ViewSonic®

IFP52 Series

Commercial Touch Display
User Guide

IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic® Corporation, which is also found on our web site at http://www.viewsonic.com in English, or in specific languages using the Regional selection box of our website.

Model No. VS18373 | VS18374 | VS18375|VS18497|VS18135
P/N: IFP6552-1A/IFP6552-1B | IFP7552-1A/IFP7552-1B/IFP7552-1BH | IFP8652-1A/IFP8652-1B/IFP8652-1BH

Thank you for choosing ViewSonic®

As a world-leading provider of visual solutions, ViewSonic® is dedicated to exceeding the world's expectations for technological evolution, innovation, and simplicity. At ViewSonic®, we believe that our products have the potential to make a positive impact in the world, and we are confident that the ViewSonic® product you have chosen will serve you well.

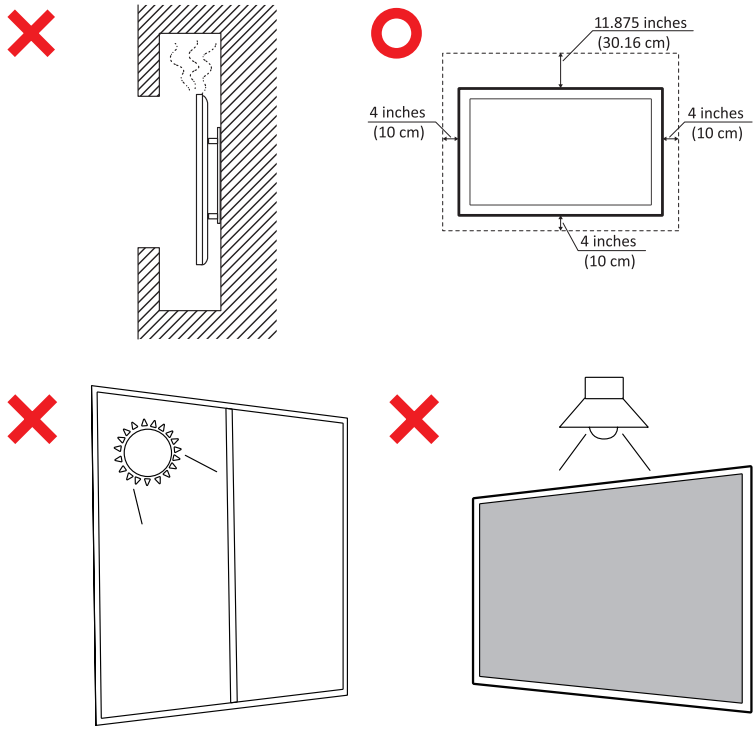
Once again, thank you for choosing ViewSonic®!

Safety Precautions

Please read the following **Safety Precautions** before you start using the device.

- Keep this user guide in a safe place for later reference.
- Read all warnings and follow all instructions.
- Do not use the device near water. To reduce the risk of fire or electric shock, do not expose the device to moisture.
- Never remove the rear cover. This display contains high-voltage parts. You may be seriously injured if you touch them.
- Avoid exposing the device to direct sunlight or other sources of sustained heat.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that may increase the temperature of the device to dangerous levels.
- Use a soft, dry cloth to clean the external housing. For more information, refer to the "Maintenance" section.
- When moving the device, be careful not to drop or bump the device on anything.
- Do not place the device on an uneven or unstable surface. The device may fall over resulting in an injury or a malfunction.
- Do not place any heavy objects on the device or connection cables.
- If smoke, an abnormal noise, or a strange odor is present, immediately turn the device off and call your dealer or ViewSonic®. It is dangerous to continue using the device.
- The device is a monitor with an LED backlight intended for general office use.
- Do not attempt to circumvent the safety provisions of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the plug does not fit into your outlet, obtain an adapter and do not attempt to force the plug into the outlet.
- When connecting to a power outlet, DO NOT remove the grounding prong. Please ensure grounding prongs are NEVER REMOVED.
- Protect the power cord from being treaded upon or pinched, particularly at the plug, and at the point where it emerges from the equipment. Ensure that the power outlet is located near the equipment so that it is easily accessible.

- Only use attachments/accessories specified by the manufacturer.
- When a cart is used, use with caution when moving the cart/equipment combination to avoid injury from tipping over.
- Disconnect the power plug from the AC outlet if the device is not being used for a long period of time.
- Place the device in a well-ventilated area. Do not place anything on the device that prevents heat dissipation. Also, avoid any direct lighting.



- **CAUTION**:
  Immediately unplug your device from the wall outlet and refer servicing to a qualified service personnel under the following conditions:
    - » When the power supply cord or plug is damaged.
    - » If liquid has been spilled onto or objects have fallen into the unit.
    - » If the unit has been exposed to moisture.
    - » If the unit does not operate normally or has been dropped.

  Never place the device in an unstable location. The device may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:
    - » Using cabinets or stands recommended by the manufacturer of the device.
    - » Only using furniture that can safely support the device.
    - » Ensuring the device is not overhanging the edge of the supporting furniture.
    - » Not placing the device on tall furniture (e.g., cupboards or bookcases) without anchoring both the furniture and the device to a suitable support.
    - » Not placing the device on cloth or other materials that may be located between the device and supporting furniture.
    - » Educating children about the dangers of climbing on furniture to reach the device or its controls.

  If the existing device is going to be retained and relocated, the same considerations as above should be applied.

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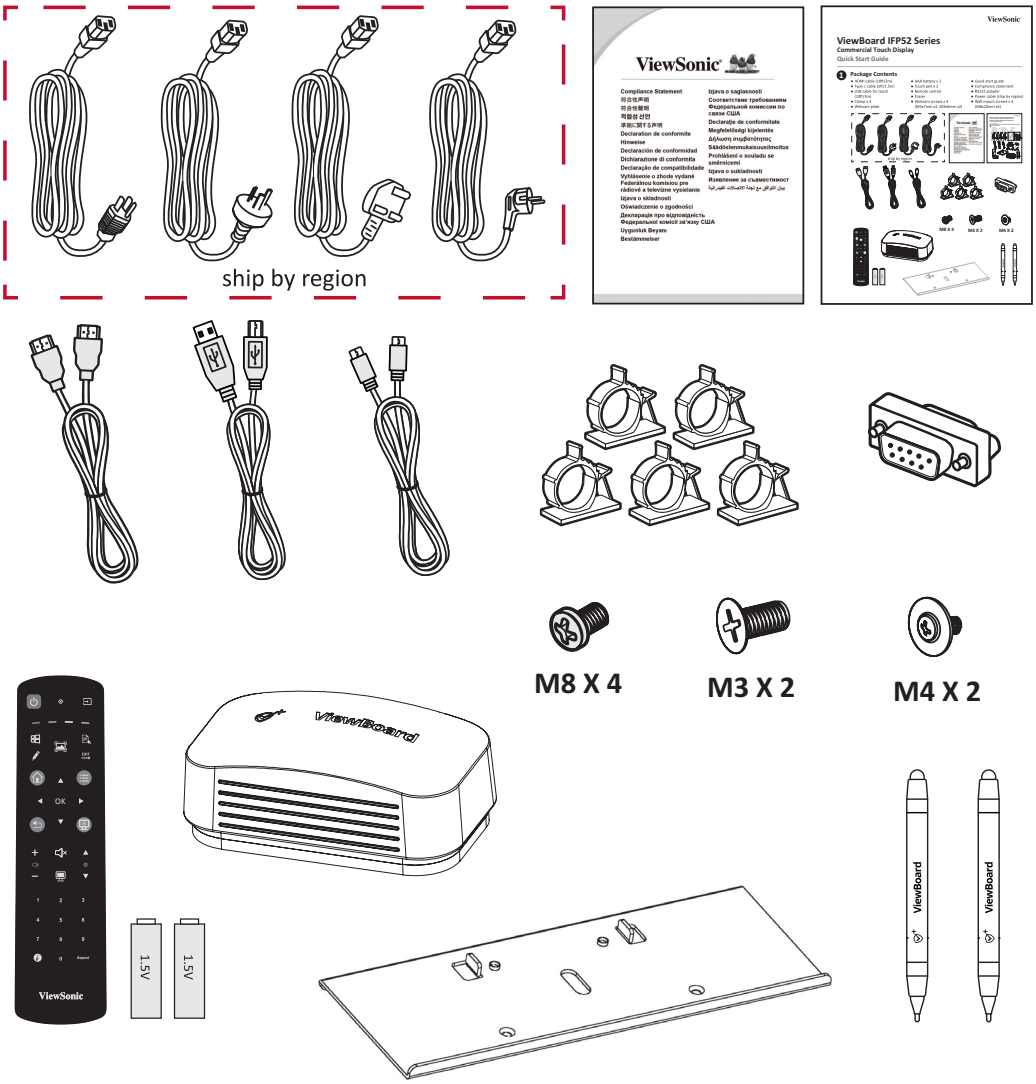
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Introduction

Package Contents

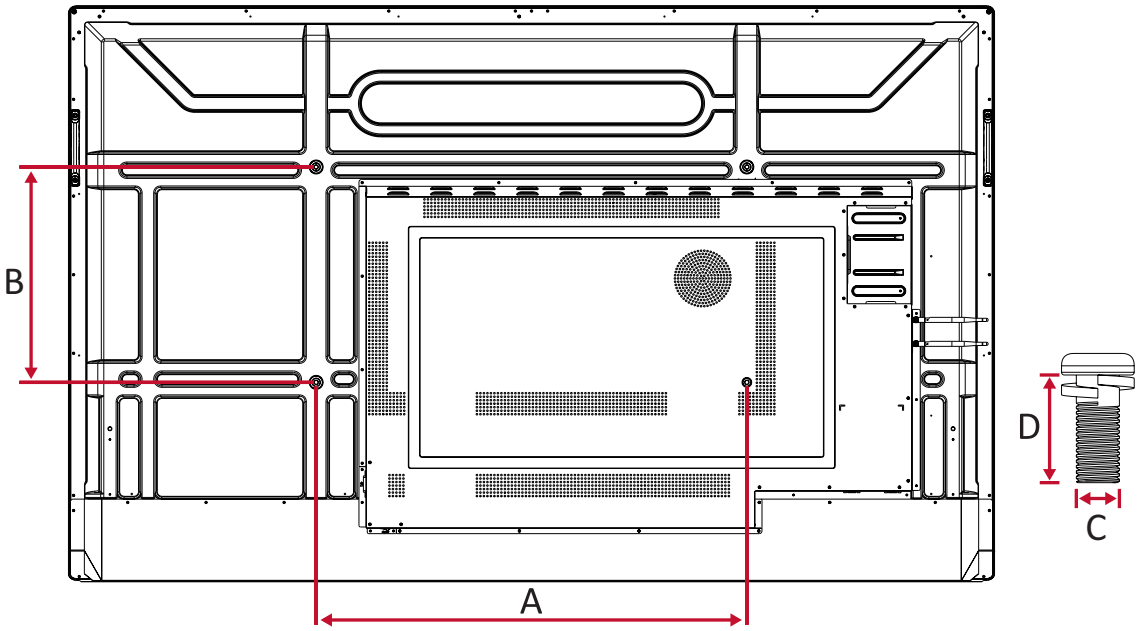
- HDMI cable (10 ft/3 m)
- Power cable
- Remote control
- AAA battery x 2
- USB cable for touch (10 ft /3 m)
- Webcam Plate
- Webcam Screws x 4
  (M4x7mm x 2, M3x6mm x 2)
- Compliance Statement
- Touch Pen x 2
- Quick Start Guide
- RS-232 adapter
- Clamp x 5
- USB Type-C cable (5 ft /1.5 m)
- Eraser
- Wall Mount Screws x 4
  (M8x20mm x 4)



NOTE: The power cord and video cables included in your package may vary depending on your country. Please contact your local reseller for more information.

