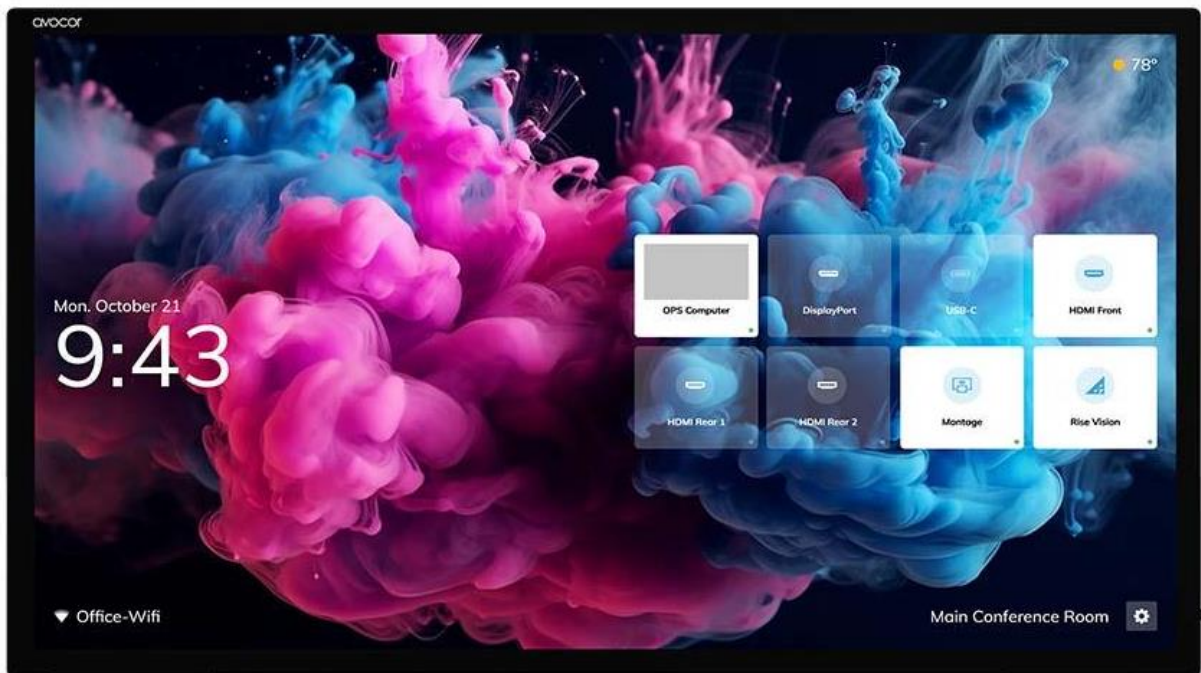


avocor



H SERIES USER MANUAL

for models AVH-6520, AVH-7520 & AVH-8620

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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 and ensure that you do not 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 too long.

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 the heat from the device can be released easily.

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 certain actions may degrade the display's performance or cause a malfunction.



WARNING — Alerts that a given action may damage equipment or cause personal injury.



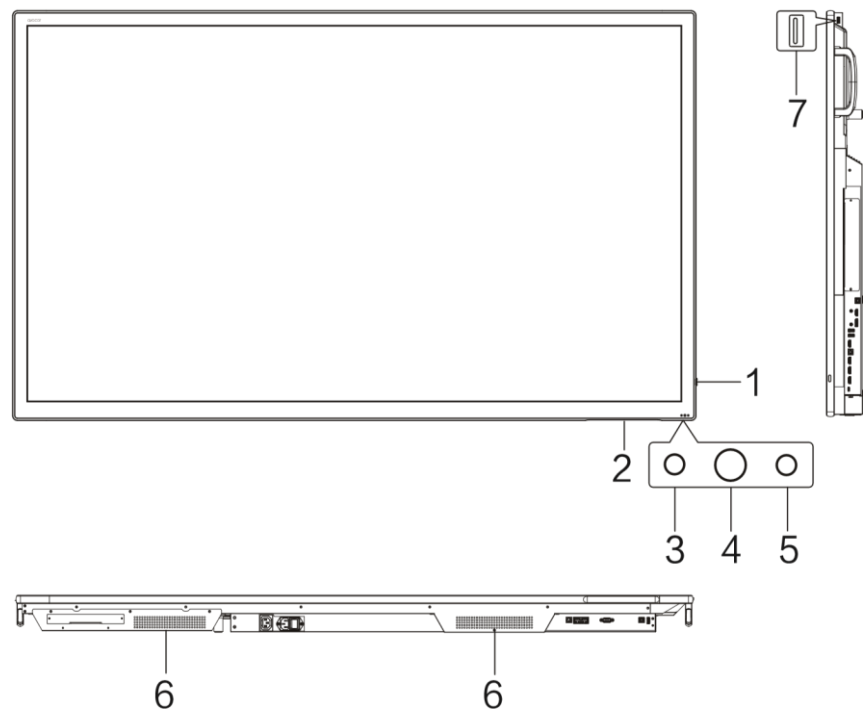
DANGER — Alerts that a given action may cause a serious personal injury or death.


