



avocor

USER MANUAL



B Series

AVB-4310 | AVB-5010 | AVB-5510 | AVB-6510 | AVB-7510 | AVB-8610



TABLE OF CONTENTS

IMPORTANT SAFETY INSTRUCTIONS.....	3
Battery Disposal	4
Precautions	5
Product.....	5
Power and Plug.....	5
Power Cord and Signal Cable	5
DOUBLE POLE/NEUTRAL FUSING.....	6
Use Environment.....	6
Cleaning	6
Specifications	7
The Device, at a glance	9
Display Front (Landscape)	9
Display Rear (Landscape).....	10
Display Front (Portrait).....	11
Display Back (Portrait).....	12
Side IO Panel	14
Remote Control	15
OPS Module Installation.....	17
General Operation	18
Power On	18
Power Off.....	18
Standby Power Logic.....	18
Troubleshooting	19
User Interface	20
The Out-of-box Experience	20
Avocor UiQ – Home Screen (Landscape)	24
Avocor UiQ – Home Screen (Portrait).....	25



Avocor UiQ - Settings	26
Bring Your Own Application (BYOA).....	38
BYOA – Installation Process.....	39
External Control.....	41
RS232 Control Configuration.....	41
LAN Control Configuration	41
Command Set.....	41
Avocor: Three-year Limited Warranty	46

IMPORTANT SAFETY INSTRUCTIONS

The lightning with arrow symbols inside the equilateral triangle is designed to remind users that there is a non-insulating "dangerous voltage" inside the product casing, which may be strong enough to constitute a risk of electric shock.

1. To reduce the risk of electric shock, do not remove the cover (or back), as there are no user-repairable components inside. Transfer the repair to qualified personnel.
2. The exclamation mark inside the equilateral triangle is intended to alert users of important operation and maintenance instructions in the literature accompanying the device.
3. Do not install this device in enclosed or building spaces such as bookcases or similar devices and maintain good ventilation in open spaces. The ventilation openings should not be impeded by items such as newspaper tablecloths, curtains, etc.
4. Before installing or operating the device, refer to the information on the external bottom casing for electrical and safety information.
5. The power plug/electrical pair is used as a disconnected device and should remain operable.
6. To reduce the risk of fire or electric shock, do not expose this device to rainy or damp environments. The device shall not drip or splash, and objects filled with liquid (such as vases) shall not be placed on the device.
7. Batteries (batteries or battery packs) should not be exposed to excessive heat, such as sunlight or sparks.
8. Do not place the device in an unstable position. The device may fall, causing serious personal injury or death. Many injuries, especially to children, can be avoided by taking simple preventive measures, such as:
 - Do not place open flames on the device, such as lighting candles.
 - The exclamation mark inside the equilateral triangle is intended to alert users of important operation and maintenance instructions in the literature accompanying the device.
 - Use cabinets or brackets recommended by the device manufacturer.

- Only use furniture that can safely support the device.
 - Do not place the device on tall furniture (such as cabinets or bookcases) without fixing the furniture and device on suitable brackets. Do not place the device on the cloth or other materials between the device and the supporting furniture.
 - Educate children about the dangers of climbing onto furniture when encountering the device or its control devices. If your existing device is retained and located, the same precautions should be applied as mentioned
9. Keep a minimum distance of 5cm around all edges of the device for sufficient ventilation.
10. Hanging the device on the wall.

Warning: this operation requires two people.

To ensure a safe installation, observe the following safety notes:

- Check that the wall supports the device's weight and mount assembly.
- Follow the mounting instructions provided. The device must be installed on a vertical wall.
- Make sure to use screws only suitable for the material of the wall.
- Ensure the cables are placed so there is no danger of tripping over them. All other safety instructions about our device are also applicable here.

BATTERY DISPOSAL

The batteries used in this device contain chemicals that are harmful to the environment. To preserve our environment, please dispose of used batteries according to local laws or regulations. Do not dispose of batteries with regular household waste. For more information, please contact the local authority or the retailer where you purchased the device. All trademarks are the property of their respective owners, and all rights are acknowledged.



This device is a Class II or double-insulated electrical appliance. It has been designed not to require a safety connection to the electrical earth.



Always keep candles or other open flames away from this device to prevent a fire.



Correctly dispose of this device. This marking indicates that this device should not be disposed of with other household waste throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the device was purchased.

PRECAUTIONS

Read all the instructions before operating the device. Keep these instructions for future use.

PRODUCT

- Do not block or cover the ventilation openings on the back cover.
- Do not push objects of any kind into the device through the cabinet slots, as they could touch the current carrying parts or short-circuit parts, resulting in fire, electric shock, or damage to the device.
- Do not attempt to open the cabinet, as this may cause damage. No parts inside you can service by yourself. Refer all servicing to qualified personnel.
- Do not scratch or mar the device screen
- Do not impact the device screen with hard pressure, as this may severely damage the screen.

POWER AND PLUG

Unplug the device under the following conditions:

- If the device will not be used for a long period of time.
- If the power cord or the power outlet/plug is damaged.
- Follow the instructions to install and adjust the device. Adjust those controls that are covered in these operating instructions, as improper adjustment of other controls may result in damage. If this happens, unplug the device and refer to the service personnel.
- If the device is subject to impact or has been dropped.

POWER CORD AND SIGNAL CABLE

- Do not allow anything to rest on or roll over the power cord and the signal cable.
- Protect the power cord and the signal cable from being trampled.
- Do not overload the power cord or the power outlet.
- Do not expose the power cord and the signal cable to moisture.

DOUBLE POLE/NEUTRAL FUSING

- **CAUTION:** Neutral fusing if reverse insert to socket. Disconnect mains before servicing.
- **ATTENTION:** Fusion du conducteur neutre en cas d'insertion inverse dans la prise. Débrancher l'alimentation avant toute intervention

USE ENVIRONMENT

- Do not place the device on an unstable cart, stand, or table.
- Place the device in a place that allows good ventilation.
- Do not use the device near damp and cold areas.
- Protect the device from overheating.
- Keep the device away from direct sunlight.
- Do not expose the device to heavy moisture or liquids.
- Do not use the device in excessively dusty locations.

CLEANING

- Wipe the screen and the cabinet with soft cloth and a screen-safe liquid cleaner.
- Do not apply excessive force to the screen when cleaning.
- Do not use water or harsh chemicals to clean the screen, as this may damage the surface of the device.

SPECIFICATIONS

DISPLAY	AVB-4310	AVB-5010	AVB-5510	AVB-6510	AVB-7510	AVB-8610
Size	43"	50"	55"	65"	75"	86"
Backlight	Direct-lit LED					
Aspect Ratio	16:9					
Resolution	4K (3840 x 2160)					
Response Time	6.5 ms					
Brightness	700 nit					
Contrast Ratio	4000:1	1200:1	4000:1	4000:1	4000:1	4000:1
Viewing Angle	178° / 178°					
Supported Colors	1.07G (8 BIT+FRC)					
Operation Time	24 hours x 7 days					
Display Orientation	Landscape/Portrait					
Anti-glare Glass	25% Haze					
TOUCH SYSTEM						
Interface	Non-touch					
CPU						
CPU	Cortex A27*4 + Cortex A53*4					
GPU	ARM Mali G52 MC3 GPU					
RAM/ROM	8G RAM / 32G ROM					
Android Version	Android 14					
CONNECTIVITY						
Inputs	2x HDMI (2.0), 1x USB-A 3.0, 1x USB-B (Service Port)					
Outputs	1x HDMI 2.0 Out (Supports 4K@60Hz, 190x1080@60Hz)					
Audio Outputs	1x S/PDIF Out (Opt), 1x 3.5mm (Line Out)					
Control	RJ45 LAN (10/100/1000Mbps) + RS232 (DB9 female)					
OPS Slot	Yes (80 Pin)					
WiFi	WiFi 5 2.4/5GHz					
AUDIO						



B SERIES USER MANUAL

Built-in Speakers	2 x 10W
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DISPLAY & REMOTE FUNCTIONS

Auto-Source Detection	Yes
Image Settings	Yes

PHYSICAL SPECIFICATIONS

Screen Dimensions (LxHxW)(mm)	971 x 559.5 x 70.9	1123.4 x 643.9 x 70.5	1238.4 x 709.2 x 69.8	1456.7 x 831.4 x 68.8	1679 x 957 x 68.8	1928.6 x 1099.2 x 69
Bezel Dimensions	13mm	T/L/R-12.2mm Bottom-12.5mm	12.9mm	12.2mm	12.8mm	13.9mm
Shipping Dimensions (LxWxH)(mm)	1075 x 652 x 144	1250 x 760 x 144	1390 x 830 x 144	1640 x 990 x 164	1840 x 112 x 177	2100 x 1250 x 230
Weight (Net)	8.8kg	11.25kg	13.85kg	19.7kg	29.7kg	46.9kg
Weight (Gross)	11.5kg	14.8kg	18.5kg	27.4kg	39.1kg	61.6kg
Wall Mount (VESA)	300 x 300mm M6 x 18mm	400 x 300mm M6 x 18mm	400 x 400mm M6 x 18mm	500 x 500mm M8 x 16mm	500 x 500mm M8 x 16mm	700 x 500mm M8 x 16mm

POWER

Typical Power (with OPS)	175W	185W	190W	235W	255W	300W
Typical Power (without OPS)	125W	135W	140W	185W	205W	250W
Max Power (with OPS)	255W	290W	295W	380W	430W	500W
Max Power (without OPS)	175W	210W	215W	300W	350W	420W

ENVIRONMENTAL

Operating Temperature	0-40 °C
Storage Temperature	-20-55 °C
Humidity	20%-80%

WHAT COMES IN THE BOX

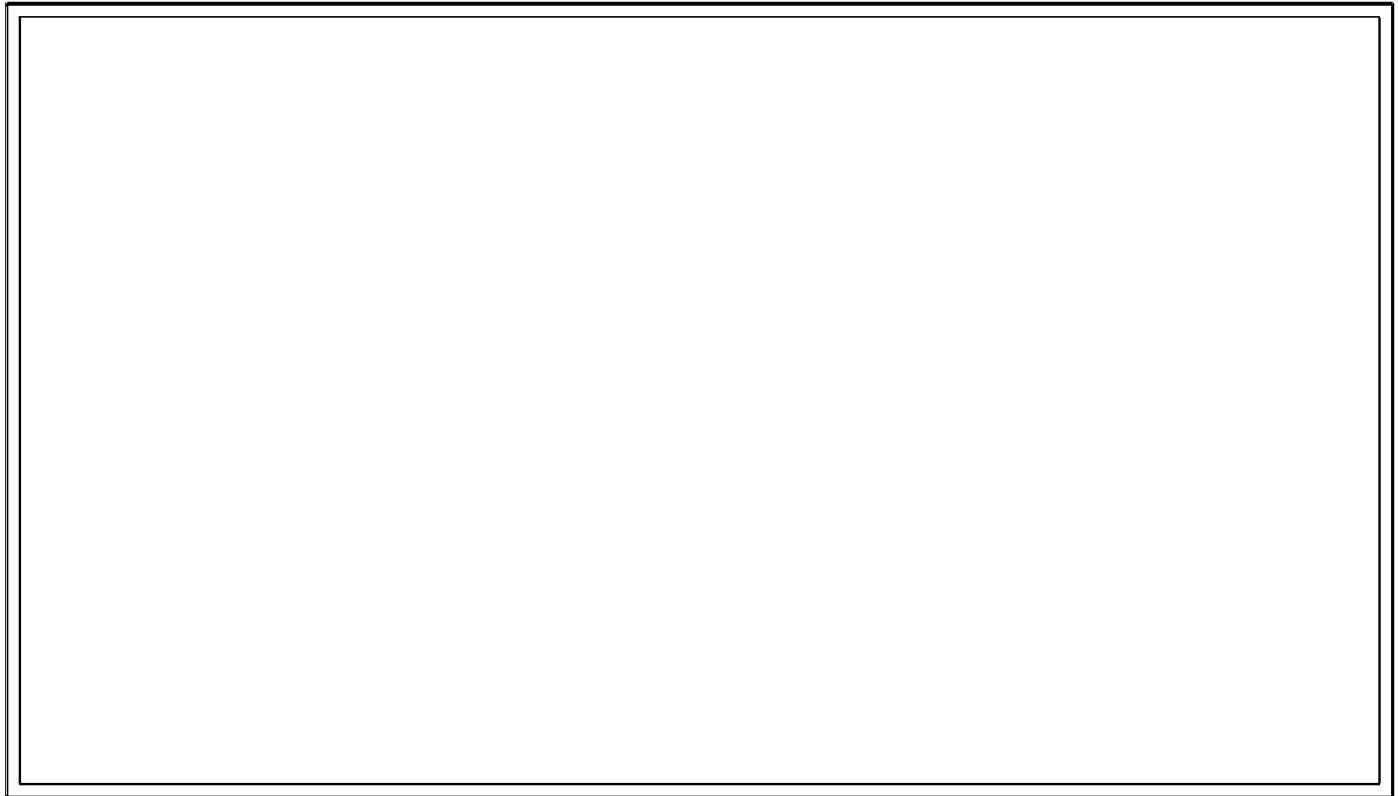
Contents	Remote Controller, Batteries, Quickstart Guide, AC Power cord, HDMI cable (3m), Wall Mount Bracket
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THE DEVICE, AT A GLANCE

This section provides an overview of the physical device.

