers at the time of factory correction, as indicated in the diagram.

1-1	1-2	1-3	1-4	01#	6-1	6-2	6-3	6-4	06#	11-1	11-2	11-3	11-4	11#	16-1	16-2	16-3	16-4	16#	21-1	21-2	21-3	21-4	21#
1-5	1-6	1-7	1-8		6-5	6-6	6-7	6-8		11-5	11-6	11-7	11-8		16-5	16-6	16-7	16-8		21-5	21-6	21-7	21-8	
2-1	2-2	2-3	2-4	02#	7-1	7-2	7-3	7-4	07#	12-1	12-2	12-3	12-4	12#	17-1	17-2	17-3	17-4	17#	22-1	22-2	22-3	22-4	22#
2-5	2-6	2-7	2-8		7-5	7-6	7-7	7-8		12-5	12-6	12-7	12-8		17-5	17-6	17-7	17-8		22-5	22-6	22-7	22-8	
3-1	3-2	3-3	3-4	03#	8-1	8-2	8-3	8-4	08#	13-1	13-2	13-3	13-4	13#	18-1	18-2	18-3	18-4	18#	23-1	23-2	23-3	23-4	23#
3-5	3-6	3-7	3-8		8-5	8-6	8-7	8-8		13-5	13-6	13-7	13-8		18-5	18-6	18-7	18-8		23-5	23-6	23-7	23-8	
4-1	4-2	4-3	4-4	04#	9-1	9-2	9-3	9-4	09#	14-1	14-2	14-3	14-4	14#	19-1	19-2	19-3	19-4	19#	24-1	24-2	24-3	24-4	24#
4-5	4-6	4-7	4-8		9-5	9-6	9-7	9-8		14-5	14-6	14-7	14-8		19-5	19-6	19-7	19-8		24-5	24-6	24-7	24-8	
5-1	5-2	5-3	5-4	05#	10-1	10-2	10-3	10-4	10#	15-1	15-2	15-3	15-4	15#	20-1	20-2	20-3	20-4	20#	25-1	25-2	25-3	25-4	25#
5-5	5-6	5-7	5-8		10-5	10-6	10-7	10-8		15-5	15-6	15-7	15-8		20-5	20-6	20-7	20-8		25-5	25-6	25-7	25-8	

Front View

## STEP 7: INSTALL THE LEFT, RIGHT, AND UPPER EDGINGS & THE LOWER SIDE FRAME COVERS

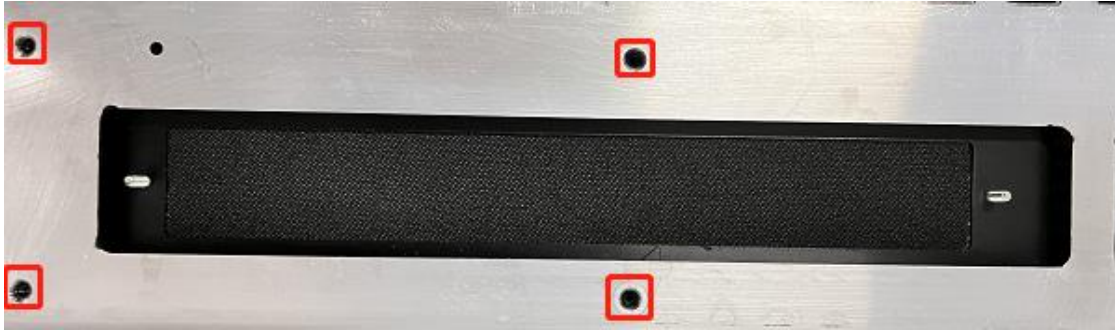
- The left and right edgings are clipped in the side spring locating pinhole with clips (as previously described, the spring locating pin on the left most of the screen should be removed, and an edging should be installed), as illustrated below:



\*The letter "R" on the edging means the right edging; "L" means the left edging (as viewed from the front)

- Antenna board assembly:
  - Remove the four M3\*5 screws that lock the cloth and cover, separate the cloth and cover, and install the WIFI module.





- b. During the wifi module installation, align the holes at both ends with the screw posts. After the wifi module is installed, use M3 hexagon nuts to secure it.

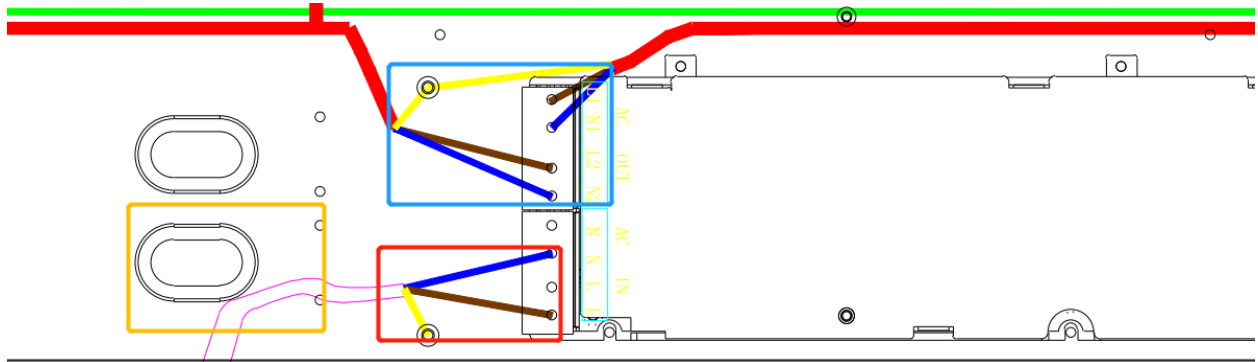


- c. Use M3\*5 screws to lock the wrap and cover.

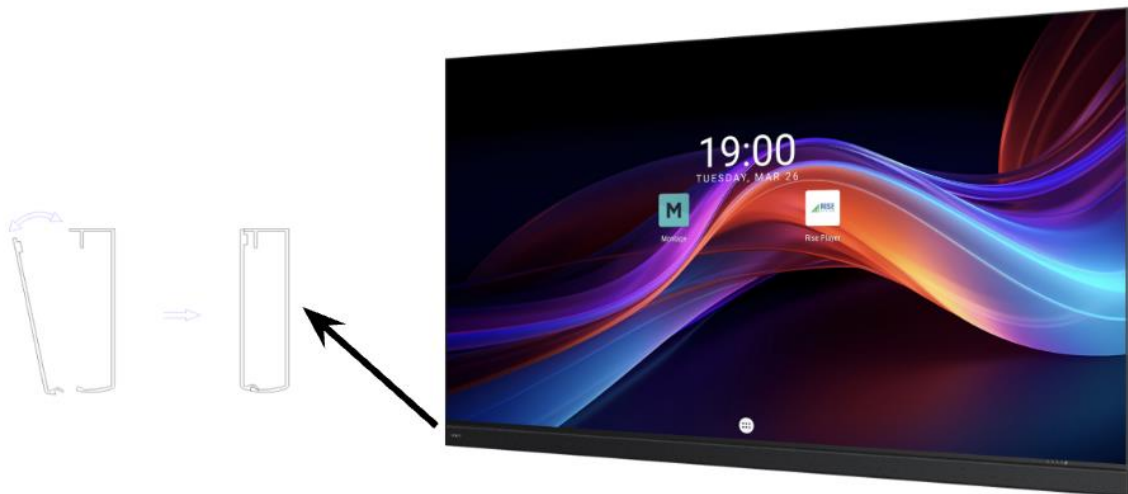


### 3. Power cable installation:

- a. After threading the input power cord through the hole at the back, connect the brown wire to the 'L' (live) terminal, the blue wire to the 'N' (neutral) terminal, and attach the yellow ground wire appropriately. The red frame indicates the entry point for the power line, while the blue frame designates the output for the three-in-one board power cable. The power cable should exit the control box through the hole marked by the yellow box.



4. Install the lower side frame covers from left to right according to their respective positions indicated on the installation diagram and secure them with a cross screwdriver and M3\*8 black countersunk head screws. The installed covers are as shown below:



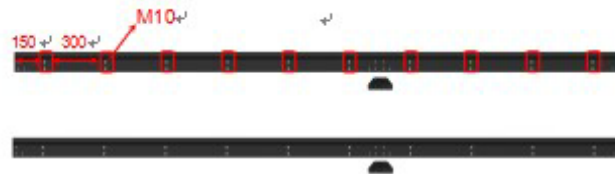
# WALL MOUNT INSTALLATION

## INSTALL THE HANGING BARS

1. Determine the punching positions for the upper and lower hanging bars according to the site environment and the height of the screen above ground. Use a level gauge to ensure levelness.
2. The upper and lower hanging bars are each made up of hanging bars 1 and 2 connected by connectors. Connect the connectors with six M6\*16 countersunk head screws.



3. The punching positions for hanging bars 1 and 2 are as shown below:

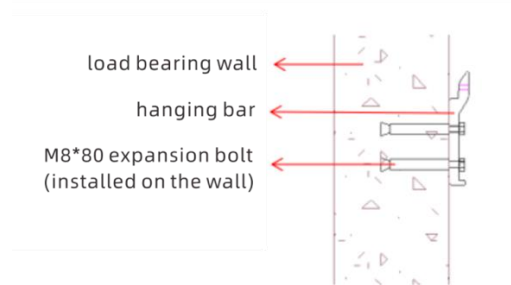


4. Mark the corresponding hole positions. Punch at the marked points with a tool. Each hole is sized 10 mm in diameter.
5. Install at the corresponding hole positions with M8\*80 expansion bolts. The expansion bolts are as shown below:

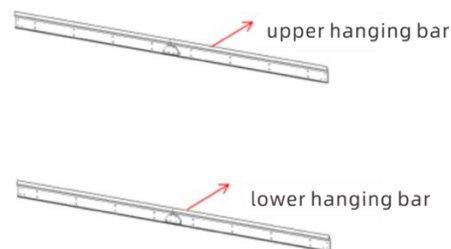


6. Side profile of the installed hanging bars:





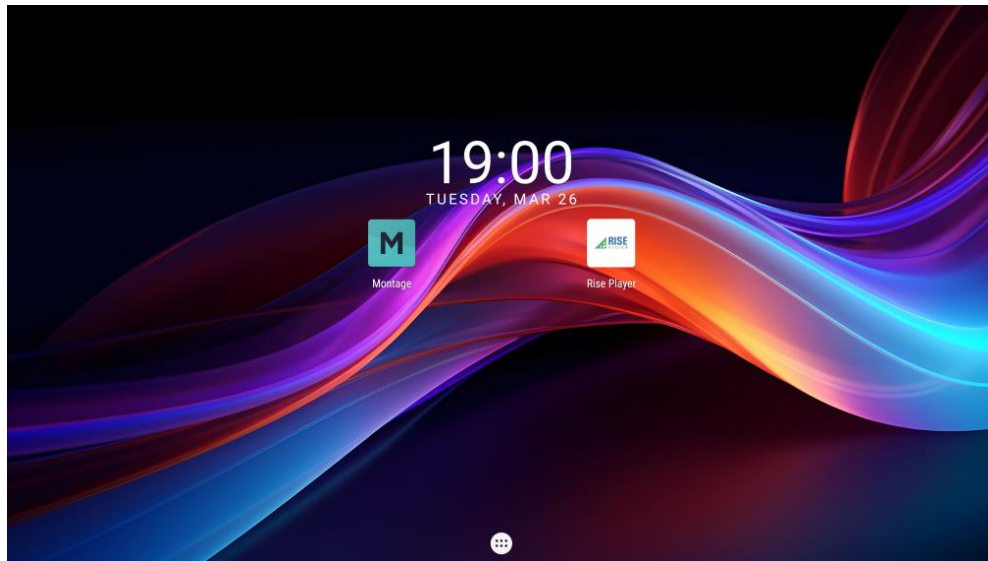
- a. The front views of the installed hanging strips are as shown below:



- b. Check that the hanging bars are installed properly. You need to confirm 1) whether it is level and 2) whether the upper and lower hanging bars are properly spaced apart. You may use the following method to check and adjust:
- ① Use a level gauge to check whether the hanging bars are level and adjust them. Loosen the expansion bolts, push the bars to level with the hand, and tighten the bolts.
  - ② Use a tape measure to check whether the two rows of hanging bars are correctly spaced apart and adjust them. Loosen the expansion bolts, push the bars gently with the hand to fine-tune the space, and tighten the bolts again.
- c. Install the panels by following the installation procedure described for bracket mounting.

