



# E92-SERIES USER MANUAL

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## **SAFETY WARNING**

Before operating, please read this manual thoroughly and keep it for future reference.

Images shown in this manual are indicative only. There may be differences between the pictures and the actual product.

### **PLACEMENT**

DO NOT put heavy objects on top of the unit.

DO NOT put the unit near appliances that generate magnetic fields.

DO NOT expose the unit to direct sunlight and other sources of heat.

DO NOT place the unit on an unstable cart, stand, tripod, bracket, table, or shelf.

DO NOT put any liquid near or on the unit; make sure not to spill any liquid inside the unit.

### **POWER SUPPLY**

Please keep the power cable from physical or mechanical damage.

Please check and ensure the AC source is connected to the ground.

The power cable with this device is made exclusively for this device only.

Please unplug the power supply if there is a thunder or lightning storm.

Check that the unit's operating voltage is identical to your local power supply.

Please use the original power cable from the accessory bag; don't modify or lengthen it.

Please unplug the power supply when nobody is home, or the unit will be idle for a long time.

### **LED SCREEN**

Unplug the power cable before cleaning.

Clean the screen with a soft, dustless, and dry cloth.

For deep cleaning, please contact an authorized service center.

Never use water or spray-type detergent to clean the unit.

Never use sharp objects to replace the touch pen.

Do not display high-brightness images for too long to preserve the panel's lifetime and performance.

### **TEMPERATURE**

Normal operating temperature is 0 ~ 40°C.

Do not place the unit near or over a radiator or a heater.

If your unit is suddenly moved from a cold to a warm place, please unplug the power cable and do not turn it on for at least 2 hours. This ensures the moisture inside the unit is evaporated.

## **HUMIDITY**

Do not expose the unit to rain or place it in a humid area.

Please make sure your indoor environment is dry and cool. Normal operating humidity is 10%~90%RH.

## **VENTILATION**

Please place the unit in a well-ventilated area, so heat from the device can be released quickly.

Ensure that the unit has enough space for ventilation. Space requirement: left, right, and back >10cm, top > 20cm.

## **EARPHONE**

Before using an earphone, please turn down the volume in advance.

Using an earphone to listen to loud sounds for a long time might affect hearing.

## **STANDBY**

It will enter standby mode if you do not turn off the unit after pressing the standby key.

## **BATTERY**

Please ensure you properly dispose of or recycle the battery after using it.

Please keep the battery away from kids, and don't throw the battery into a fire.

If you replace the battery incorrectly, there is a risk of fire or explosion.

## **NOTES FOR CLEANING**

There are vents on the back cover; please do not use liquid or spray directly on the screen during cleaning.

## **POWER SWITCH STATUS SIGNS**

“I” means power on, “O” means power off.

## **NOTES FOR MAINTENANCE**

This machine can only be maintained by a certified engineer.

## **GRAPHIC CONVENTIONS**

The following symbols may appear throughout this manual to emphasize key points. Keep these in mind to avoid problems with your 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 specific actions may degrade the display's performance or cause a malfunction.



**WARNING** – Alerts that a given action may damage equipment or personal injury.



**DANGER** – Alerts that a given action may cause a serious personal injury or death.

## WHAT'S IN THE BOX?

- Avocor E92-Series Display
- Quick Start Leaflet with QR code
- (1) Remote Control & Batteries
- (2) 3mm fine-tip passive touch styluses
- (1) USB-B 3.0 cable (3m | 118.1 in)
- (1) HDMI cable (3m | 118.1 in)
- (1) Type-C cable (1.8m | 70.9 in)
- Wall Mount
- WiFi-Module
- Power Cables
  - US Cable
  - UK Cable
  - EU Cable
  - AUS Cable

## SPECIFICATIONS

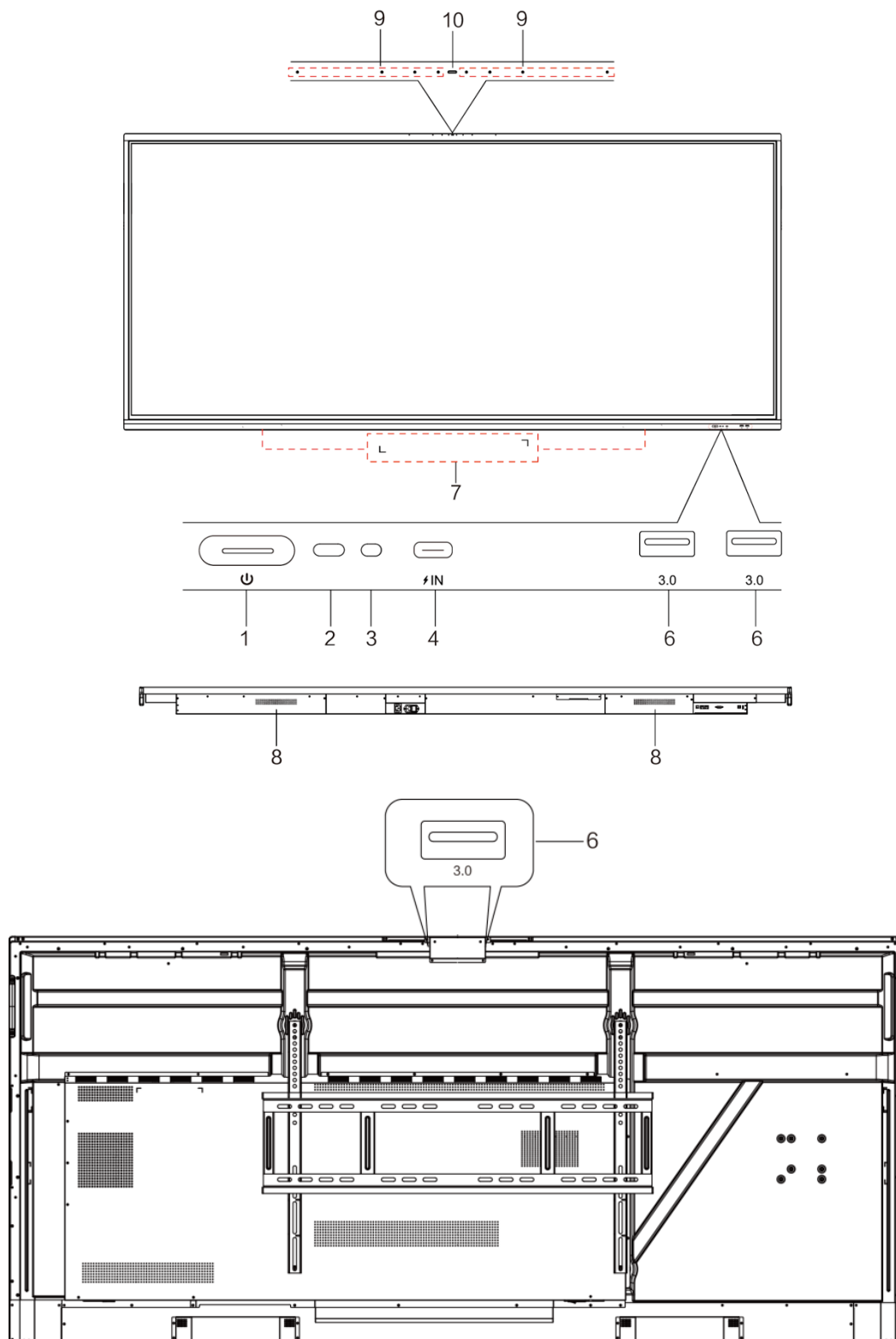
|                           |   |
|---------------------------|---|
| Display                   | AVE-9200  |
| Diagonal Size (Inches)    | 92"   |
| Backlight                 | Direct-lit LED  |
| Aspect Ratio              | 21:9  |
| Resolution                | 5120 x 2160 @ 60Hz  |
| Response Time             | 6.5 ms (Typ)  |
| Brightness                | 450 (cd/m2)   |
| Contrast Ratio            | 4000:1  |
| Viewing Angle             | 178°/178°   |
| Supported Colors          | 1.07B (8 bit + FRC)   |
| Operation Time            | 16 hours x 7 days   |
| Display Orientation       | Landscape   |
| Touch System              |   |
| Touch                     | Up to 50 point IR + 1 stylus  |
| Glass                     | Zero parallax, zero-bond, anti-glare, anti-fingerprint glass                                      |
| Interface                 | 2 x USB-B 2.0, 1 x Type C   |
| CPU                       |   |
| CPU                       | Rockchip RK3588   |
| GPU                       | A76*4+A55*4   |
| RAM/ROM                   | Mali-G610 MP4   |
| Android version           | 8/64GB  |
| Connectivity              |   |
| Front Inputs/Guest Inputs | 1 x Type C (15W PD), 2 x USB-A 3.0  |
| Top inputs                | 2 x USB-A 3.0   |
| Side IO                   | 1 x Type C (100W), 1 x DP 1.4, 3 x HDMI 2.0, HDCP 2.3, 3 x USB-B 2.0, USB-A 3.0, 1 x HDMI 2.0 out |



