



LED Display
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Aurora I-TV

All-in-One LED Display Terminal

Product Manual

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This manual systematically introduces the product components, ports, specifications and other product contents, as well as installation, function applications and other instructions, aiming at guiding you to start an efficient experience with Aurora I-TV

This manual takes the Product 138" as an example to make the introduction, and the installation, maintenance and operation methods are applicable to Product 110", 138", 165" and 220" (the 220" is not available for foot-mounting installation with frames);

The version of this manual is V2.0.0.

◆ WARNING ◆

The possibility of damage to the device and the inability to recover due to ignoring the following contents of the warning is extremely high.

- 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 humidity above 80% or in outdoor rainy 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 abnormality occurs in the display, such as abnormal smell, smoke, electric leakage or temperature happens, 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.

◆ **WARNING** ◆

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

◆ **NOTE** ◆

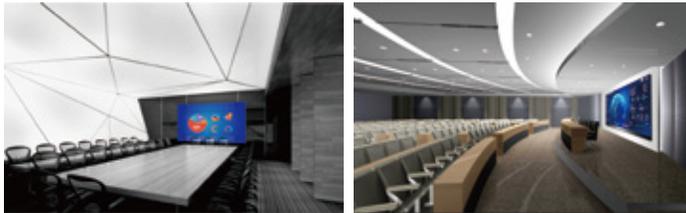
It is highly probable that you will not be able to get the best display effect if you ignore the content of the notice.

- 1) Wear anti-static gloves and anti-static bracelet during installation and maintenance;
- 2) Smooth air flow on the back of the display must be considered when designing the heat dissipation scheme;
- 3) The storage environment of the display should be ventilated and dry, and the humidity should not exceed 85%;
- 4) Under normal circumstances, the display must be powered on and turned on at least twice a week, and each lighting time shall not less than 2 hours;
- 5) 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 difference, it may cause equipment failure and affect the service life. If inevitable, please consult our professional and technical personnel.

I. Product Introduction

1.1 Product Brief

I-TV is Aurora's integrated commercial LED display terminal product. It has built-in control system, supports HDMI input, wireless transmission of multiple devices, and is easy to install and maintain. It can expand functional applications such as conference TV and indoor advertising. The products can be widely used in large and medium-sized conference rooms, multi-functional halls, training classrooms, exhibition halls, monitoring and command centers, studios, airport station passages, shopping malls, retail stores, theaters and etc.



1.2 Product Features

- 1) The product adopts integrated design and internal integrated system, which can be used without external equipment;
- 2) This product can be installed in a variety of ways, wall mountable and bracket mountable. No need for large complex steel structure support, easy to install;
- 3) The panel has a flash memory chip, and the calibration data is stored in the panel, enabling the correction parameters to be automatically read;
- 4) The display is fully front access, and the maintenance of panels, power supplies and other components can be completed from the front easily;
- 5) One-button start up, beginner-friendly operation for users without any experience.

1.3 Product Appearance



I-TV 138"

1.4 Specifications

SPECIFICATION	I-TV 110"	I-TV 138"	I-TV 165"	I-TV 220"
Size	110"	138"	165"	220"
Pixel Pitch(mm)	1.2	1.5	1.9	2.5
Brightness(nit)	100~500		100~600	
Refresh Rate(Hz)	1920~3840			
Resolution	1920×1080			
Power Consumption (Max/Ave) (W/display)	2500/850	3000/1020	3060/1040	5120/1740
Display Area(mm)	2440×1373	3050×1716	3660×2059	4880×2745
Overall Dimension(mm)	2453×1503×38.5	3063×1846×38.5	3673×2189×38.5	4893×2875×60
Weight(kg)	134	201	282	526.5
IP Rating	IP30			
Gray Scale(Bit)	14			
Viewing Angle(H/V)	160°/160°			
Input voltage(V)	AC 100-240V			
Installation Method	Foot mounting/Wall mounting			Wall mounting
Maintenance	Front			
Operating Temperature /Humidity(°C/RH)	-10~40/10%~85%			

· All specifications are subject to change without prior notice.

II. Product Installation and Wring

2.1 Open-package Inspection

Product Package

No.	Name	Outer Packing	Inner Packing	Sum
1	Module	1 wooden case	5 cartons	216 modules
2	Cabinet	1 wooden tray	13 cartons	25 cabinets
3	Installation Components	1 wooden case	1 set of bottom frame component 1 set of foot-mounting brackets left and right upper rims wall-mounting strip/hook plate tools	

(note: above product package takes 138" as an example, for actual project, please refer to its delivery list)

Please carefully check the package for damage. If the package is in good condition, continue to check the main components based on the shipping list. If there is any discrepancy with the shipping list, please contact us in time.