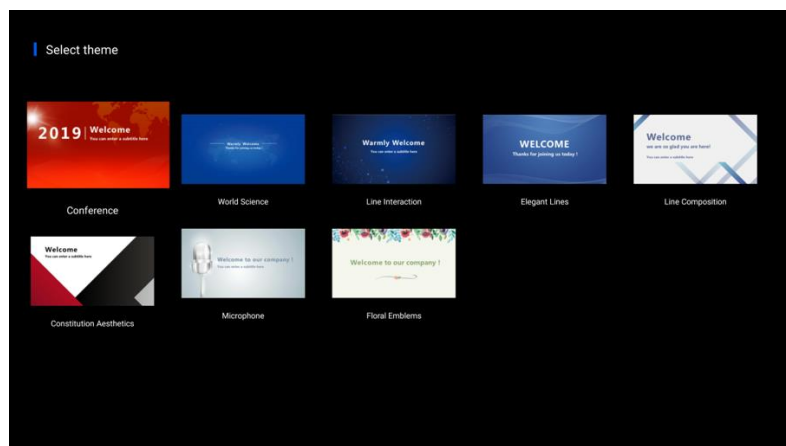
# OPERATION

## HOME SCREEN

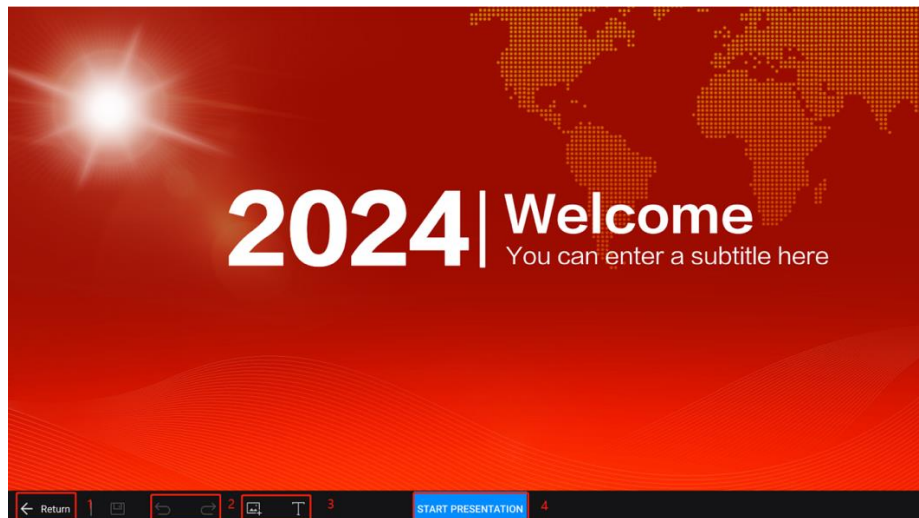


1. Montage is used to enter the wireless screen share operation window.
2. Rise Player is used to enter the cloud-based digital signage software.
3. More apps are used to enter the more apps screen.

## LAUNCH SCREEN

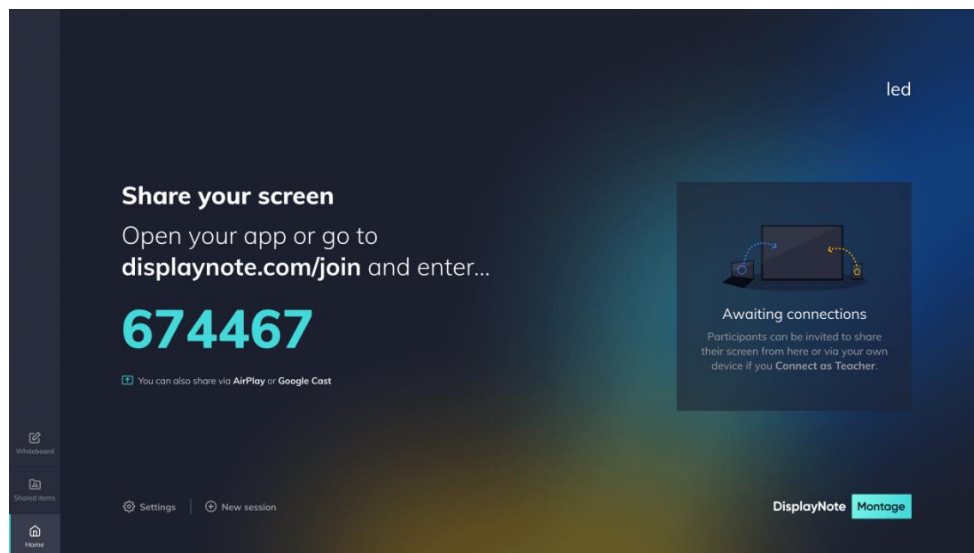


1. Welcome is a variety of built-in style template software used to customize pictures and launch addresses or modify the style, color, or position of texts, making your launch address simpler and more creative.
2. Click "OK" to enter the display page.



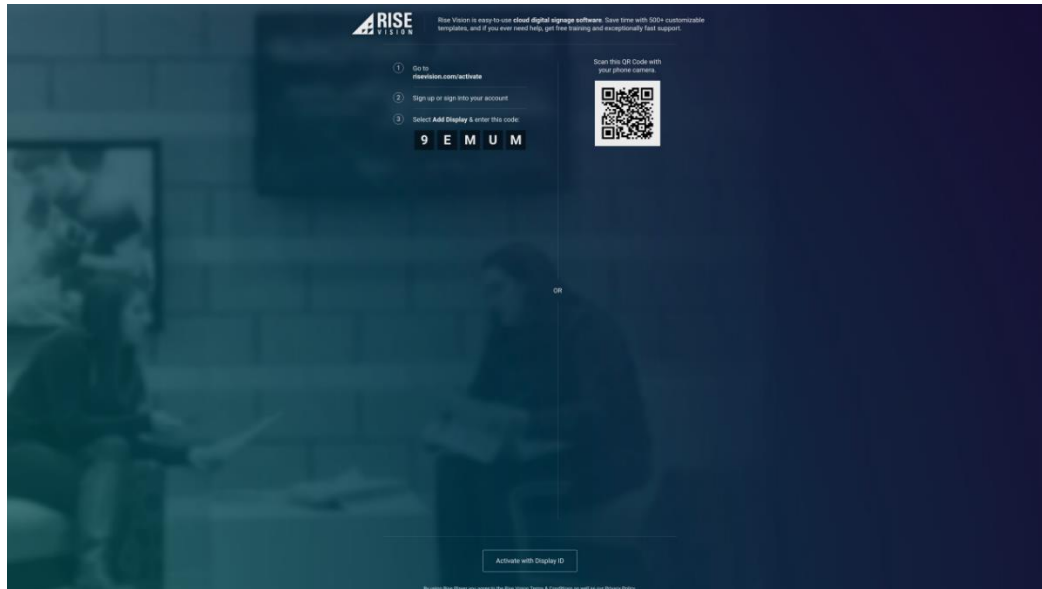
1. Click "Return" to return to the previous page.
2. Cancel/Resume
3. Edit a picture or file (preferably with the mouse and keyboard).
4. "START PRESENTATION" button, used to start full-screen display.

## WIRELESS SCREEN SHARE



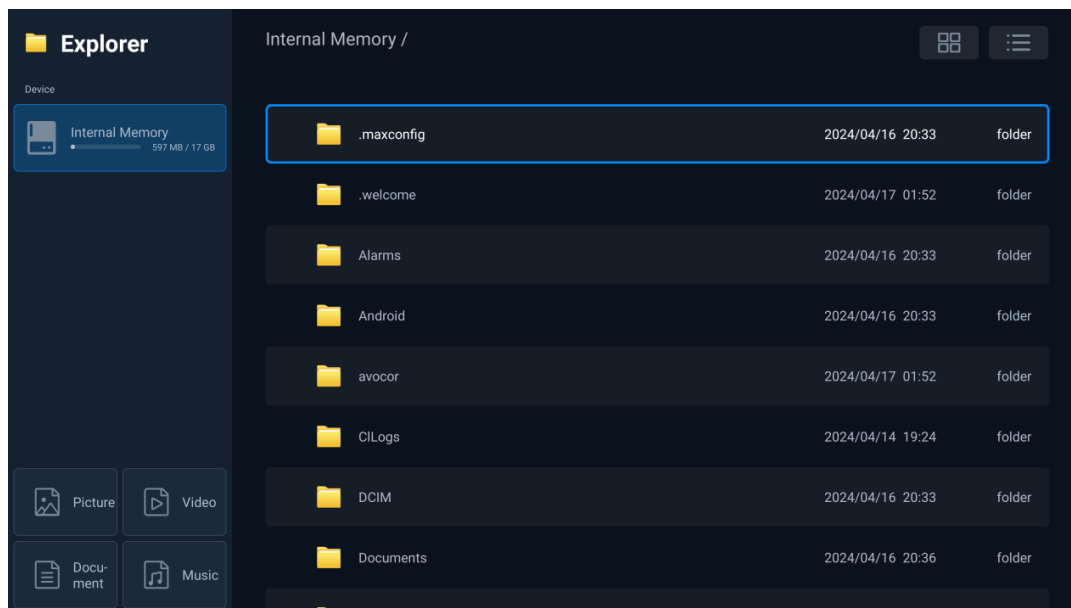
Montage enables wireless presentations from laptops or smartphones, allowing up to four participants to cast simultaneously from any device and any network.

## RISE PLAYER



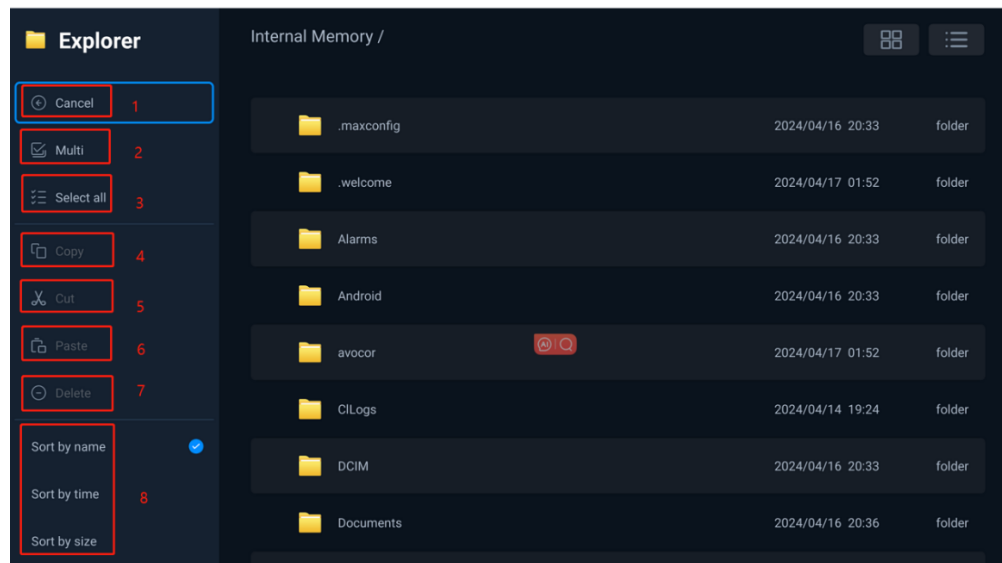
Rise Player is an easy-to-use, cloud based digital signage software that is compatible with any player across multiple screens. It offers over 500 customizable templates and ensures a user-friendly experience with easy setup, scheduling, and content management.