|                                 |  |
|---------------------------------|--|
| Audio                           | 1x 3.5mm Aux + 1 x Optical (SPDIF)   |
| Control                         | RS-232, 2 x LAN Ethernet (RJ-45)   |
| OPS Slot                        | Intel 80 pin   |
| WiFi                            | Yes  |
| Supported Operating System      | Windows 7/8/10/11/Windows XP/Linux/Mac/Android                                   |
| Audio                           |  |
| Built-in Speakers               | 2 x 20W + 20W sub  |
| Microphone Array                | None   |
| Camera                          | None   |
| Display Functions               |  |
| Auto-Source Detection           | Yes  |
| Image Settings                  | UiQ  |
| Physical Specifications         |  |
| Screen Dimensions (L X W X H)   | 2203 x 92 x 1000mm   86.7 x 3.6 x 39.4 inches                                    |
| Bezel Dimensions                | Top: 29mm, Sides: 18mm, Bottom: 39mm   Top: 1.14, Sides: 0.7, Bottom: 1.5 inches |
| Shipping Dimensions (L X W X H) | 2360mm x 225 x 1140   92.9 x 8.8 x 44.8 inches                                   |
| Weight (Net)                    | Net: 67.6 kgs   149 lbs Gross: 88.5kgs   195 lbs                                 |
| Wall Mount (VESA)               | 100 x 100mm + 75 x 75mm  |
| IPC Mount                       | None   |
| Handles                         | 2  |
| Power                           |  |
| Max Power Consumption           | 250W (w/o OPS)   |
| Power Supply                    | AC IN 100-240V~50/60Hz   |
| AC Power Out                    | AC OUT 100-240V~50/60Hz  |
| Standby                         | ≤0.5W  |



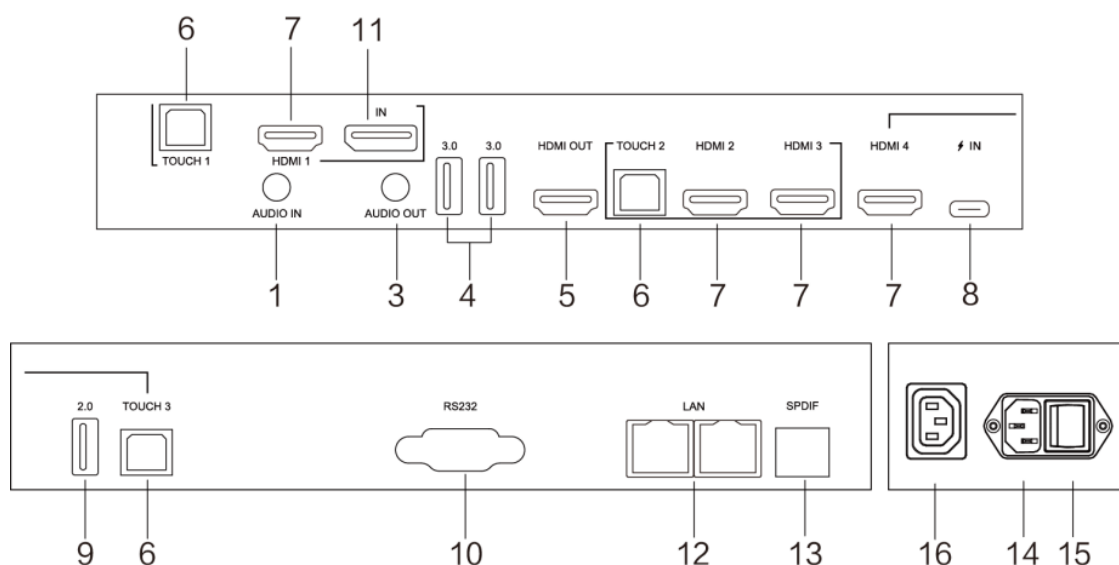
| Environmental         |                                 |
|-----------------------|---------------------------------|
| Operating Temperature | 0°C ~ 40°C / 32° F ~ 104° F     |
| Storage Temperature   | -20° C ~ 60° C / -4° F ~ 140° F |
| Humidity              | 10% ~ 90%                       |
| Warranty              |                                 |
| Global                | 3-year warranty                 |

## PREPARE TO INSTALL



| #  | Items  | Function description  |
|----|--|---|
| 1  |     | Tap to enter energy-saving mode, and press for at least 2 seconds to enter standby mode.  |
| 2  | Remote control signal receiver   | Receive remote control signal   |
| 3  | Light sensor   | Sense ambient light to adjust the backlight for appropriate brightness; this can be switched in the menu  |
| 4  |  IN | <p>USB Type C: Supports charging, data transmission, extension for audio and video output interface, etc.</p> <p>Note: The maximum rated power of the USB Type-C port of this product is PD 5V 3A.</p> <p>When using this port to charge electronic devices, the charging power of the electronic device cannot exceed the rated power of this port. If the electronic device's charging power exceeds this port's rated charging power, please do not use this port directly for charging.</p> |
| 5  | HDMI 4   | High-definition multimedia interface signal input, connect to devices with HDMI output interface (ex: personal computer with HDMI output, set-top box, or another video device)   |
| 6  | 3.0  | Connect USB devices such as a mobile hard disk, U disk, USB keyboard, mouse, USB drives, etc.   |
| 7  | Magnetic zone  | Area for placing the absorptive magnetic pen  |
| 8  | Loudspeaker  | Sound output  |
| 9  | Array microphone   | The sound is collected when the microphone is on  |
| 10 | Microphone indicator light   | White light means the microphone is working   |

## TERMINAL INTERFACE



| #  | Items           | Function description  |
|----|-----------------|---|
| 1  | AUDIO IN        | External audio sources input (It is generally used as the sound input of the VGA interface)   |
| 2  | USB Type-C OUT* | It supports data transmission, audio, and video output extension extensions, etc.   |
| 3  | AUDIO OUT       | Audio output to the external speaker  |
| 4  | 3.0             | Connect USB devices such as a mobile hard disk, U disk, USB keyboard, mouse, USB drives, etc.   |
| 5  | HDMI OUT        | Connected to the devices with HDMI input function (monitor)   |
| 6  | TOUCH           | Touch signal output to the external computer  |
| 7  | HDMI 1/2/3/4    | High-definition multimedia interface signal input, connect to devices with HDMI output interface (a personal computer with HDMI output, set-top box, or another video device)   |
| 8  | ⚡ IN            | <p>USB Type C: Supports charging, data transmission, extension for audio and video output interface, etc.</p> <p>Note: The maximum rated power of the USB Type-C port of this product is PD 5V 3A.</p> <p>When using this port to charge electronic devices, the charging power of the electronic device cannot exceed the rated power of this port. If the electronic device's charging power exceeds this port's rated charging power, please do not use this port directly for charging.</p> |
| 9  | 2.0             | Connect USB devices such as a mobile hard disk, U disk, USB keyboard, mouse, USB drives, etc.   |
| 10 | RS232           | Serial interface, used for mutual transfer of data between devices  |

|    |           |   |
|----|-----------|---|
| 11 | DP IN     | Connected to devices with a Display Port output function                          |
| 12 | LAN       | Connected to Ethernet   |
| 13 | SPDIF     | Carries multichannel sound via optical signals                                    |
| 14 | AC IN     | AC power input, connecting AC power supply  |
| 15 | AC SWITCH | To open or shut down the AC power supply. "I" means power on, "O" means power off |
| 16 | AC OUT    | AC Power output, connecting AC power supply                                       |