SPECIFICATIONS

	AVH-6520	AVH-7520	AVH-8620
Diagonal Size (Inches)	65"	75"	86"
Backlight	Direct-lit LED		
Aspect Ratio	16:9		
Resolution	3840 x 2160 @ 60Hz		
Response Time	6.5/6.5/8 ms		
Brightness	400 (cd/m2) w/ bonded glass		
Contrast Ratio	5000:1		
Viewing Angle	178°/178°		
Supported Colors	10 Bit 1.07 billion Color		
Display Orientation	Landscape		
Touch System			
Touch	Up to 40 points Avocor Intelligent Touch + 1 stylus		
Glass	Zero parallax, 2mm optically bonded, anti-glare, anti-fingerprint		
Interface	2 x USB-B 2.0, 1 x Type C		
Connectivity			
Top inputs	1 x USB-A 3.0 hub		
Side inputs	1 x Type-C (100W PD w/o OPS), 4 x HDMI 2.0, HDCP 2.3, HDCP 2.3,3 x USB-B 2.0, 1 x DisplayPort 1.4, 2 x USB-A 3.0 hub, 1 x USB-A service port, HDMI 2.0 out		
Bottom inputs	None		
Audio	1x 3.5mm Audio Out, 1x Optical (SPDIF)		
Control	1 x RS-232, 2 x LAN Ethernet (RJ-45)		
WiFi	Yes		
Supported Operating System	Windows 8+, Mac OSX**, Linux**		
Audio			
Built-in Speakers	2x 16W – spatial-stereo downward facing		
Display Functions			
Auto-Source Detection	Yes		
Source Preview	UiQ		
Image Settings	UiQ, FUSE		
Physical Specifications			
Product Dimensions (L X W X H)	1493 x 80 x 877mm 58.78" x 3.15" x 35.53"	1714 x 80 x 1002mm 67.48" x 3.15" x 39.45"	1962 x 80 x 1141mm 77.24" x 3.15" x 44.92"
Bezel Dimensions	3mm all sides		
Shipping Dimensions	1612×220×1034mm 63.46" x 8.66" x 40.71"	1863×225×1130mm 73.35" x 8.86" x 44.49"	2110×225×1270mm 83.07" x 8.86" x 50"
Weight	Net: 37 kgs 81.6 lbs Gross: 49 kgs 108 lbs	Net: 48 kgs 105.8 lbs Gross: 69 kgs 152 lbs	Net: 61 kgs 134.5 lbs Gross: 81kgs 178.6 lbs
Wall Mount (VESA)	600 x 400mm included	800 x 400mm included	800 x 600mm included
IPC Mount	100 x 100 mm + 80 x 80mm		
Handles	2		

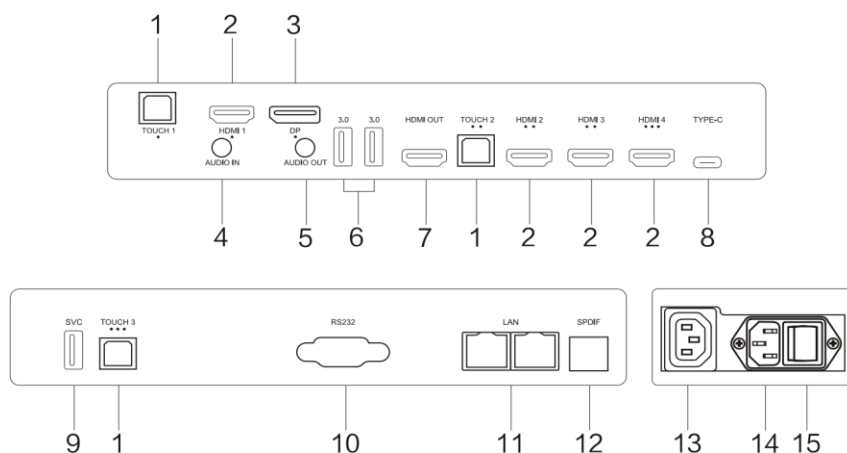
Sensors			
Type	Presence, ambient light		
Presence Sensor	Yes, max 4 range		
Power			
Max Power Consumption	227W	257W	390W
Environmental			
Operating Temperature	0°C ~ 40°C / 32° F ~ 104° F		
Storage Temperature	-20° C ~ 60° C / -4° F ~ 140° F		
Humidity	20% ~ 85%		
Warranty			
Global	3-year warranty		

PREPARE TO INSTALL



#	Items
1	 : Tap to enter energy-saving mode and hold it for at least 2 seconds to enter standby mode.
2	Magnetic Zone: Area for placing the absorptive magnetic pen.
3	LED indicator
4	PIR: The screen will light up automatically when a person is detected in front of the screen.
5	Light Sensor: Sense ambient light to adjust the backlight for appropriate brightness. It can be switched in the menu.
6	Loudspeaker
7	USB 3.0