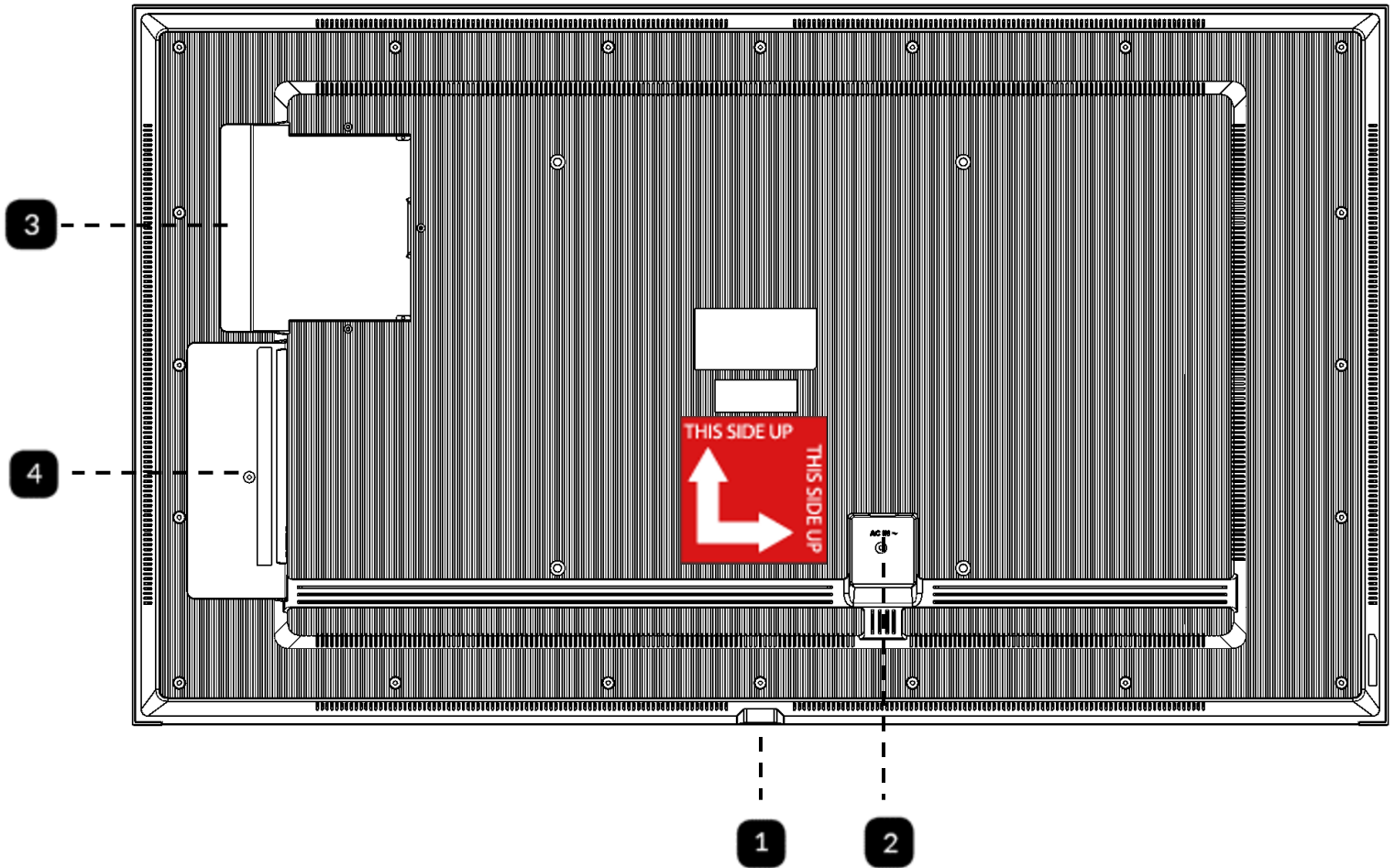
Note: the display should only be installed as oriented in the below graphics. Failure to install the display in the proper orientation may lead to overheating and device damage.

DISPLAY FRONT (LANDSCAPE)



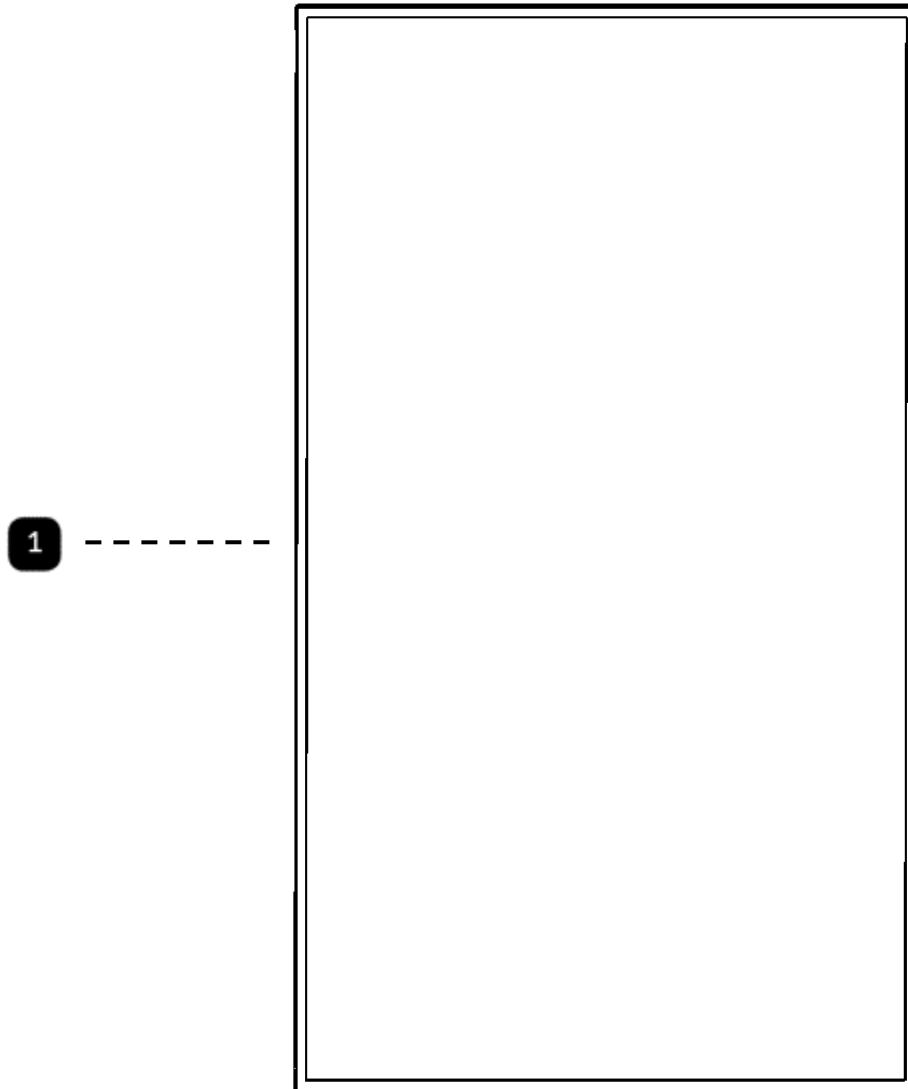
1	Power Button	Toggles power for the display
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DISPLAY REAR (LANDSCAPE)



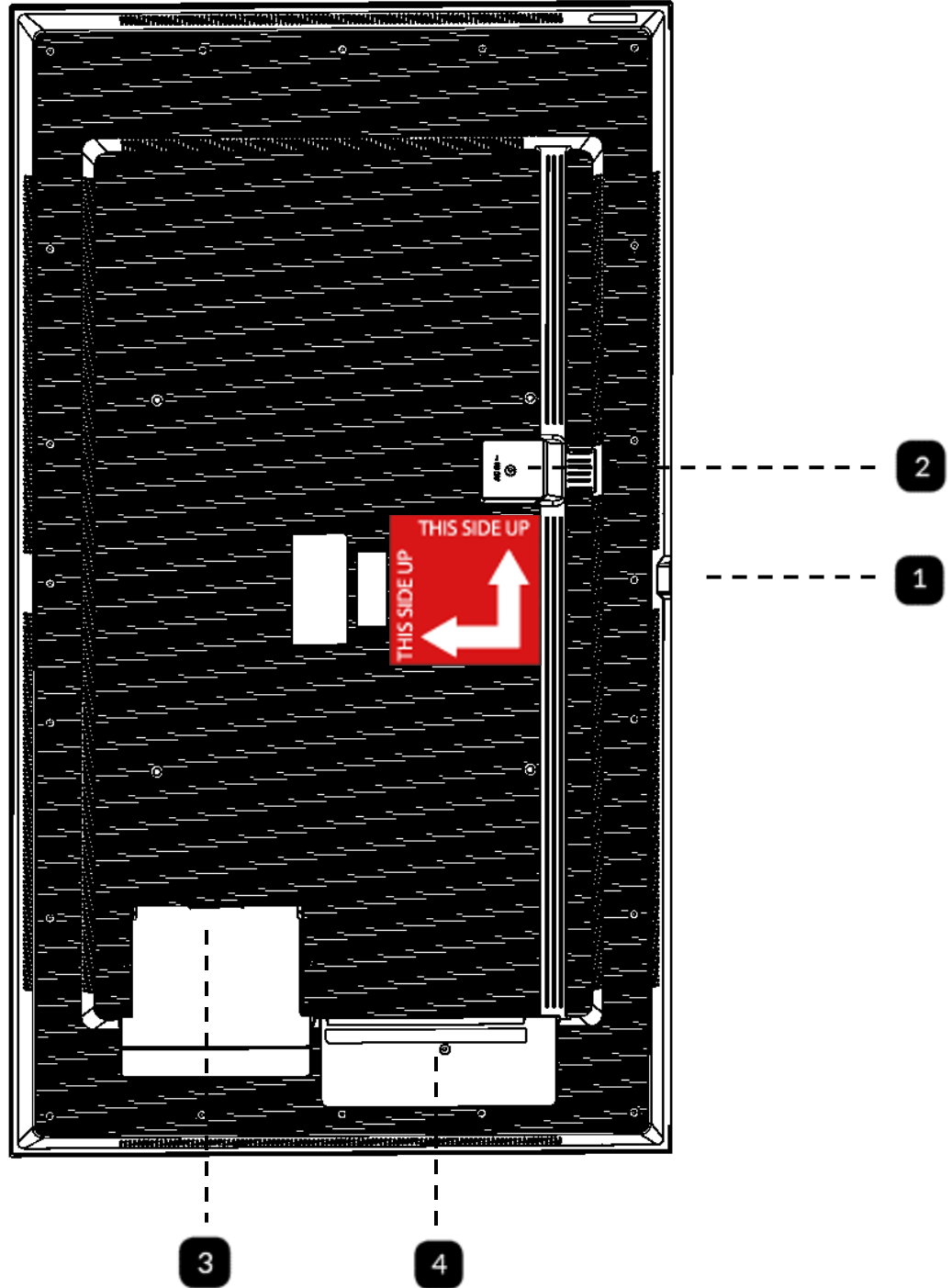
1	Power Button	Toggles power for the display
2	AC In	Connect the provided AC power cable
3	OPS Slot	JAE OPS connector slot
4	Side IO Panel	HDMI input (2), S/PDIF out, 3.5mm Line out, USB-A 3.0, DB9 (female), RJ45

DISPLAY FRONT (PORTRAIT)