Main components: unit cabinet, signal cable, power cable, remote control, wireless transmitter, HDMI cable, etc. The specific components and quantities are detailed in the shipping list.

2.2 Installation Environment Requirements

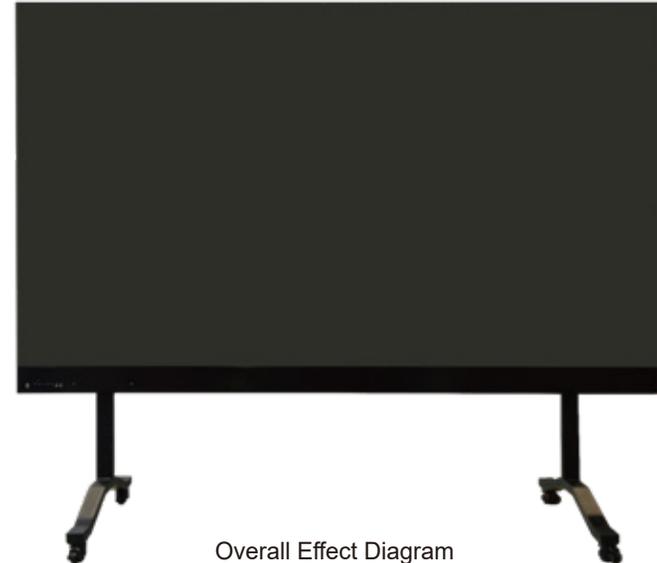
2.2.1 For wall-mounting installation, the wall is required to be a load-bearing wall. Special walls such as glass, marble, porcelain, hollow walls, etc., cannot bear the weight of the product. If such a situation requires special process installation, additional costs may be incurred, and the specific cost is calculated according to the actual situation.

2.2.2 Installation only provides hole-bearing wall boring, hoisting or vertical bracket installation. If special installation methods such as wall reinforcement and steel structure installation are required, the corresponding expenses will be calculated separately according to actual conditions;

2.2.3 If there are hidden risks for the installation method you specified, after the prompts of our installation personnel, you still insist on the installation, the responsibility shall not be borne by our company; if you use non-I-TV standard Aurora supporting kits, our company shall not assume any responsibility for damage to other items.

2.3 Structure Installation

2.3.1 Foot-mounting bracket installation



Overall Effect Diagram

Installation steps:

Step 1: Assembly bracket

- ① Find the corresponding parts according to the details of the bracket assembly parts, as shown below:

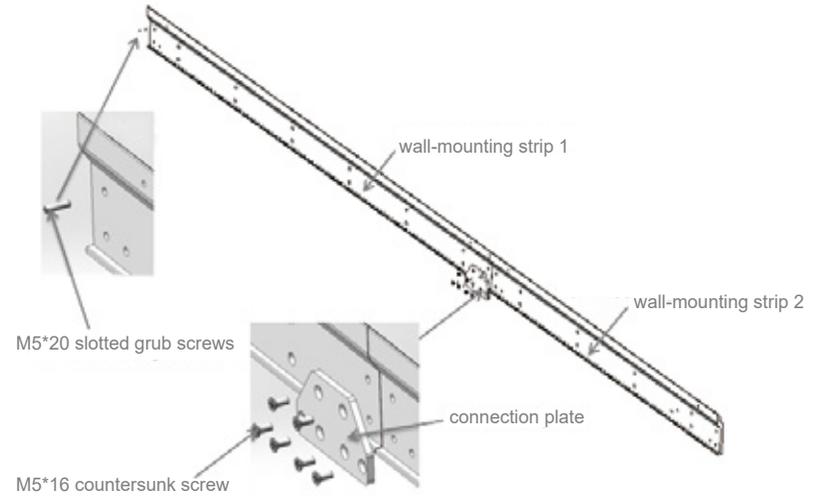


② Tighten the mounting screws with the appropriate tools and the brackets are assembled, as shown below: assembly parts, as shown below:

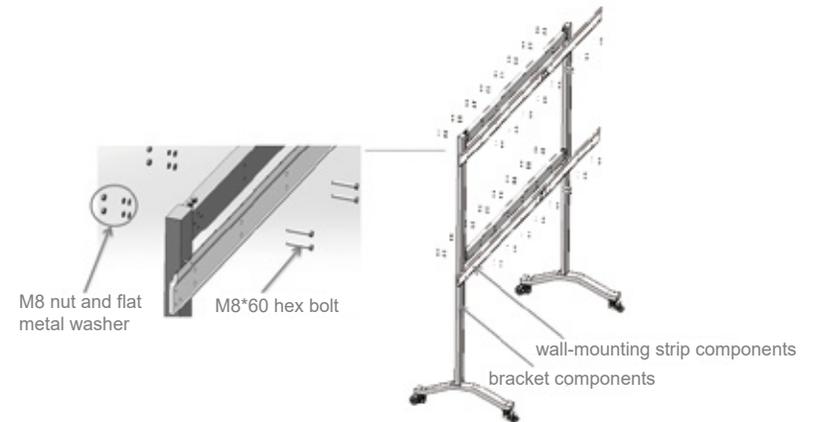


Step 2: Wall-mounting strip installation

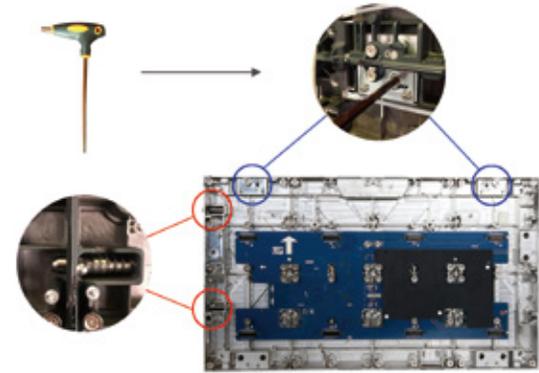
① Match corresponding components for wall-mounting strip assembly, as shown below:



② Attach the wall-mounting strip to the bracket as shown below:



③ The wall-mounting strips and bracket are assembled, as shown below:



③ Install the hooks on the corresponding cabinets with two M8*25 hex head bolts and flat spring washers, as shown below:

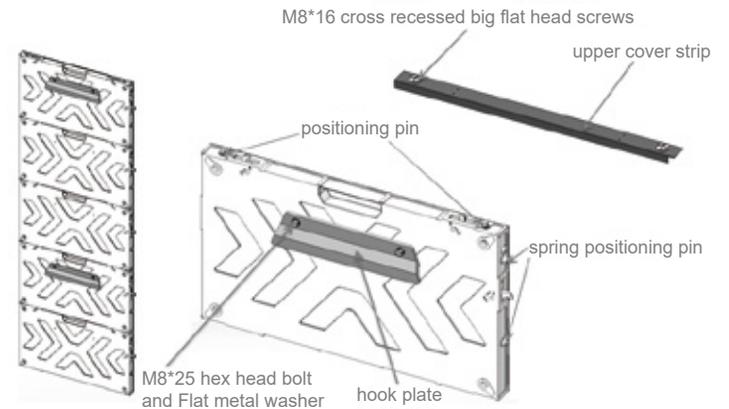
④ The positioning pins shall be removed from the top cabinet. And the spring positioning pins shall be removed from the leftmost columns, and then fix the upper cover strip with a cross screwdriver, as shown below:

Step 3: Cabinet assembly

① Combine every five cabinets into one column and assemble a total of 5 columns;

② Use the tool to hook and lock the panel up and down. The position is shown in blue circle.

The connection position of left and right spring side locks are shown in red circles, as shown below:



Step 4: Display assembly

* Ensure the bracket casters are locked and the wall-mounting strips are horizontal before mounting the cabinet on the supporting structure;

- ① Hang the cabinets from the middle to the sides, and hang the wall-mounting strip on the cabinet to the wall-mounting strip of the bracket;
- ② Install the adjacent second column so that the hooks are hung on the wall-mounting strips, and the adjacent side faces are close to each other. Pull out the side spring positioning pins so that the positioning pins are fully inserted into the matching positioning holes, and then rotate the side hook lock with the corresponding inner hexagonal wrench to ensure the left and right columns of the box are completely locked as shown below:



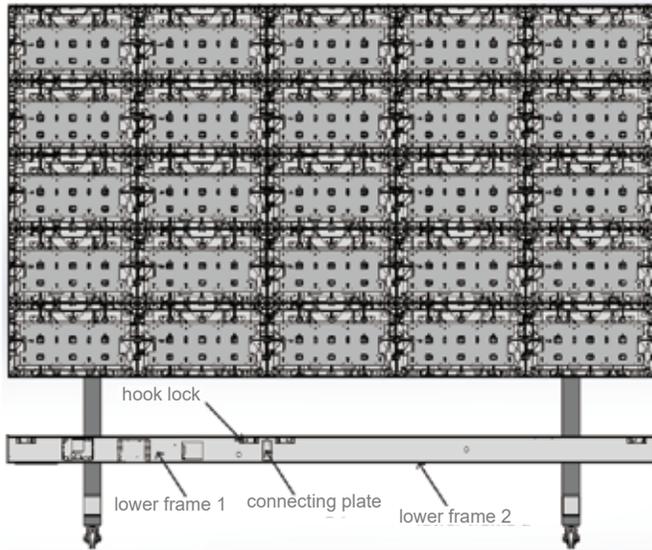
- ③ Complete the other column cabinet installations in sequence, as shown below:



Step 5: Bottom frame assembly

* The lower frame component consists of the lower frame 1, 2, etc., and shall be connected by the connecting plate

① 1 The lower frame component shall be fixed on the bottom row of the cabinet by rotating the hook, as shown below:



② Wiring: Red one is the 5 branch power line, blue one is the signal line. First connect the power and signal lines between the cabinets according to the schematic. Then connect the signal line and the power line to the lower frame assembly. Each column of signal lines only needs to be plugged into the corresponding column socket according to the position. The power line only needs to be plugged by the 3p pair of plugs according to the position. As shown below:



③ Button board connection: The power cable (3p paired plug) and cable (7p, 4p, 3p) on the button board must be docked on site. Power cable (the black ones in below picture is required to be inserted in pair), the cable can be inserted as 7p to 7p (red ones), 3p to 3p (black ones), 4p to 4p (black ones in pair), 4p to 4p (red ones in pair), as shown below:

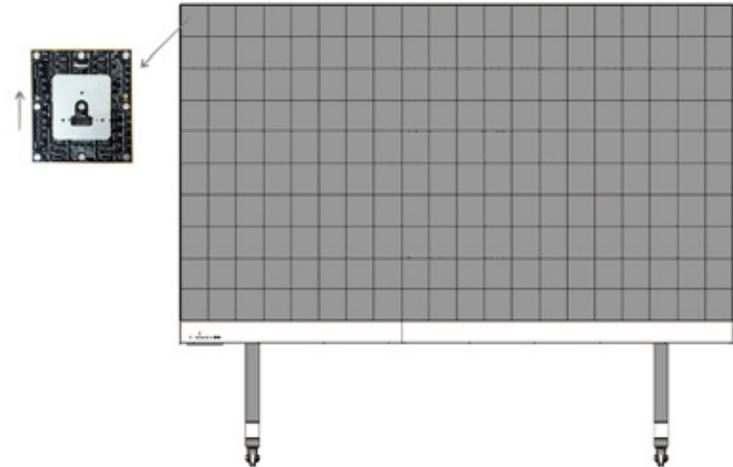


Step 6: Module installation

* Module installation sequence should be from left to right, right to left or from bottom to top, top to bottom, depending on the on-site installation environment.

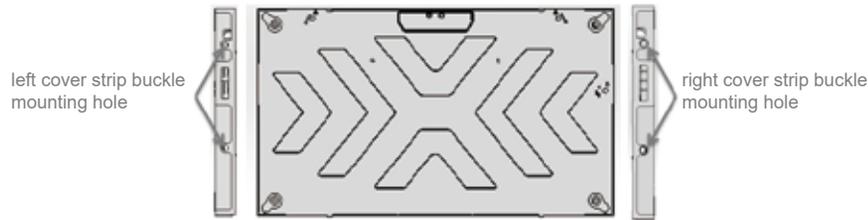
* Repair in time when flatness is not in good condition during assembly;

① The module connection mode is hard connection, which is connected through the bridge board and the connector on the module, therefore Forced insertion should be avoid during installation. The connection example is shown below:



Step 7: The left, right, top and bottom cover plate Installation

① The left and right cover strips are snapped into the side spring locating pin holes. (as mentioned that spring locating pin and the cover strip shall be removed from the left side of the screen), as shown below:



*The cover strip with "R" is the right one, and "L" is the left one (based on front view)

② Install the lower frame cover from left to right according to the position of the cover displayed in the installation diagram with cross screwdriver and M3*8 black counter sunk head screws, as shown below:

2.3.2 Wall-mounting installation

For wall-mounting installation, there is no need to install the seat bracket. After assembling the wall-mounting strip according to the above steps in foot-mounting installation, fix the hanging kits on the wall with expansion screws, pay attention to the height positioning of the screen body from the ground, and the subsequent installation.