TERMINAL INTERFACE



#	Items	Function description
1	TOUCH1/2/3	Touch signal output to the external computer
2	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)
3	DP	Connected to devices with Displayport output function.
4	AUDIO IN	External audio sources input (It is generally used as the sound input of the VGA interface)
5	AUDIO OUT	Audio output to the external speaker
6	3.0	Connect USB devices such as mobile hard disk, U disk, USB keyboard, mouse, USB drives, etc.
7	HDMI OUT	Connected to the devices with HDMI input function (monitor)
8	TYPE-C	It supports charging, data transmission, audio and video output interface extension, etc. Note: The maximum rated power of the USB Type-C port of this product is 100W. 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 directly use this port for charging.
9	SVC	Connect USB devices such as mobile hard disk, U disk, USB keyboard, mouse, USB drives, etc.
10	RS232	Serial interface, used for mutual transfer of data between devices
11	LAN	Connected to Ethernet
12	SPDIF	Carry multichannel sound via optical signals.
13	AC OUT	AC power output, connecting AC power supply
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

REMOTE CONTROL



Button	Description
	Power Turns the display screen on and off
	Home Switch to <i>Favorite Source</i> input (<i>Home</i> by default).
	Source Selects a media source
	Navigation arrows Navigates through submenus and settings
	OK Confirms the selection
	Exit Exits the OSD menu
	Volume down Turns down the volume
	Volume up Turns up the volume
	Menu 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. Ensure that the polarities 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 or fire.
- Don't recharge, heat, disassemble, short, or throw batteries into a fire.



Notes on Remote Control Operation

- Ensure that nothing obstructs the infrared beam between the remote control and the IR receiver on the display.
- If the effective range of the remote control decreases or 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 impede the operation of the remote control. If this happens, point the remote control at the display and repeat the operation.

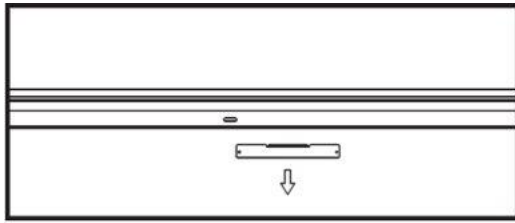


Remote Control Sensor

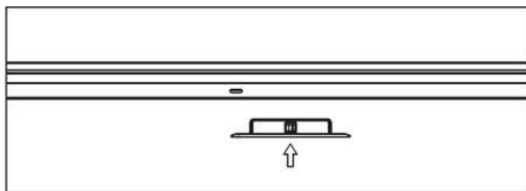
- The effective area of the remote control includes the vertical distance within five meters in front of the display and the area within an angle of 30 degrees from the vertical point to the left and the right.

WI-FI MODULE INSTALLATION

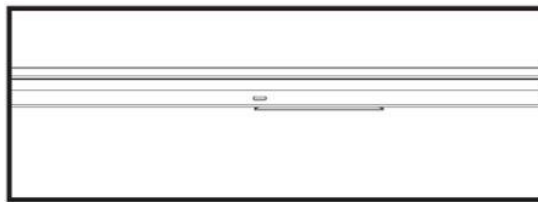
1. Take off the Cover using a Philips screwdriver.



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

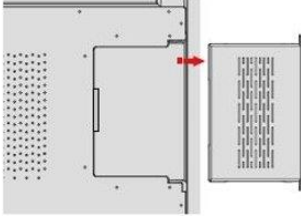


3. Complete assembly.

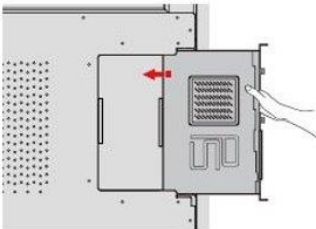


OPS MODULE INSTALLATION

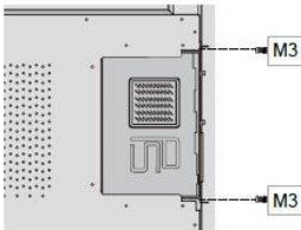
1. Ensure that the display is turned off.
2. Use a Philips screwdriver to unscrew the OPS slot shield on the display input panel. Do not lose the screws that are removed.



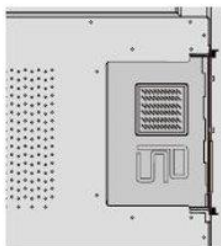
3. Install the OPS module by sliding it into the OPS slot until you hear a click, indicating the module is securely inserted. When using an Avocor OPS PC, the fan should be visible.




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.