Note: [\*] Indicates partial terminals are optional

# THE REMOTE CONTROL



| Button | Description  |
|--------|--|
|        | <b>Power</b><br>Turns the display screen on and off                              |
|        | <b>Home</b><br>Switch to <i>Favorite Source</i> input ( <i>Home</i> by default). |
|        | <b>Source</b><br>Selects a media source  |
|        | <b>Navigation arrows</b><br>Navigates through submenus and settings              |
|        | <b>OK</b><br>Confirms the selection  |
|        | <b>Exit</b><br>Exits the OSD menu  |
|        | <b>Volume down</b><br>Turns down the volume                                      |
|        | <b>Volume up</b><br>Turns up the volume  |
|        | <b>Menu</b><br>Opens the OSD menu  |

## 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 will 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

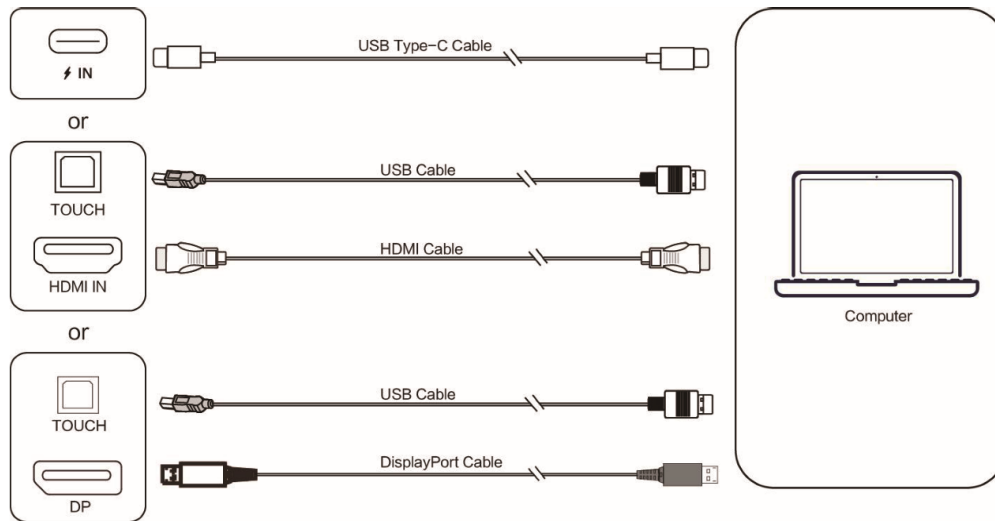
- The effective area of the remote control includes the vertical distance within five metres in front of the display, and the area within an angle of 30 degrees from the vertical point to the left and the right.


## CONNECTION AND SETTING



Please do not connect any power plug before connecting for your safety and the machine's safety.

### EXTERNAL COMPUTER AND TOUCH CONNECTION



1. Use a USB Type-C cable to connect to a computer (Or use an HDMI cable to connect to the HDMI output port of an external computer. Or use a Display Port cable to connect to the display output port of an external computer).
2. Use a USB cable to connect to a USB port on an external computer.
3. After the cable is connected, plug in the power cord and switch the power on.
4. Start up your external computer.
5. Press  the key and make sure the equipment is powered on.
6. Switch the input source to the USB Type-C/HDMI /Display Port channel in the main menu.

**NOTE:** For the external computer input, the equipment's best resolution is 3840\*2160.

### RECOMMENDED COMPUTER CONFIGURATION:

1GB Available Hard Drive

2.0GHz Processor, 1GB Memory

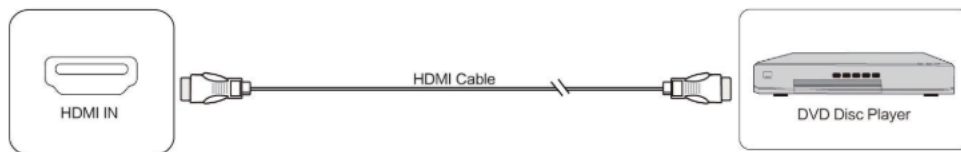
More than 256 color display cards


VGA OUT / HDMI OUT, Audio-OUT, USB Interface

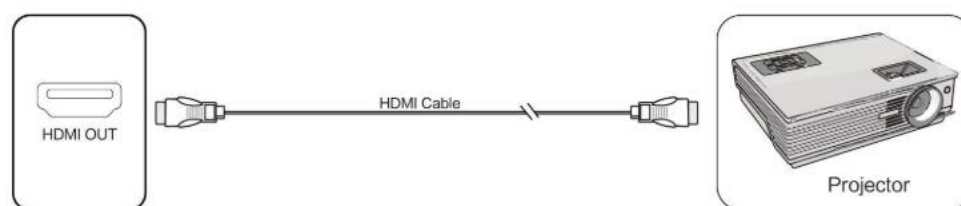
Support Resolution : 800×600,1024×768, 1920×1080, 3840×2160




## AUDIO AND VIDEO EQUIPMENT

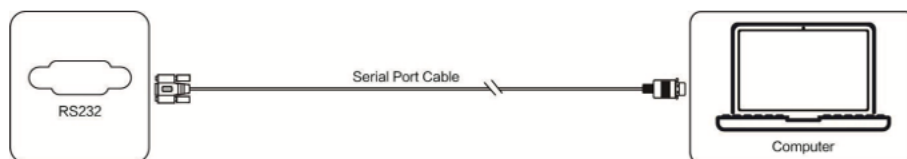


1. Use an HDMI cable to connect the audio and video equipment to the HDMI output.
2. After the cable is connected, plug in the power cord and switch the power on.
3. Press  to turn the equipment on.
4. Switch the input source to the HDMI channel in the main menu.



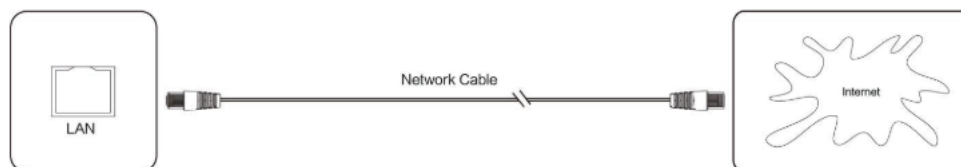
1. Use the HDMI cable to connect the audio and video equipment to the HDMI input.
2. After the cable is connected, plug in the power cord and switch the power on.
3. Press  to turn the equipment on.

## RS232 CONNECTION

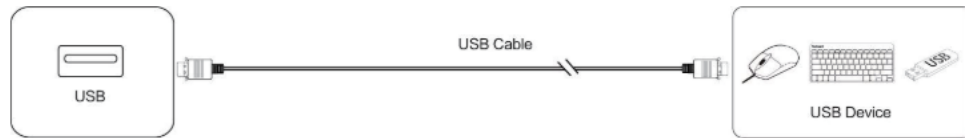


After using the serial port cable to connect the central control equipment and the machine, certain functions can be controlled with the central control equipment, such as machine ON/OFF, the adjustment of sound volume, etc.