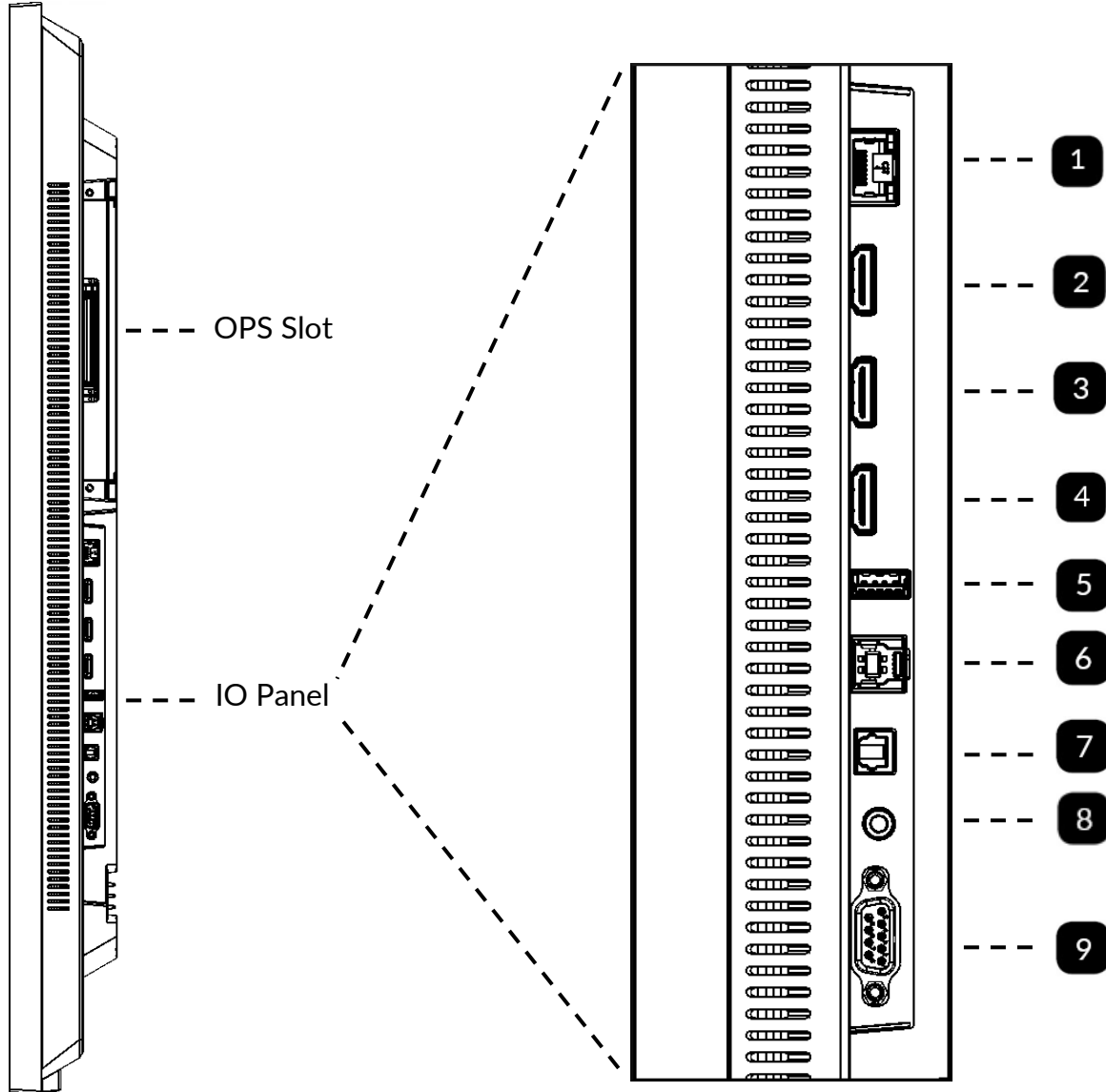
1	Power Button	Toggles power for the display
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DISPLAY BACK (PORTRAIT)



1	Power Button	Toggles power for the display
2	AC In	Connect the provided AC power cable
3	OPS Slot	JAE OPS connector slot
4	Side IO Panel	HDMI input (2), S/PDIF out, 3.5mm Line out, USB-A 3.0, DB9 (female), RJ45









SIDE IO PANEL



1	RJ45	For LAN connectivity
2	HDMI 1 (2.0)	Input for source devices. Supports ARC technology
3	HDMI 2 (2.0)	Input for source devices
4	HDMI Out (2.0)	Outputs the display image to another display or monitor
5	USB-A 3.0	For manual firmware upgrades or multimedia
6	USB-B	Service port
7	S/PDIF Out	Optical audio out
8	Line Out	3.5mm audio line out
9	RS232	DB9 (female) for serial control

REMOTE CONTROL



Button	Description
	Power Turns the display screen on and off
	Home Switch to <i>Favorite Source</i> input (Home 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 the remote control is to be stored an extended period, 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

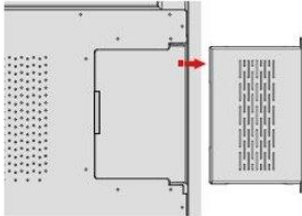
- Ensure that nothing obstructs the infrared beam between the remote control and the IR receiver on the display.
- If the effective range of the remote control decreases or stops working, replace the batteries with new ones.
- The remote control may fail to operate if the infrared remote sensor is exposed 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

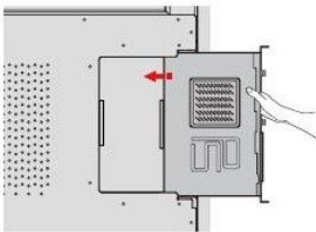
The effective area of the remote control includes the vertical distance within five meters in front of the display and the area within an angle of 30 degrees from the vertical point to the left and the right.

OPS MODULE INSTALLATION

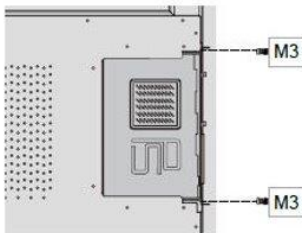
1. Ensure that the display is turned off.
2. Use a Philips screwdriver to unscrew the OPS slot shield on the display input panel. Do not lose the screws that are removed.



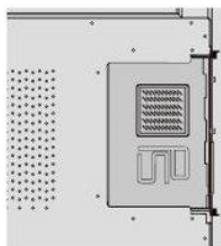
3. Install the OPS module by sliding it into the OPS slot until you hear a click, indicating the module is securely inserted. When using an Avocor OPS PC, the fan should be visible.



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.

GENERAL OPERATION

POWER ON

- Insert two batteries into the remote control.
- Connect the supplied power cable to the device first. Then, connect the power cable to the power outlet.
- Press the power button on the remote or the device itself to power on.
- The device should only be connected to an AC power supply. It must not be connected to the DC supply under any circumstances, as there is a risk of electric shock.

POWER OFF

- Press the power button on the remote or the device to power off.

STANDBY POWER LOGIC

- Once a device has been registered and claimed in Fuse, the power logic of the device will change.
- Instead of powering off, pressing the power button on the remote control or the device will put it into “Standby,” a low-power state where the screen is off, but applications and processes will continue to run in the background.
- To completely turn off the device once it standby power logic has been enabled, press and hold the power button on the device for 5 seconds before releasing; you will be prompted to shut down the device.

TROUBLESHOOTING

No PICTURE, NO SOUND

- Check if the fuse or circuit breaker is working.
- Plug another electrical device into the outlet to make sure it is working or turned on.
- The power plug is in bad contact with the outlet.
- Check the signal source

No COLOR

- Change the color system.
- Adjust the saturation.

THE REMOTE CONTROL DOES NOT WORK

- Change the batteries.
- Batteries are not installed correctly.
- The main power is not connected.

No PICTURE, NORMAL SOUND

- Adjust the brightness and contrast.

NORMAL PICTURE, NO SOUND

- Press the Vol+ button to increase volume.
- Change the sound system.
- Volume is set to mute; press the mute button to restore sound.

IF THE DEVICE CRASHED

- Press the Power button to turn off the device; then press the Power button again to reset the device.
- Unplug the power cord, then press the Power button to reset the device.

Note: Please contact sales if these two methods cannot be resolved.

USER INTERFACE

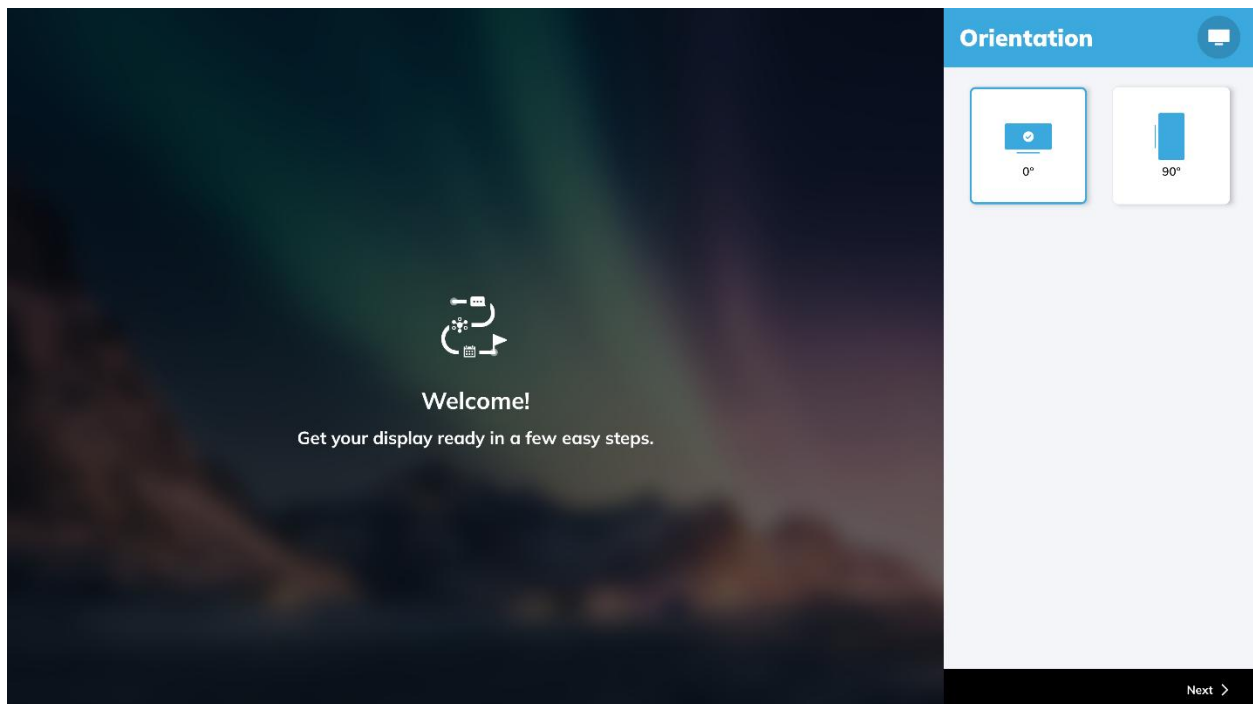
This chapter contains information regarding the operation of the display's user interface (UI) and provides details for each menu item.

THE OUT-OF-BOX EXPERIENCE

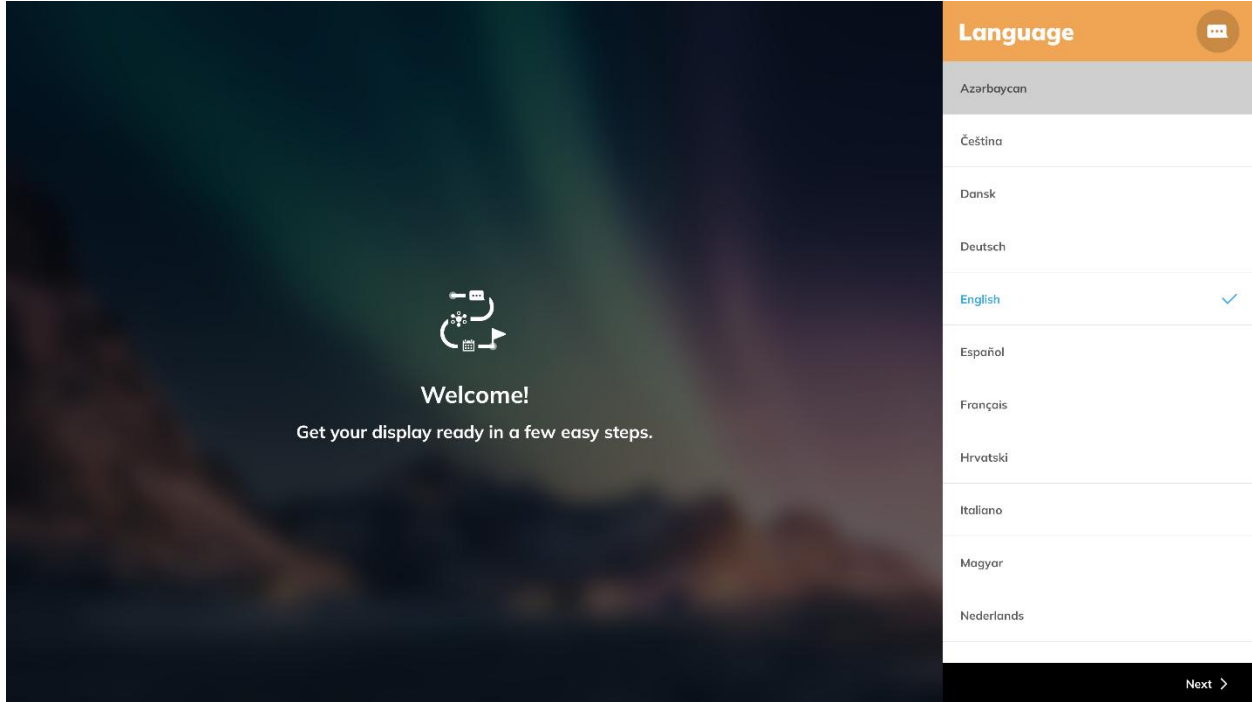
The out-of-box experience, or OOBE, takes you through important display configurations before taking you to the landing screen of your choosing.