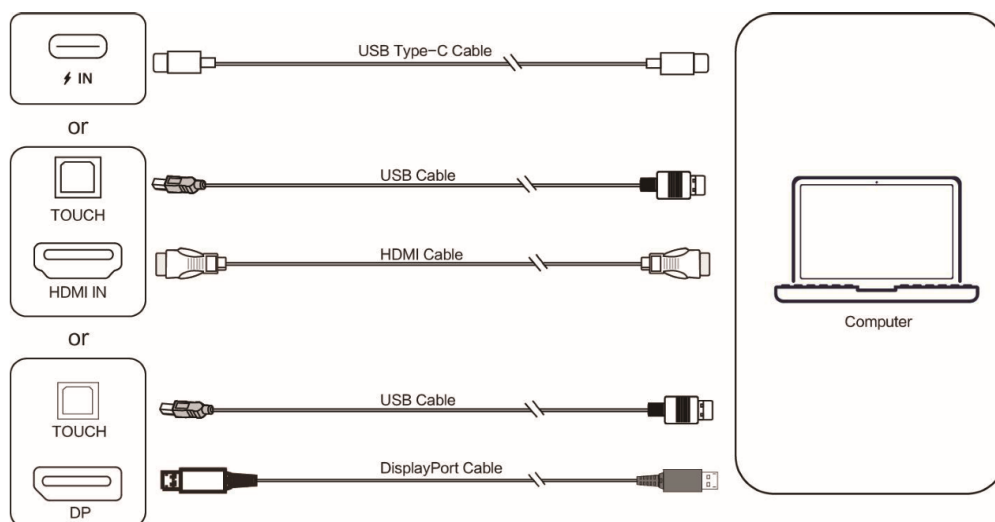
 The H-Series display supports OPS modules that follow the Intel OPS standard.


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 a 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 to turn the equipment on.
6. Switch the input source to the USB Type-C/HDMI /Display Port channel in the main menu.

NOTE: The equipment's best resolution for the external computer input is 3840*2160.

RECOMMENDED COMPUTER CONFIGURATION:

1GB Available Hard Drive

2.0GHz Processor, 1GB Memory

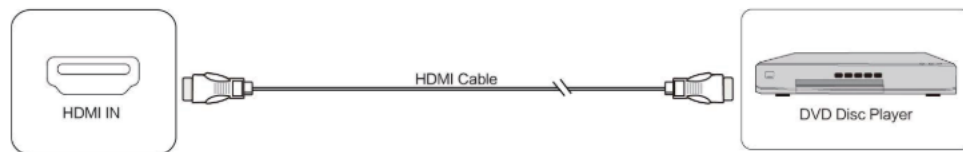
More than 256 color display cards


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

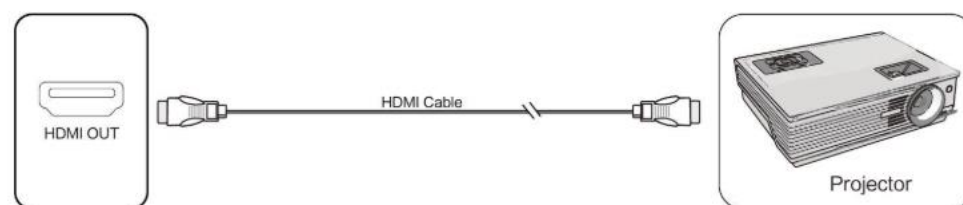
Support Resolution: 800×600, 1024×768,


1920×1080, 3840×2160

AUDIO AND VIDEO EQUIPMENT

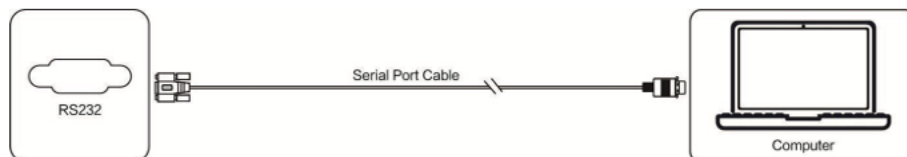


1. Use an HDMI cable to connect the audio and video equipment to the HDMI output.
2. After the cable is connected, plug in the power cord and switch the power on.
3. Press  to turn the equipment on.
4. Switch the input source to the HDMI channel in the main menu.



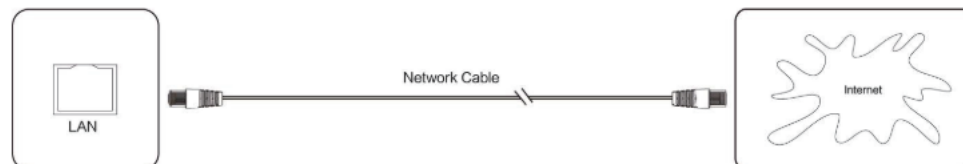
1. Use the HDMI cable to connect the audio and video equipment to the HDMI input.
2. After the cable is connected, plug in the power cord and switch the power on.
3. Press  to turn the equipment on.