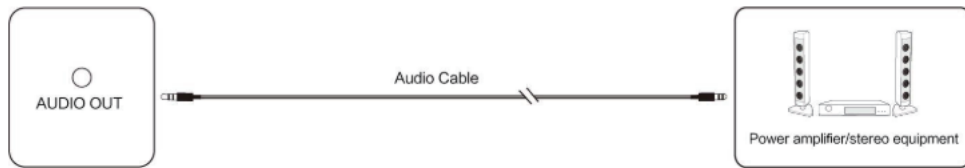
## LAN CONNECTION



## USB CONNECTION

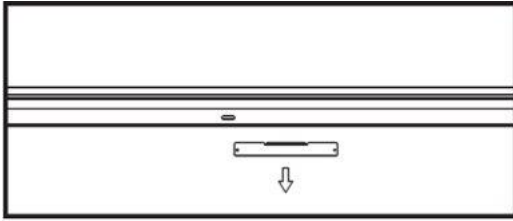


## AUDIO OUT CONNECTION

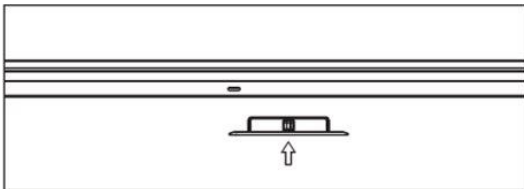


## WI-FI MODULE INSTALLATION

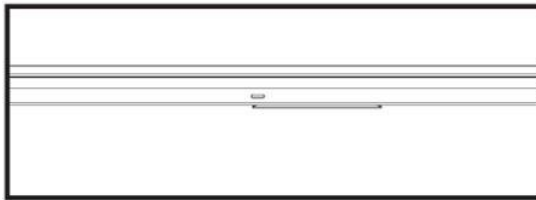
1. Take off the Cover using a Philips screwdriver.



2. Insert the Wi-Fi module fully into the Avocor AVE-9200 display along the direction of the arrow.

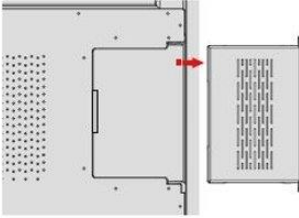


3. Complete assembly.

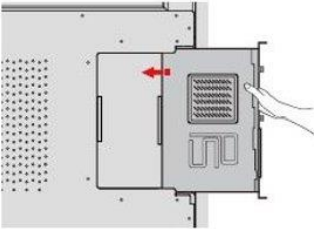


## OPS MODULE INSTALLATION

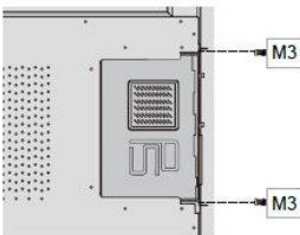
1. Ensure that the display is turned off.
2. Use a Philips screwdriver to unscrew the OPS slot shield on the display input panel. Do not lose the screws that are removed.



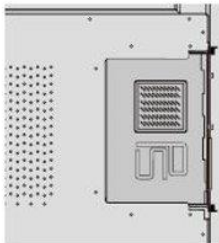
3. Install the OPS module by sliding it into the OPS slot until you hear a click, indicating the module is securely inserted. When using an Avocor OPS PC, the fan should be visible.



4. Secure the OPS module in position by screwing it onto the display input panel using the screws that were removed earlier.



5. Ensure the installation is complete before turning on the power.



6. Turn on the display. When using an Avocor OPS PC you should see a green light on the side of the OPS, this will indicate that the OPS PC is switched on and operational.



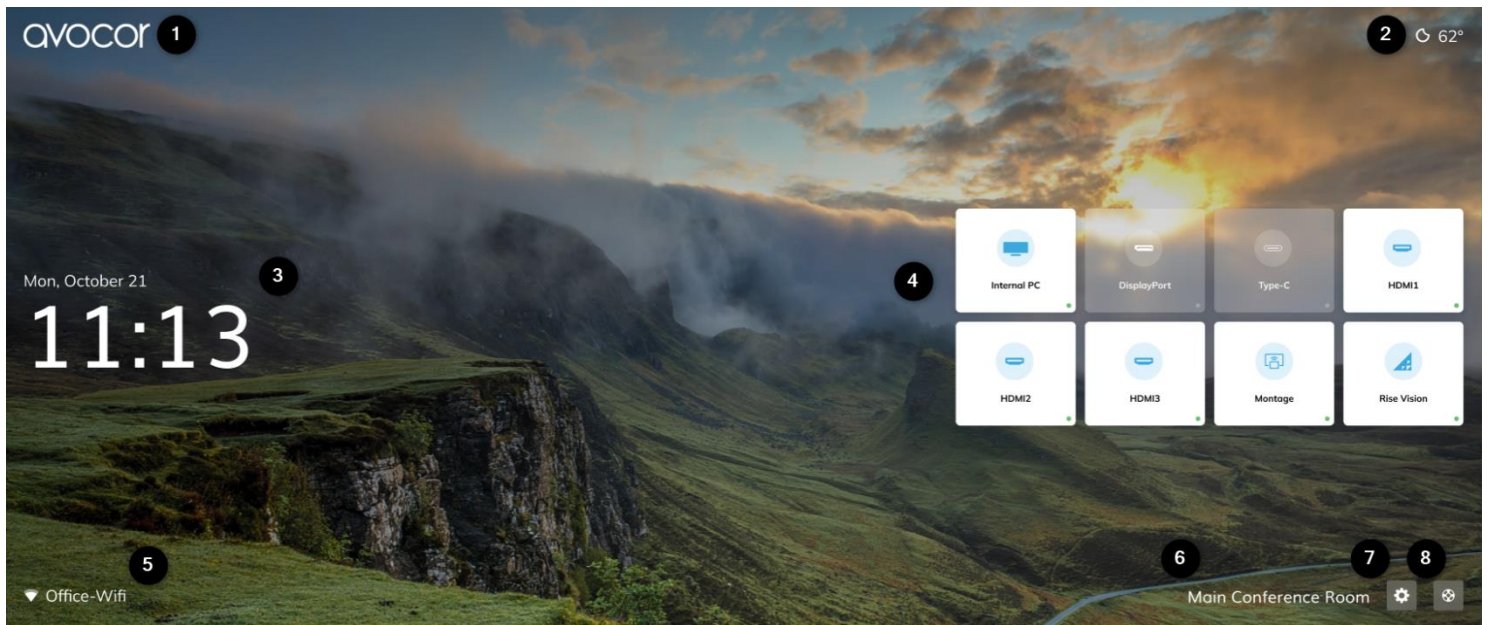
When installing or de-installing an OPS PC, the display must be switched off. If the display is on when performing the installation or deinstallation of the OPS PC, this could cause damage to either the display or OPS PC invalidating the warranty for both.





The AVE-9200 supports OPS modules that follow the OPS standard.