Wall Mounting Specifications (VESA)

NOTE: Please follow the instructions in the wall mount installation guide to install your wall mount or mobile mount bracket. If attaching to other building materials, please contact your nearest dealer.



Model	VESA Spec. (A x B)	Standard Screw (C x D)	Quantity
IFP6552 Series	600 x 400 mm	M8 x 20 mm	4
IFP7552 Series	800 x 400 mm	M8 x 20 mm	4
IFP8652 Series	800 x 600 mm	M8 x 20 mm	4

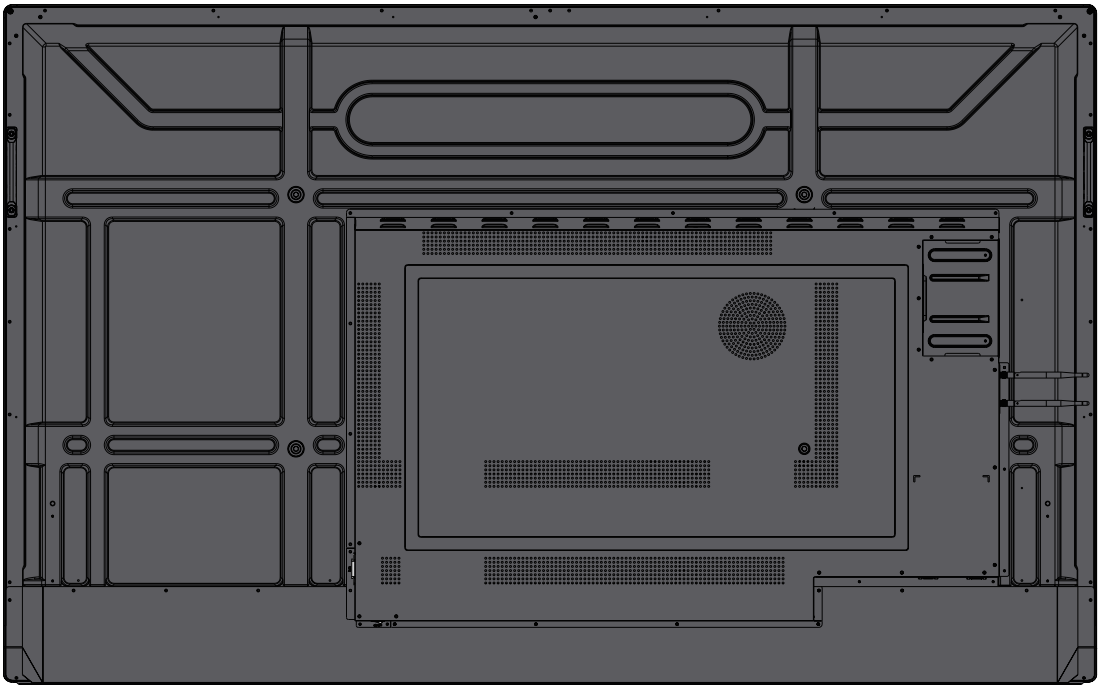
NOTE: Do not use screws that are longer than the standard dimension, as they may cause damage to the inside of the display.

Product Overview

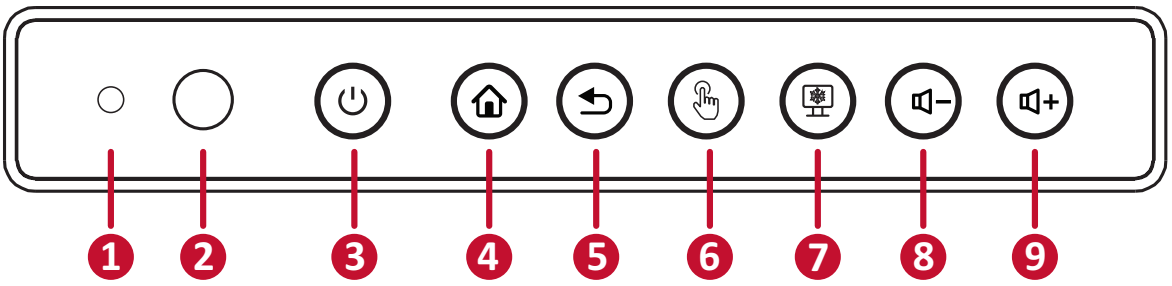
Front Panel



Rear Panel

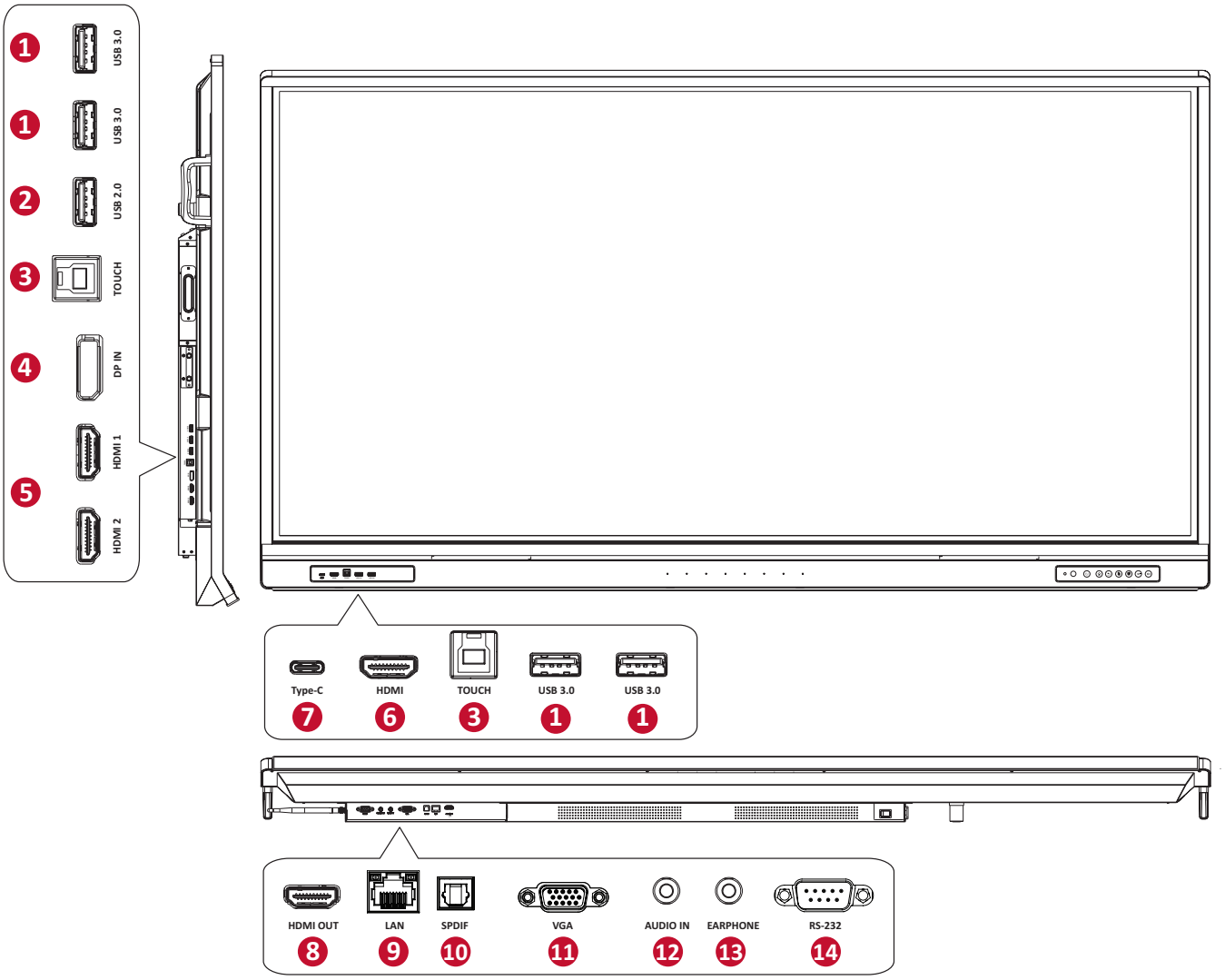


Control Panel



Number	Item	Description
1	○	Ambient Light Sensor to monitor the ambient light
2	◯	Remote control receiver
3	⏻	• Power indicator light • Press the key to turn on the device • Press the key to turn off/on the display backlight only • Press and hold to turn off the device
4	⌂	Back to the ViewBoard player’s main interface
5	↩	Return to the ViewBoard player’s previous level
6	☝	Disable/enable the touch screen
7	❄	Freeze the current image on the screen
8	🔉−	Decrease the Volume
9	🔊+	Increase the Volume

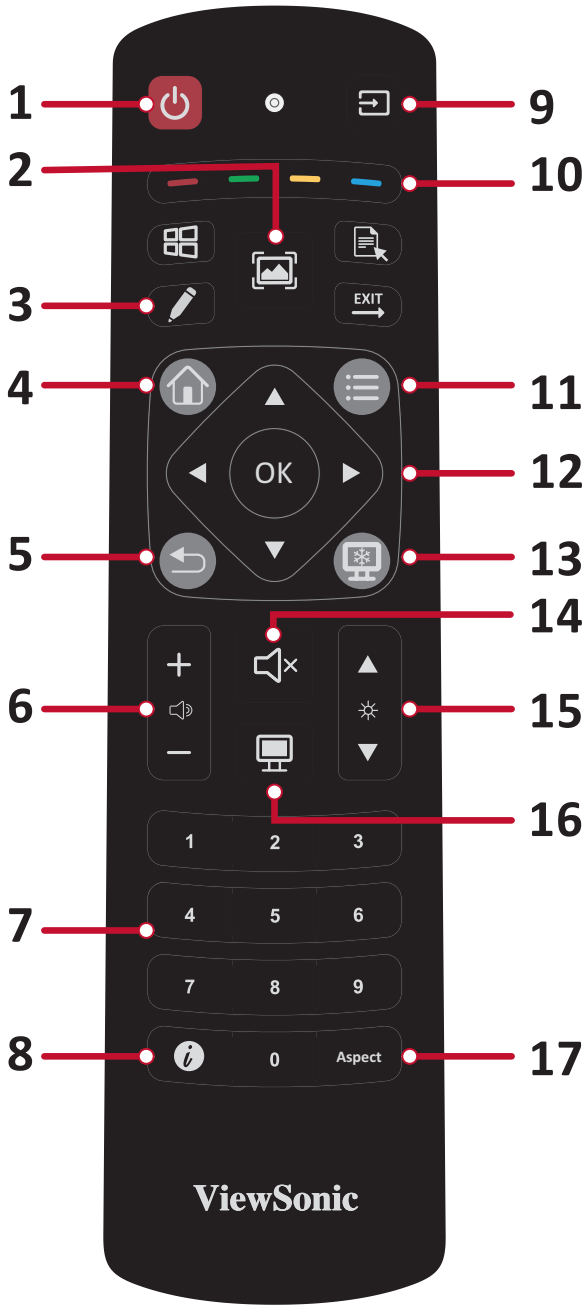
I/O Panels


1
USB 3.0
1
USB 3.0
2
USB 2.0
3
TOUCH
4
DP IN
HDMI 1
5
HDMI 2
Type-C
7
HDMI
6
TOUCH
3
USB 3.0
1
USB 3.0
1
HDMI OUT
8
LAN
9
SPDIF
10
VGA
11
AUDIO IN
12
EARPHONE
13
RS-232
14