NOTE: all the following settings can be changed later, except for **System Mode** which can only be reconfigured with a **factory reset** of the display.

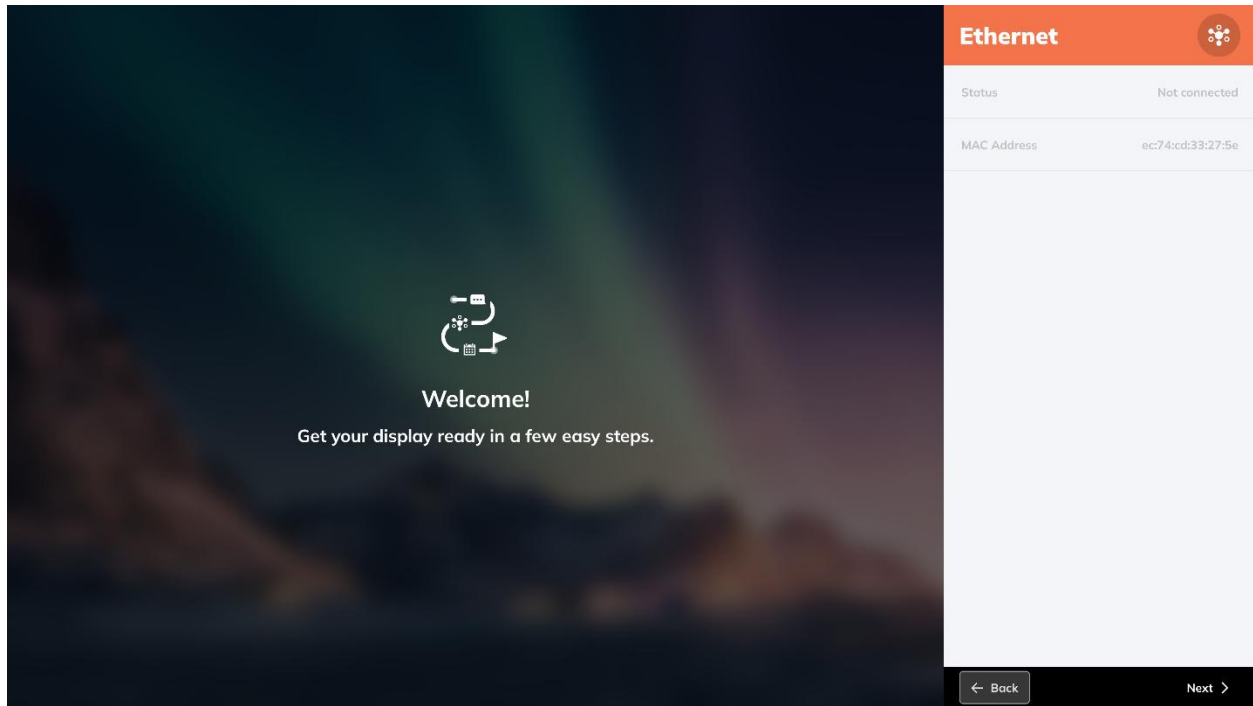
1. Select screen **Orientation**



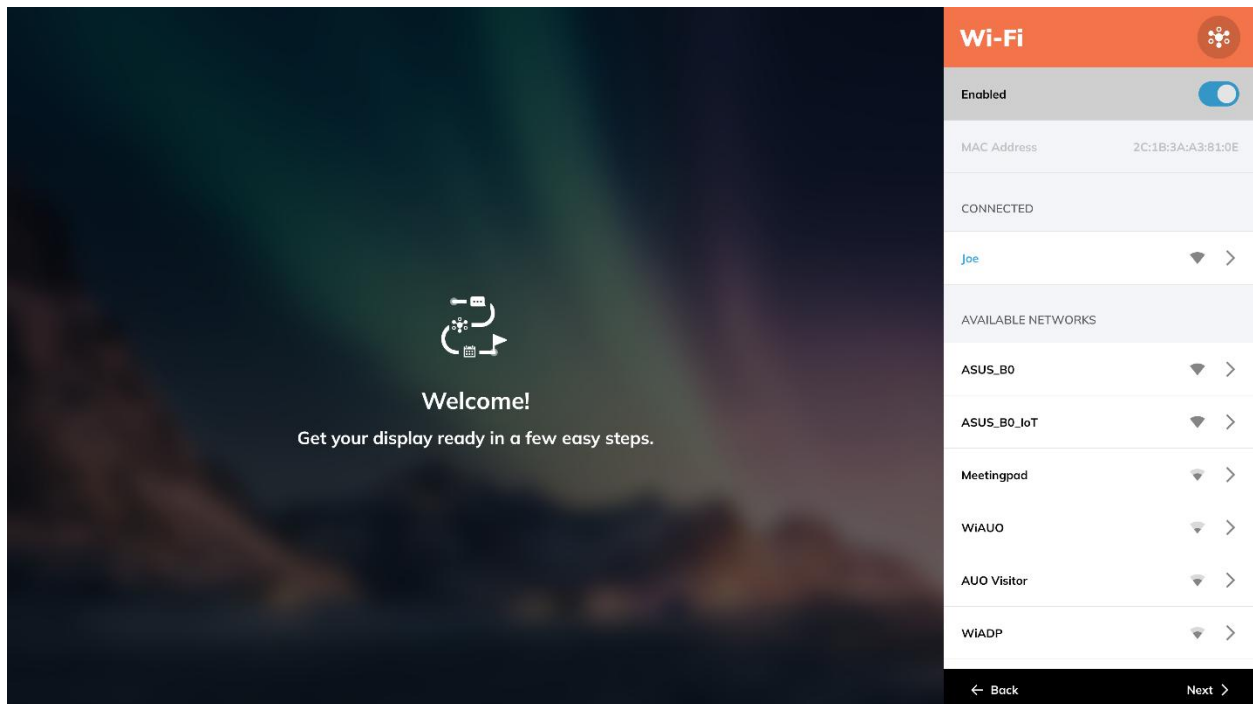
2. Select your Language



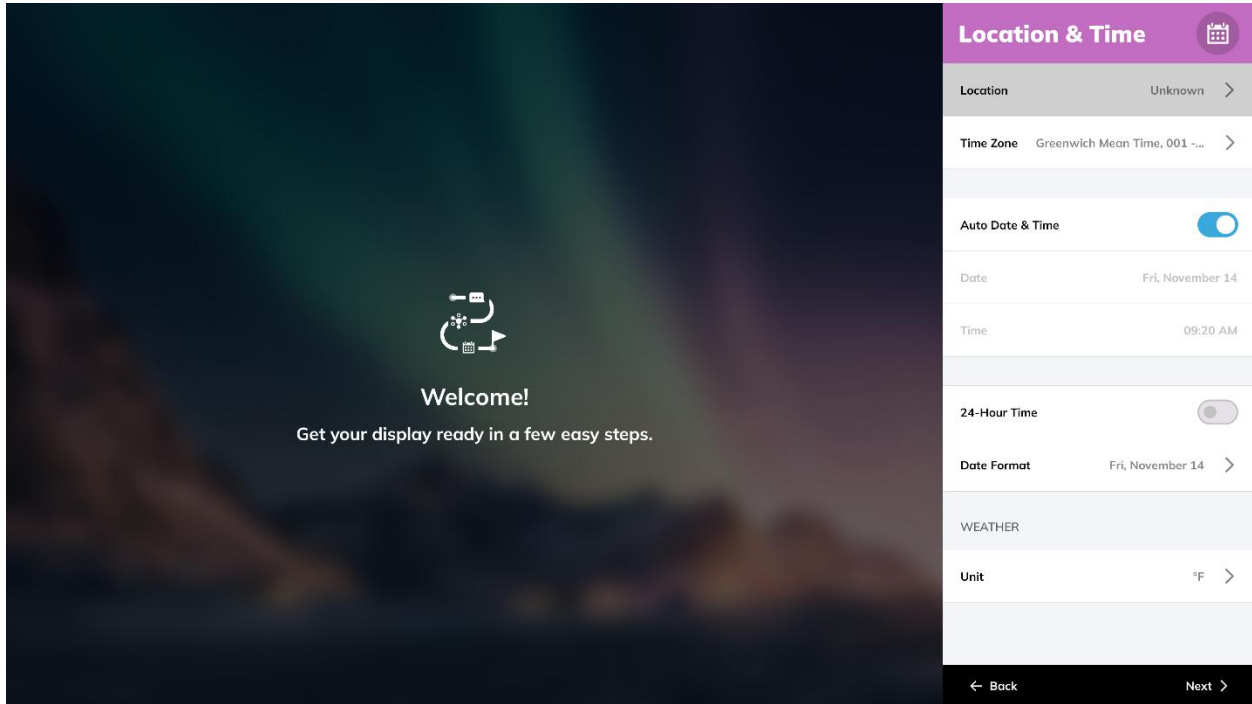
3. Verify your Ethernet network settings



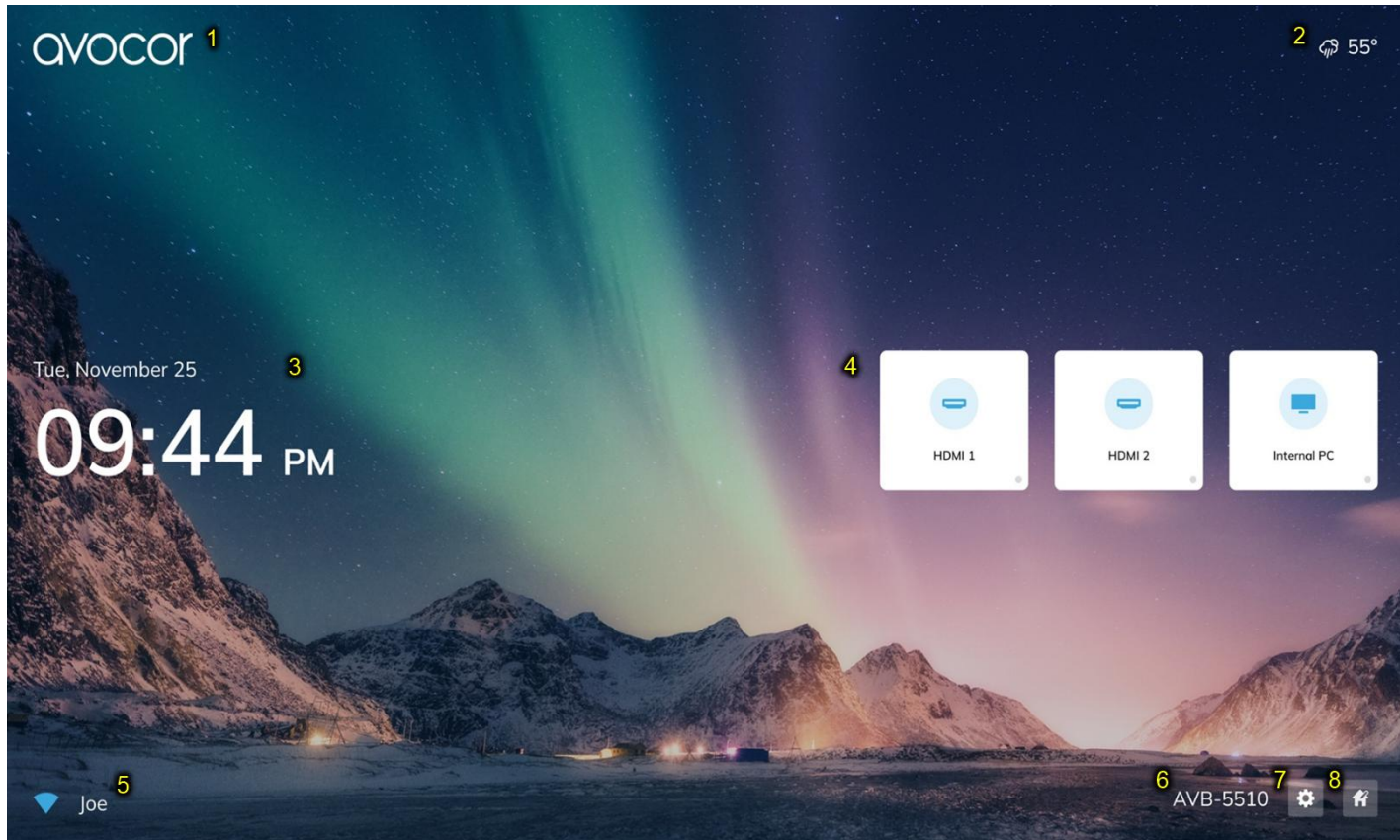
4. Configure your Wi-Fi network settings