# OPERATION

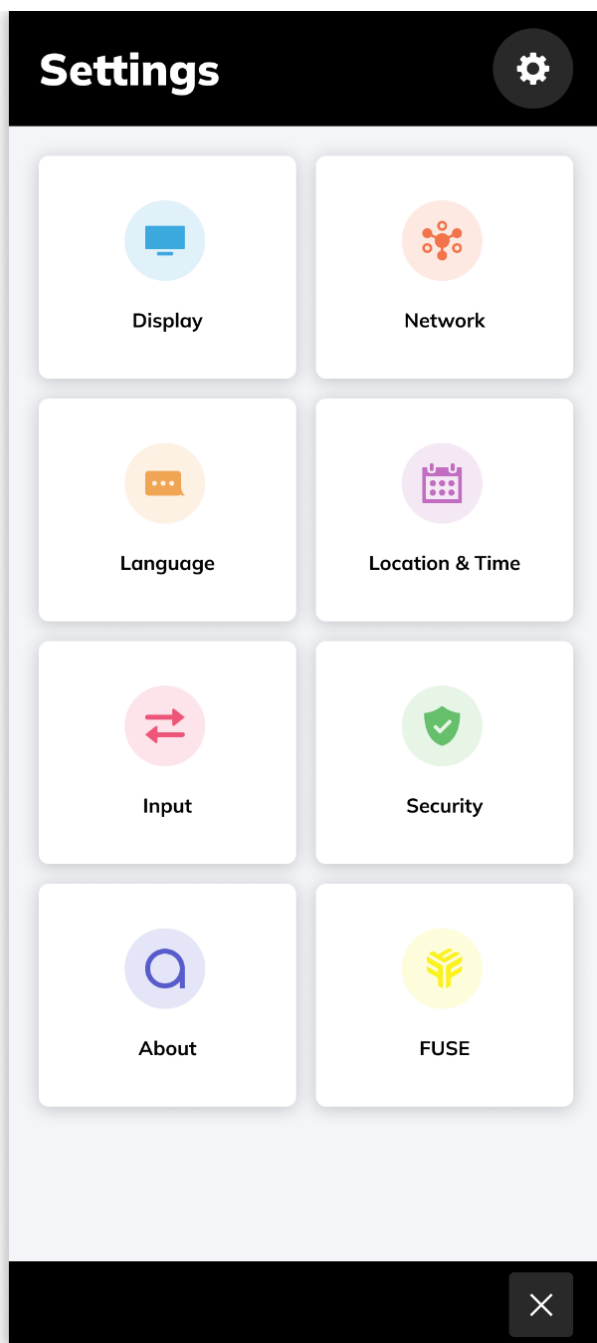
## THE HOME SCREEN



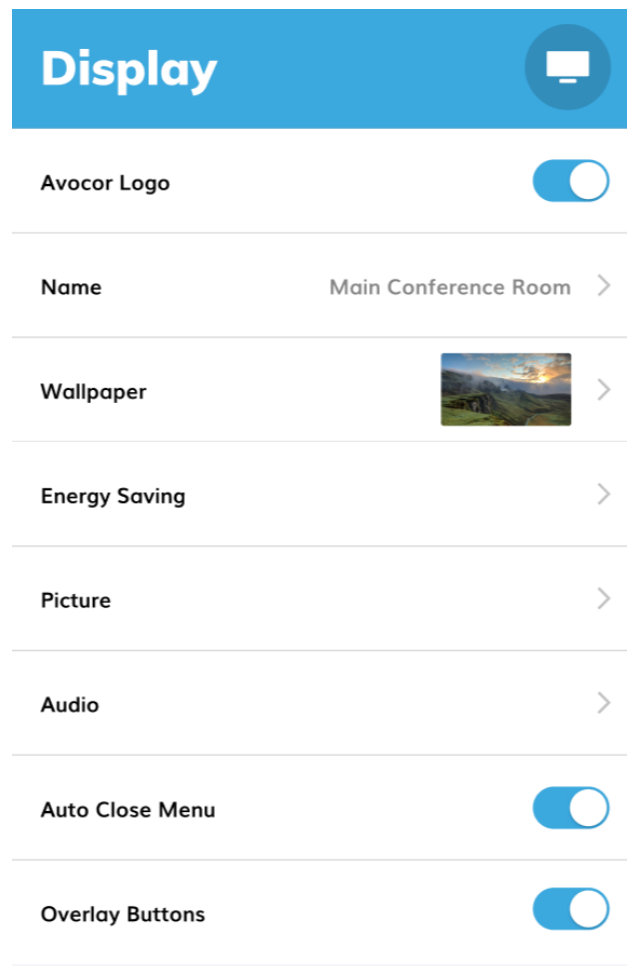
- 1 **Avocor logo:** can be toggle on/off, see [Display Settings](#).
- 2 **Weather icon and temperature:** powered by OpenWeather® API, shows the current weather conditions and temperature for the Location selected in [Location & Time](#). Network connection is required.
- 3 **Date and time:** configurable in [Location & Time](#). Auto-date and time requires a network connection.
- 4 **Source tiles:** white, highlighted sources are indicative of active source connections; touch an active source, or highlight via the RCU, to switch to it. Source names and tile configuration can be changed in [Input](#).
- 5 **Network icon and network name:** Indicates network name and connection type. Configurable in [Network](#).
 

 - Ethernet/LAN connected  
 - Wi-Fi connected
- 6 **Display name:** configurable in [Display Settings](#).
- 7 **UiQ Settings:** touch this icon or select it via the RCU to open [UiQ Settings](#). You can also press the Settings button on the RCU to access this menu at any time.
- 8 **Support:** submit a review and get help with your display; see Support for more information.

## UIQ SETTINGS



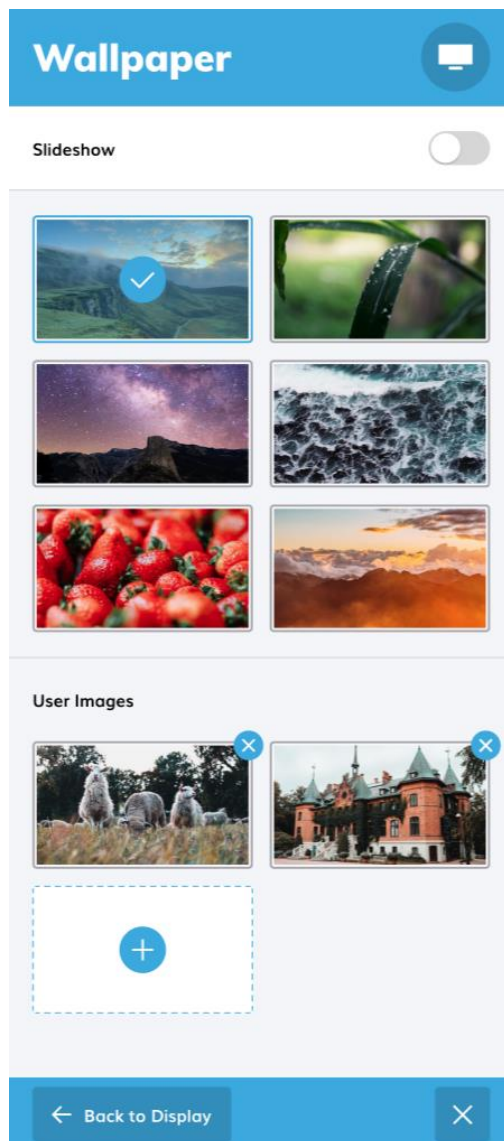
- **Display:** Avocor Logo, Name, Wallpaper Energy Saving, Picture, Audio.
- **Network:** Status, LAN, Wi-Fi, Wake On LAN, LAN USB.
- **Language:** English, Deutsch, Español, Français, Italiano, Nederlands.
- **Location & Time:** Location, Auto Date & Time, Set Date, Set Time, Use 24-Hour Time, Date Format, Weather>Unit.
- **Input:** Favorite Source, Starting Source, Timeout Source, Auto Detect New Input, Source Preview, Rename Sources, Advanced Settings.
- **Security:** Require Passkey, Set Passkey, Lock Front Button.
- **About:** Display Information, Update System, Factory Data Reset, Internal Storage, Warranty Information.
- **Fuse:** Register Device to Fuse, Status, Device Name, Space Name, Claimed By.

**DISPLAY SETTINGS**

- **Avocor Logo:** Toggles the presence of the Avocor logo on the Home Screen.
- **Name:** Changes the name assigned to the display, which is visible on the Home Screen.
- **Wallpaper:** changes the background image of the Home Screen.
- **Energy Saving:** settings that affect power and sleep.
- **Picture:** adjust image properties.
- **Audio:** adjust sound properties.
- **Auto Close Menu:** toggle on to enable the UiQ Settings menu to close after a 60-second idle period.
- **Overlay Buttons:** toggle on/off the touch Overlay Buttons (AVL-1050-T only).



## Wallpaper



➤ **Slideshow:** toggle on, and the Home Screen background will cycle through all selected images.

➤ **Default Images:** high definition 21:9 images preloaded on the AVE-9200 display; touch the desired image(s), or highlight and select with the RCU, to set as the Home Screen background.

➤ **User Images:** upload and select custom images for the Home Screen background; see [custom wallpapers](#) for further instruction.

### Custom Wallpapers

Follow these instructions to upload your own wallpaper images. Note: Only 1920x1080 images or higher are supported.

1. Take a USB flash drive
2. Open the USB flash drive's *file directory* on a computer.
3. Create a new folder with the name **WALLPAPER**.
4. Save all images you want to use into the **WALLPAPER** folder.
5. On the Display navigate to **Settings>Display>Wallpaper**.
6. Under *User Images*, touch the blank tile containing the "+" symbol (see image).
7. Plug your flash drive into the USB service port, you will then be able to select compatible images to upload.