Number	Port	Description
1	USB 3.0	Connect USB devices such as hard disks, keyboard, mouse, etc. Automatically switches between PC and ViewBoard.
2	USB 2.0	Connect USB devices such as hard disks, keyboard, mouse, etc. [5V dc/0.5A]
3	TOUCH	• Touch signal output to external PC. • After connection (with an external PC), the device connected to the USB 3.0 port can directly be used by the external PC.
4	DisplayPort IN	DisplayPort input; connect to PC with DisplayPort output.
5	HDMI 1/2	High definition input; connect to PC with HDMI output, set-top box, or other video device.
6	HDMI	(See **HDMI 1/2**)
7	USB Type-C	USB Type-C input; connect to PC with USB Type-C output.
8	HDMI OUT	Connect to devices with HDMI input function. Supports 1080p and 4K@60Hz.
9	LAN	Standard RJ45 (10M/100M/1000M) Internet connection interface. **NOTE:** This network port is used for the ViewBoard Player, Type-C and slot-in PC.
10	SPDIF	Multichannel sound via optical signals.
11	VGA	External computer video input.
12	AUDIO IN	External computer audio input.
13	EARPHONE	Audio output to an external speaker/headset.
14	RS-232	Serial interface; used for mutual transfer of data between devices.

Remote Control

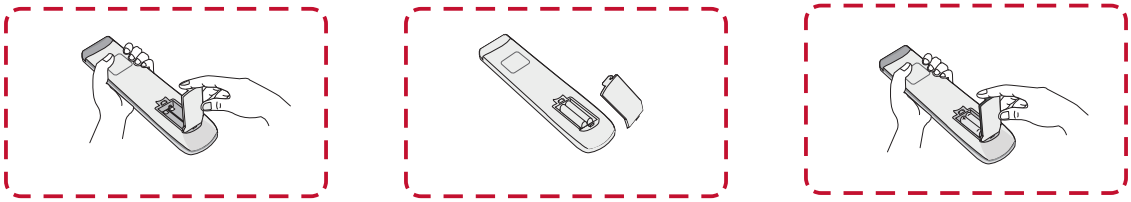
Number	Description
1	Power on/off
2	Screen capture
3	Startup writing
4	Back to the ViewBoard player Home Screen
5	Back/Return to the previous page
6	Increase/Decrease the Volume
7	Number Keypad
8	Information
9	Input source selection
10	Media control buttons: • **Red**: Play/Pause • **Green**: Stop • **Yellow**: Forwards • **Blue**: Backwards
11	Settings menu
12	Up/Down/Right/Left/OK
13	Freeze screen
14	Mute/Unmute
15	Increase/Decrease Brightness
16	Blank Screen
17	Adjust Aspect Ratio



Inserting Remote Control Batteries

To insert batteries into the remote control:

1. Remove the cover on the rear of the remote control.
2. Insert two “AAA” batteries, ensuring the “+” symbol on the battery matches the “+” on the battery post.
3. Replace the cover by aligning it with the slot on the remote control and snapping the latch shut.



(1) (2) (3)

WARNING: There is a risk of explosion if batteries are replaced with the incorrect type.

NOTE:

- It is recommended that you do not mix battery types.
- Always dispose of old batteries in an environmentally friendly way. Contact your local government for more information on how to dispose of batteries safely.

Remote Control Receiver Range

The working range of the remote control is shown here. It has an effective range of 6 meters, 30° degrees left and right. Ensure there is nothing obstructing the remote control's signal to the receiver.



Using Gestures

Touch gestures allow the user to use pre-determined commands without using a keyboard or mouse. Using gestures on the ViewBoard, the user can select/deselect objects, change the location of an object, access settings, erase digital ink, and much more.

Select and Deselect an Object (Clicking)

Press and release the ViewBoard to select/deselect options or objects. This is like a single, standard left mouse click.



Display Menu Options (Right-Clicking)

Press and hold the ViewBoard with your finger. This is like a single, standard right mouse click.



Double-Clicking

Quickly press and release twice in the same location on the ViewBoard. This is like a double, standard left mouse click.



Moving an Object

Press and hold the object on the ViewBoard and slowly drag it with your finger to your desired location.



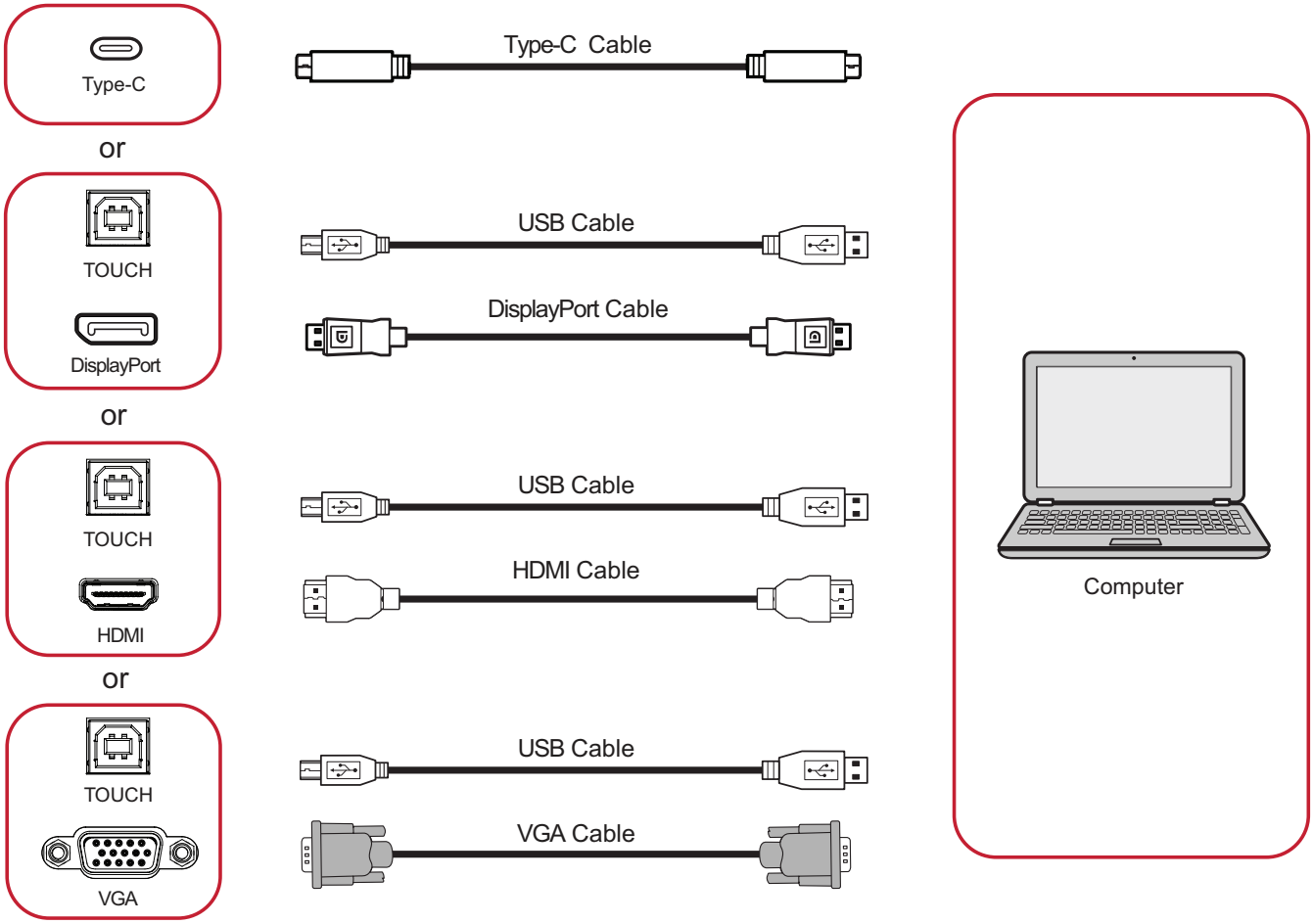
Erasing Digital Ink

Use your flattened hand, palm, or fist on the ViewBoard and move your hand across the area which you wish to erase.



Making Connections

Connecting External Devices and Touch Connection



Your external device(s) can be connected in any of the following configurations:

USB Type-C Connection

To connect via USB Type-C:

Connect a USB Type-C cable from your external device to the **Type-C** port on the ViewBoard.

DisplayPort Connection

To connect via DisplayPort:

1. Connect a DisplayPort cable from your external device to the **DisplayPort** port on the ViewBoard.
2. Connect a USB cable to the external device from the **TOUCH** port of the ViewBoard.

HDMI Connection

To connect via HDMI:

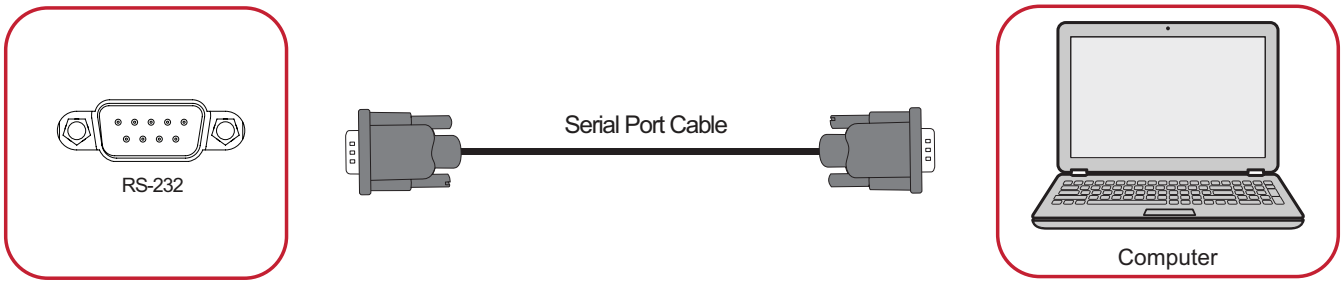
1. Connect an HDMI cable from your external device to the **HDMI** port on the ViewBoard.
2. Connect a USB cable to the external device from the **TOUCH** port of the ViewBoard.

VGA Connection

To connect via VGA:

1. Connect a VGA cable from your external device to the **VGA** port on the ViewBoard.
2. Connect a USB cable to the external device from the **TOUCH** port of the ViewBoard.