## EXPLORER



Explorer Home Page

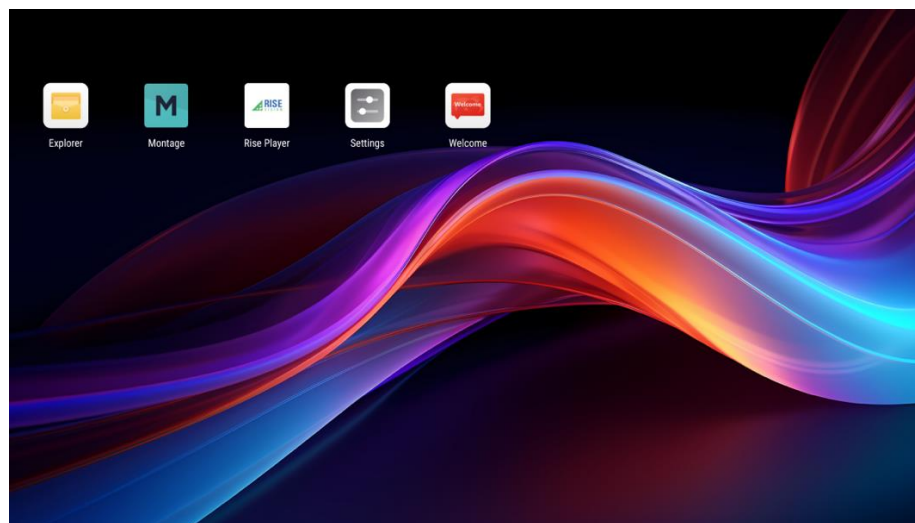
1. Display the USB disk(s) mounted
2. Browse files by category (pictures, videos, documents, music)
3. Switch the file display mode
4. Open the menu



Explorer Menu

1. Cancel: Cancel the operation
2. Multiple Choice: More than one file can be selected for operation
3. Select All: Select all files
4. Copy: Copy the file
5. Cut: Cut the file
6. Paste: Paste the file
7. Delete: Delete the file
8. Sort: Supports the sorting of files by name, time, or size

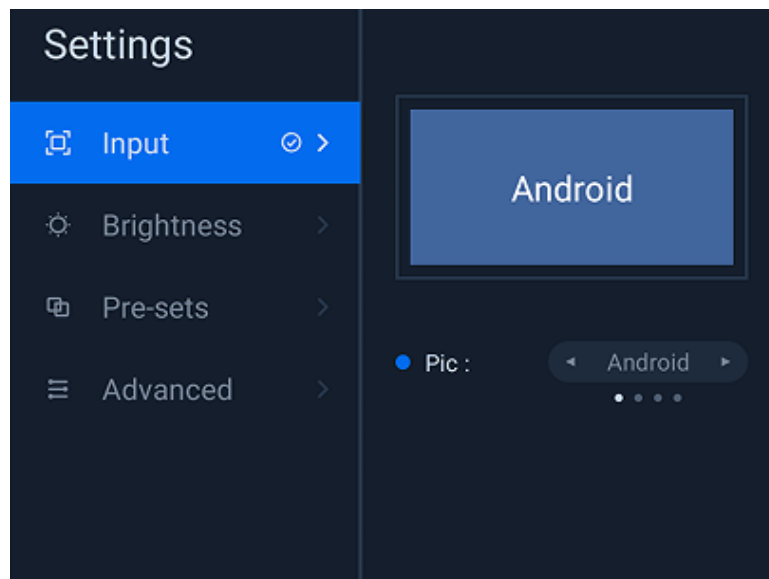
## MORE APPS



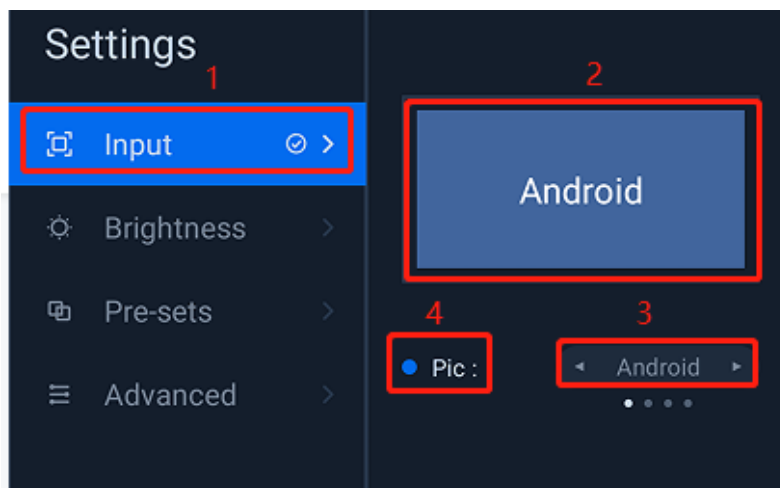
Enter the More Apps page to view the software programs currently installed on the machine.

## FUNCTION MENU

Use the option key on the remote control or keypad to call up the menu:



## FULL-SCREEN MODE

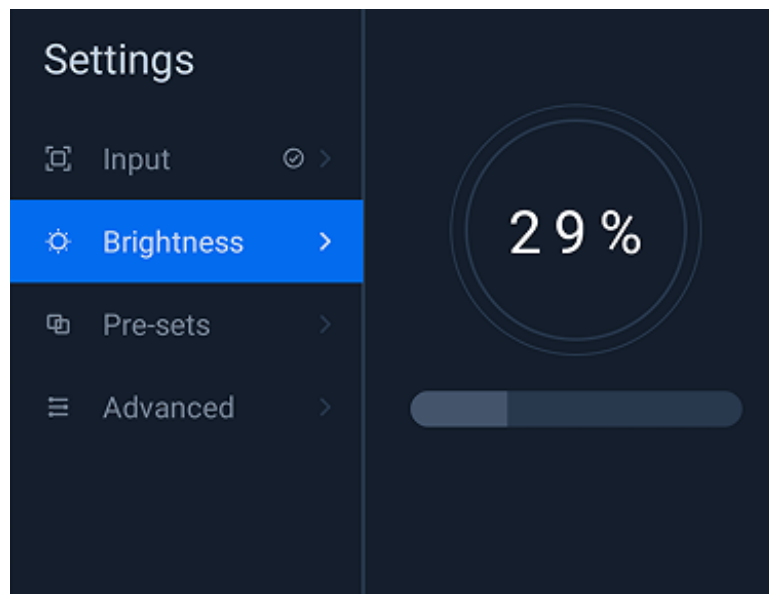


Full screen mode screen\*

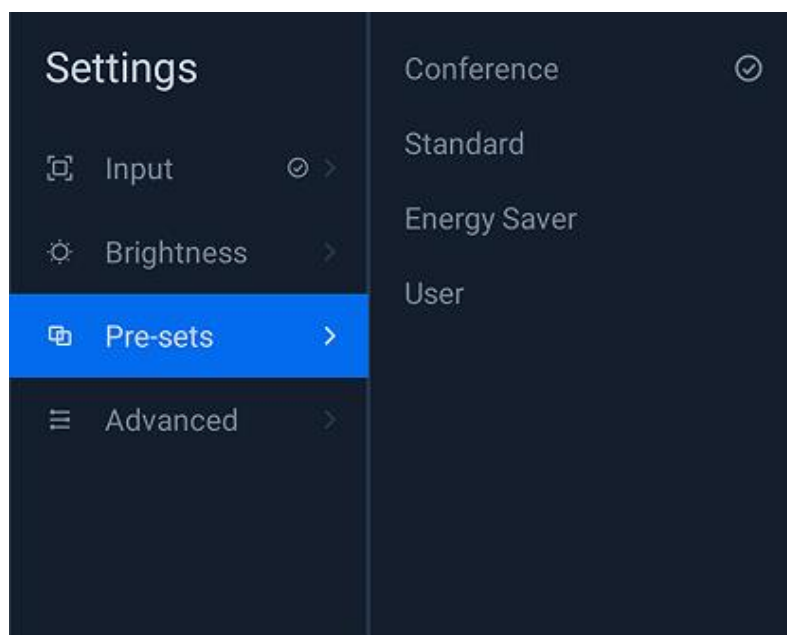
\*As shown in the “Full Screen Mode Screen,” full screen mode means the screen is covered by video signals from one single channel so that you can see the contents of only one channel signal.

1. When the “tick” is at “Full Screen Mode”, the current screen is in full screen mode.
2. Indicates the channel of the content currently displayed on the screen.
3. Channel switch button. You may use the “left/right” key on the remote control/front panel to view the channel; click “Enter” to switch to another channel.
4. Channel indicator, which indicates whether the currently viewed channel has signal access; gray means there are no signals, while blue means there are signals.

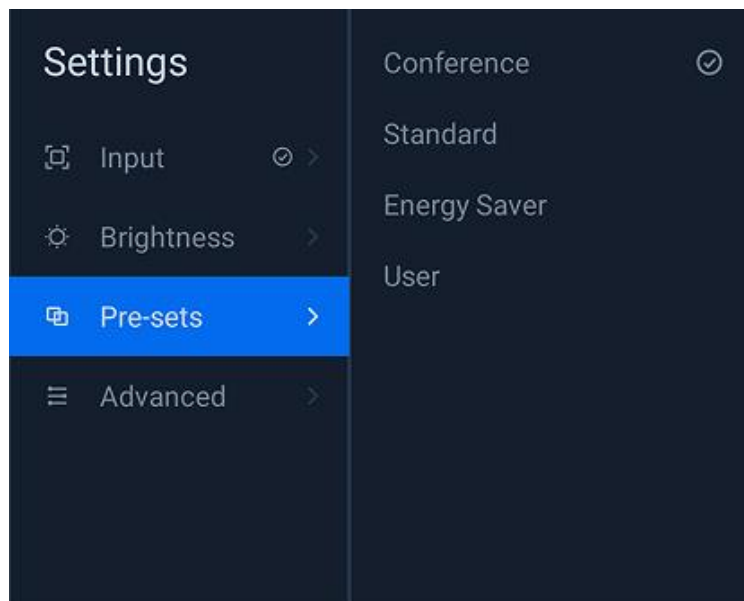
## BRIGHTNESS ADJUSTMENT



1. The figure in the circle represents the current brightness.
2. The focus is on the brightness adjustment box. Use the "left/right" key to adjust the brightness.

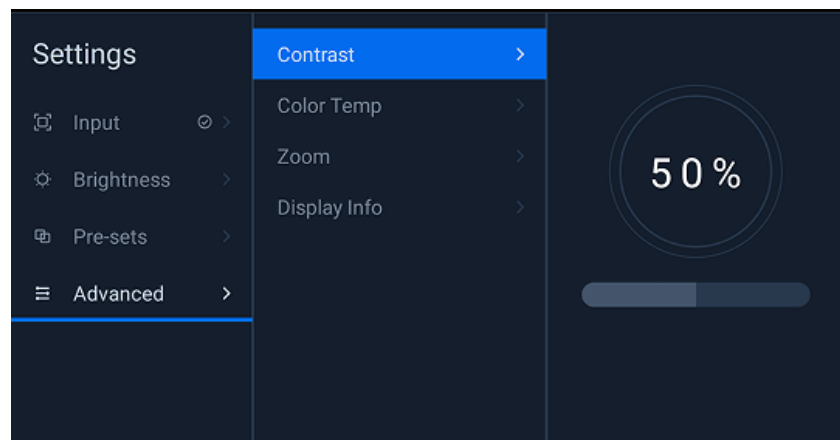


## PROFILES



“Tick” means the current profile, currently available for conference mode, standard mode, energy saver mode, and user mode; after designating a mode, press “Enter” to switch to the designated mode.

## ADVANCED SETTINGS

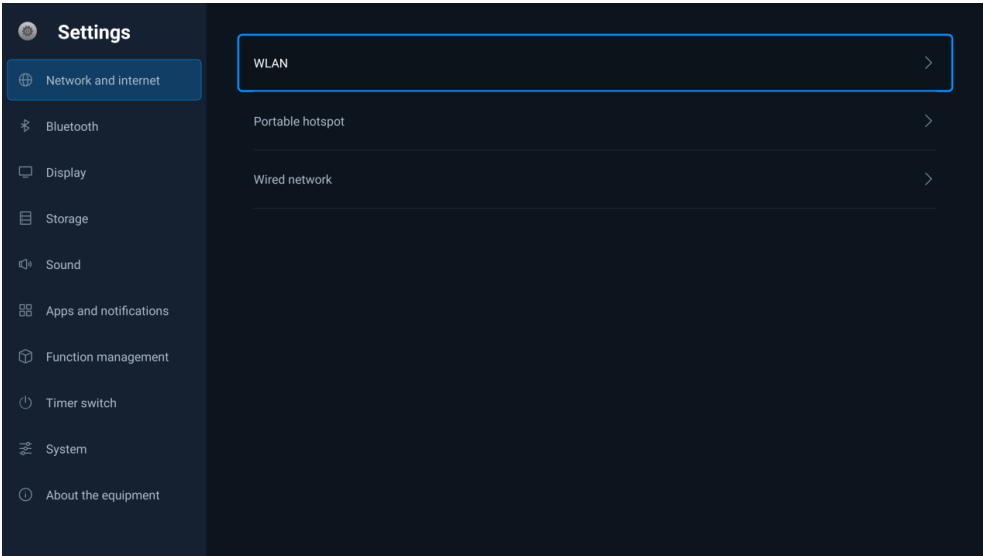


1. Contrast: Used to adjust the contrast.
2. Color temperature: Used to adjust the color temperature mode (standard, cold, warm).
3. Display scale: Used to adjust the display scale on the screen (available only for full screen mode).
4. Display information: Used to display the resolution of the current video signal.