RS232 CONNECTION

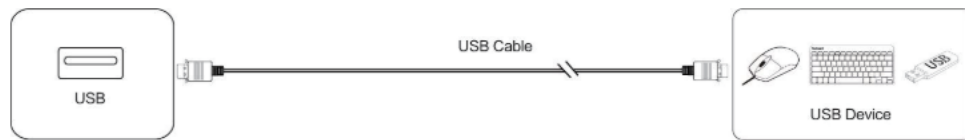


After using the serial port cable to connect the central control equipment and the machine, certain functions can be controlled with the central control equipment, such as machine ON/OFF, adjusting sound volume, etc.

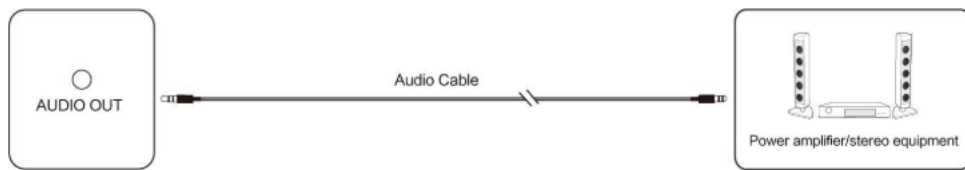
LAN CONNECTION



USB CONNECTION

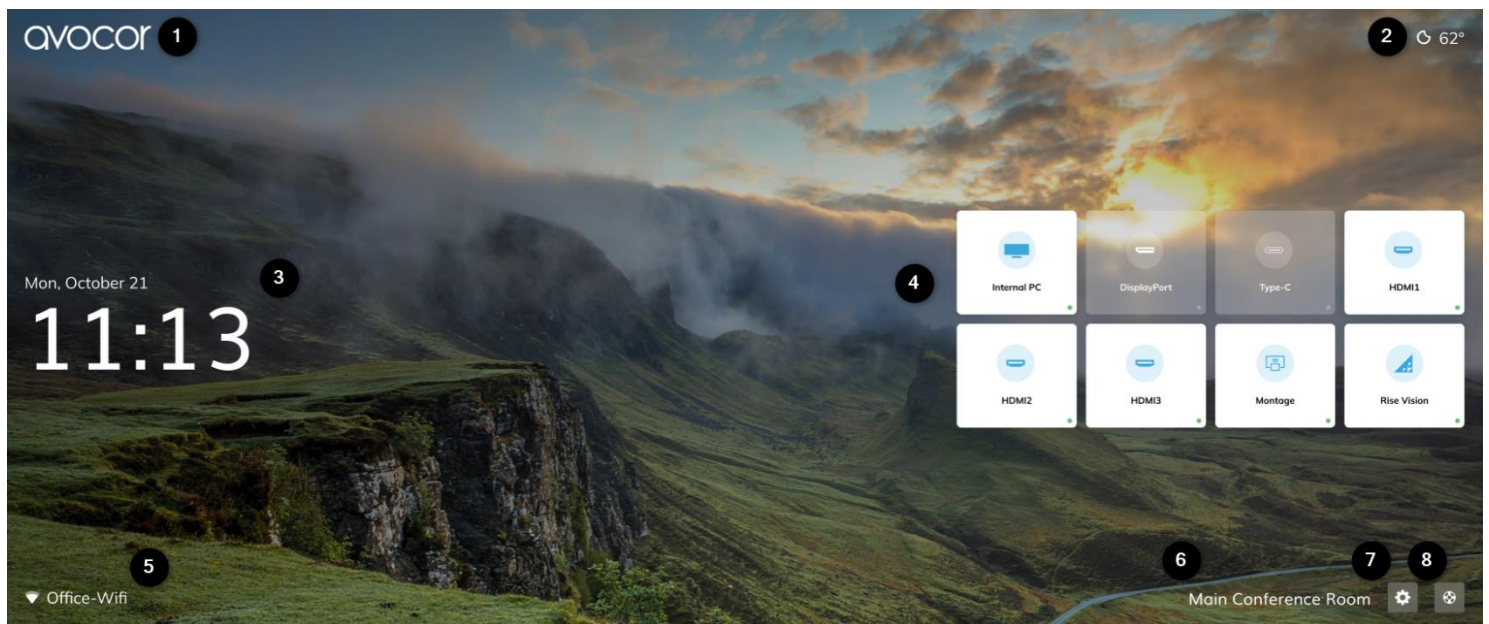


AUDIO OUT CONNECTION





OPERATION

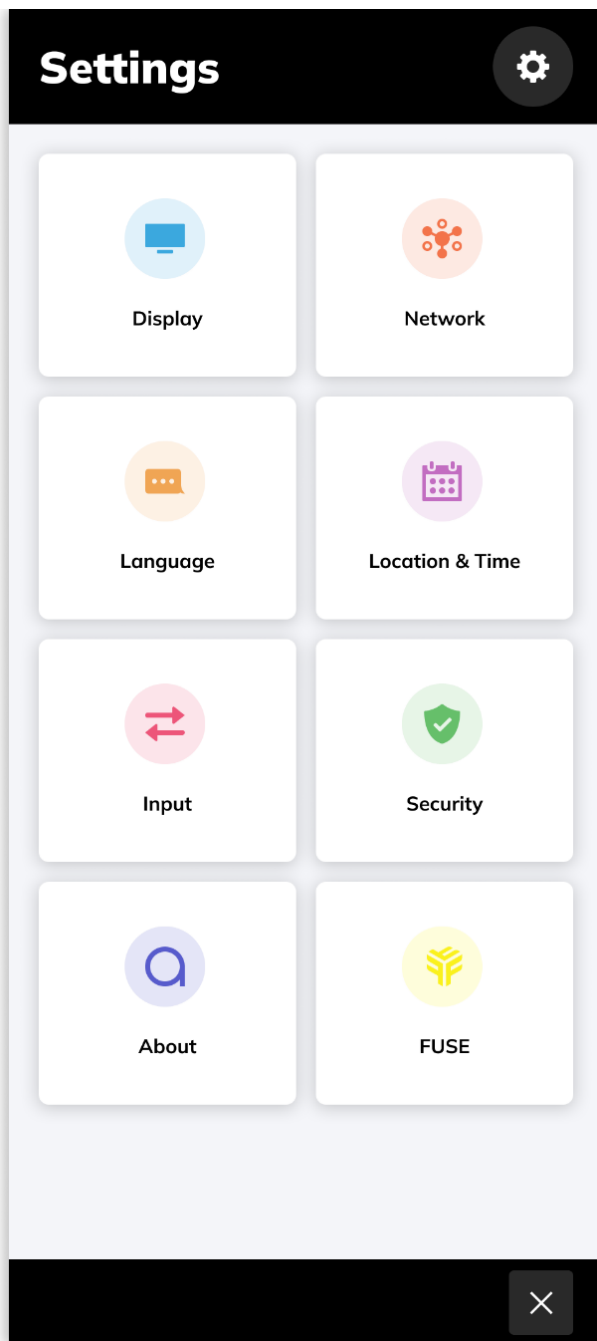