## Energy Saving

Energy Saving

Auto Power Schedule

Power On Time

8:30 am >

Power Off Time

6:30 pm >

Presence Detection

Eco Mode

Internal PC Always On

Display Sleep

Never

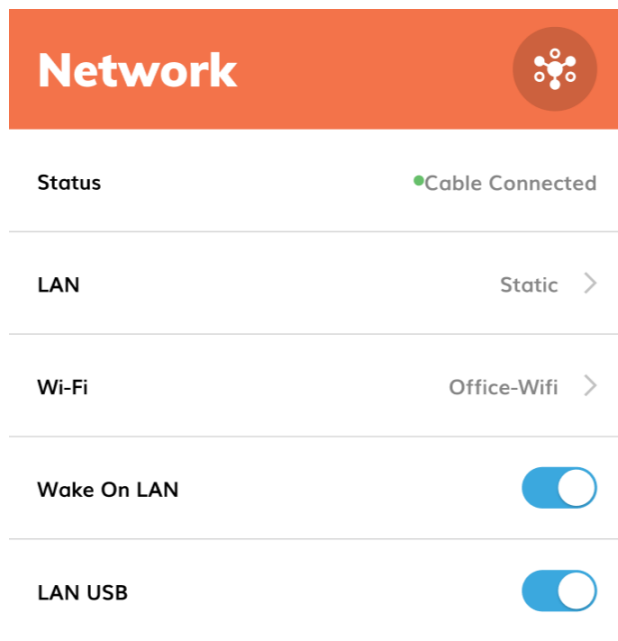
1 min

3 hrs

Never

- **Auto Power Schedule:** toggle on to enable automatic power scheduling.
- **Power On Time:** select the time and days of the week to automatically power on the display.
- **Power Off Time:** select the time and days of the week to automatically power off the display.
- **Presence Detection:** toggle on and the display will wake from sleep at the detection of movement.
- **Eco Mode:** toggles on to enable an Energy Star® compliant power state for the display; *permanently disabled once registered to Fuse.*
- **Internal PC Always On:** toggle on to keep the OPS power on, even when the display is in standby; *permanently enabled once registered to Fuse.*
- **Display Sleep:** use this slider to set an idle timer between 1 minute and 3 hours of no interaction before the display goes to sleep

## NETWORK SETTINGS



- **Status:** shows network connection status.
- **LAN:** set a "Static IP" or "DHCP," check LAN configuration, view ethernet MAC address.
- **Wi-Fi:** configure Wi-Fi settings, view Wi-Fi MAC address.
- **Wake on LAN:** toggle "Wake On LAN".
- **LAN USB:** toggle to pass network connection through the display's USB HUB

## LANGUAGE SETTINGS



- **Language:** Set the language for the display's user interface.
  - Currently supported languages:
    - English
    - Deutsch
    - Español
    - Français
    - Italiano
    - Nederlands

## LOCATION & TIME SETTINGS

Location & Time

Location

Detroit, MI - EDT >

Auto Date & Time

Set Date

>

Set Time

>

Use 24-Hour Time

☐

Date Format

Mon. October 21 >

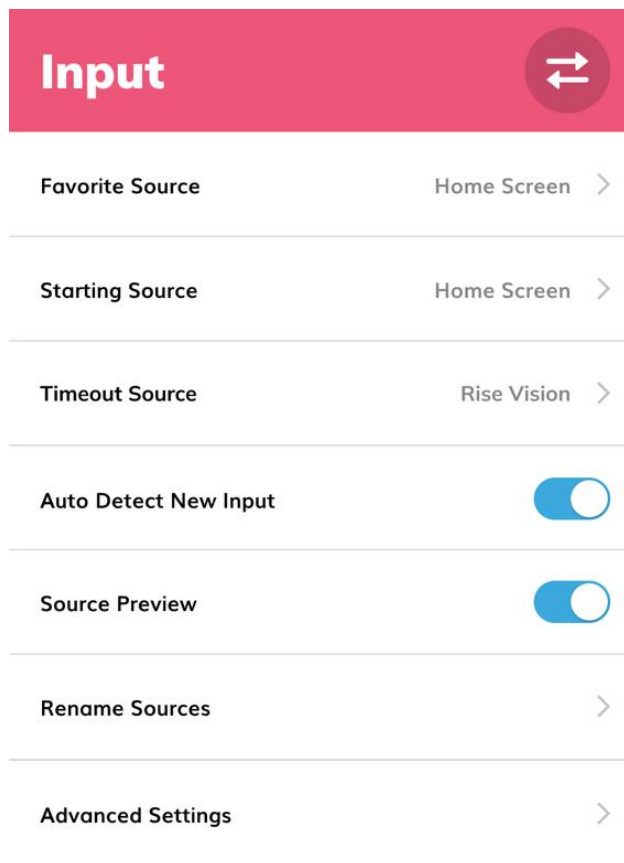
WEATHER


Unit

°F >

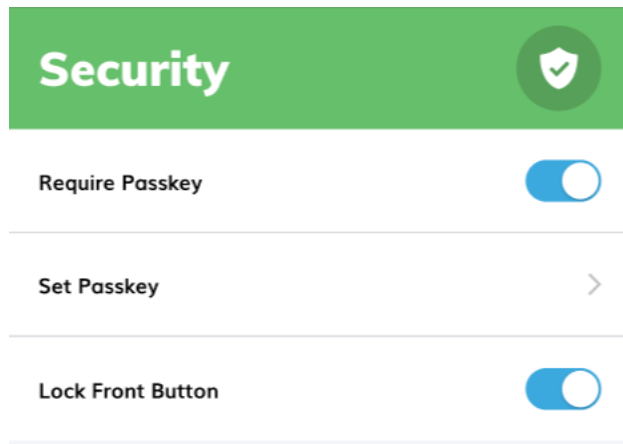
- **Location:** set location dependency for Auto Date & Time and Weather information.
- **Auto Date & Time:** toggle Auto Date & Time On or Off (if On internet connection required).
- **Set Date:** manually set the date.
- **Set Time:** manually set the time.
- **Use 24 Hour Time:** toggle 24-hour clock.
- **Date Format:** set date format.
- **Unit:** set unit for measure of temperature (°F, °C)

## INPUT SETTINGS



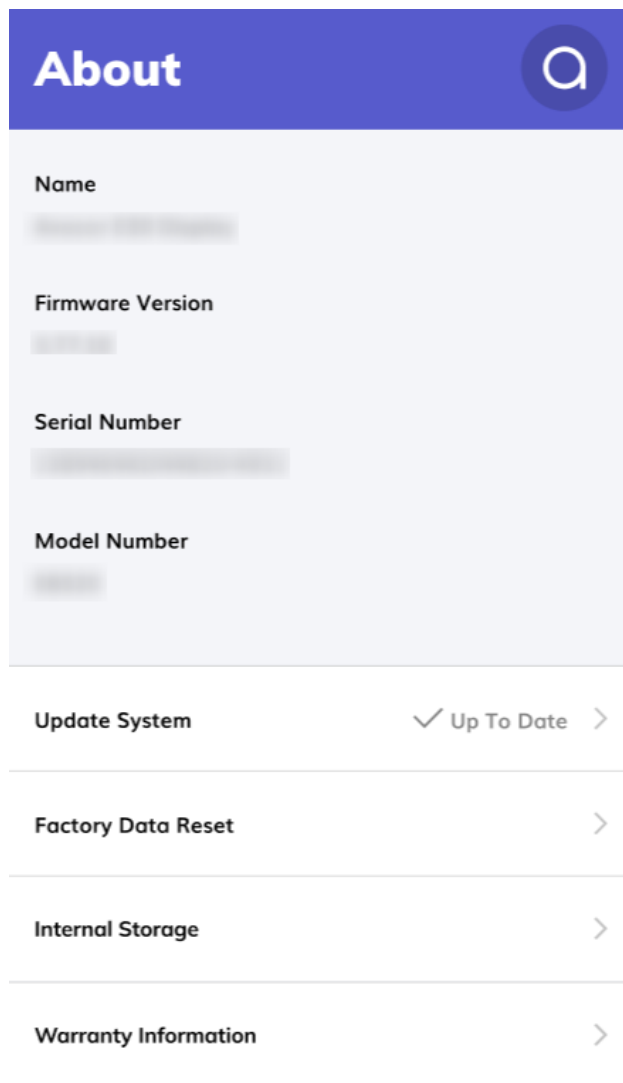
- **Favorite Source:** sets the source tied to the Home  button on the remote and *Overlay Buttons*.
- **Starting Source:** sets the default source shown when the display powers on.
- **Timeout Source:** set a source to automatically switch to after a set idle period.
- **Auto Detect New Input:** toggle to enable the display to automatically switch to a new active source connection.
- **Source Preview:** toggle on to generate an image preview upon selecting a *Source Tile* from the *Home Screen*.
- **Rename Sources:** set custom names for sources.
- **Advanced Settings:** toggle *Wake on Input* and view detailed video signal information.