# SETTINGS MENU

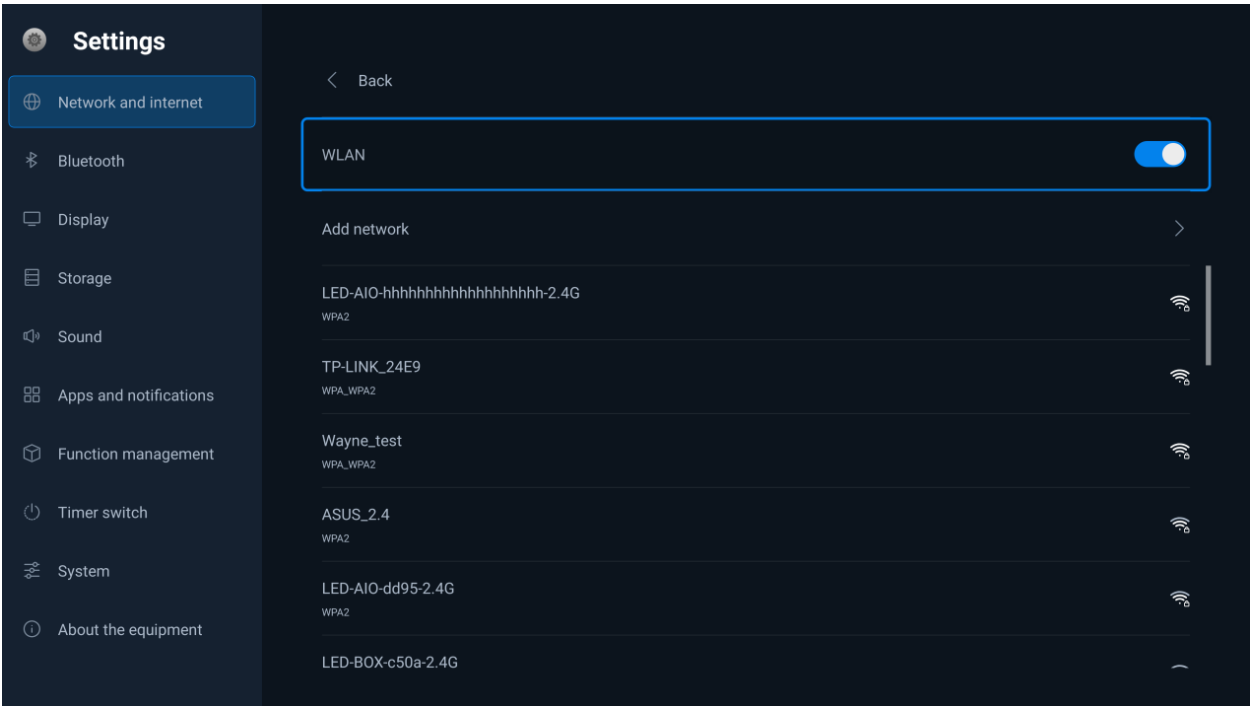
Click “Settings” to enter the settings menu page.



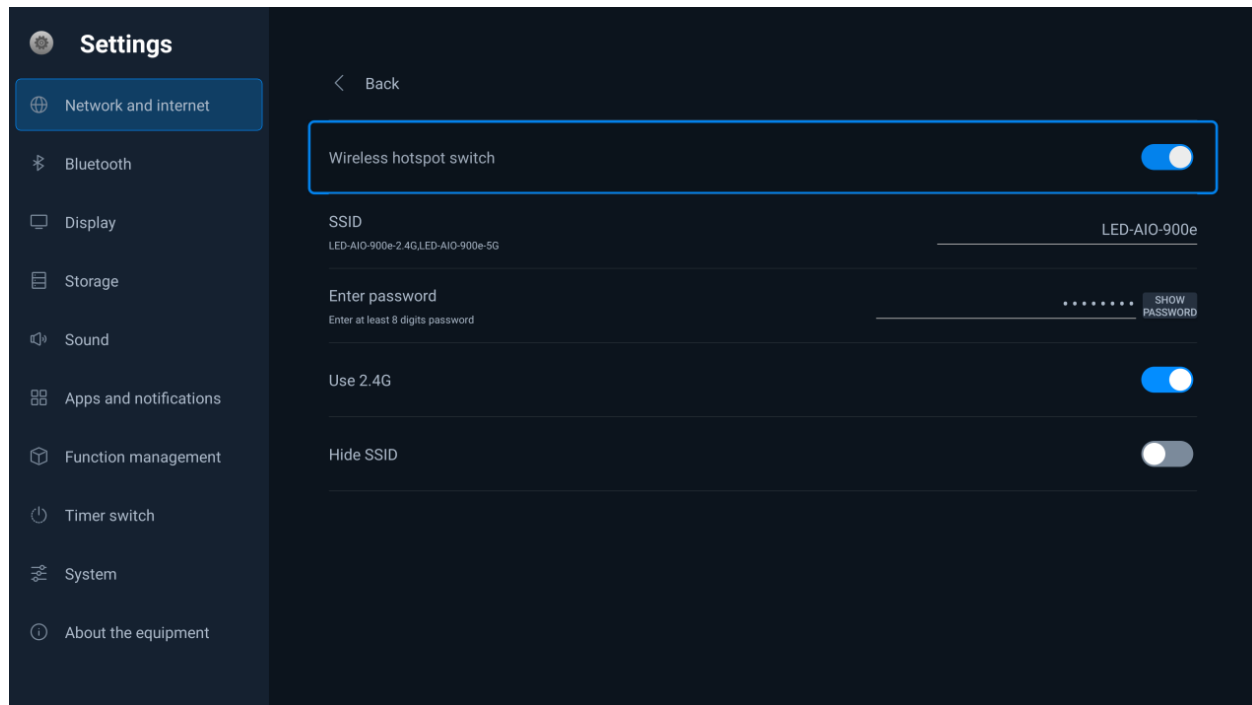
## NETWORK AND INTERNET

### WLAN

Open WLAN to search the service network automatically. Click the network to connect to it.



## HOTSPOTS



Portable Hotspots

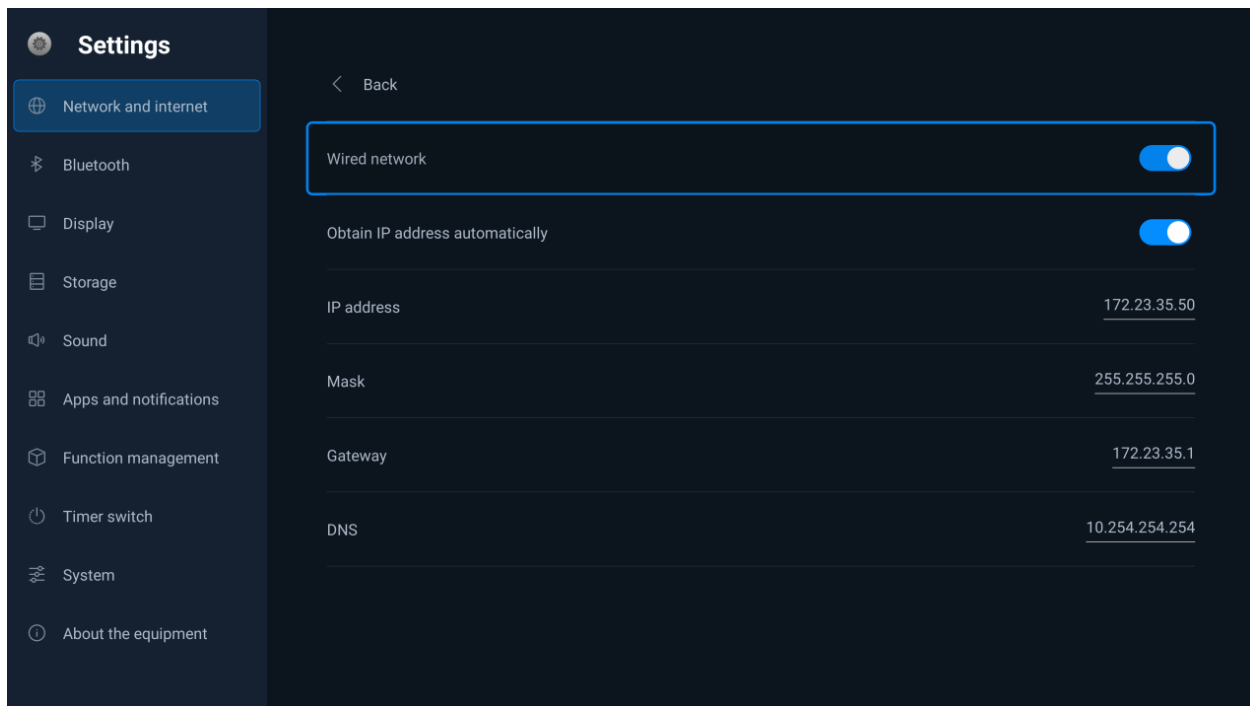
Portable hotspots: Both 2.4G and 5G hotspots can be produced. "-2.4G" or "-5G" will be automatically suffixed to the current hotspot to distinguish between 2.4G and 5G hotspots. (In the picture, the hotspot name of the "portable hotspot" is displayed as LED-AIO-6673.

The actual hotspot name will be LED-AIO-6673-5G in the case of a 5G hotspot or LED-AIO-6673-2.4G in the case of a 2.4G hotspot.)

1. Hotspot switch: Open or close a hotspot
2. Hotspot name: Modify the hotspot name
3. Hotspot password: Modify the hotspot password
4. Hide hotspot: Show or hide a hotspot. After a hotspot is hidden, other devices will not be able to search it even though it is actually on.
5. Apply: Click "Apply" to restart any hotspot whose information has been modified and apply the modification.
6. Cancel: Restore the modified content

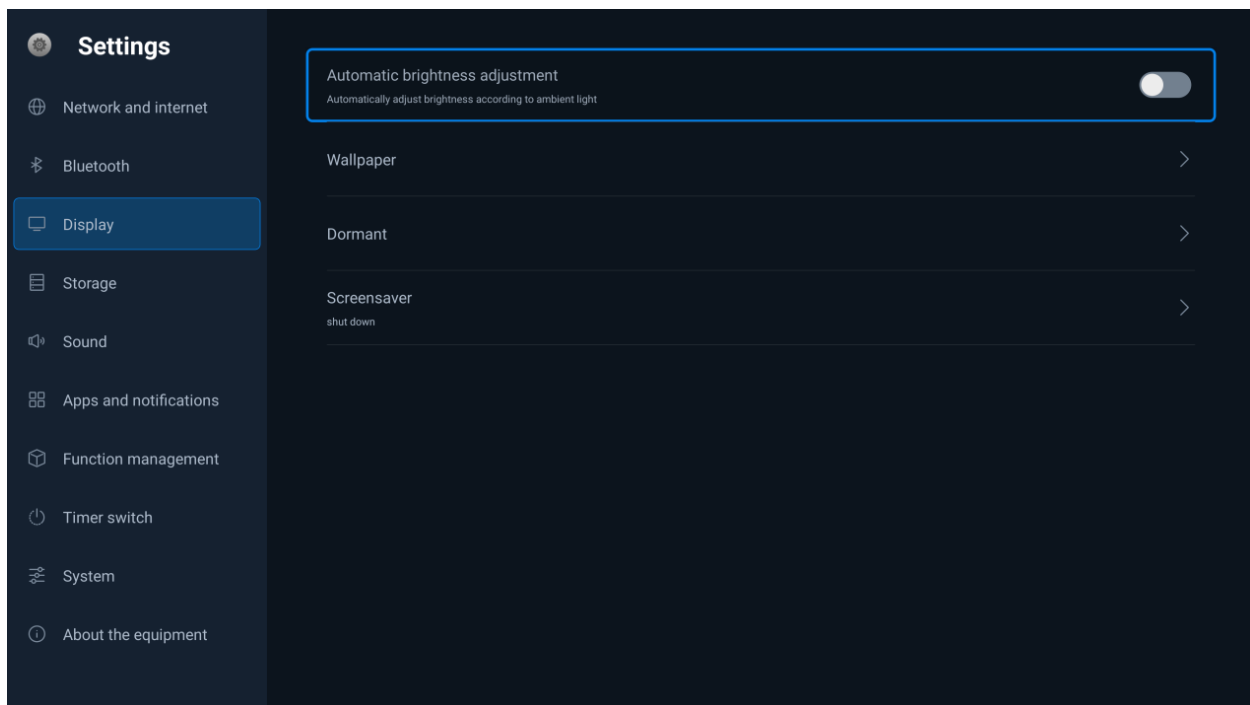
## WIRED NETWORK

You can choose to automatically obtain an IP address or manually enter an IP address.