RS-232 Connection



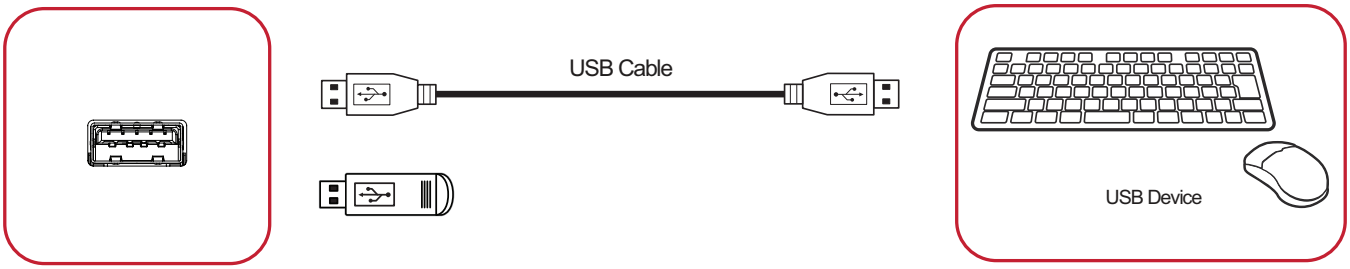
When you use a RS-232 serial port cable to connect your display to an external computer certain functions can be controlled remotely by the PC, including Power On/Off, Volume adjustment, Input select, Brightness, and more.

USB and Networking Connections

Just like any PC, it is easy to connect various USB devices and other peripherals to your ViewBoard.

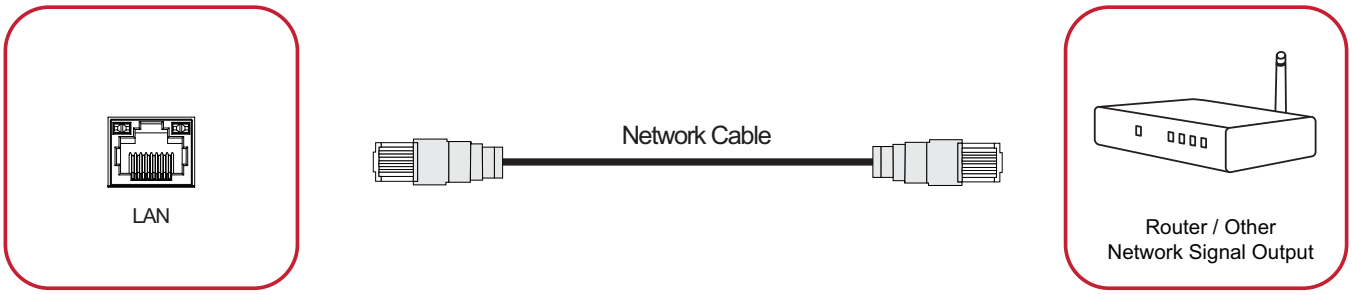
USB Peripherals

Plug the USB device cable into the **USB** port.

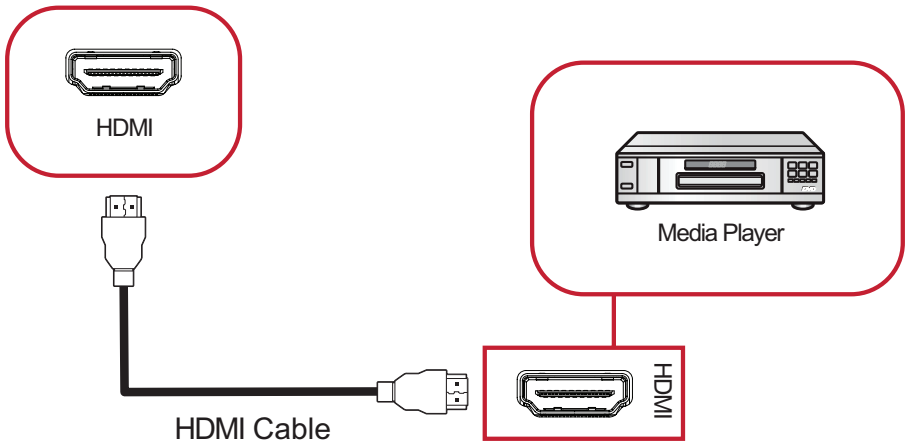


Networking and Modem cables

Plug the network cable into the **LAN** port.



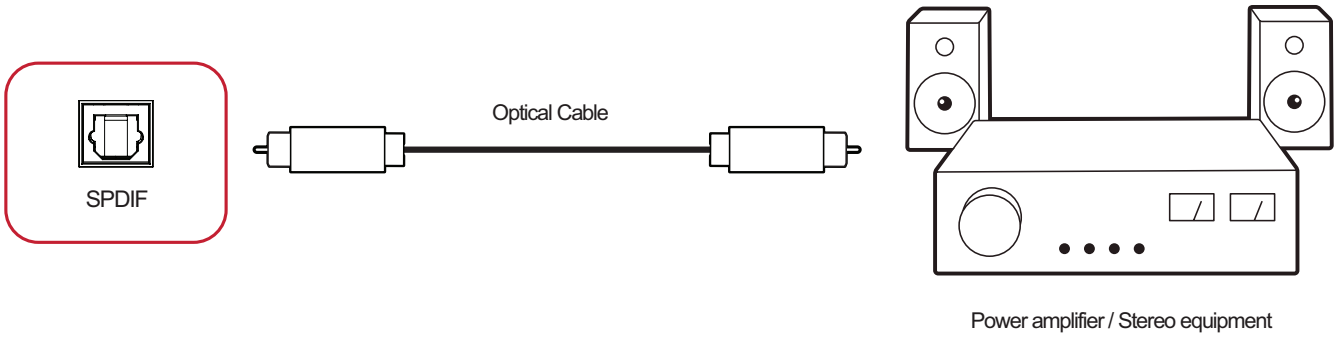
Media Player Connection



To connect to a media player:

1. Connect the HDMI cable to the **HDMI** ports on your ViewBoard and peripheral device.
2. Plug in the power cord of your ViewBoard, and turn on the power supply switch.
3. Press the ⏻ **Power** button on the right-hand side of the ViewBoard to turn the screen on.
4. Press the **INPUT** button on the remote control and switch to the “HDMI” input source.

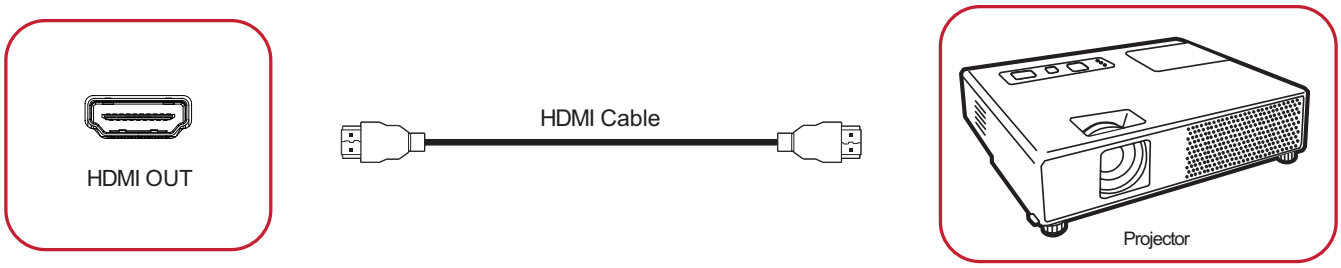
SPDIF Connection



To connect to an external sound system:

1. Connect an optical cable from the **SPDIF** port to your sound system's optical connector.
2. Plug in the power cord of your ViewBoard, and turn on the power supply switch.
3. Press the ⏻ **Power** button on the right-hand side of the ViewBoard to turn the screen on.

Video Output Connection



To output video via a display device:

1. Connect an HDMI cable to the **HDMI IN** port of your display device, and the other end to the **HDMI OUT** port of your ViewBoard.
2. Plug in the power cord of your ViewBoard, and turn on the power supply switch.
3. Press the ⏻ **Power** button on the right-hand side of the ViewBoard to turn the screen on.

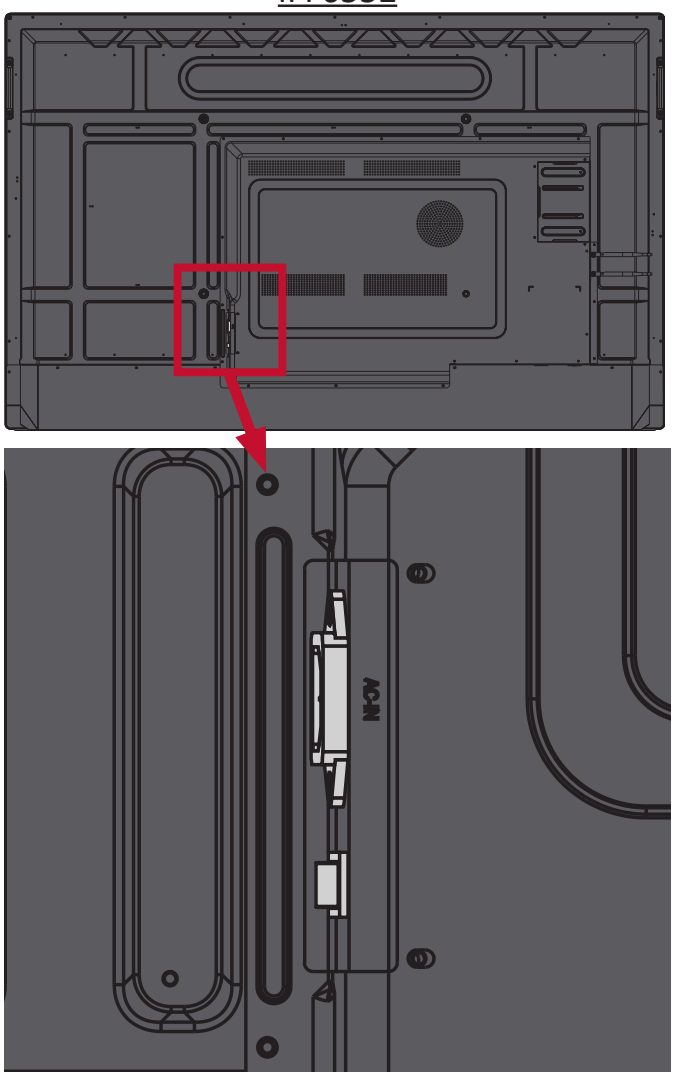
Using Your ViewBoard

Powering On/Off your ViewBoard

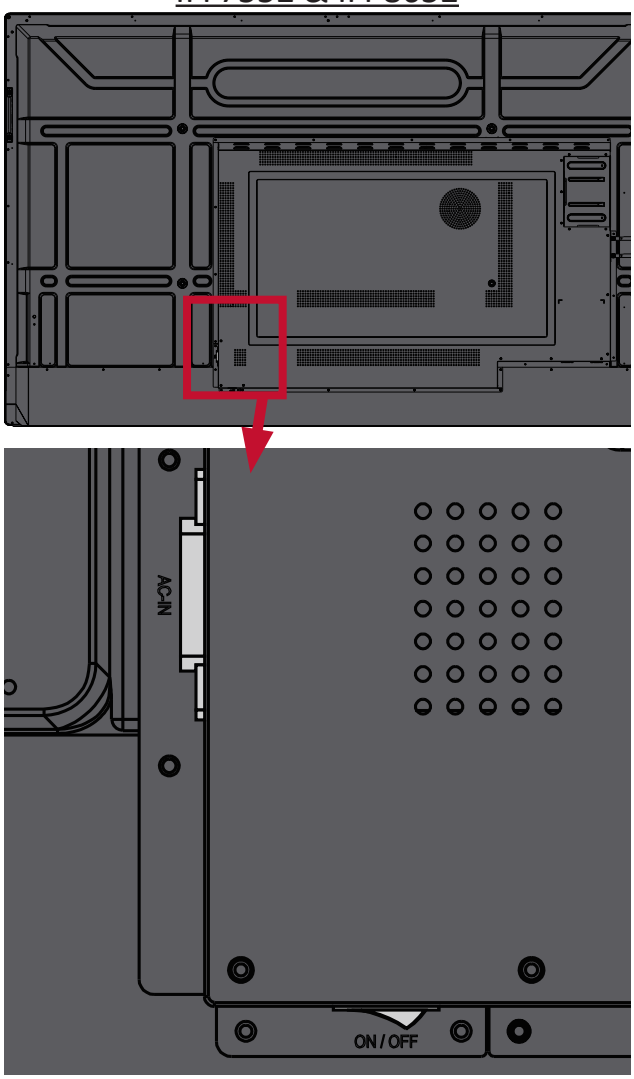
1. Ensure the power cord is connected, plugged into a power outlet, and the power switch is in the “On” position.