III. Functions Introduction

3.1 Hardware Ports Instruction



Port No.	Name	Function
1	Red/Blue Indicator light	Red: standby status Blue: work status
2	Infrared indicator	Receive remote control signals
3	One-button switching button	Control one-button on/off switch
4	Signal switching button	Switching button for Android main interface, wireless screen interface and HDMI input device interface.
5	Brightness+ button	Button for screen brightness+
6	Brightness- button	Button for screen brightness-
7	Standby/Awake button	Switching button for standby/awake
8	Audio 3.5 output port	Audio port for external speaker
9	USB1 port	Port to read a USB flash drive, wired or wireless mouse or keyboard
10	USB2 port	Port to read a USB flash drive, wired or wireless mouse or keyboard
11	LAN	Cable port
12	HDMI input port	Port to receive 1080P video signal

IV. Remote Control Button Instruction



Button Icon	Function
	Standby/Awake
	Up
	Down
	Left
	Right
	Confirm
	Volume+
	Volume-
	Return
	Brightness Adjustment
	Channel Switch
	Main Interface

Remarks:

Channel switching function: Android main interface - wireless screen transmission interface - external HDMI display channel interface switching in order;

Brightness adjustment function: The brightness of the all-in-one LED display is designed in 8 levels, and can be adjusted by left and right buttons on the remote control.

V. Instructions for Use

5.1 Start up

5.1.1 Plug in the power supply;

5.1.2 Press the one-button start up button on the bottom of the control unit to wait for a few seconds and then the display will automatically enter the main interface. (Note: After the first installation is completed, it takes 5-10 minutes for the display to automatically load the data, and it will light up when the loading is completed.)

5.2 Main Interface Contents

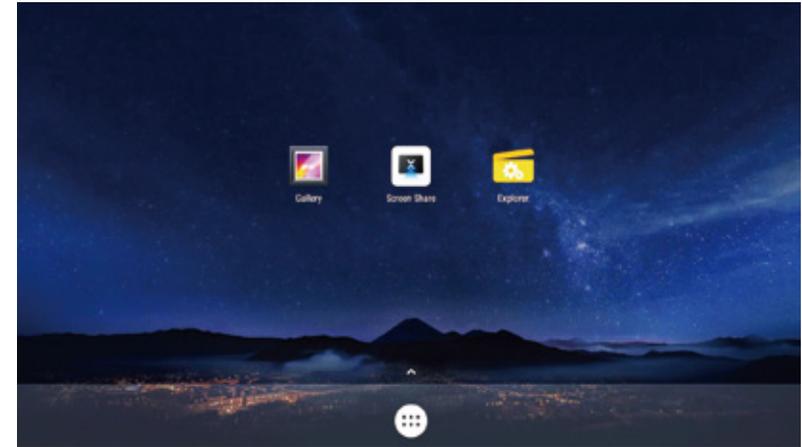
5.2.1 Main interface application

Gallery- Place picture material;

Screen Share- Enter the wireless screen sharing interface;

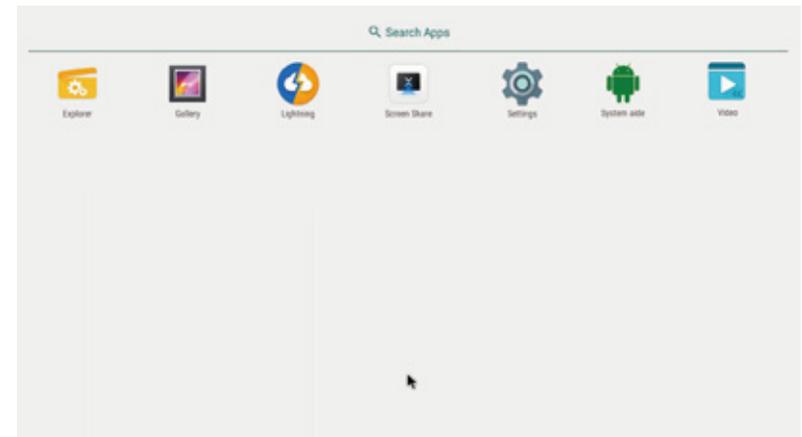
Explorer- access to memory management files;

As shown below:



5.2.1 More applications

The white circle icon on the bottom of the interface can lead you to find more application interfaces, as follows:



5.3 Wireless Screen Share Function Instruction

Wireless screen share function

MAC or Windows system computer, mobile phone, tablet device can realize screen share function on the all-in-one display, and following are three methods to enter the interface:

Method 1: Click the signal switching button of the remote controller;

Method 2: Click the signal switching button of the lower main control box;

Method 3: Click the Screen Share icon on the bottom of start interface with the wireless or wired mouse connected via the USB port.