5. Configure Location & Time settings

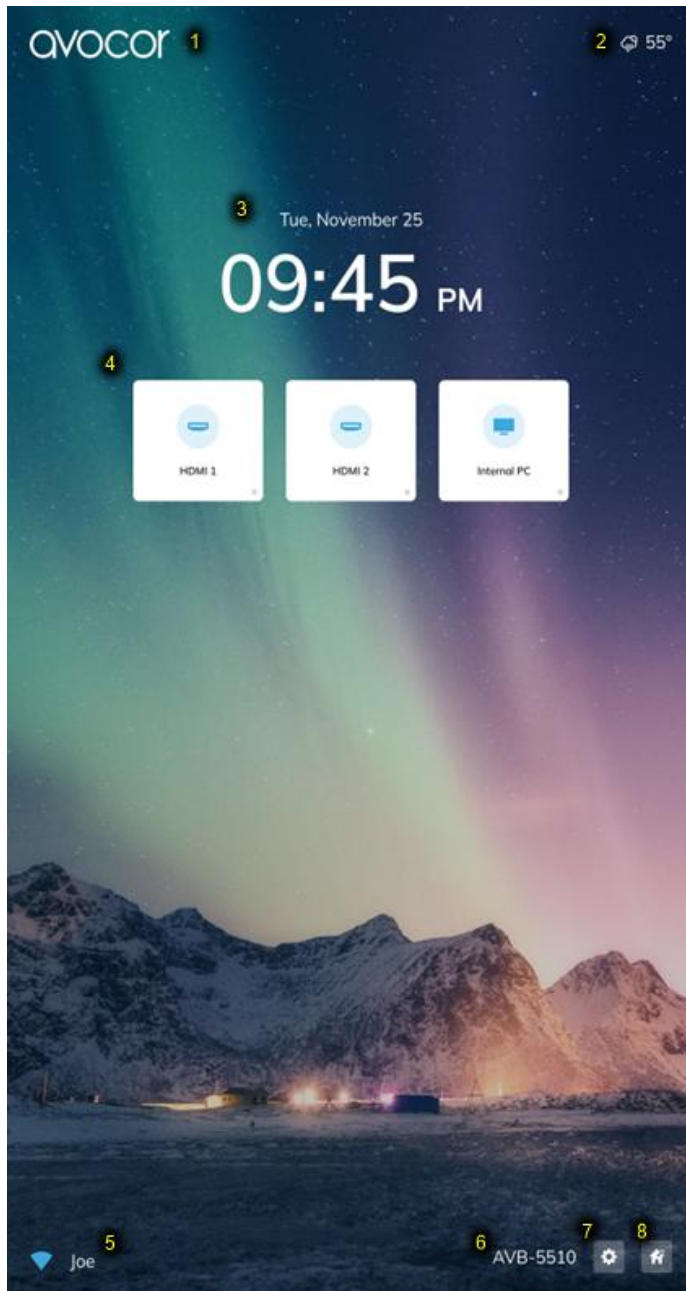


AVOCOR UIQ – HOME SCREEN (LANDSCAPE)



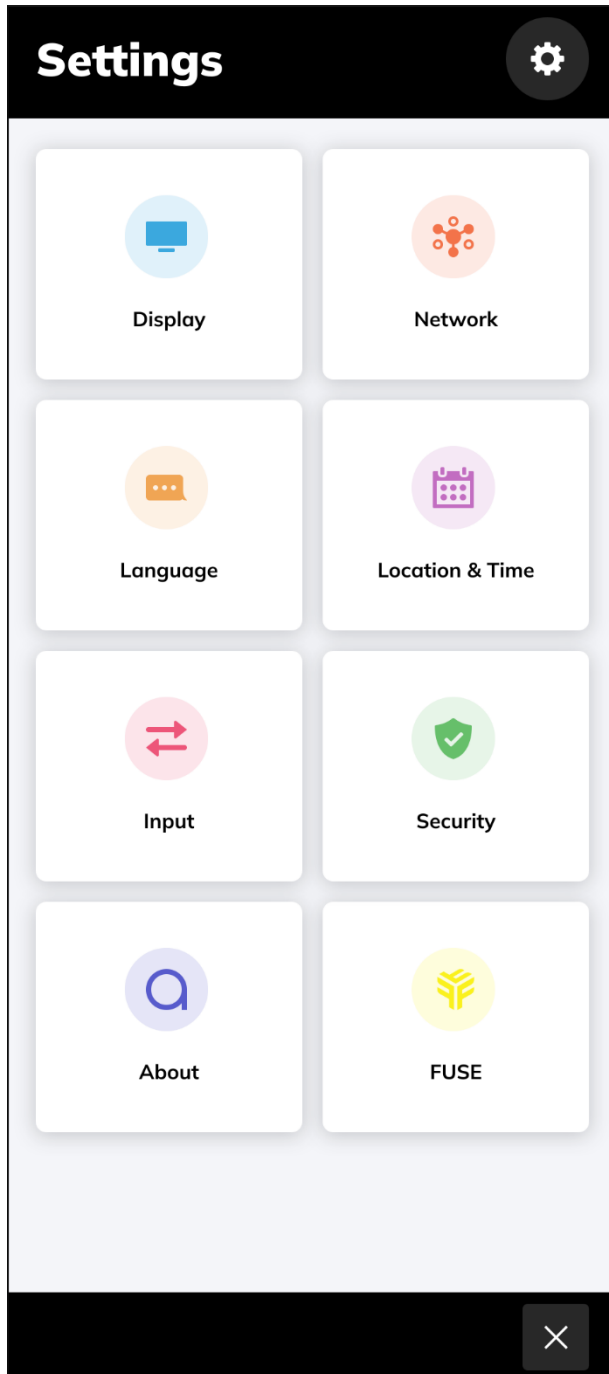
1. **Avocor Logo:** can be toggled off in *Display* settings.
2. **Weather:** shows temperature in either degrees Celsius or degrees Fahrenheit depending on *Location & Time* settings.
3. **Date and Time:** can be configured in *Location & Time* settings.
4. **Source tiles:** white source tiles indicate a source device is connected to that input.
5. **Network Status:** indicates connectivity type (ethernet or Wi-Fi) and network name.
6. **Display Name:** can be configured in *Display* settings.
7. **Settings:** select to open *System Settings*.
8. **Tile Management:** select to open the *Tile Management* menu.

AVOCOR UIQ – HOME SCREEN (PORTRAIT)



1. **Avocor Logo:** can be toggled off in *Display* settings.
 2. **Weather:** shows temperature in either degrees Celsius or degrees Fahrenheit depending on *Location & Time* settings.
 3. **Date and Time:** can be configured in *Location & Time* settings.
 4. **Source tiles:** white source tiles indicate a source device is connected to that input.
 5. **Network Status:** indicates connectivity type (ethernet or Wi-Fi) and network name.
 6. **Display Name:** can be configured in *Display* settings.
 7. **Settings:** select to open *System Settings*.
- Tile Management:** select to open the *Tile Management* menu.

AVOCOR UIQ - SETTINGS



Device Settings are accessible by selecting the the gear icon on the Home Screen, or by pressing the settings button on the remote, which is also indicated by a gear icon.

Display: *Avocor Logo, Name, Home Screen, Wallpaper, Orientation, Energy Saving, Picture, Audio, Auto Close Settings.*

Network: *Status, Wired, Wi-Fi.*

Language: select the system language.

Location & Time: *Location, Auto Date & Time, Set Date, Set Time, Use 24-Hour Time, Date Format, Unit*

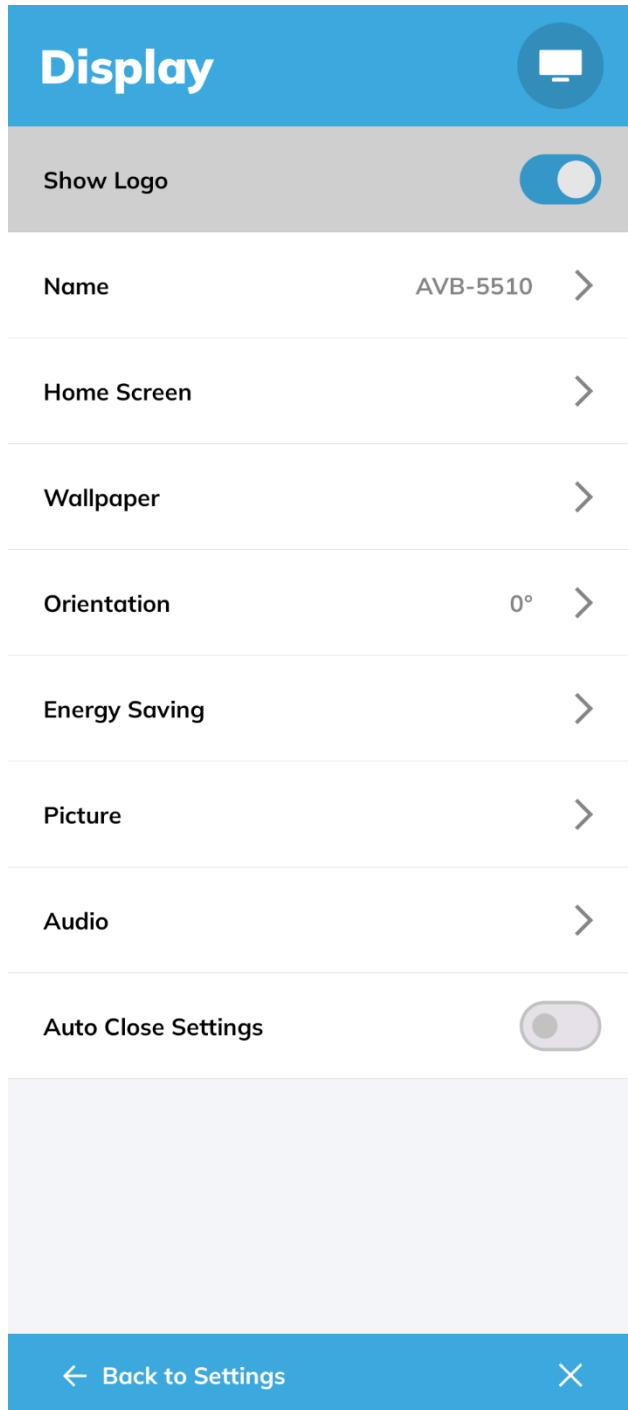
Input: *Favorite Source, Starting Source, Inactivity Timeout, Auto Detect New Input, Rename Sources, Advanced Settings.*

Security: *Require Passkey, Passkey*

About: *Name, Firmware Version, Software Version, Security Configuration Version, Serial Number, Device Model, System Update, Factory Reset.*

Fuse: *Claim QR Code, Status, Device Name, Space Name, Claimed By*

DISPLAY SETTINGS



Avocor Logo: toggle the appearance of Avocor Logo on the top-left corner of the *Home Screen*.

Name: the display's name indicated in the bottom-right corner of the *Home Screen*.

Home Screen: *Show Edit Button*

Wallpaper: configure the *Home Screen* wallpapers.

Orientation: 0° (Landscape), 90° (Portrait)

Energy Saving: *Power Schedule**

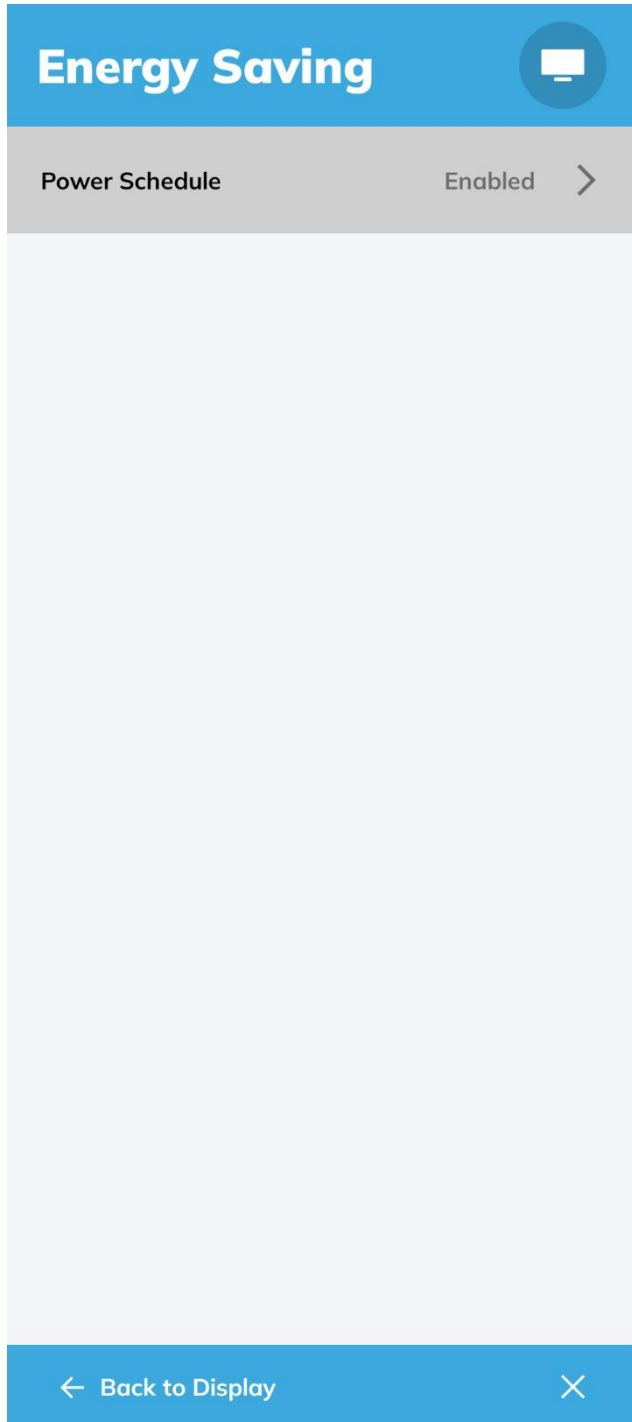
Picture: *Backlight, Picture Mode, Color Temperature, Contrast*

Audio: *Speaker Mute, Treble, Bass*

Auto Close Menu: toggle to enable or disable the settings menu to automatically close after a period of inactivity.