THE HOME SCREEN



- 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](#).

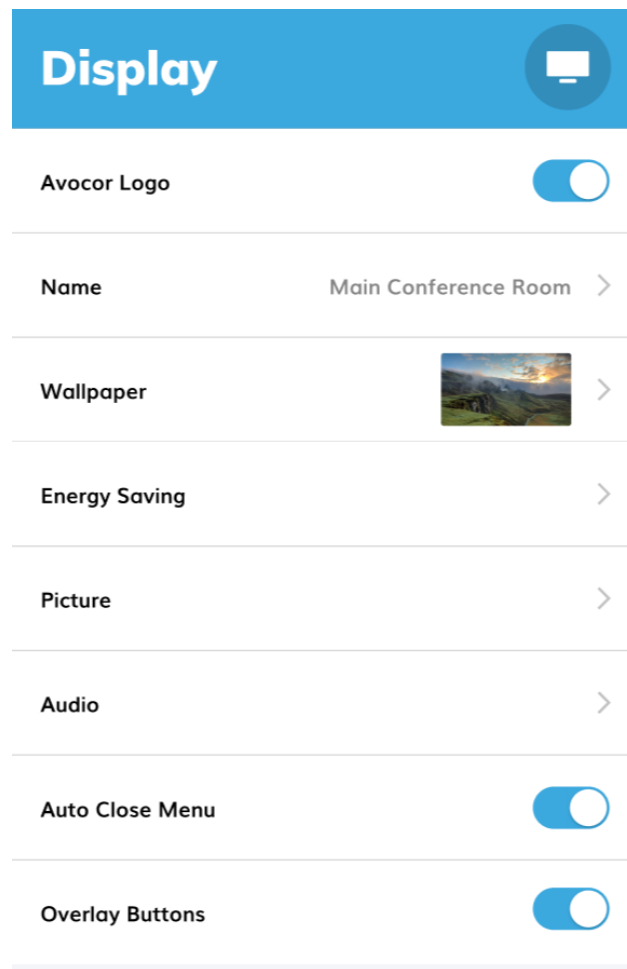
 - Ethernet/LAN connected
 - Wi-Fi connected
- 6 **Display name:** configurable in [Display Settings](#).
- 7 **UiQ Settings:** touch this icon or select it via the RCU to open [UiQ Settings](#). You can also press the Settings button on the RCU to access this menu at any time.
- 8 **Support:** submit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