The steps are as follows:

① For the first time use, please connect the wireless screen share transmitter to I-TV for pairing. After the pairing is completed, pull out the transmitter, as shown below:



② Connect the wireless screen share transmitter to the computer as shown below:



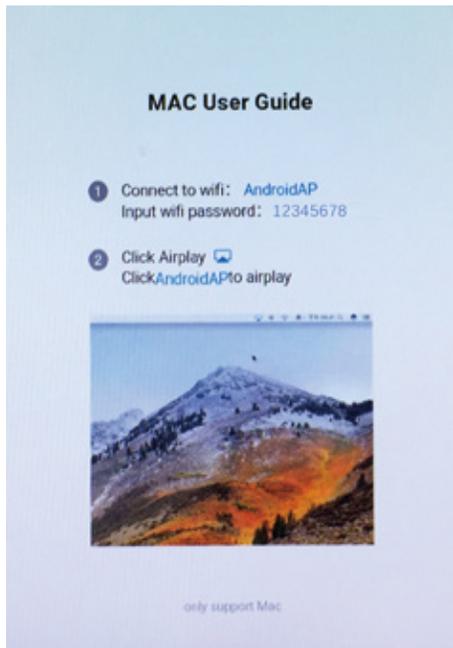
③ For the first time, you need to manually run the screen share program on your PC.

Note: Please follow the prompt interface output by the wireless screen share player. For the second use, there is no need to conduct pairing;

5.4 Computer Screen Share

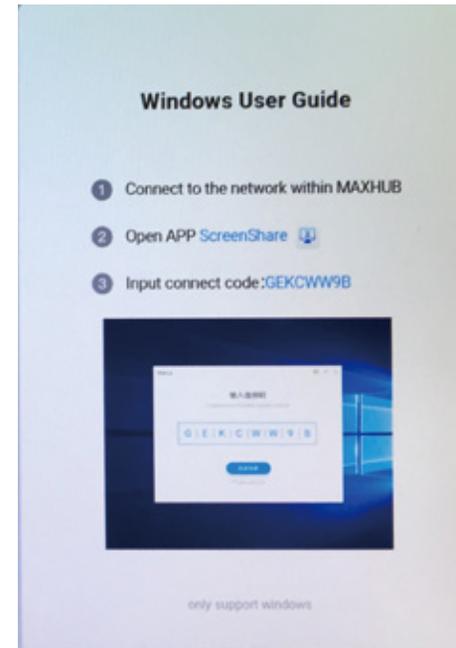
5.4.1 MAC System Device Wireless Scree Share

- ① Connect the all-in-one LED display Wi-Fi hotspot;
(Name: AndroidAP Password: 12345678)
- ② Follow the instructions and video demonstration in the MAC User Guide of the wireless screen share interface, as shown below:



5.4.2 Windows System Device Wireless Scree Share

- ① Download and install the screen assistant application software;
- ② Connect the all-in-one LED display Wi-Fi hotspot;
(Name: AndroidAP Password: 12345678)
- ③ Open the desktop application screen assistant;
- ④ Enter the connection code GEKCWW9B to enter, as shown below.



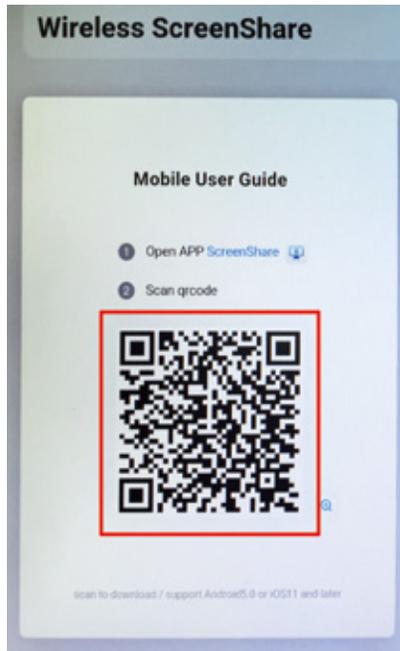
5.5 Mobile Phone Screen Share

5.5.1 Android system mobile phone:

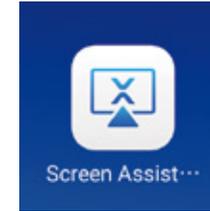
Connect the all-in-one LED display Wi-Fi hotspot;
(Name: AndroidAP Password: 12345678)