NOTE: The AC IN socket and Power Switch are located at the rear of the device.

IFF6552



IFF7552 & IFP8652



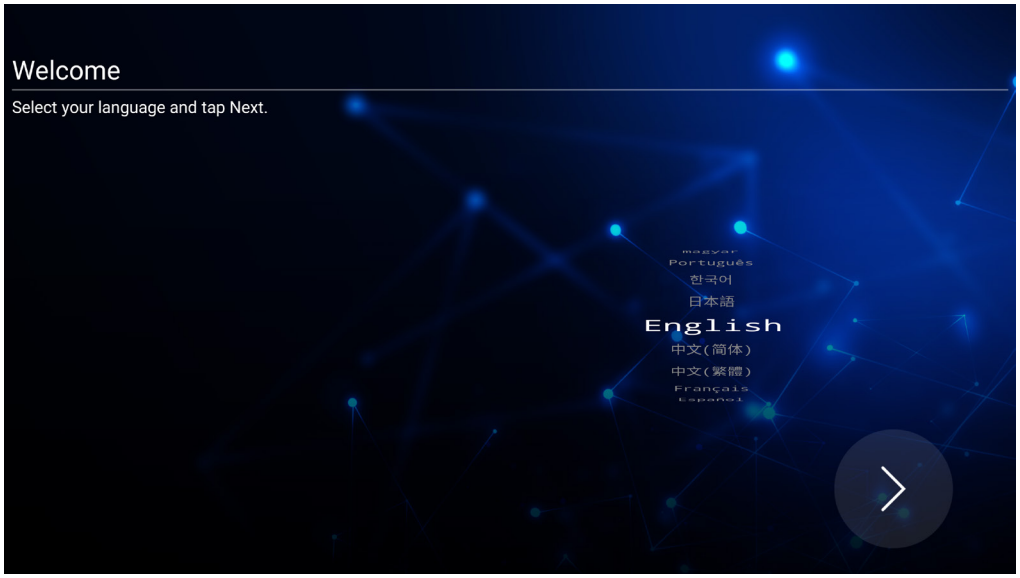
2. Press the ⏻ Power button to turn on the ViewBoard.

3. To turn the ViewBoard off, press and hold the ⏻ Power button.

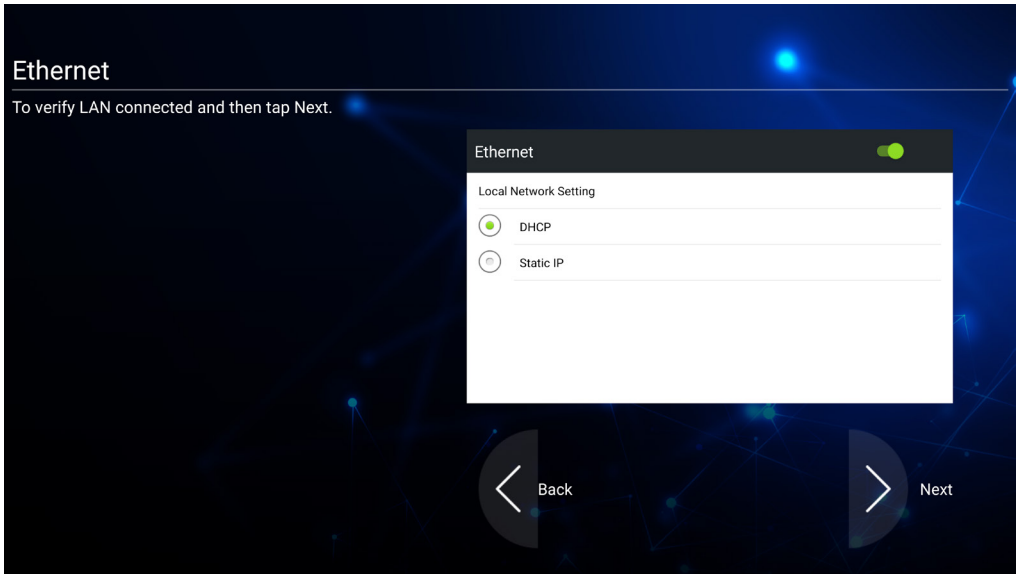
Initial Launch Setup

When you first turn on your ViewBoard, an initial setup wizard will launch.

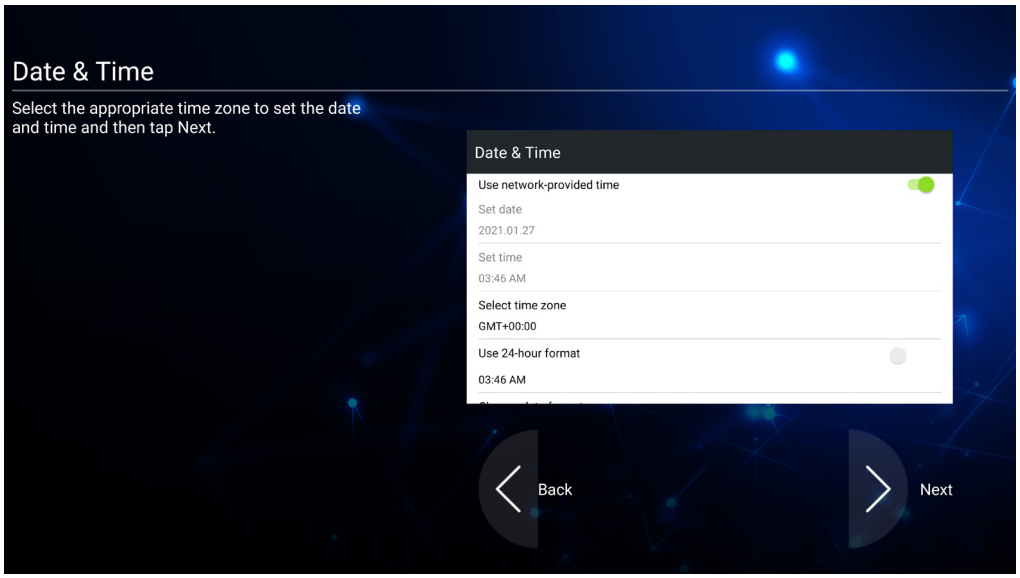
1. Select your Language:



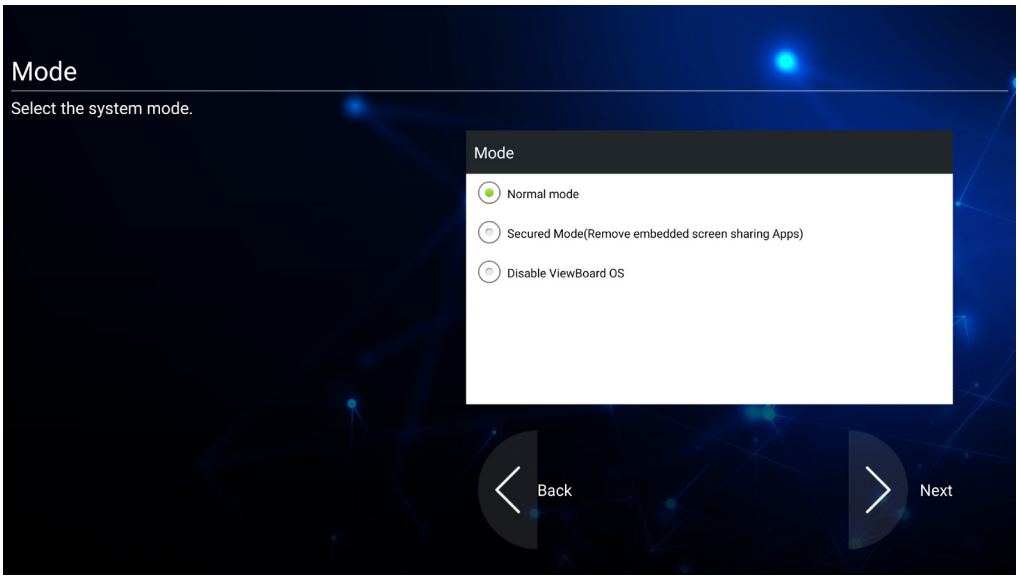
2. Setup and verify your LAN connection:



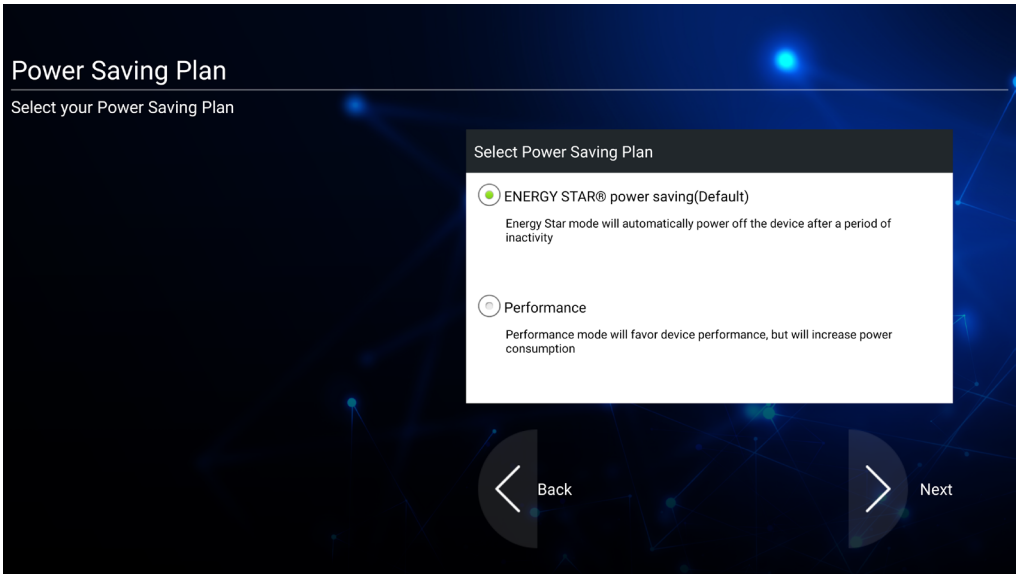
3. Select your Time Zone to set the Date and Time:



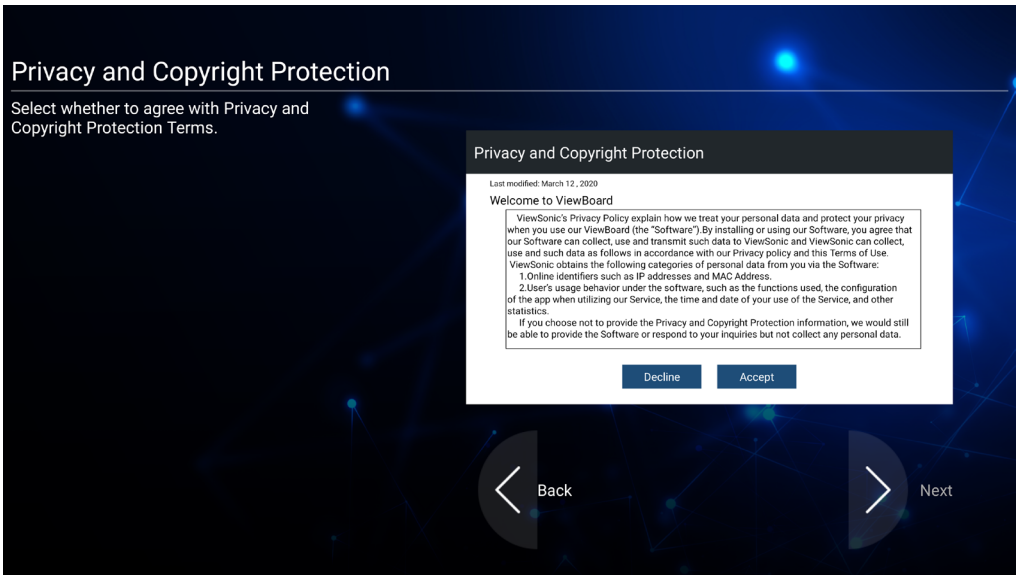
4. Select your preferred System Mode:



5. Select your Power Saving plan:



6. Accept or Decline the Privacy and Copyright Protection Terms.

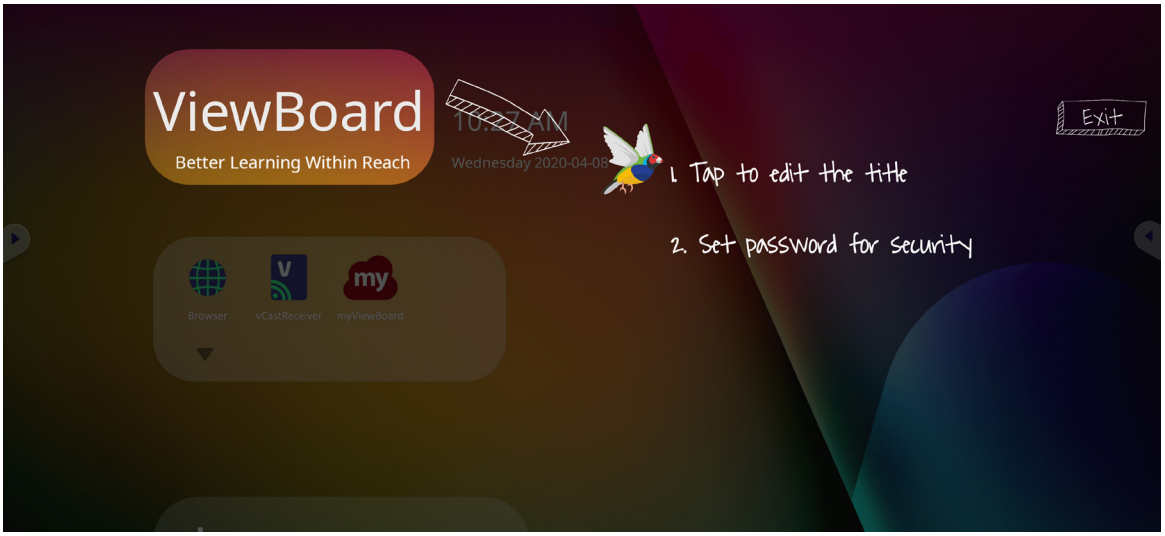


vLauncher - Customizable Welcome Screen

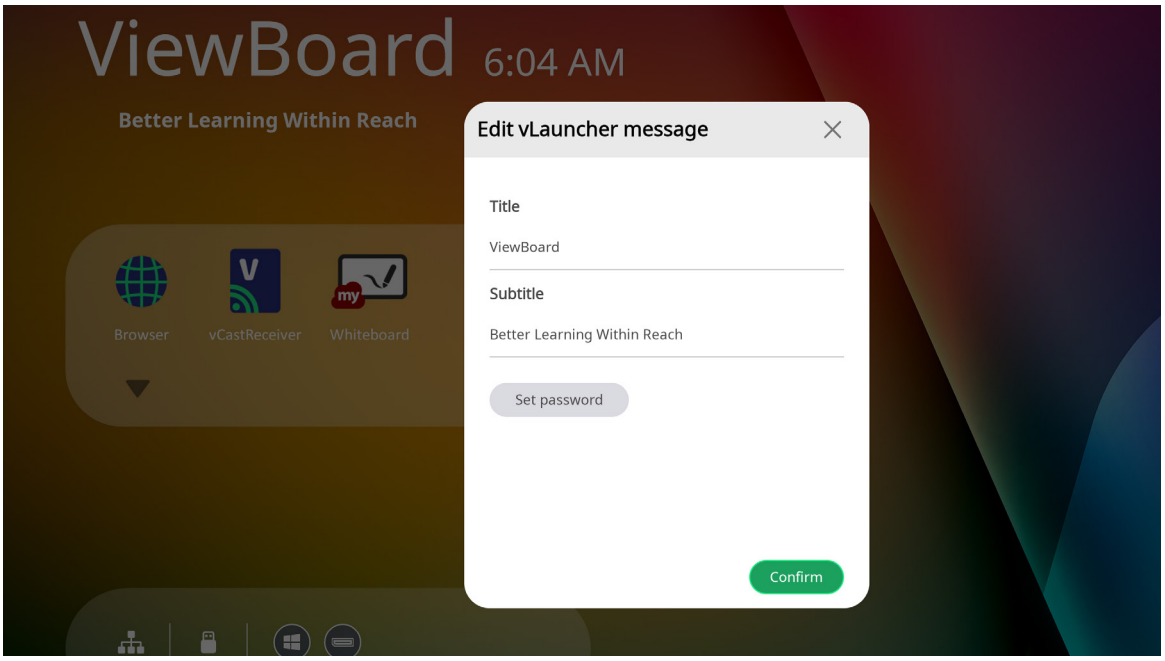


vLauncher Message

Both the vLauncher **Title** and **Subtitle** can be customized by tapping on them.

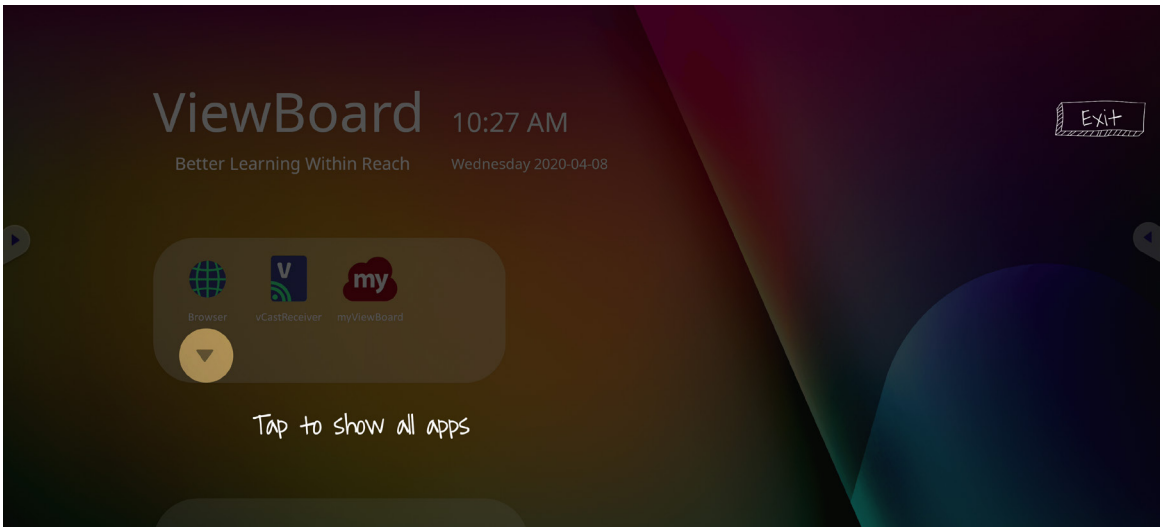


Additionally, a password can be set by tapping on **Set Password**.

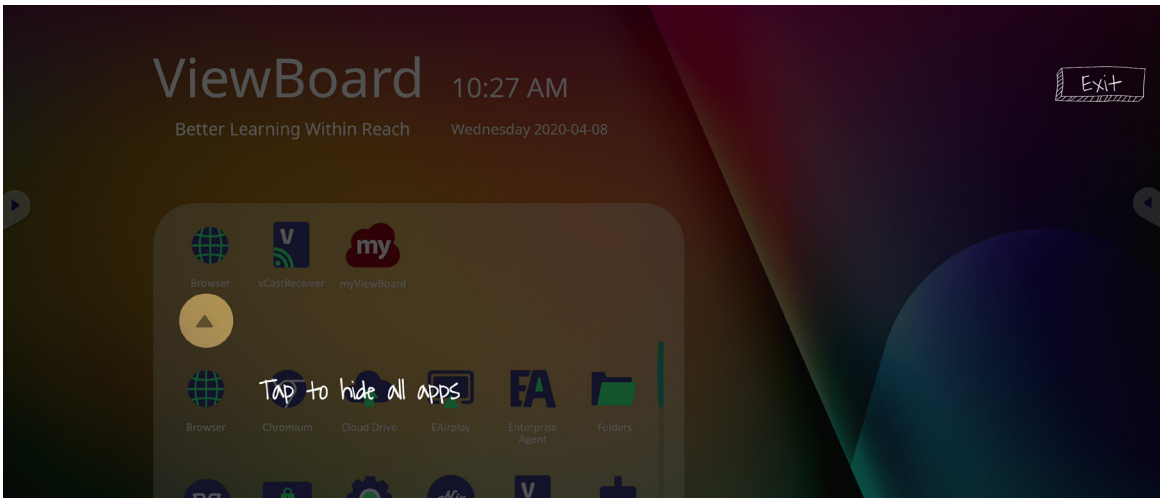


Applications

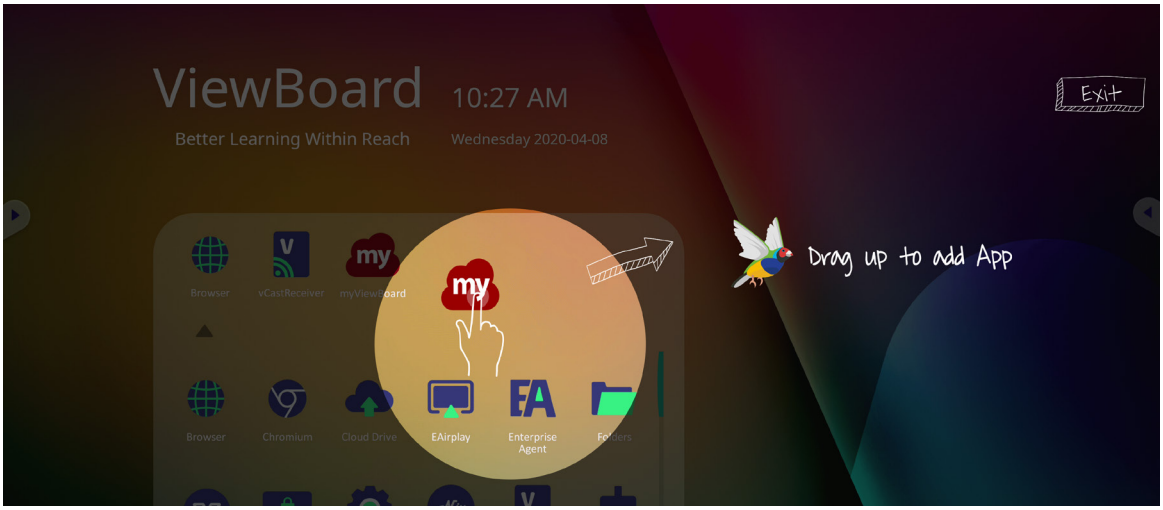
Installed applications can all be found on the welcome screen. To view all applications tap on the **Down Arrow**.