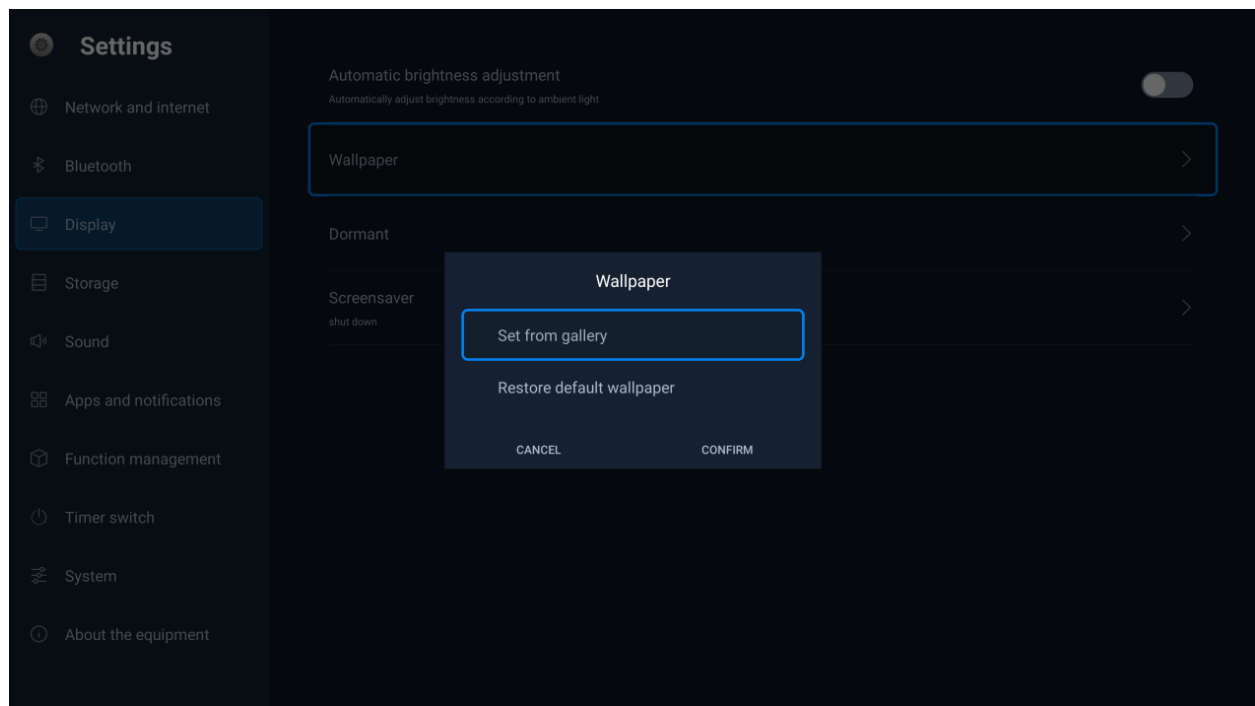
Wired network

## DISPLAY



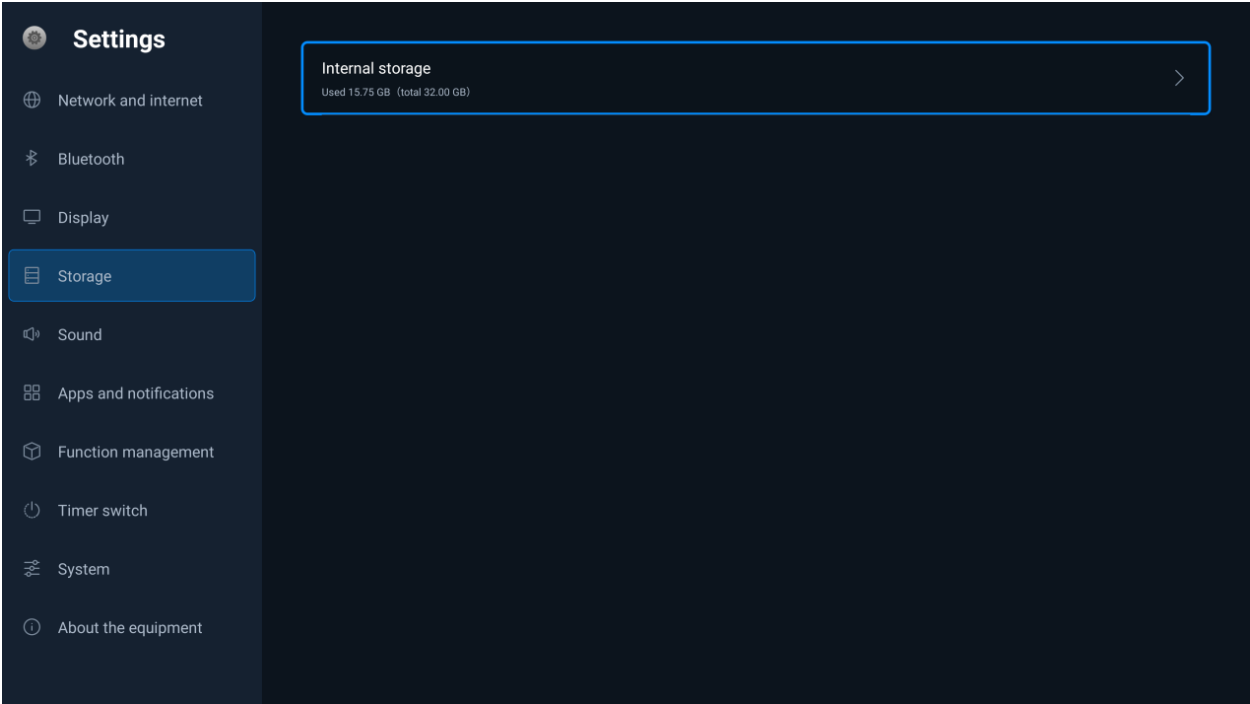
Used to maintain display-related functions such as:

- **Automatic brightness adjustment:** Automatically adjust the brightness switch and turn it on to adjust the screen brightness in real-time based on the current ambient brightness.
- **Wallpaper:** Used to set the wallpaper of your integrated display. You can set a wallpaper via the gallery or restore the factory default wallpaper.
- **Dormant:** When the Android source is not operated, or the HDMI source has no signal continuously exceeding the set dormant time, the screen will enter screen saver/dormant mode.
- **Screensaver:** Disabled by default, users can choose to enable it. After activation, the screen saver can be set through Invisible Art.



Wallpaper

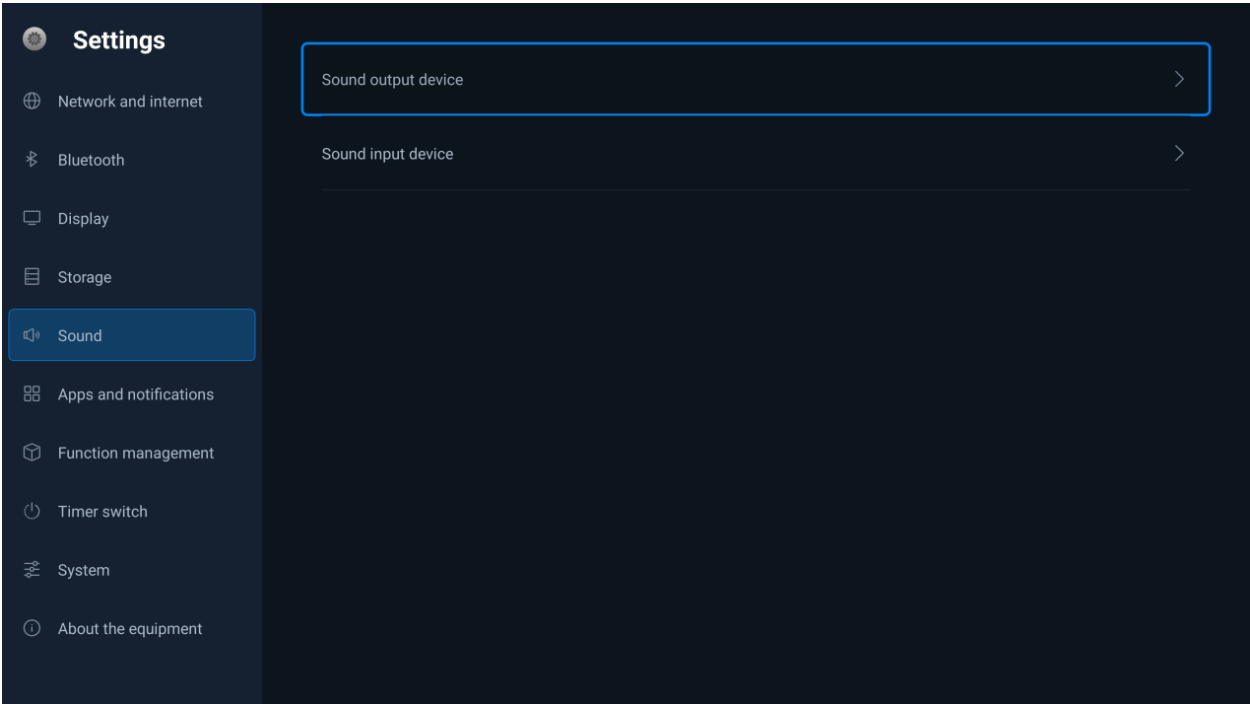
STORAGE



Storage

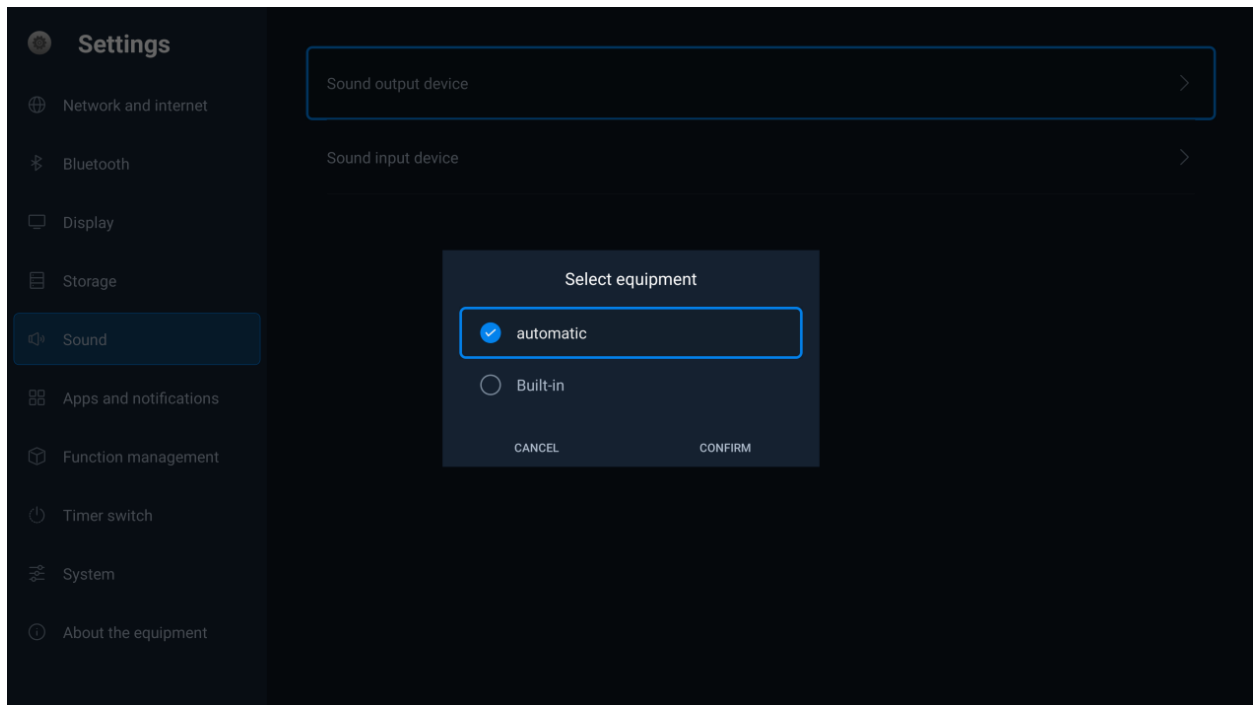
Used to display the storage conditions of a storage disk mounted.