UIQ SETTINGS



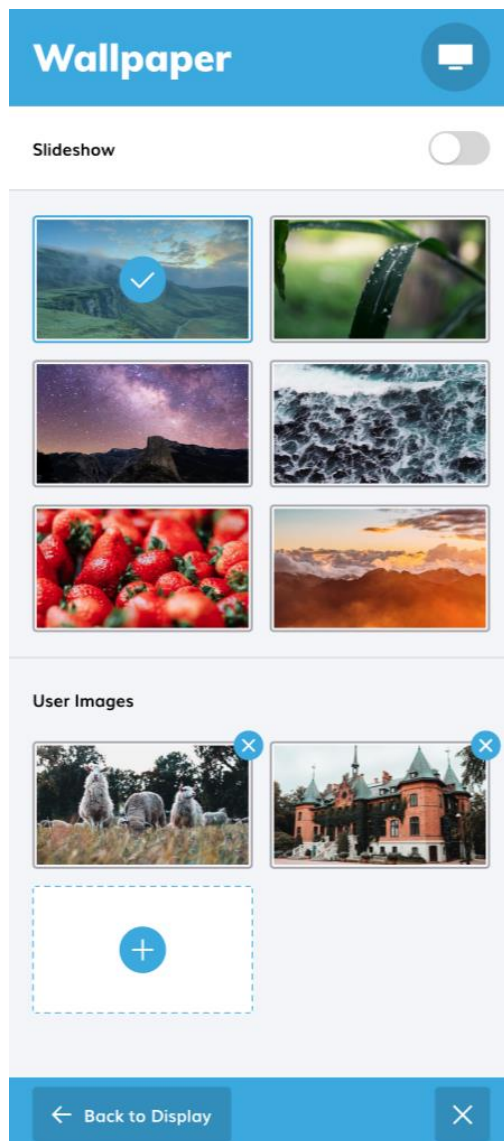
- **Display:** Avocor Logo, Name, Wallpaper Energy Saving, Picture, Audio.
- **Network:** Status, LAN, Wi-Fi, Wake On LAN, LAN USB.
- **Language:** English, Deutsch, Español, Français, Italiano, Nederlands.
- **Location & Time:** Location, Auto Date & Time, Set Date, Set Time, Use 24-Hour Time, Date 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 L-series 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