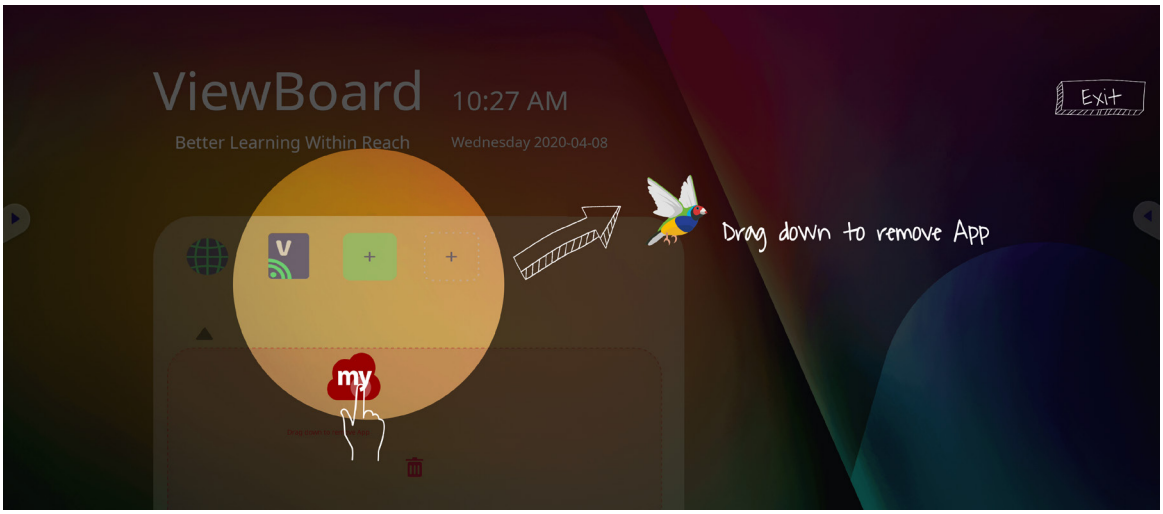
To hide the application drawer tap the **Up Arrow**.



To add a shortcut to an application, tap, hold, and drag up the icon.



To remove an application shortcut, tap, hold, and drag the icon down.



Toolbar

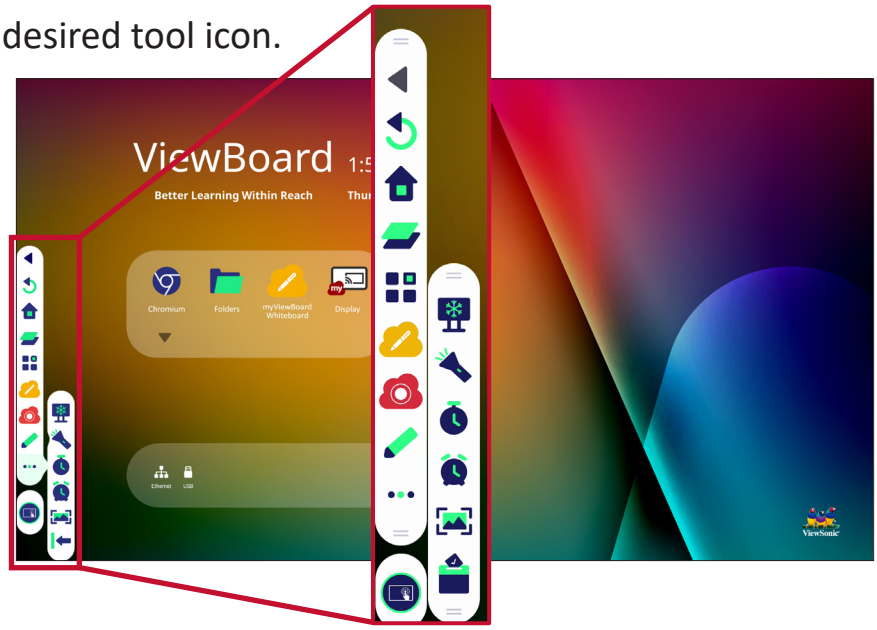
Toolbar trigger icons are on the edge of the ViewBoard launcher providing access to your tools.



To launch a tool:

1. Tap a Toolbar trigger icon.

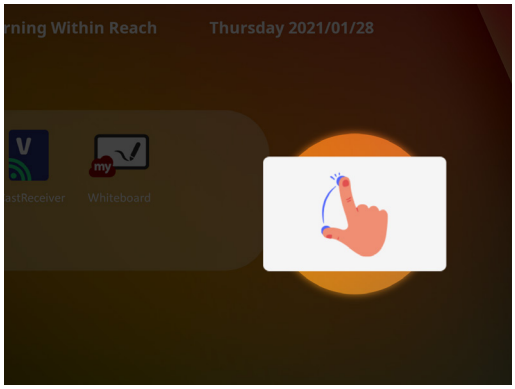
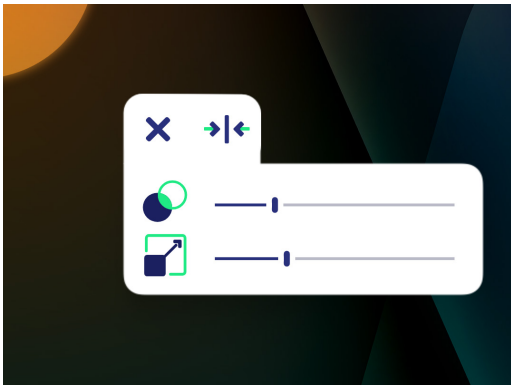
2. Tap on your desired tool icon.

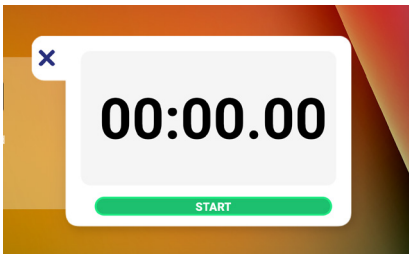
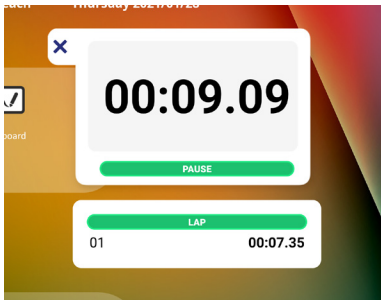
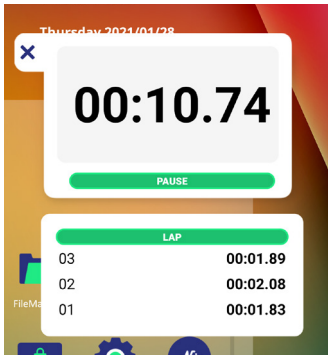
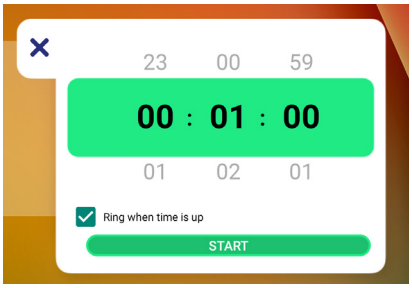
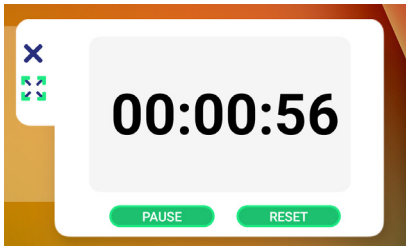
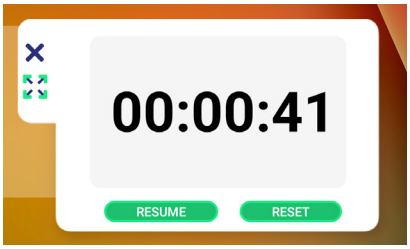


NOTE: The default toolbar setting is to be available for all input sources; however, users can go to: **Settings** > **Preference** > **Toolbar setting** to adjust the options: (1) available for all input sources, (2) hide the toolbar for all input sources.

Icon	Description
 Back	Return to the previous operation screen. **NOTE:** Only for the Embedded Player source.
 Home	Return to the Home Screen of the Embedded Player.
 Recent	Display all embedded applications that are currently being used.
 App	View all installed applications.
 Whiteboard	Launch the Whiteboard software.
 Recorder	Record, view, and save the on-screen content.

Icon	Description
 Draw	Access the pen, highlighter, clear, and save options.  Pen  Highlighter  Eraser  Undo  Redo  Clean  Save  Exit
	<u>Pen</u> Annotate the overlay of any input source with black, white, yellow, orange, red, pink, green, or blue ink. **NOTE:** The default pen setting supports up to 10-point writing.
	<u>Highlighter</u> Mark and highlight with yellow, grey, gold, orange, red, pink, green or blue ink. **NOTE:** The default highlighter setting supports up to 10-point marking.
	<u>Eraser</u> Selectively remove the digital ink on the screen.
	<u>Undo</u> Undo the previous action.
	<u>Redo</u> Redo the previous action.
	<u>Clean</u> Clears all the digital ink on the screen.
	<u>Save</u> Save the screen image and any annotations.
	<u>Exit</u> Close the drawing tool.