SOUND



Sounds

## SOUND OUTPUT DEVICE

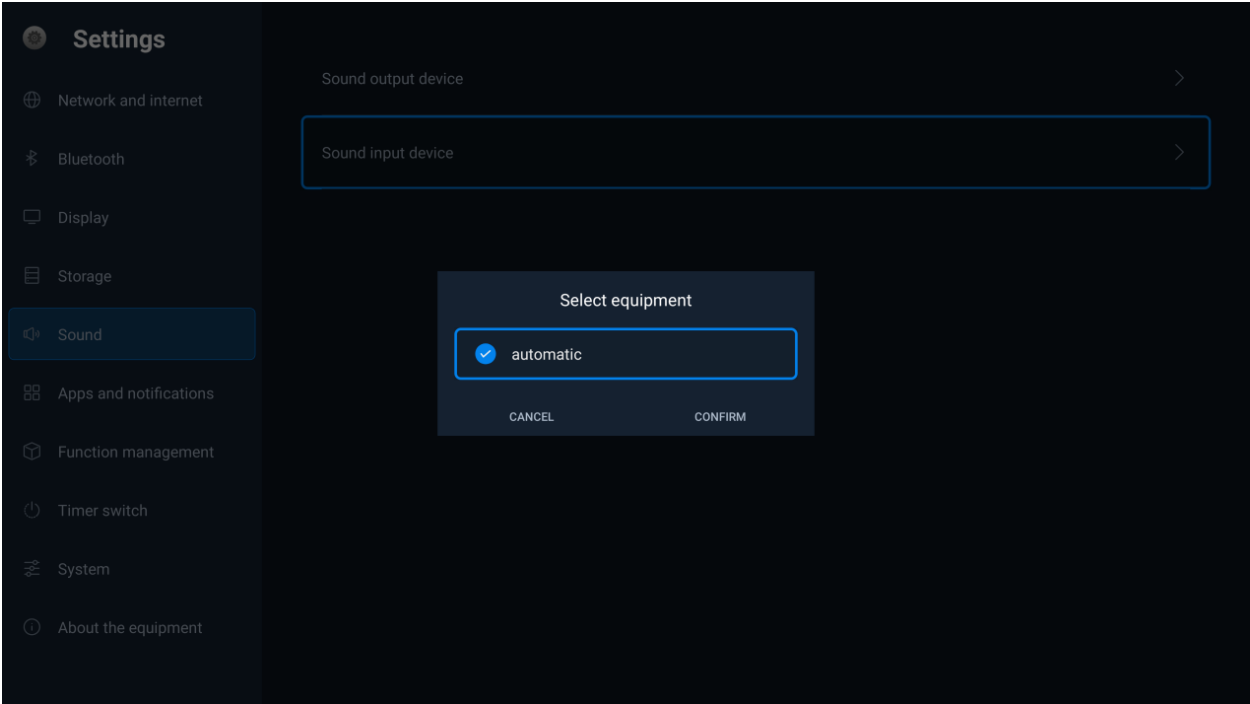


### Sound output device

All video devices mounted will be automatically scanned. You can select a device to designate the sound output from which device.

1. Auto: The system will automatically select a device to output the sound.
2. Built-in: The built-in loudspeaker will output the sound.

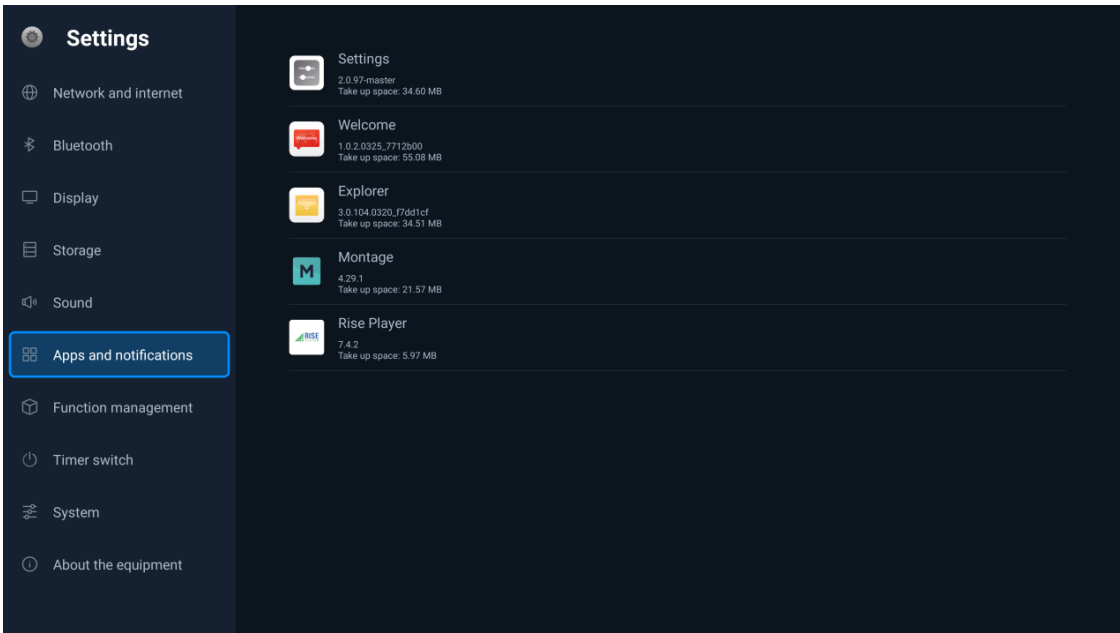
MICROPHONE DEVICE



Microphone device

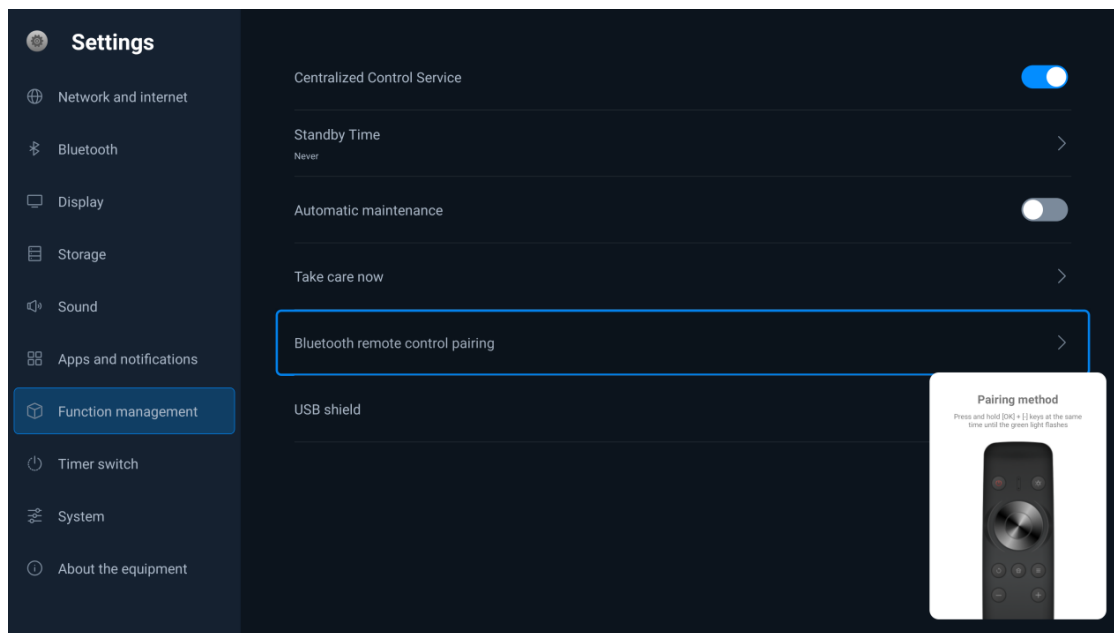
Auto: The system will automatically select a microphone device. All microphone devices mounted will be automatically scanned. Select a device to designate which microphone will be used for pickup.

APP NOTIFICATION



App notification: Used to display the software apps currently installed in the system. Click an app to download or disable it. Default software apps in this system do not support unloading.

## FUNCTION MANAGEMENT



Function management

**Central control service:** used to open/close central control service. You can control the integrated display remotely only when the central control service is on.

### Standby time:

- a. If the dormant duration is not set and the standby time is set, when there is no HDMI signal/Android is not operated for more than the set standby time, it will enter the standby state.
- b. If dormant time and standby time are set, when there is no HDMI signal/Android is not operating for more than the set dormant time, it will enter the sleep state first, and if the sleep state lasts longer than the standby time, it will enter the standby state.
- c. **Automatic maintenance:** the maintenance will be performed at the boot up of the device according to the power off time.

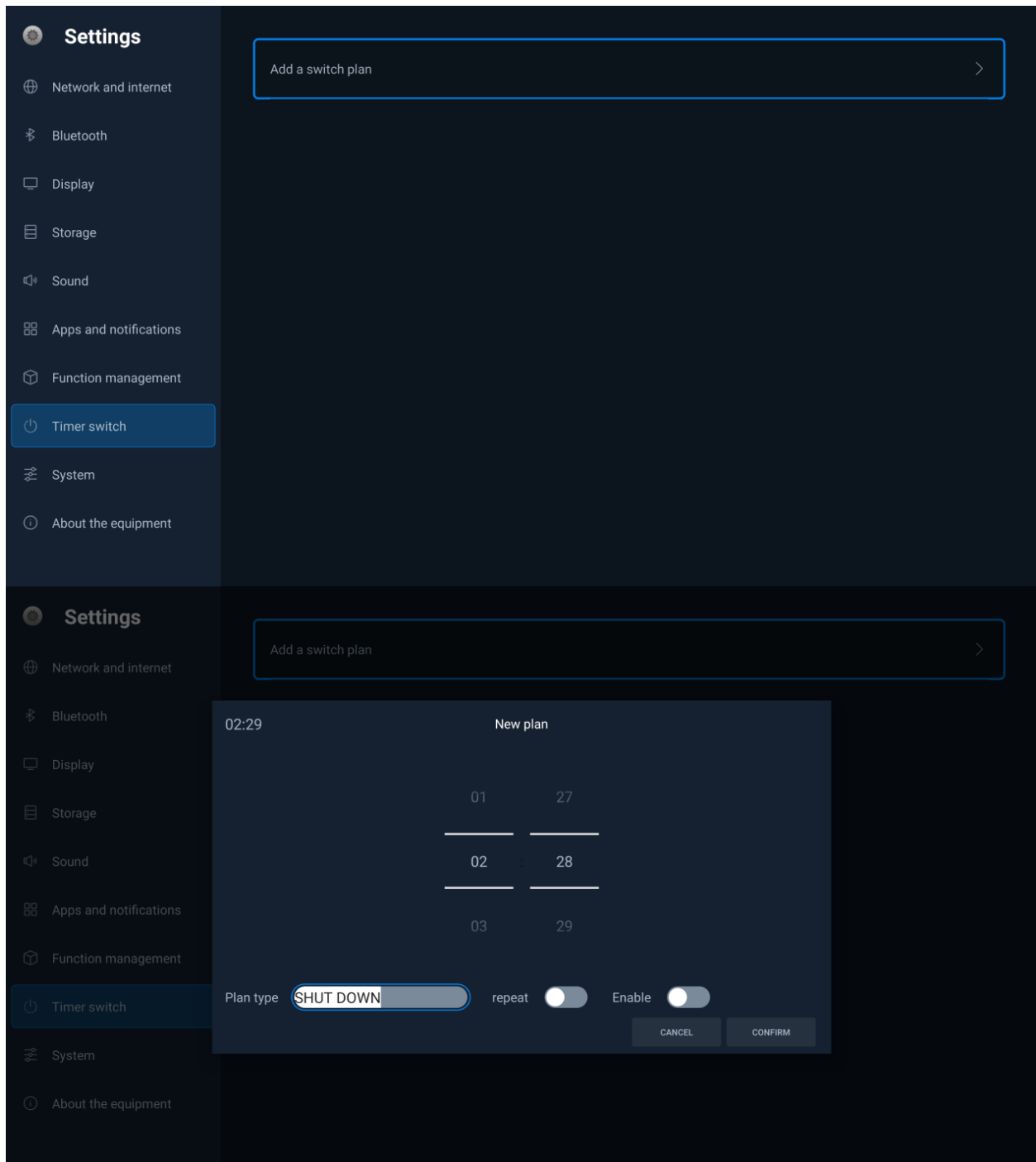
**Take care now:** used for long-term use without the screen, it will automatically detect and start maintenance when turned on. You can choose different levels based on the humidity of the environment where the device is located, and it is recommended to choose a higher level for higher humidity.