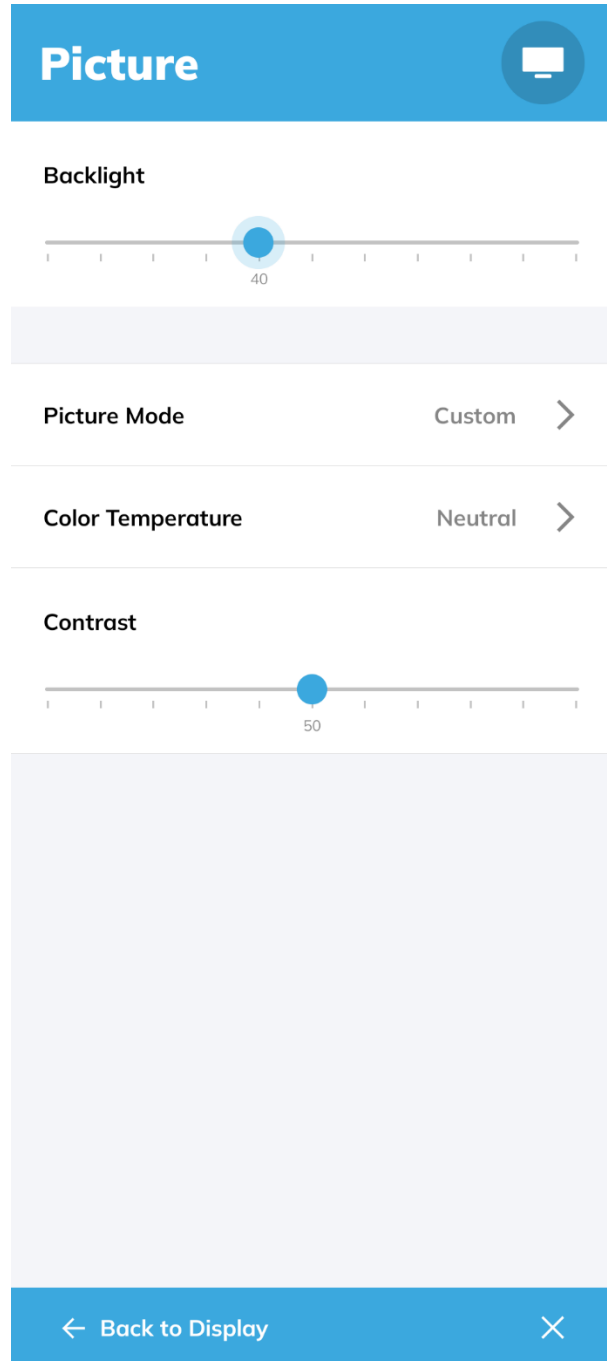
*Power On times can only be enabled if the device is registered and claimed in Fuse.

Energy Saving



Power Schedule: toggle to enable/disable *Power On Time* and *Power Off Time* settings.

Picture



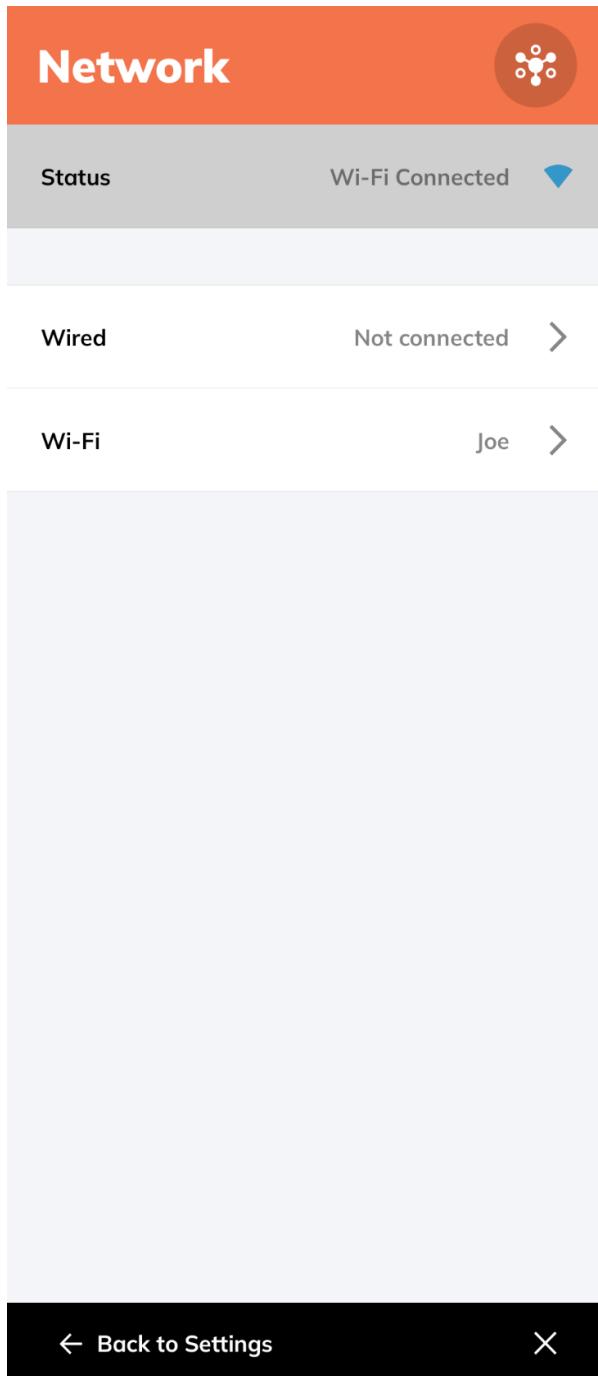
Backlight: adjust the backlight level between 0-100.

Picture Mode: set the usage mode from values *Presentation*, *Video Conference*, and *Whiteboard*, or directly adjust *Hue*, *Saturation*, and *Brightness*.

Color Temperature: set the color temperature of the image from values *Neutral*, *Warm*, and *Cool*, or directly adjust RGB values.

Contrast: adjust the contrast level between 0-100.

NETWORK SETTINGS



Status: shows the current network connection status for the display.

Wired: configure network settings for an ethernet/LAN connection, and toggle to enable/disable **Wake-On-LAN** packet.

Wi-Fi: configure network settings for Wi-Fi connection.

LOCATION & TIME SETTINGS

Location & Time

Location Unknown >

Time Zone Greenwich Mean Time, 001 -... >

Auto Date & Time

Date Fri, November 14

Time 09:59 AM

24-Hour Time

Date Format Fri, November 14 >

WEATHER

Unit °F >

< Back to Settings
×

Location: enter a location of reference for time and weather-related settings.

Auto Date & Time: toggle on to acquire the date & time automatically with regards to the *Location* setting and network connection.

Set Date: when *Auto Date & Time* is toggled off, manually set the date on the display's internal clock.

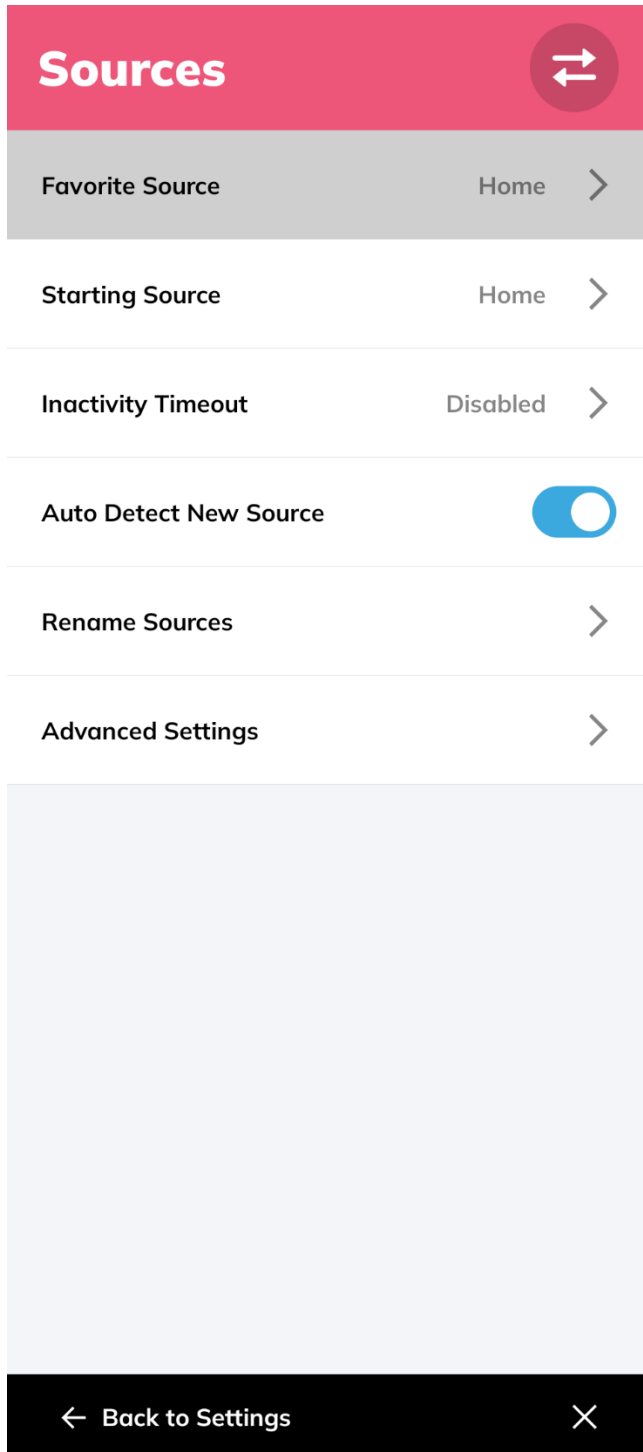
Set Time: when *Auto Date & Time* is toggled off, manually set the time on the display's internal clock.

Use 24-Hour Time: toggle to enable/disable 24-hour format for the clock.

Date Format: select the format of the date as it appears on the *Home Screen*.

Weather - Unit: select either *Degrees Celsius* or *Degrees Fahrenheit* for the weather indicator on the *Home Screen*.

INPUT SETTINGS



Favorite Source: select a source input to assign to the *Home* button on the remote control (default: *Home Screen*).

Starting Source: select the source input to show when powering on the display (default: *Home Screen*).

Inactivity Timeout: select a source that the display will automatically switch to after a set period of inactivity (default: *Disabled*).

Auto Detect New Input: toggle to enable the display to switch to a newly connected source input automatically.

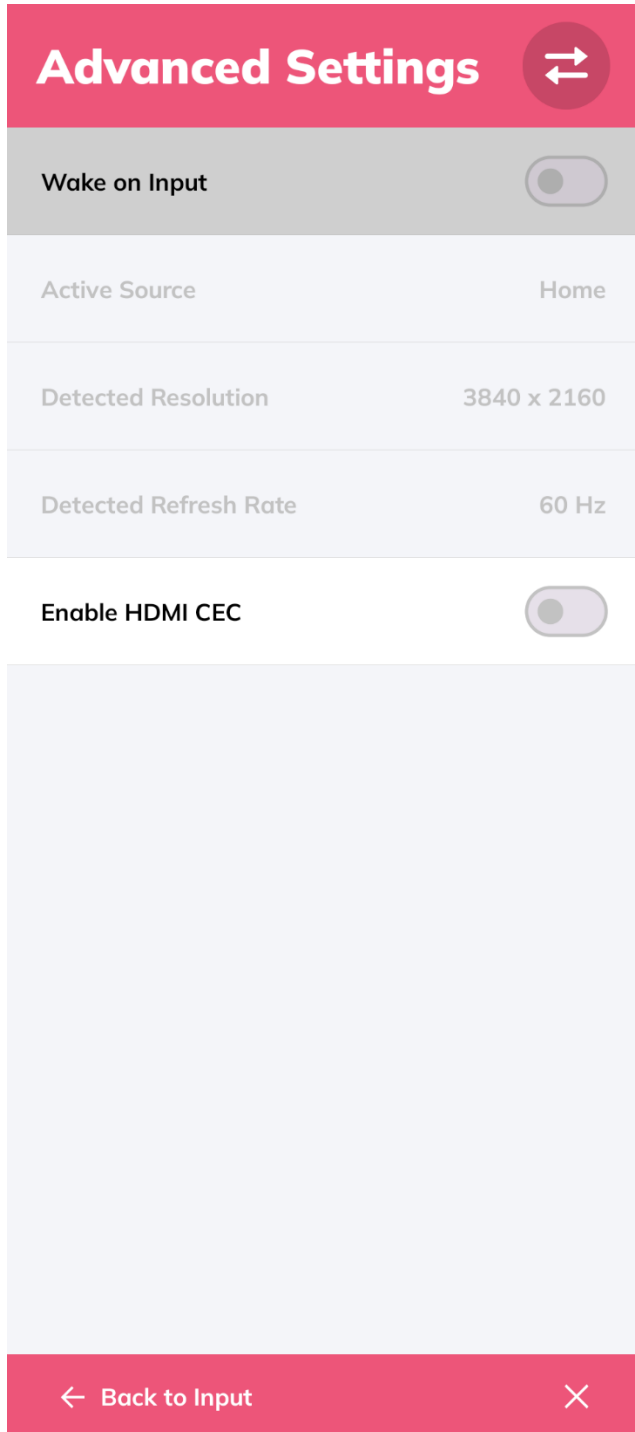
Source Preview: toggle to show a preview of the source when tapping on a *Source Tile* on the *Home Screen*.