① Scan the following QR code to download the mobile app screen assistant;

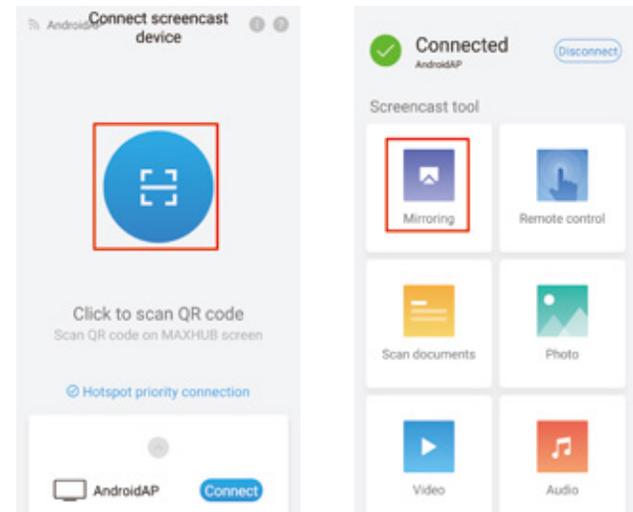
(Note: This step is required for the first time. If you already have the APP, you can skip this step);



② Open the Screen Assistant and start to share screen, as shown below:

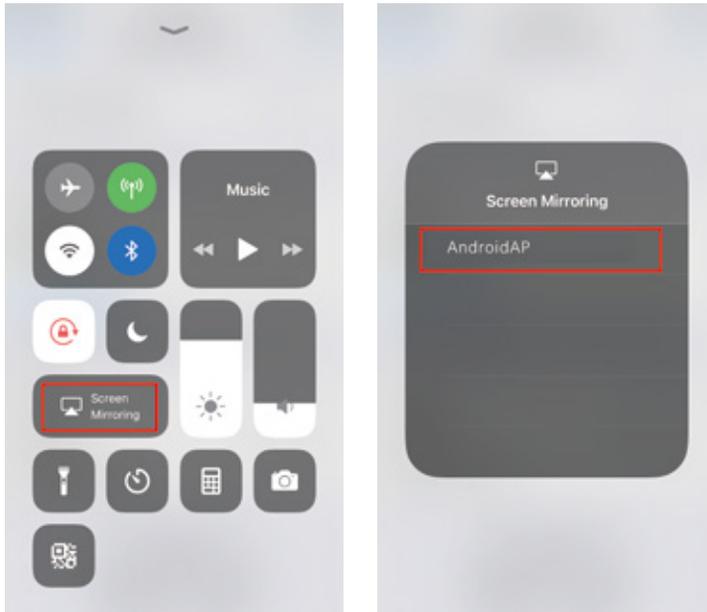


③ Scan QR code and then click mirroring to select AndroidAP to start screen sharing, as shown below:



5.5.2 IOS system mobile phone:

Pull out the menu from the bottom of the phone, click on the Screen Mirroring to select Android AP, and start to screen mirroring, as shown below:



5.6 Multi Terminals Simultaneous Screen Share

First, one terminal (such as a mobile phone, a tablet, or a computer) completes the screen share operation, and another terminal (computer) shall be inserted into the wireless screen transmitter and long-pressed to realize multi terminals screen sharing simultaneously.

5.7 External Device HDMI Display

5.7.1 Find one HDMI cable, and connect one end to the HDMI port of the external device, and connect the other end to the HDMI port of the display (see port No. 12 in the Hardware Ports Instruction).

5.7.2 Press the channel switch button (display button or remote control) to switch to the HDMI display channel.

5.8 Playback via USB

5.8.1 Insert the USB into the USB port of the all-in-one display (see ports No.9/10 in the Hardware Ports Instruction)

5.8.2 Enter the Explorer with the remote control, find the USB, select the corresponding file, click to play; you can use the video player APP to automatically search the media files in the USB and click to play.