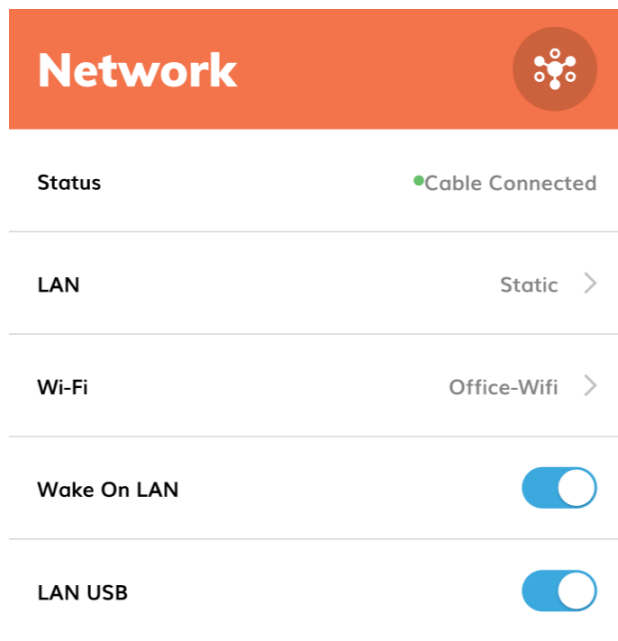
1 min

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 >

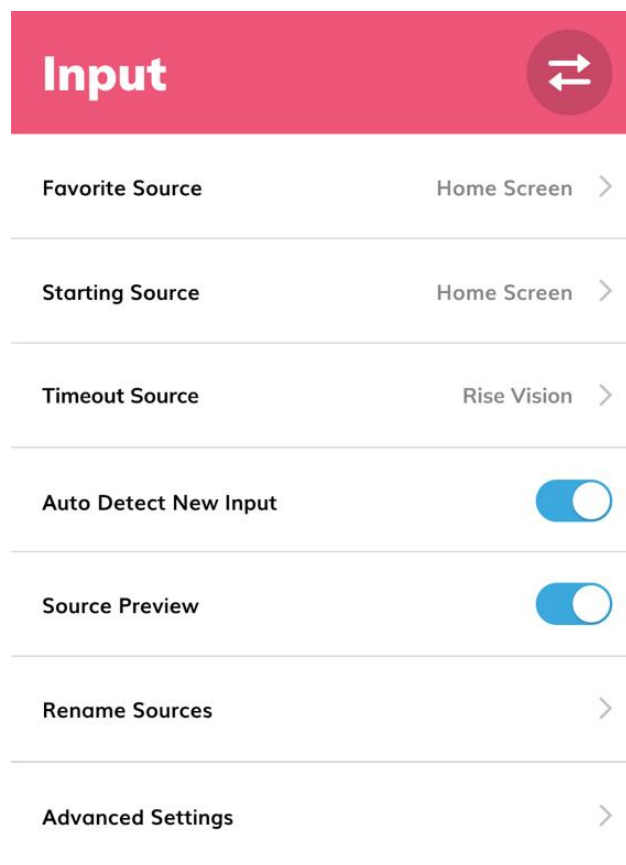
WEATHER


Unit

°F >

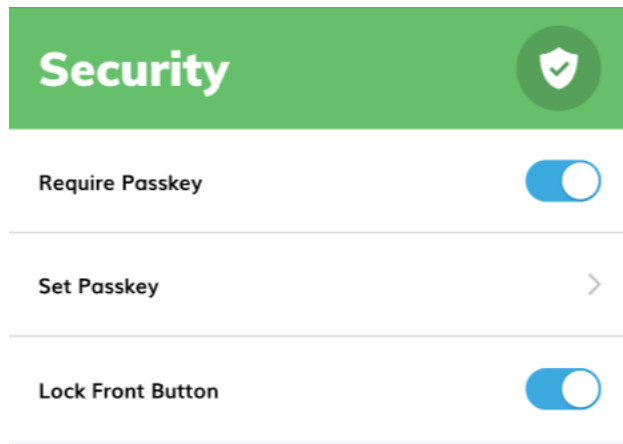
- **Location:** set location dependency for Auto Date & Time and Weather information.
- **Auto Date & Time:** toggle Auto Date & Time On or Off (if On internet connection required).
- **Set Date:** manually set the date.
- **Set Time:** manually set the time.
- **Use 24 Hour Time:** toggle 24-hour clock.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

INPUT SETTINGS



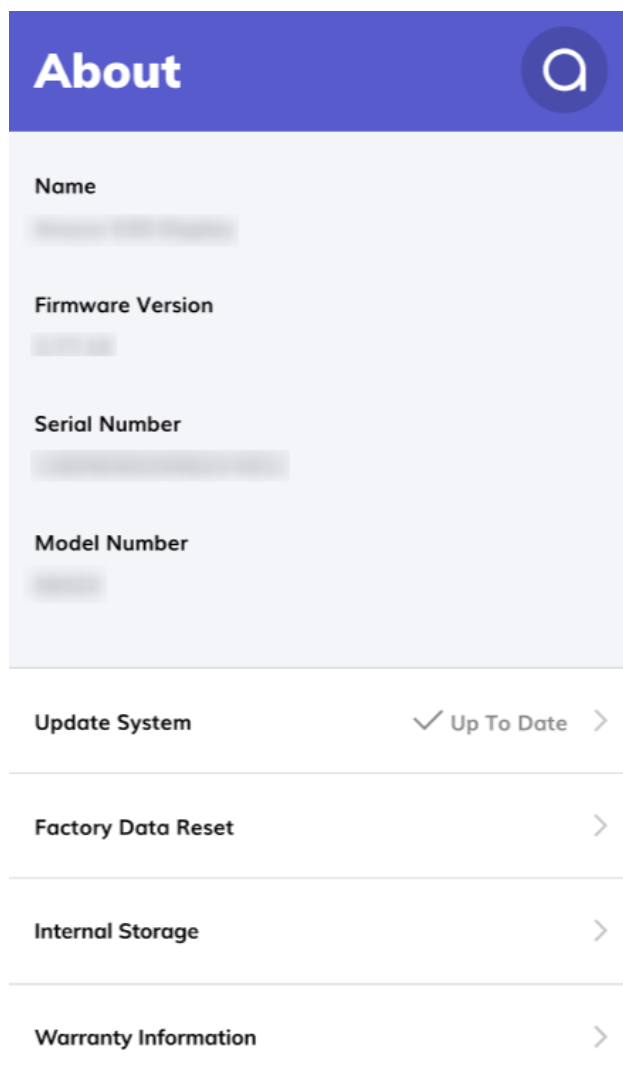
- **Favorite Source:** sets the source tied to the Home  button on the remote and *Overlay Buttons*.
- **Starting Source:** sets the default source shown when the display powers on.
- **Timeout Source:** set a source to automatically switch to after a set idle period.
- **Auto Detect New Input:** toggle 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 electrode in the remote control is correct.
	Check whether the remote control battery needs to be replaced.
The machine automatically shut 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	Select automatic correction in the menu.
The image lacks color, or 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 a format that is not supported	Select automatic correction in the menu.
	Adjust the clock and phase position in the menu.

TOUCH FUNCTION

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 FUNCTION CAN'T WORK NORMALLY

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 FUNCTION CAN'T WORK NORMALLY

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 thoroughly 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 a 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 also help prevent potentially adverse 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.

AVOCOR: THREE-YEAR LIMITED WARRANTY

Congratulations on purchasing an Avocor H-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 as part of this warranty. Except as specified herein, this warranty covers all defects in material or workmanship in 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 the property of Avocor.

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 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.

For more information, please email service@avocor.com.