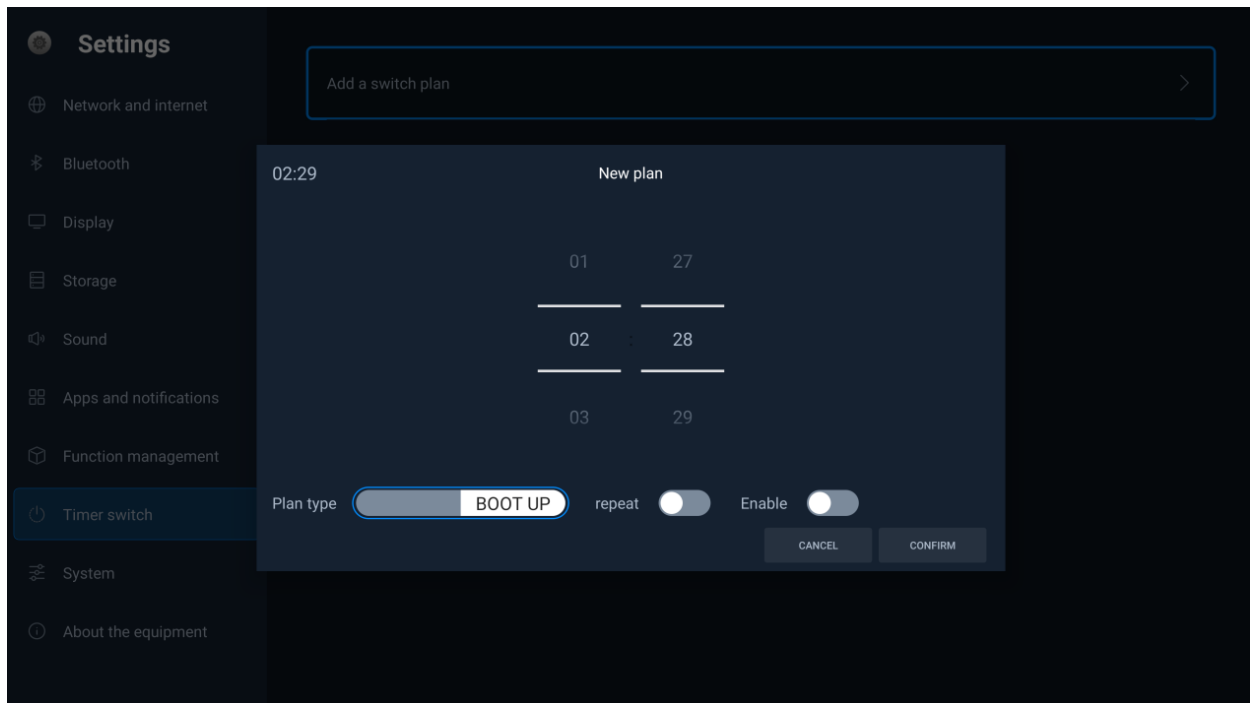
**Remote control pairing:** press “OK” and “-” at the same time till the green light blinks, and enter pairing mode to pair automatically, it will show "success repairing" after it is done.

**USB shield:** used to block responsive mobile storage devices.



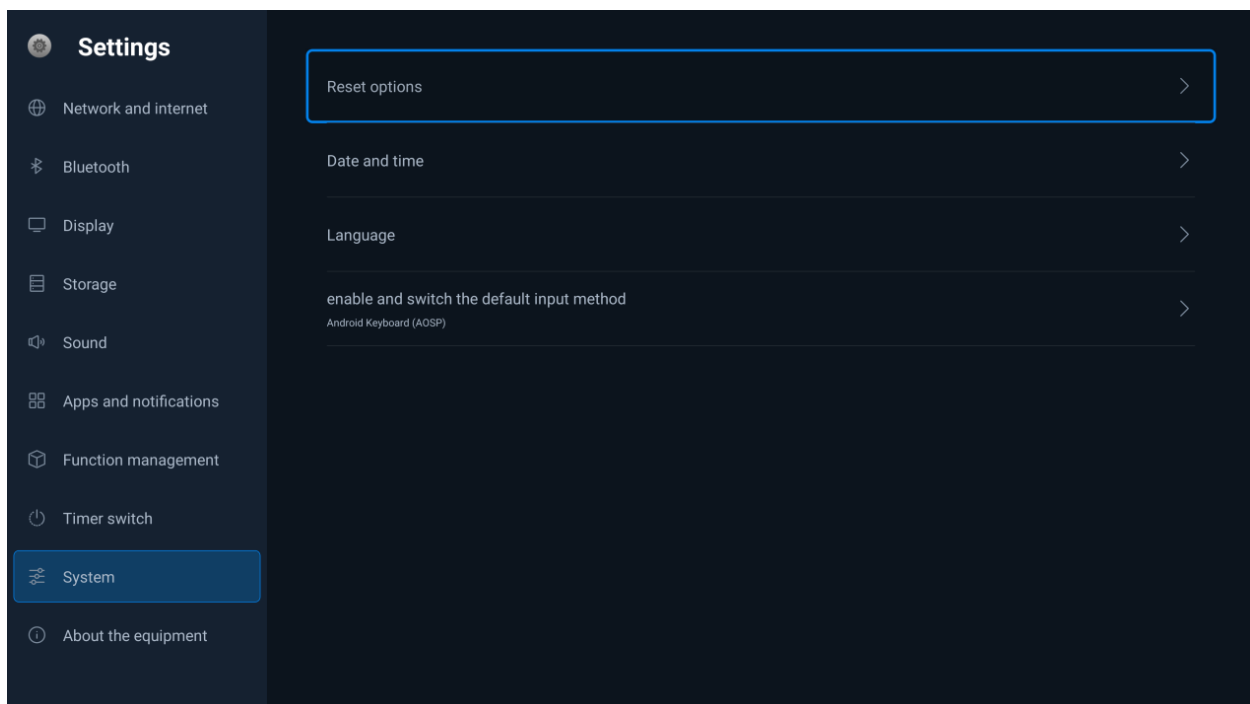
## TIMER SWITCH





Used to set single or repeated timed power on/off according to actual usage needs.

## SYSTEM



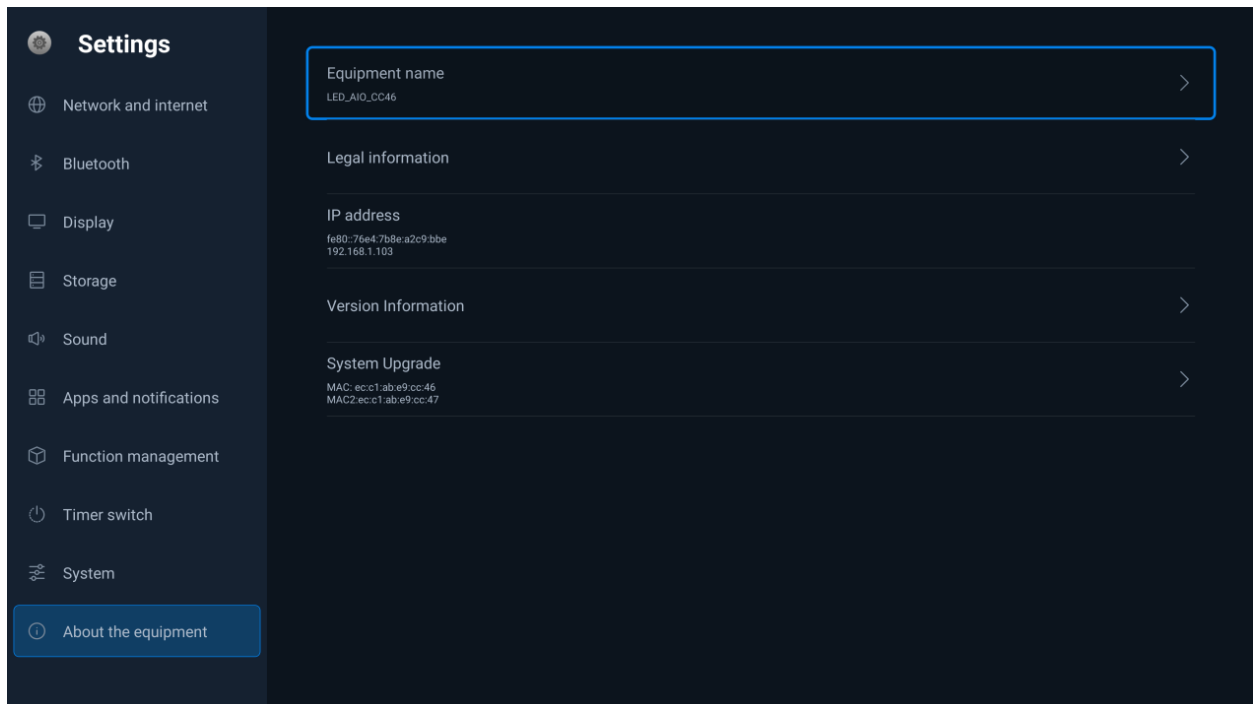
**Reset options:** networks, Apps, or devices can be reset.

**Date & time:** to reset the date and time.

**Language:** to set the languages.

**Enable and switch the default input method:** used to choose the default input method.

## ABOUT THE DEVICE



Used to display information related to the device.

**Device name:** display and modify device names

**Legal Information:** display the shipment information related to the current device

**IP address:** display the IP information of the current device.


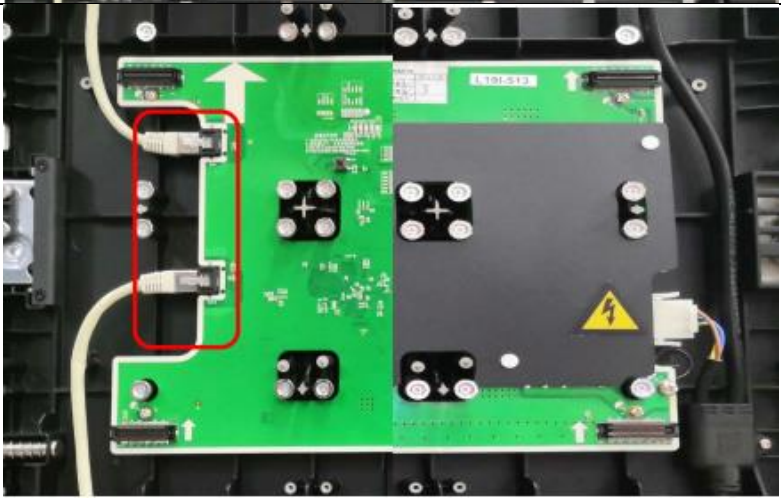
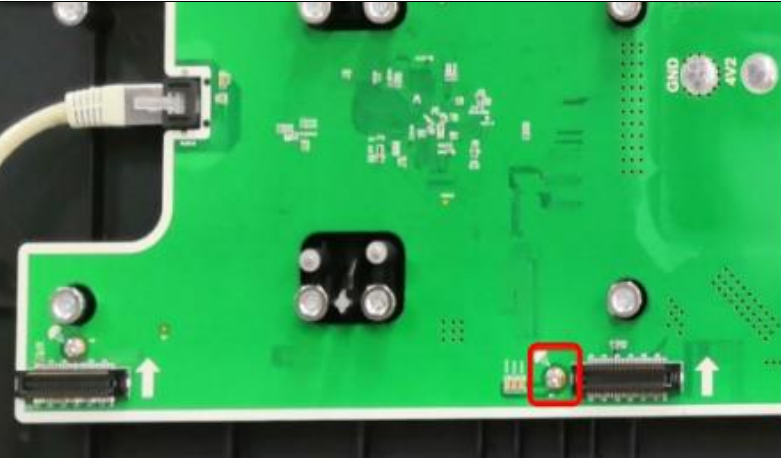
**Version information:** view the current device version

## SIMPLE TROUBLESHOOTING

1. Part of the screen doesn't light up after power on
  - a. Check whether the network cable in the panel is in poor contact
  - b. Check whether the power cable in the panel is in poor contact
2. The wireless dongle doesn't work
  - a. Check whether the wireless dongle is tightly inserted
  - b. Check whether the wireless dongle is paired. To pair the wireless screen projector, you need to insert it into the machine's USB port and wait for a prompt saying that the dongle has been successfully paired.
  - c. Check whether driver software has been installed on your computer. If the projector cannot be automatically installed after it is inserted into the USB port of your computer, you need to enter "My Computer" manually, find the drive letter of the transmitter in the device driver, and click "Install."
3. The indicator doesn't work
  - a. Check whether the power supply is functional; 2>Check whether the switch of the machine is turned on.
4. No image display after connecting to a computer with an HDMI cable
  - a. Check whether you are currently in a HDMI channel.
  - b. Check whether the HDMI cable between the machine and the external computer has come off or is in poor contact.