## SECURITY



- **Require Passkey:** toggle to require a passkey to access UiQ Settings.
- **Set Passkey:** set the passkey.
- **Lock Front Keys:** lock the front panel buttons on the display.


## ABOUT



- **Name:** personalized display name, assigned when claimed in Fuse.
- **Firmware Version:** shows the display's current firmware version.
- **Serial Number:** unique product identifier.
- **Model Number:** model ID for the display.
- **Update System:** when status changes to "Update Available!" select this menu to begin the [Update System process](#).
- **Factory Data Reset:** restore factory defaults for the display.
- **Internal Storage:** shows the display's remaining internal storage space.
- **Warranty Information:** shows the display's remaining warranty.

## Update System Firmware

### Update System



**New System Version**  
5.0.2

**New Firmware Version**  
HHT\_U6H0L13T5M0005NYENEN\_MS828.15.A75\_V1.3.  
3\_20180621.144018\_785b2ec

**Release Notes**

- Improved EDID compatibility.
- Fixed Wake on Input when using DisplayPort.
- Improved input switching time.
- UI updates.
- Various bug fixes.

**Download & Apply Update** →

**USB Update** >

- **New System Version:** numerical designation for the new update.
- **New Firmware Version:** expanded firmware version number.
- **Release Notes:** changes and fixes present in the new version will be listed here.
- **Download & Apply Update:** select this to begin the update process.
- **USB Update:** select this to update via USB.

## EXTERNAL CONTROL

This section provides information on external control setup for room control systems. RS232 and LAN control options are supported.

### RS232 CONNECTION AND PORT CONFIGURATION

Connect your control system or PC to the **RS232** input of the display via a 9-pin **straight-through** connector cable and set the baud rate to 9600 on your controller device.

### LAN CONTROL CONFIGURATION

Connect your network, control system, or PC to the display's **LAN** port via a CAT5 cable. The display must be connected to the network and must have a valid IP address. Configure your control system to run through **Port 4664**.

### COMMAND AND RESPONSE FORMAT

Any commands sent from an automation/control system or PC to an Avocor display must have the following format:

[byte1] [byte2] [byte3] [byte4] [byte5] [byte6] [byte7] [byte8] [byte9]

- [byte1] indicates the start of the command data (always 3A).
- [byte2] & [byte3] are always 30 & 31, respectively; calls for the machine ID, 1.
- [byte4] defines the command type:
  - 53 = SET command
  - 47 = GET command
- [byte5] is the parameter (Param) setting for the command.
- [byte6], [byte7], [byte 8] are variable, data inputs.
- [byte9] indicates the end of the command string, always 0D.



## SERIAL COMMAND LIST

| Event        | Param. | Value               | Command                    |
|--------------|--------|---------------------|----------------------------|
| Power        | 30     | 000 : backlight off | 3A 30 31 53 30 30 30 30 0d |
|              |        | 001 : backlight on  | 3A 30 31 53 30 30 30 31 0d |
|              |        | 002 : power off     | 3A 30 31 53 30 30 30 32 0d |
|              |        | 003 : power on      | 3A 30 31 53 30 30 30 33 0d |
| Treble       | 31     | -xx: -5~0           | 3A 30 31 53 31 2D 30 33 0d |
|              |        | +xx: 0~5            | 3A 30 31 53 31 2B 30 33 0d |
| Bass         | 32     | -xx: -5~0           | 3A 30 31 53 32 2D 30 35 0d |
|              |        | +xx: 0~5            | 3A 30 31 53 32 2B 30 35 0d |
| Balance      | 33     | -xx: -50~0          | 3A 30 31 53 33 2D 35 30 0d |
|              |        | +xx: 0~50           | 3A 30 31 53 33 2B 32 30 0d |
| Contrast     | 34     | 000 ~ 100           | 3A 30 31 53 34 30 35 30 0d |
| Brightness   | 35     | 000 ~ 100           | 3A 30 31 53 35 30 35 30 0d |
| Sharpness    | 36     | 000 ~ 100           | 3A 30 31 53 36 30 31 30 0d |
| Sound Mode   | 37     | 000 : Movie         | 3A 30 31 53 37 30 30 30 0d |
|              |        | 001 : Standard      | 3A 30 31 53 37 30 30 31 0d |
|              |        | 002 : Custom        | 3A 30 31 53 37 30 30 32 0d |
|              |        | 003 : Classroom     | 3A 30 31 53 37 30 30 33 0d |
|              |        | 004 : Meeting       | 3A 30 31 53 37 30 30 34 0d |
| Volume       | 38     | 000 ~ 100           | 3A 30 31 53 38 30 35 30 0d |
| Mute         | 39     | 000: Off            | 3A 30 31 53 39 30 30 30 0d |
|              |        | 001: On             | 3A 30 31 53 39 30 30 31 0d |
| Video Source | 3A     | 000 : VGA           | 3A 30 31 53 3A 30 30 30 0d |
|              |        | 001 : HDMI1         | 3A 30 31 53 3A 30 30 31 0d |
|              |        | 002: HDMI2          | 3A 30 31 53 3A 30 30 32 0d |
|              |        | 003 : AV            | 3A 30 31 53 3A 30 30 33 0d |

|                        |    |                    |                            |
|------------------------|----|--------------------|----------------------------|
|                        |    | 022 : HDMI4        | 3A 30 31 53 3A 30 32 32 0d |
|                        |    | 021 : HDMI3        | 3A 30 31 53 3A 30 32 31 0d |
|                        |    | 031 : VGA2         | 3A 30 31 53 3A 30 33 31 0d |
|                        |    | 032 : VGA3         | 3A 30 31 53 3A 30 33 32 0d |
|                        |    | 051 : ATV          | 3A 30 31 53 3A 30 35 31 0d |
|                        |    | 101 : android      | 3A 30 31 53 3A 31 30 31 0d |
|                        |    | 103 : Slot in PC   | 3A 30 31 53 3A 31 30 33 0d |
|                        |    | 007 : Display Port | 3A 30 31 53 3A 30 30 37 0D |
|                        |    | 102 : android +    | 3A 30 31 53 3A 31 30 32 0D |
|                        |    | 104 : Type-C1      | 3A 30 31 53 3A 31 30 34 0D |
|                        |    | 105 : Type-C2      | 3A 30 31 53 3A 31 30 35 0D |
|                        |    | 106: DTV           | 3A 30 31 53 3A 31 30 36 0D |
|                        |    | 107 : YPbpr        | 3A 30 31 53 3A 31 30 37 0D |
| Aspect Ratio           | 3B | 000 : 16:9         | 3A 30 31 53 3B 30 30 30 0d |
|                        |    | 001 : 4:3          | 3A 30 31 53 3B 30 30 31 0d |
|                        |    | 002 : PTP          | 3A 30 31 53 3B 30 30 32 0d |
| Language               | 3C | 000: English       | 3A 30 31 53 3C 30 30 30 0d |
|                        |    | 001: Français      | 3A 30 31 53 3C 30 30 31 0d |
|                        |    | 002: Español       | 3A 30 31 53 3C 30 30 32 0d |
|                        |    | 006: German        | 3A 30 31 53 3C 30 30 36 0d |
|                        |    | 007: Dutch         | 3A 30 31 53 3C 30 30 37 0d |
|                        |    | 011: Danish        | 3A 30 31 53 3C 30 31 31 0d |
|                        |    | 013: Italian       | 3A 30 31 53 3C 30 31 33 0d |
| Picture Mode           | 3D | 000 : standard     | 3A 30 31 53 3D 30 30 30 0d |
|                        |    | 001 : bright       | 3A 30 31 53 3D 30 30 31 0d |
|                        |    | 002 : soft         | 3A 30 31 53 3D 30 30 32 0d |
|                        |    | 003 : customer     | 3A 30 31 53 3D 30 30 33 0d |
| Hue (Color)            | 3E | 000 ~ 100          | 3A 30 31 53 3E 30 33 30 0d |
| Backlight              | 3F | 000 ~ 100          | 3A 30 31 53 3F 30 35 30 0d |
| Color Temp             | 40 | 000 : Cool         | 3A 30 31 53 40 30 30 30 0d |
|                        |    | 001 : Standard     | 3A 30 31 53 40 30 30 31 0d |
|                        |    | 002 : Warm         | 3A 30 31 53 40 30 30 32 0d |
| Remote control command | 41 | 000 : Vol +        | 3A 30 31 53 41 30 30 30 0d |
|                        |    | 001 : Vol -        | 3A 30 31 53 41 30 30 31 0d |
|                        |    | 010 : Up           | 3A 30 31 53 41 30 31 30 0d |
|                        |    | 011 : Down         | 3A 30 31 53 41 30 31 31 0d |