Rename Sources: change the names of source inputs as they appear on the display and *Home Screen*.

Advanced Settings: *Wake on Input, Current Source, Detected Resolution, Detected Refresh Rate, Stretch to Fit*, Enable HDMI CEC**.

*Available only on applicable models.

Input – Advanced Settings



Wake on Input: toggle on to enable the display to wake from standby once a source device is connected.

Active Source: shows the name of the source currently activated on the display (read-only).

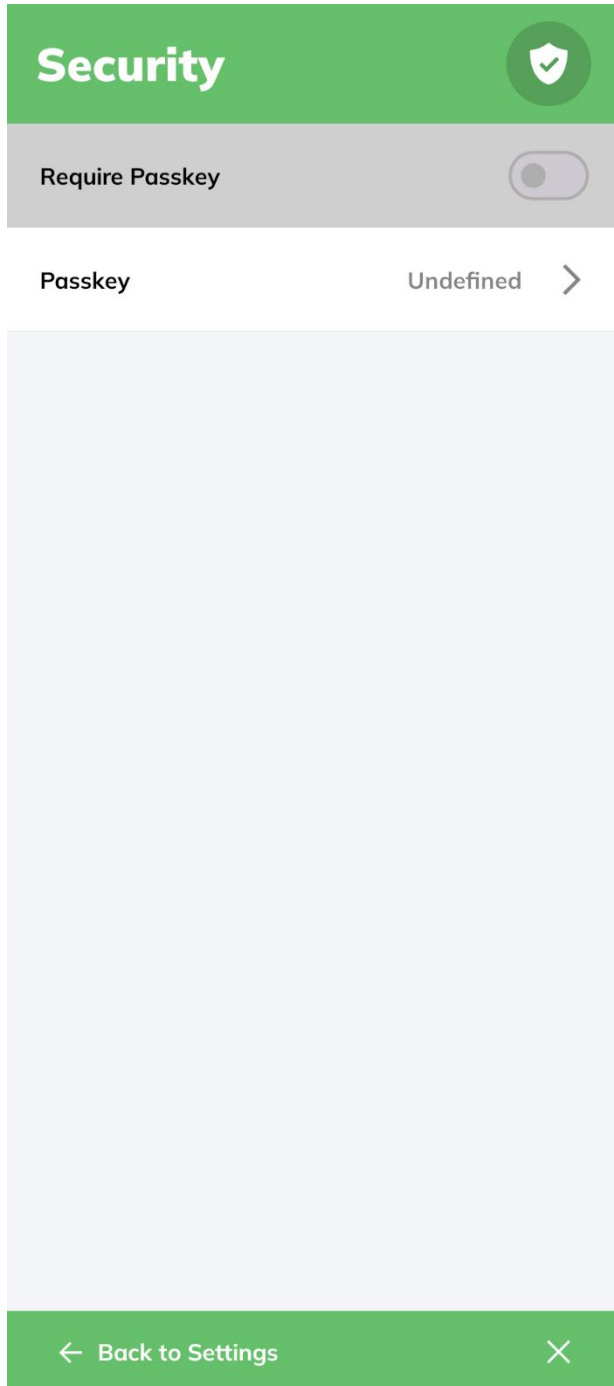
Detected Resolution: shows the detected resolution of the currently activated source (read-only).

Detected Refresh Rate: shows the detected refresh rate of the currently activated source (read-only).

Enable HDMI CEC*: enable to allow for HDMI CEC control with applicable source devices.

*Available only on applicable models.

SECURITY SETTINGS

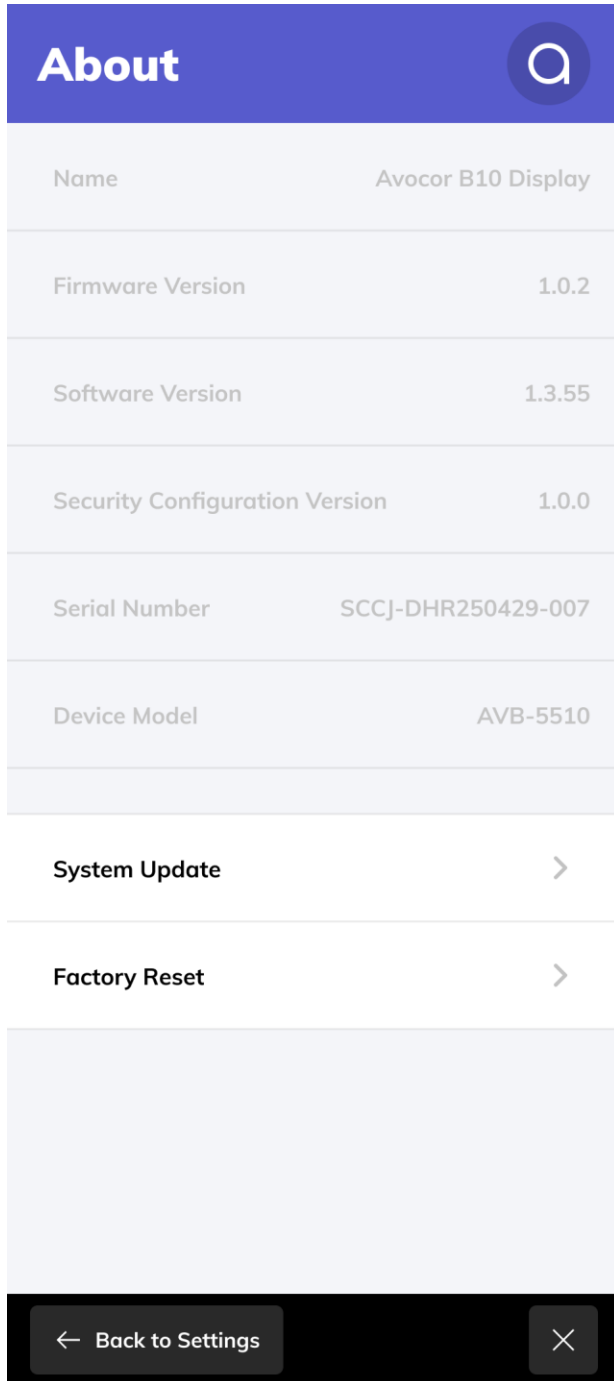


Require Passkey: toggle on to require a passkey to access the display's *Settings* menus (*Set Passkey* required).

Set Passkey: set a passkey for *Require Passkey*.



ABOUT



Name: name of the display, as configured in *Display* settings or FUSE.

Firmware Version: shows the current firmware version of the display.

Software Version: shows the current application version of the display.

Security Configuration Version: shows the current security configuration version of the display

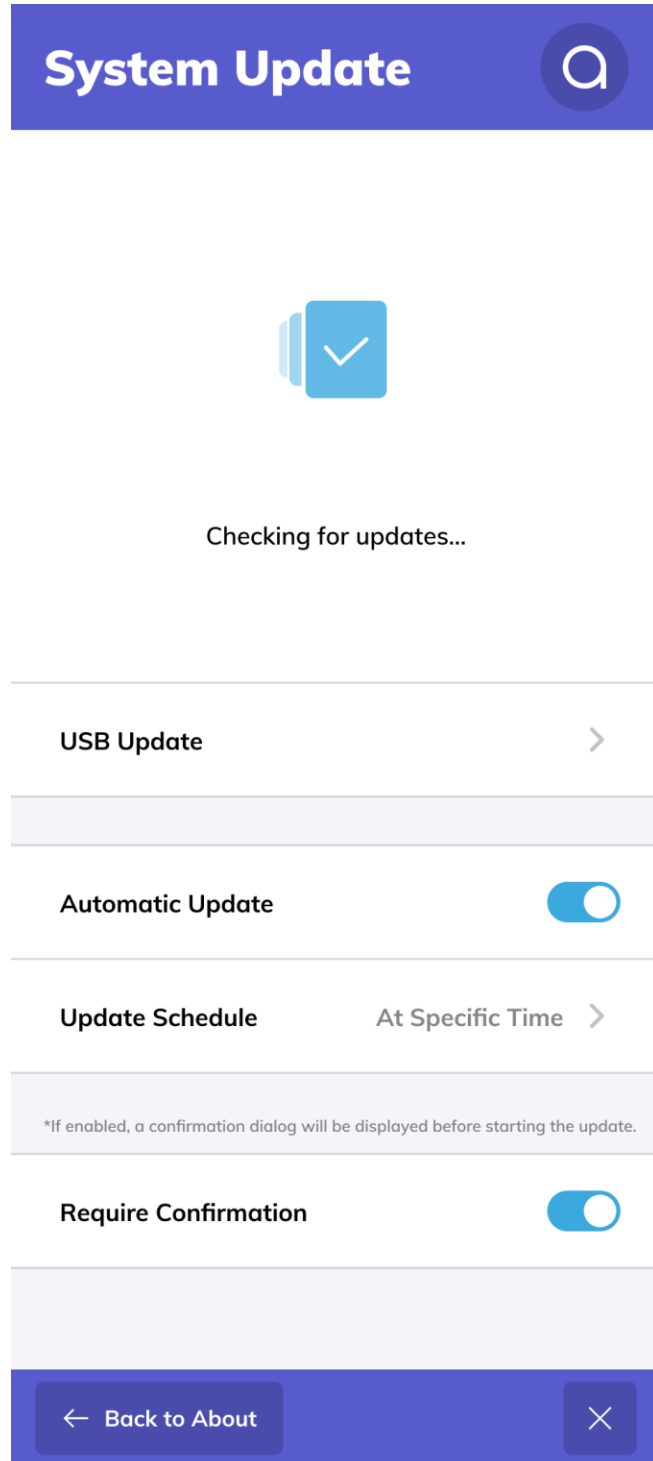
Serial Number: shows the serial number of the display.

Device Model: shows the device name of the display.

System Update: access OTA and USB update features.

Factory Reset: select to begin the *Factory Reset* process.

ABOUT – SYSTEM UPDATE



Checking for updates: if a new update is available via OTA, it will appear in this window, showing the new version number, release notes, and a **Download & Apply Update** button will appear, which will download and install the firmware once selected and confirmed.

USB Update: select to begin the USB Update process, which is detailed on the next page of this manual.

Automatic Update: toggle on to enable the display to download available OTA updates automatically and reveal the **Update Schedule** and **Require Confirmation** menus.

Update Schedule: updates will be installed automatically at the time you choose, such as **At Specific Time**, or **On startup**.

Require Confirmation: toggle on to enable a confirmation dialog that will appear on screen before installing the update.

USB UPDATE

To update your display's firmware manually via USB drive, you'll need to acquire the latest firmware file from our helpdesk at avocorna.zendesk.com.

Once you have downloaded the files, follow these instructions to update your display:

1. Prepare a USB drive formatted to NTFS.
2. Extract the contents of the downloaded ZIP file to the root directory of the USB drive:

A screenshot of a file explorer window showing the contents of a USB drive. The drive is named 'USB Drive' and contains a folder 'System Volume Information' and three files: 'MiniLoaderAll.bin' (757 KB, BIN File), 'misc.img' (48 KB, Disc Image File), and 'update_HW14.img' (3,685,395 KB, Disc Image File).

Name	Date modified	Type	Size
MiniLoaderAll.bin	11/15/2025 8:04 PM	BIN File	757 KB
misc.img	9/18/2025 5:37 PM	Disc Image File	48 KB
update_HW14.img	11/15/2025 8:34 PM	Disc Image File	3,685,395 KB

3. Insert the USB into the USB-A 3.0 port on the display (see p. 14).
4. Select **Apply Update** on the display to begin installation.



BRING YOUR OWN APPLICATION (BYOA)

Your B-Series device is capable of installing applications via the Fuse management portal. This chapter will guide you through the installation process.