VI. Common Troubleshooting and Parts Replacement

6.1 Common Troubleshooting

6.1.1 Partial black screen on boot

- ① Check if the network cable inside the cabinet is in poor contact.
- ② Check if the power cord inside the cabinet is in poor contact.

6.1.2 Inoperative wireless screen share transmitter

- ① Check if the wireless screen share transmitter is plugged in.
- ② Check if the wireless screen share transmitter is paired.
Pairing needs to insert the wireless screen share transmitter into the USB port of the display, and then waiting for the prompt to indicate that the pairing is successful.

Check if the driver software is installed on the computer. If the screen is not automatically installed after being inserted into the USB port of the computer, you need to manually enter My Computer, and find the corresponding drive letter on the device driver, and double-click to install.

6.1.3 Black indicator

- ① Check if the power supply is normal.

- ② Check if the display on/off switch is turned on.

6.1.4 No image display after connecting to the computer with HDMI cable

- ① Check if it is currently in the HDMI channel;
- ② Check if the HDMI cable on the whole unit and the external computer is off or in poor connection;
- ③ Check if the computer graphics card is set to copy mode;
- ④ Check if the graphics card output is normal.

6.1.5 Display malfunction after module or bridge board replacement

Power off and restart the display, enabling the bridge board re-reads the module data.

6.1.6 White lines appear in the display area

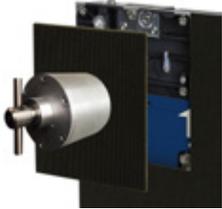
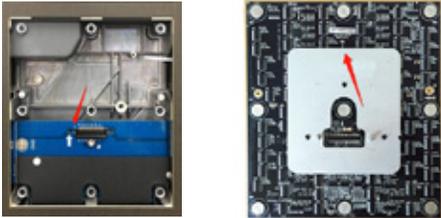
After replacing the LED module or bridge board in the fault display area, power off and restart the display.

6.1.7 Disorganized picture on the whole screen or part of the screen

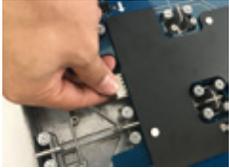
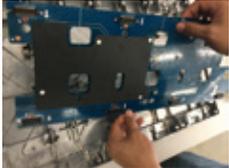
- ① Check the connection order of the display send card port;
- ② Check the display signal line connection sequence.

6.2 Parts Replacement

6.2.1 Module Replacement

Steps	Diagram	Method
Step 1		Find the specific location of the fault module and place the front maintenance tool in the center of the module up to 3cm.
Step 2		Rotate the handle of front maintenance tool to absorb the module, and take out the module in parallel.
Step 3		Pay attention to the arrow direction when installing modules back.

6.2.2 Hub Board Replacement

Steps	Diagram	Method
Step 1		Find the location of the fault cabinet, remove all modules, and unplug the signal line.
Step 2		Unplug the power cord.
Step 3		Remove 9 screws on the hub board.
Step 4		Take out the hub board.

VII. Packaging, Storage and Transportation

7.1 Packaging

All components are packed in cartons. Modules, cabinets and structural fittings are packed separately.

7.2 Storage

Storage environment temperature of cabinet shall be $-10\sim 40^{\circ}\text{C}$, storage relative humidity shall be 10%~85% RH. It is forbidden to place the unit cabinet in the environment of volatile, corrosive and flammable chemicals.

7.3 Transportation

During transportation, it is necessary to handle the packing box lightly to prevent collision or collapse of heavy objects. Do not overturn the packing box and pay attention to moisture-proof for long-time shipping.

VIII. After-sales Service

8.1 Hotline Service

Hotline: +61 1300 841 542

After receiving the demand, the after-sales service center will arrange technical personnel to deal with it immediately.

8.2 Warranty Policy

8.2.1 Description of warranty service content

Aurora provides high-quality after-sales service for I-TV integrated LED display terminal with 2 years warranty.

8.2.2 Extended warranty service

In order to meet the long-term quality assurance requirements of our customers, we can provide extended warranty services. The specific policies can be consulted with sales personnel.

IX. Special Statement

9.1 Intellectual Property Rights: The hardware design and software programs of this product are protected by copyright. The contents of this product and the manual shall not be copied without the authorization of Aurora.

9.2 The contents of this manual are for reference only and do not constitute a commitment of any kind.

9.3 Aurora reserves the right to make improvements and changes to the product design without prior notice.