|                     |    |                  |                            |
|---------------------|----|------------------|----------------------------|
|                     |    | 012 : Left       | 3A 30 31 53 41 30 31 32 0d |
|                     |    | 013 : Right      | 3A 30 31 53 41 30 31 33 0d |
|                     |    | 014 : Enter      | 3A 30 31 53 41 30 31 34 0d |
|                     |    | 020 : Menu       | 3A 30 31 53 41 30 32 30 0d |
|                     |    | 021 : Input      | 3A 30 31 53 41 30 32 31 0d |
|                     |    | 022 : Back/Exit  | 3A 30 31 53 41 30 32 32 0d |
|                     |    | 031 : Blank      | 3A 30 31 53 41 30 33 31 0d |
|                     |    | 032 : Freeze     | 3A 30 31 53 41 30 33 32 0d |
|                     |    | 033 : Mute       | 3A 30 31 53 41 30 33 33 0d |
|                     |    | 034 : Home       | 3A 30 31 53 41 30 33 34 0d |
| IR                  | 42 | 000: Enable      | 3A 30 31 53 42 30 30 30 0d |
|                     |    | 001: Disable     | 3A 30 31 53 42 30 30 31 0d |
| Speaker             | 43 | 000 : off        | 3A 30 31 53 43 30 30 30 0d |
|                     |    | 001 : on         | 3A 30 31 53 43 30 30 31 0d |
| Touch               | 44 | 000 : off        | 3A 30 31 53 44 30 30 30 0d |
|                     |    | 001 : on         | 3A 30 31 53 44 30 30 31 0d |
| Screen              | 45 | 000 : off        | 3A 30 31 53 45 30 30 30 0d |
|                     |    | 001 : on         | 3A 30 31 53 45 30 30 31 0d |
| No signal power off | 46 | 000: off         | 3A 30 31 53 46 30 30 30 0d |
|                     |    | 001 : 1 minute   | 3A 30 31 53 46 30 30 31 0d |
|                     |    | 003 : 3 minutes  | 3A 30 31 53 46 30 30 33 0d |
|                     |    | 005 : 5 minutes  | 3A 30 31 53 46 30 30 35 0d |
|                     |    | 010 : 10 minutes | 3A 30 31 53 46 30 31 30 0d |
|                     |    | 015 : 15 minutes | 3A 30 31 53 46 30 31 35 0d |
|                     |    | 030 : 30 minutes | 3A 30 31 53 46 30 33 30 0d |
|                     |    | 045 : 45 minutes | 3A 30 31 53 46 30 34 35 0d |
|                     |    | 060 : 60 minutes | 3A 30 31 53 46 30 36 30 0d |

## SIMPLE TROUBLESHOOTING

### MACHINE FAILS TO WORK NORMALLY

|                                      |   |
|--------------------------------------|---|
| Remote control failure               | Check whether there are other objects between the remote control and the equipment control receiving window, thus leading to the failure of the remote control.           |
|                                      | Check whether the battery in the remote control is correct.   |
|                                      | Check whether the remote control battery needs to be replaced.  |
| The machine automatically shuts down | Check whether it is set to sleep or not.  |
|                                      | Check whether there was a sudden power outage.  |
|                                      | The system will automatically shut down if the interactive intelligent Panel's external channel loses signal for 5 minutes. Please check the signal input and connection. |

### PC MODE

|   |   |
|---|---|
| Signal out of range                           | Check whether the display is set correctly.                           |
|   | Check whether the resolution is the best.                             |
|   | Adjust line and field synchronization in the menu.                    |
| The background has vertical lines or streaks  | Adjust the clock and phase position in the menu.                      |
|   | Select automatic correction in the menu.                              |
| The image lacks color; the color is incorrect | Check whether the VGA is not well connected or has a quality problem. |
|   | Adjust chromatic and brightness or contrast in the menu.              |
| Display format that is not supported          | Select automatic correction in the menu.                              |
|   | Adjust the clock and phase position in the menu.                      |

## TOUCH TROUBLESHOOTING

|                                  |  |
|----------------------------------|--|
| The touch function is invalid    | Check whether the size of the article touched is comparable with a finger. |
| Touch positioning is not correct | Check whether the touch pen is facing the screen.                          |

## VIDEO TROUBLESHOOTING

|  |  |
|--|--|
| No picture and no sound                                | Check whether the machine is in a started state.                                       |
|  | Check whether the signal wire is well plugged and whether INPUT corresponds.           |
|  | If in internal computer mode, check whether the internal computer is started.          |
| With horizontal or vertical stripes or image dithering | Check whether the signal wire is well connected.                                       |
|  | Check whether other electronic equipment or power tools are placed around the machine. |
| No color, color is weak, or image is weak              | Adjust chromatic and brightness or contrast in the menu.                               |
|  | Check whether the signal wire is well connected.                                       |

## AUDIO TROUBLESHOOTING

|                              |  |
|------------------------------|--|
| With image but without sound | Check whether the mute button is pressed.                                      |
|                              | Press VOL + / - to adjust the volume.  |
|                              | Check whether the audio line is connected correctly.                           |
| Only one speaker has sound   | Adjust the sound balance in the menu.  |
|                              | Check whether the computer sound control panel only sets up one sound channel. |
|                              | Check whether the audio line is connected correctly.                           |
| HDMI output without sound    | Check whether the external device is connected.                                |

## MAINTENANCE

Proper maintenance can avoid many early faults, and regular, careful cleaning can make the machine feel brand new. Please unplug the power before cleaning and maintenance to prevent electric shock.

### CLEAN SCREEN

Please mix and stir a little fabric softener or tableware detergent with alcohol.

Please use a soft cloth and completely soak it in the mixture. Please remove the cloth and twist it to a half-dry state to wipe the machine screen.

Repeat this several times, and make sure not to squeeze the water into the machine when cleaning.

### CLEAN FACE FRAME

Please wipe the front frame with a dry, soft, lint-free cloth.

### NO USE OF MACHINE FOR A LONG TIME

If you haven't used the machine for a long time, such as during the holiday, please unplug the machine to prevent any possible dangers from lightning caused by the power supply ripple.



This symbol affixed to the product or its packaging indicates that it must not be processed with household waste. It must be brought to an electric and electronic waste collection point for recycling and disposal. By disposing of this product appropriately, you can also help prevent potentially negative environmental and human health consequences. Recycling materials helps preserve our natural resources. For further information regarding the recycling of this product, please contact your municipality, local waste disposal center, or the store where the product was purchased.