Bring Your Own Application (BYOA) Statement – Unverified Applications

Our platform may allow customers, partners, or administrators to install or connect third-party applications that are not verified, certified, or endorsed by Avocor Technologies (“Unverified Applications”).

By choosing to install or use Unverified Applications, you acknowledge and agree that:

- 1. No Endorsement or Warranty**
Unverified Applications are not reviewed, approved, supported, or endorsed by Avocor Technologies. We make no representations or warranties regarding their security, functionality, availability, or compliance with applicable laws or standards.
- 2. Customer Responsibility**
You are solely responsible for evaluating, selecting, installing, and using any Unverified Application, including assessing its security posture, data handling practices, and compatibility with your systems and regulatory obligations.
- 3. Security and Data Risks**
Unverified Applications may introduce security vulnerabilities, performance degradation, data loss, or unauthorized access to systems or data. Avocor Technologies is not responsible for any damage, data exposure, service disruption, or loss resulting from their use.
- 4. Support Limitations**
Avocor Technologies does not provide technical support, troubleshooting, or maintenance for Unverified Applications. Platform support may be limited or unavailable if issues are determined to be caused by such applications.
- 5. Right to Restrict or Disable**
We reserve the right to restrict, disable, or remove access to Unverified Applications that pose a security risk, violate platform policies, or negatively impact platform stability or other users.
- 6. Compliance and Legal Obligations**
You are responsible for ensuring that your use of Unverified Applications complies with all applicable laws, regulations, contractual obligations, and internal policies.

By proceeding with the installation or use of an Unverified Application, you accept these risks and responsibilities.

BYOA – INSTALLATION PROCESS

Before you begin – Fuse setup and claiming your device

It is necessary to set up a Fuse tenant and register and claim your B-Series device.

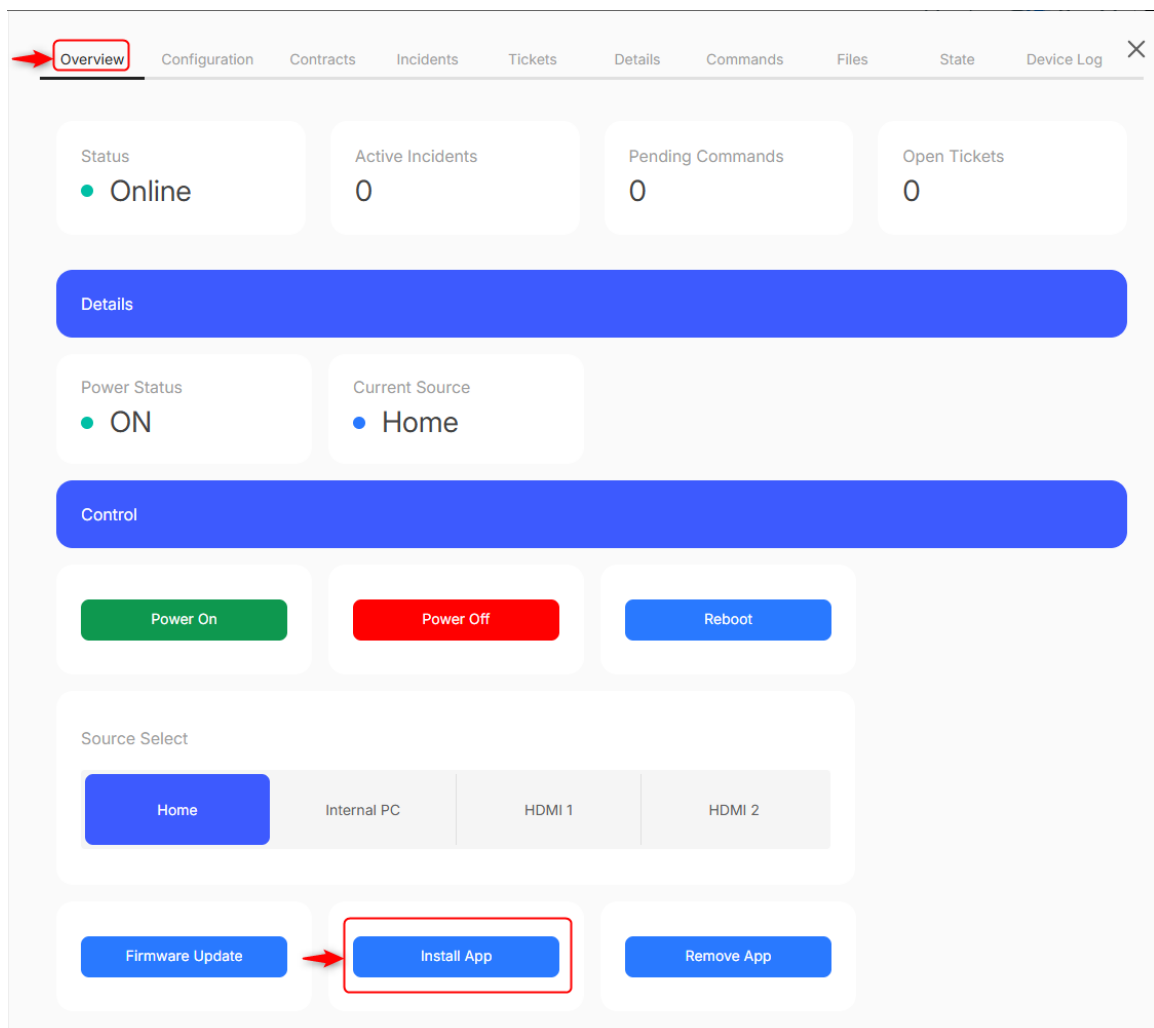
For more information, please read the following article from our helpdesk:
<https://avocorna.zendesk.com/hc/en-us/articles/33959451546381-FUSE-Help>

Supported file-types

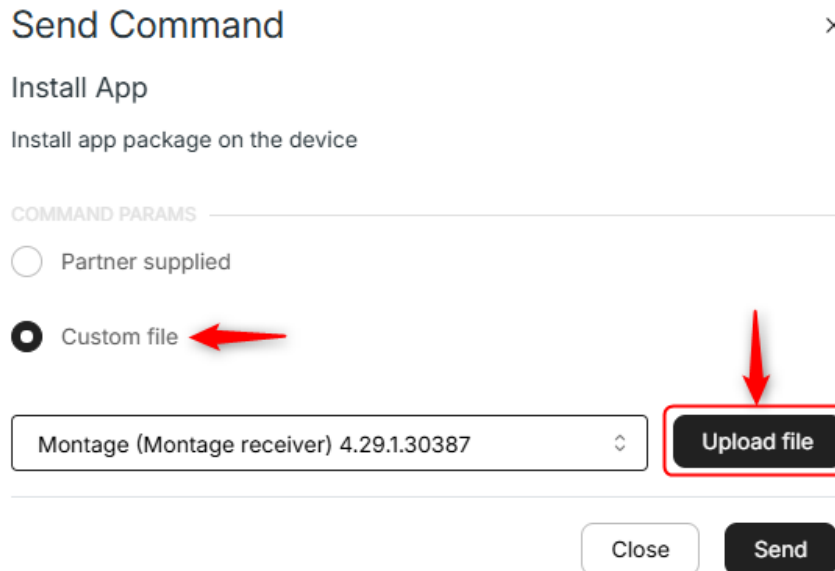
APK (.apk) files are supported.

Step-by-step installation guide:

1. Open your Fuse tenant (app.xyte.io) and find your desired device.
2. Click on your device to open the device's control panel.
3. In the **Overview** tab, click the "Install App" widget.

A screenshot of a web-based device control panel. At the top, there is a navigation bar with tabs: Overview (highlighted with a red box and arrow), Configuration, Contracts, Incidents, Tickets, Details, Commands, Files, State, and Device Log. Below the navigation bar, there are four status cards: Status (Online), Active Incidents (0), Pending Commands (0), and Open Tickets (0). A blue bar labeled 'Details' is below these. Then, two more status cards: Power Status (ON) and Current Source (Home). Another blue bar labeled 'Control' is below. Under 'Control', there are three buttons: Power On (green), Power Off (red), and Reboot (blue). Below that is a 'Source Select' section with four buttons: Home (blue), Internal PC (grey), HDMI 1 (grey), and HDMI 2 (grey). At the bottom, there are three buttons: Firmware Update (blue), Install App (blue, highlighted with a red box and arrow), and Remove App (blue).

4. Select “Custom file”
5. Click “Upload file”

A screenshot of a 'Send Command' dialog box. The title bar says 'Send Command' with a close button (X) on the right. Below the title, it says 'Install App' and 'Install app package on the device'. Underneath is a section labeled 'COMMAND PARAMS'. There are two radio button options: 'Partner supplied' (unselected) and 'Custom file' (selected). A red arrow points to the 'Custom file' radio button. Below the radio buttons is a dropdown menu showing 'Montage (Montage receiver) 4.29.1.30387'. To the right of the dropdown is a button labeled 'Upload file', which is highlighted with a red box and a red arrow pointing down to it. At the bottom of the dialog are two buttons: 'Close' and 'Send'.

6. There are two ways to upload your APK:
 1. **Upload file:** drag & drop the desired APK from your desktop into the indicated field, or click “Upload from computer” to select the file from your computer’s file directory.
 2. **Embed link:** if the APK is hosted via URL, copy and paste the link in the “File Link” field.
7. Fill in the fields with the APK information (only the file name and the APK file are required).
8. Click “Add” - the app should now appear in the dropdown next to “Upload File.”
9. Ensure that the app is selected in the dropdown next to “Upload File.”
10. Click “Send.”
11. Monitor installation progress in the **Configuration** tab of your device’s control panel.
12. Once completed, the app will now be available as a source – you can now open **Tile Management** on your B-Series device and add the app to the Home Screen (see p. 24-25).

EXTERNAL CONTROL

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

RS232 CONTROL CONFIGURATION

Connect your control system or PC to the Female DB9 port on the display.

Communication settings:

Baud Rate: 115200

Data Bit: 8 bit

Stop Bit: 1 Bit

Parity Bit: No Parity

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.

Communication settings:

IP: Device IP address

Port: 10180

COMMAND SET

Both RS232 and LAN use the same command set, which adheres to the following pattern.

- Commands and response codes are in ASCII format, making them easy to implement and debug.
- Commands begin with “!” while response codes begin with “~”
- A carriage return character (ASCII “0x0D”) is always appended to the end of each command or response code, signaling the end of the message.

Important: For clarity, the carriage return character is omitted in the table below.

COMMAND SET (WITH CARRIAGE RETURN CHARACTER OMITTED)			
Event	Action Name	Command code	Response code
Version check	Check command set version	!Version ?	Example: ~V1.5.1
Power	Power On	!Power On	~Power On
	Standby	!Power Off	~Power Off
	Power Toggle	!Power Toggle	~Power On or ~Power Off
	Power Query	!Power ?	~Power On or ~Power Off
Backlight	Set Level (0-100)	!Backlight 55	~Backlight 55
	Query	!Backlight ?	~Backlight 55
Volume	Volume Up	!Volume Up	~Volume 55
	Volume Down	!Volume Down	~Volume 55
	Volume Set Level (0-100)	!Volume 55	~Volume 55
	Volume Query	!Volume ?	~Volume 55
	Mute On	!Mute On	~Mute On
	Mute Off	!Mute Off	~Mute Off

	Mute Toggle	!Mute Toggle	~Mute On or ~Mute Off
	Mute Query	!Mute ?	~Mute On or ~Mute Off
Input	Input Home (Android)	!Input Android 1	~Input Android 1
	Input HDMI 1	!Input HDMI 1	~Input HDMI 1
	Input HDMI 2	!Input HDMI 2	~Input HDMI 2
	Input OPS 1	!Input OPS 1	~Input OPS 1
	Query	!Input ?	~Input Android 1 ~Input HDMI 1 ...
Signal Status	Status HDMI 1	!Status HDMI 1 ?	~Status HDMI 1 Connected or ~Status HDMI 1 Disconnected

	Status HDMI 2	!Status HDMI 2 ?	~Status HDMI 2 Connected or ~Status HDMI 2 Disconnected
	Status OPS 1	!Status OPS 1 ?	~Status OPS 1 Connected or ~Status OPS 1 Disconnected
Application	Get All Installed Apps	!List ?	~App List ABC XYZ
	Open Application XYZ	!Open XYZ	~Open XYZ
	Close Application XYZ	!Close XYZ	~Close XYZ
IR Emulation	IR Home	!IR Home	~Ack IR
	IR Cursor Up	!IR Up	~Ack IR
	IR Cursor Down	!IR Down	~Ack IR
	IR Cursor Left	!IR Left	~Ack IR
	IR Cursor Right	!IR Right	~Ack IR
	IR OK	!IR Ok	~Ack IR



	IR Back	!IR Back	~Ack IR
Invalid command			~Error <original command>

AVOCOR: THREE-YEAR LIMITED WARRANTY

Congratulations on purchasing an Avocor B 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 can store 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 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 cannot 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



B SERIES USER MANUAL

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.