# PARTS REPLACEMENT


## REPLACING THE 3-IN-1 BOARD



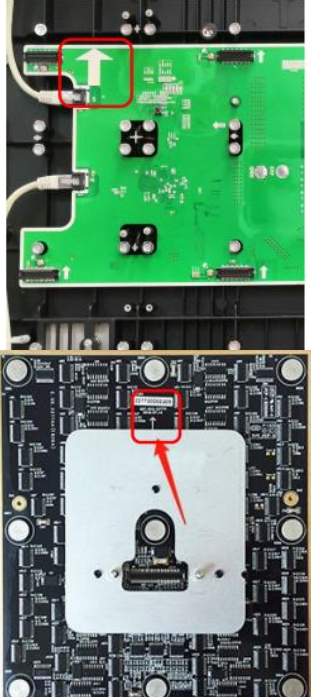
Procedure	Illustration	Method
Step 1		Locate the faulted panel and remove all module
Step 2		Disconnect the power supply and network
Step 3		Remove the 8 screws on the 3-in-1 board

Step 4		Remove the faulted 3-in-1 board and replace it with a new one
--------	--	---

REPLACING THE MODULE

Procedure	Illustration	Method
Step 1		Locate the faulted module and attach the side bevel of the pre-maintenance tool right below the module

Step 2		<p>Rotate the pre-maintenance tool upward slowly from the curved plane to the bottom plane; take out the module in taparallel direction after gripping the module</p>
--------	--	---

		
Step 3		Hold the module with your full hand and rotate the maintenance tool off the module
Step 4		Install the module in the same direction as indicated by the arrow



## HARDWARE SETUP

### INSTALL DB9 CABLE

- 1) Find and remove the right sound bar cover to reveal the control board. To take off the cover, pull the top outward and then rotate it downwards.
- 2) Find the yellow female Mini Jack RS232 port on the central processing board, marked in red.



- 3) Connect the male end of the Mini Jack to the DB9 cable included.



- 4) For external connection, direct the cable through the adjacent grommet.

## SERIAL COMMAND LIST

Baud Rate: 115200

Function	Descriptions	External device requestor code (hexadecimal bytes)	Notes
Device request status	idle	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 01 C0 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 56	idle, Receptive instruction
	busy		busy, Do not receive instructions for the time being
	unit exception		unit exception
Startup & Shutdown	Shutdown (sleep)	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C0 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 5F B8	
	starting up	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C0 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 5E B7	
Set the volume value	0	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 00 5B	
	10	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 0A 65	
	20	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 14 6F	
	30	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 1E 79	
	40	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 28 83	
	50	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 32 8D	
	60	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 3C 97	
	70	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 46 A1	
	80	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 50 AB	
	90	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 5A B5	

	100	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 03 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 64 BF	
Inquire the volume value	Obtain current volume	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 01 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 58	return the volume value
Set brightness	0	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 00 77	
	10	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 0A 81	
	20	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 14 8B	
	30	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 1E 95	
	40	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 28 9F	
	50	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 32 A9	
	60	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 3C B3	
	70	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 46 BD	
	80	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 50 C7	
	90	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 5A D1	
	100	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 64 DB	
Query volume value	Query current brightness	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1D C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 74	return brightness
Set the video source	0(ANDROID)	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 13 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 00 6B	
	1(pc reserved)	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 13 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 01 6C	
	2(HDMI1)	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 13 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 02 6D	

	3(HDMI2)	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 13 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 03 6E	
	4(HDMI3)	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 13 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 04 6F	
Dual-screen mode switch (dual-split- screen use)	full screen mode	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 49 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 00 A1	
	center mode	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 49 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 01 A2	
	dual screen mode	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 49 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 02 A3	
	custom mode	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 49 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 20 C1	
Query video resource	query current resource	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 11 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 68	return video resource
Set contrast	0	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 17 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 00 6F	
	25	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 17 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 19 88	
	50	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 17 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 32 A1	
	75	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 17 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 4B BA	
	100	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 17 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 64 D3	
Query contrast	query current contrast	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 15 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 6C	return contrast
Set screen display	ratio : 4:3	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 0F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 01 68	
	ratio : 16:9	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 0F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 02 69	
	full screen	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 0F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 03 6A	
	original	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 0F C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 04 6B	

Query screen display	Query the current screen display ratio	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 0D C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 64	return the display ratio of screen
Set the color temperature mode	standard0x01	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1B C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 01 74	
	warm color0x02	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1B C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 02 75	
	cold color0x03	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1B C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 03 76	
	user 0x04	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 1B C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 04 77	
Obtain video composition information		55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 c2 41 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 89	return video information
Set contextual model	meeting mode	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 45 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 00 9D	
	demo mode	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 45 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 01 9E	
	energy saving mode	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 45 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 02 9F	
	user mode	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 45 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 03 a0	
Query contextual mode		55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 43 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 9A	return contextual model
Set Red Gain value	0	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 23 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 00 7B	
	25	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 23 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 19 94	
	50	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 23 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 32 AD	
	75	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 23 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 4B C6	
	100	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 23 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 64 DF	
Query Red Gain value	query current Red Gain value	55 55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 21 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 78	return the red value

set Green Gain value	0	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 27 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 00 7F	
	25	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 27 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 19 98	
	50	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 27 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 32 B1	
	75	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 27 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 4B CA	
	100	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 27 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 64 E3	
query Green Gain		55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 25 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 7C	return the blue value
Set Blue Gain	0	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 2B C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 00 83	
	25	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 2B C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 19 9C	
	50	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 2B C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 32 B5	
	75	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 2B C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 4B CE	
	100	55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 2B C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 64 E7	
Query current Blue Gain		55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 29 C2 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 80	return the blue value
Obtain screen monitoring information		55 55 55 55 55 55 55 C0 01 03 01 D0 00 D1 31 C1 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 00 88	
Usage	rs232 serial port		
Instructions	1. Connect the Rs232 serial cable of the Led (baud rate: 115200) 2. You can control the Led all-in-one by sending instructions to the serial port		


## SPECIAL STATEMENTS

IPR Declaration: All hardware designs and software programs related to this product are protected by copyright laws. No part of this product or this operation manual may be reproduced unless you have prior authorization.

All texts and pictures contained herein are provided for information only. None of them shall be construed as any commitment in any form.

The appearance design of this product is subject to further improvement or modification without notice.

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## AVOCOR: THREE-YEAR LIMITED WARRANTY

Congratulations on purchasing an Avocor X-series display! Avocor is pleased to extend the following limited warranty to the original end-user customer of our products.

### COVERAGE

Avocor warrants to the first end user customer that the product, when shipped in its original container, will be free from defective workmanship and materials and agrees that it will, for a period of **three (3) years** from the date of purchase, repair or replace the defective product or part thereof, at Avocor's discretion, with a new or equivalent at no charge to the customer. Advanced Field Replacement (AFR) service is included in this warranty. Except as specified herein, this warranty covers all defects in the material or workmanship of the product. AVOCOR'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT AT AVOCOR'S DISCRETION. REPLACEMENT PARTS OR PRODUCTS MAY BE NEW OR 'LIKE NEW' UNDER THE CONDITIONS SPECIFIED BELOW. All parts or products removed under this warranty become Avocor's property.

The replacement part or product is warranted for the remainder of the original limited warranty period or thirty days from shipment, whichever is longer.

**LIMITATIONS ON WARRANTY COVERAGE, DURATION, AND SERVICES MAY SOMETIMES VARY BASED ON THE LAWS OF SPECIFIC REGIONS, STATES, AND COUNTRIES. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM JURISDICITON TO JURISDICTION.**

### EXCLUSIONS

This warranty does not apply to any cosmetic or consumable items of the Product or if the serial number or model number affixed to the Product has been removed, defaced, changed, altered or tampered with.

This warranty does not cover installation, signal reception problems, potential incompatibility with peripheral devices, or acts of nature. Avocor does not warrant nor shall it be liable for Products which have been subject to abuse, including, but not limited to, improper voltage, accident, misuse, negligence, lack of reasonable care, alteration, modification, tampering, improper installation, shipping damage, operation or maintenance or any damages or defects caused by repairs or attempted repairs performed by anyone other than Avocor personnel or an Avocor-authorized servicer. This warranty also excludes any damage to product glass due to pressure, abrasion, scratches, or actions otherwise beyond normal operation of the product that would cause screen mura and image retention. Please refer to Avocor's pixel policy for warranty guidelines on pixel related issues.

## CONCEALED DAMAGE

It is the customer's responsibility to inspect new product(s) at the time of delivery. If packaging is found damaged *at the time of delivery*, the Customer should refuse delivery and note on the delivery receipt the product and details pertaining to damage. The Customer may accept packages with minor damage but must take note of product details and damage on the delivery receipt.

If patent or obvious physical damage is detected *after delivery is accepted* and a "clean" or unmarked delivery receipt was returned, it is the customer's responsibility to file an insurance claim to the shipping provider according to the requirements set forth in the shipping provider's policy.

If the product packaging is clean and undamaged, but patent or obvious physical damage is found on the product, the customer must report the damages to their product distributor, shipper, or seller, within the policy guidelines of the distributor, shipper, or seller.

If freight was arranged by Avocor, and patent or obvious physical damage to the packaging is not detected but found on the product or product accessories upon inspecting the product, the customer must report the damages to Avocor within 10 calendar days after the delivery date to receive warranty services.

## CUSTOMER DATA

If the customer's product is capable of storing software programs, data, and other information, it is the customer's responsibility to protect its contents against operational failure. It is also the customer's responsibility to keep a separate backup of the contents and remove all personal information and disable security passwords prior to delivering a product for warranty service. **ANY PERSONAL CONTENT WILL BE DELETED AND STORAGE MEDIA WILL BE REFORMATTED IN THE COURSE OF WARRANTY SERVICE.**

**AVOCOR SHALL NOT BE LIABLE, OR IN ANY WAY RESPONSIBLE, FOR ANY INCIDENTAL OR CONSEQUENTIAL ECONOMIC OR PROPERTY DAMAGE. SOME REGIONS DO NOT ALLOW LIMITS ON WARRANTIES OR ON REMEDIES FOR BREACH IN CERTAIN TRANSACTIONS; IN SUCH REGIONS, THE LIMITS HEREIN MAY NOT APPLY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. AVOCOR DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.**

## SERVICES

**Technical Support:** The Customer must contact Avocor Technical Support, via email at [service@avocor.com](mailto:service@avocor.com) in order to initiate an RMA or another warranty service. Customer agrees to cooperate with Avocor: (A) to notify Avocor promptly of any defect, error or Hardware Product malfunction and to submit to Avocor such information that Avocor may reasonably require to reproduce the error or Hardware Product malfunction was

discovered; (B) to follow Avocor's guidelines to troubleshoot reported faults on the defective product(s); (C) to install, if requested by Avocor and within Customer security guidelines, a network connection that will be made available to Avocor for the purpose of resolving problems, reviewing Customer use of software, or for any other reasonable purpose; (D) to have a certified technician repair or replace defective parts under Avocor's guidance; (E) to notify Avocor of any additional hardware or software not purchased from Avocor that may be used in conjunction with the Hardware Product.

**Onsite Repair:** If Avocor deems the Product repairable, it will, at its discretion, send a technical support representative and/or technician to provide onsite repair or replacement service for any repairable or replaceable parts. Customer may be asked to provide access to, and to assist in the handling of, the Product, as deemed necessary by Avocor, under the instruction of the field representative or technician.

**Advance Field Replacement (AFR):** Avocor will ship a like-new or refurbished replacement product to the customer, at its discretion, if the product defect is determined to be unrepairable. The Customer must provide the display model and serial number and will be asked to provide contact details for the shipment. Upon approval, Avocor will ship the replacement product to the customer's site.

**AFR Guidelines:** At the time of the new product's arrival to the customer, it is the customer's responsibility to facilitate the deinstallation of the defective product, installation of the replacement product, and packing of the defective product in either its original packaging or the packaging of the replacement, and then send the defective back with the same driver that delivered the replacement product on that same day. If the customer is not able to perform the same-day swap they will incur the cost of freight. Additionally, if the product is not returned within 15 business days, the customer will be invoiced in full for the replacement product.

**SHIPMENTS TO CERTAIN INTERNATIONAL LOCATIONS MAY NOT BE SUBJECT TO THE ABOVE AFR GUIDELINES. CONTACT SUPPORT FOR FURTHER DETAILS.**

**Defective on Arrival (DOA):** If the Product is determined by Avocor to be defective within the first 90 days of the initial purchase by the Customer, it is deemed Defective on Arrival (DOA). In the case of a DOA, the Customer will be provided a brand-new equivalent Product. In the case that an RMA is issued after the 90 DOA period, the defective product will be replaced with a refurbished "like new" equivalent product, if available.

**Repair with Expired Warranty:** Avocor offers repair services, at cost to the Customer based on time and materials, for products with expired warranty. Customer will be responsible for all shipment costs.

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*For more information, please email at [service@avocor.com](mailto:service@avocor.com).*