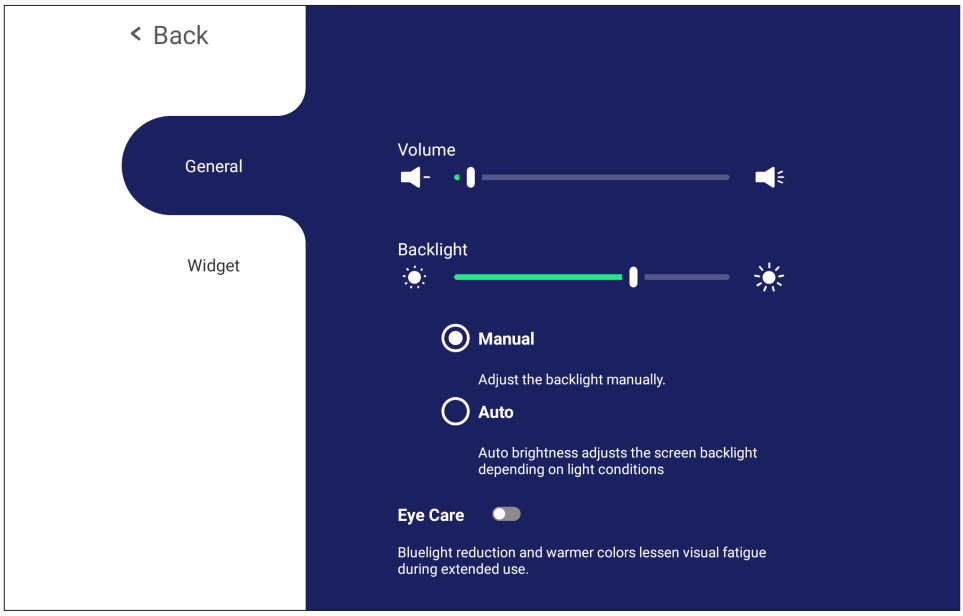
Icon	Description
More	View more applications within the ViewBoard tool bar. Screen Freeze Spotlight Stopwatch Timer Hide/Unhide Screen Capture Air Class Screen Freeze Convert the currently displayed content into a still image; then you can zoom in, zoom out, go back to full screen, and exit. Zoom in Zoom out Fullscreen Exit Spotlight Highlight the focus content zone. Tap the Setting icon to adjust the spotlight size and alpha blending effect.  

Icon	Description
	Stopwatch Tapping **Start** will initiate the stopwatch.  At any time, the stopwatch can be paused, resumed, split, or reset.  
More	Timer Access the countdown timer with an optional alarm setting. Touch and swipe to adjust the numeric values, then click **Start**.  At any time, the countdown timer can be paused, resumed, or reset.   Hide/Unhide Hide or unhide the Tool bar trigger icons.

Icon	Description
More	Screen Capture  Take a screenshot of the current screen. Air Class  Interactive teaching tool for classroom usage.
 Settings	Access the General Settings.

On-Screen Display (OSD) Menu

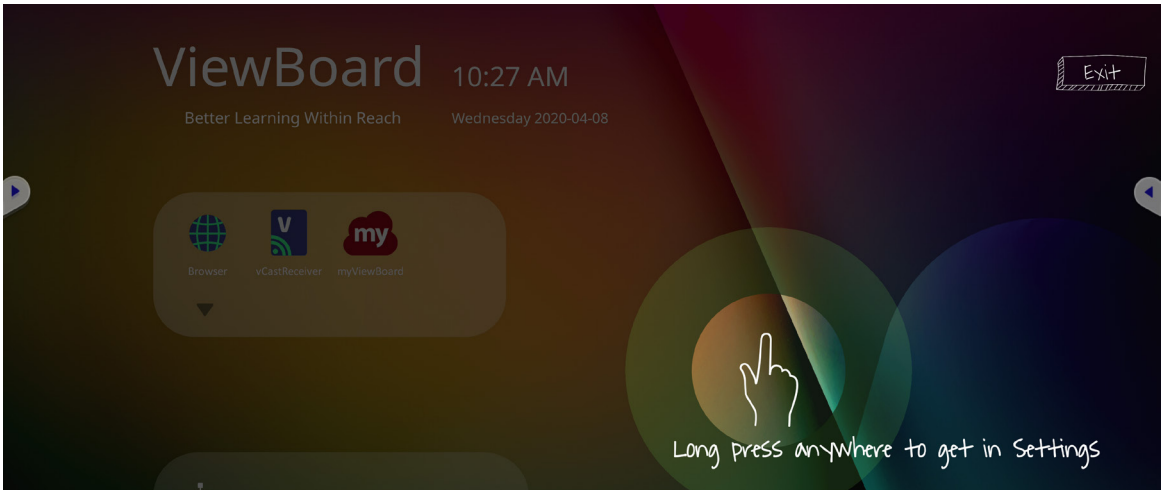
Access General Settings, Input Settings, and Widgets through the OSD Menu.



ViewBoard has two options for opening the OSD Menu:

Option 1

Long press anywhere in the vLauncher background.



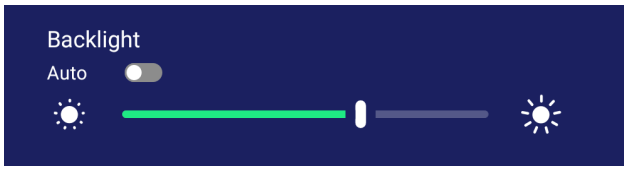
Option 2

Press the **INPUT** button on the remote control.



General Settings

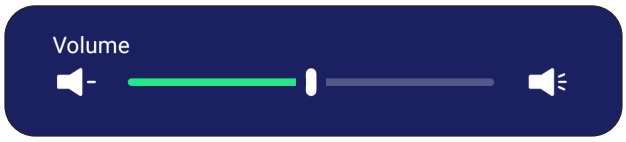






To adjust the Backlight and enable/disable Eye Care:

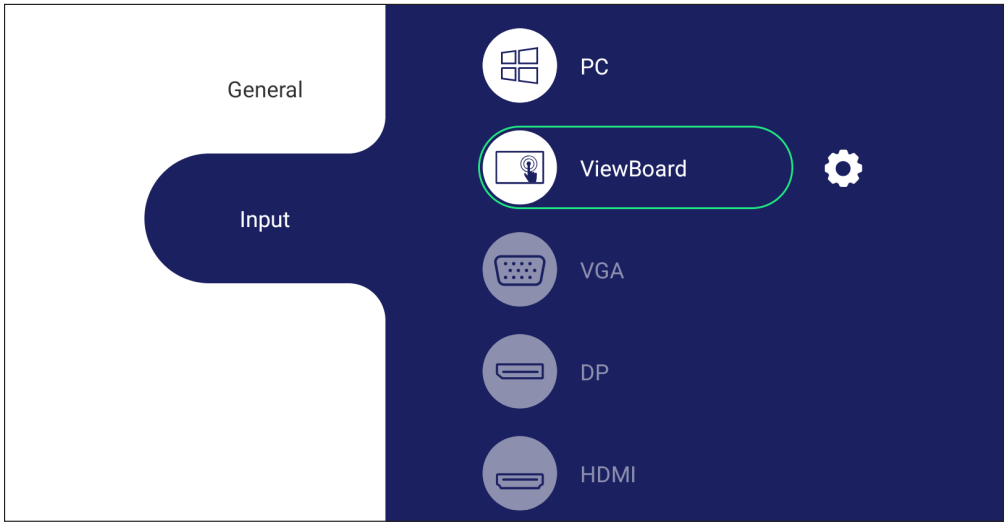
1. Press **INPUT** on the remote control or long press the vLauncher background and touch **General** on-screen (if needed) to display the **General Settings** menu.
2. Drag the brightness slider directly to adjust the backlight value, and/or touch On or Off to enable/disable the function.
3. Press ⮌ on the remote control, or touch a blank area outside of the menu to exit.



To adjust the Volume:

1. Press **INPUT** on the remote control or long press the vLauncher background and touch **General** on-screen (if needed) to display the **General Settings** menu.
2. Drag the volume slider directly to adjust the value.
3. Press 🔇 on the remote control to enable or disable the mute function.
4. Press ⮌ on the remote control, or touch a blank area outside of the menu to exit.

Input Settings

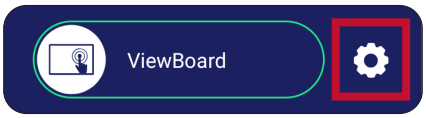


To select an Input Source:

1. Press **INPUT** on the remote control, press the setting button on the front panel, or press the setting icon from the toolbar to display the **Input Settings** menu.
2. Press ▼/▲/◀/▶ to select the input source you want.

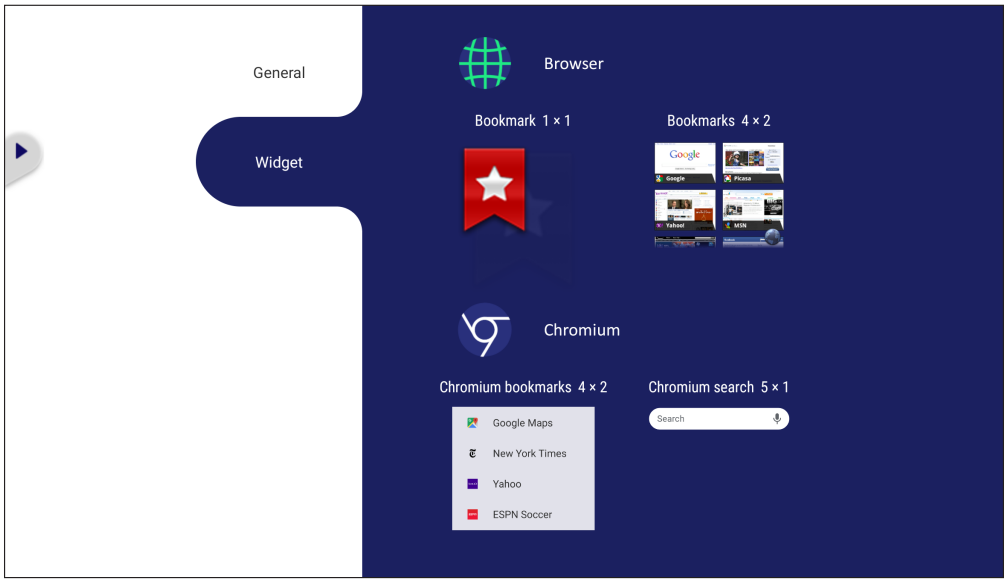
   NOTE: PC source will only display when the slot-in computer is connected.
3. Press OK on the remote control, or touch the input source.
4. Press on the remote control, or touch a blank area outside of the menu to exit.

   NOTE: To adjust the settings of an input source, touch the setting icon next to the highlighted input source.



Widget

NOTE: Only available for the ViewBoard Player source.



To add a widget to the vLauncher welcome screen:

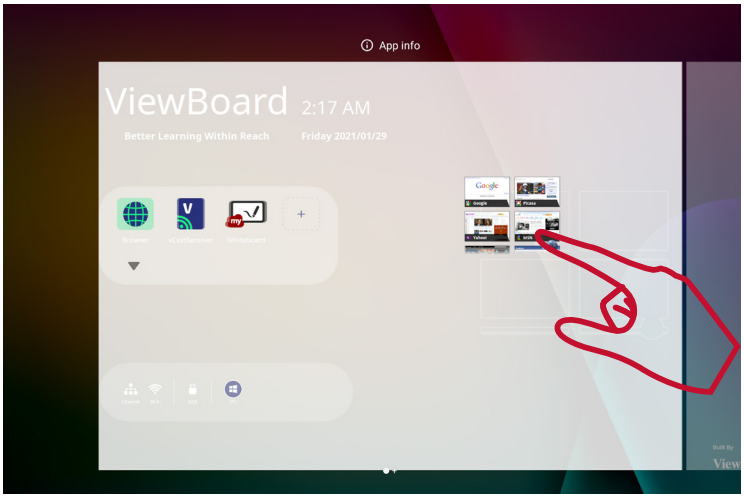
1. Long press the vLancher background via touch to launch the OSD Menu.



2. Select **Widget**.

3. Touch and hold the desired widget.

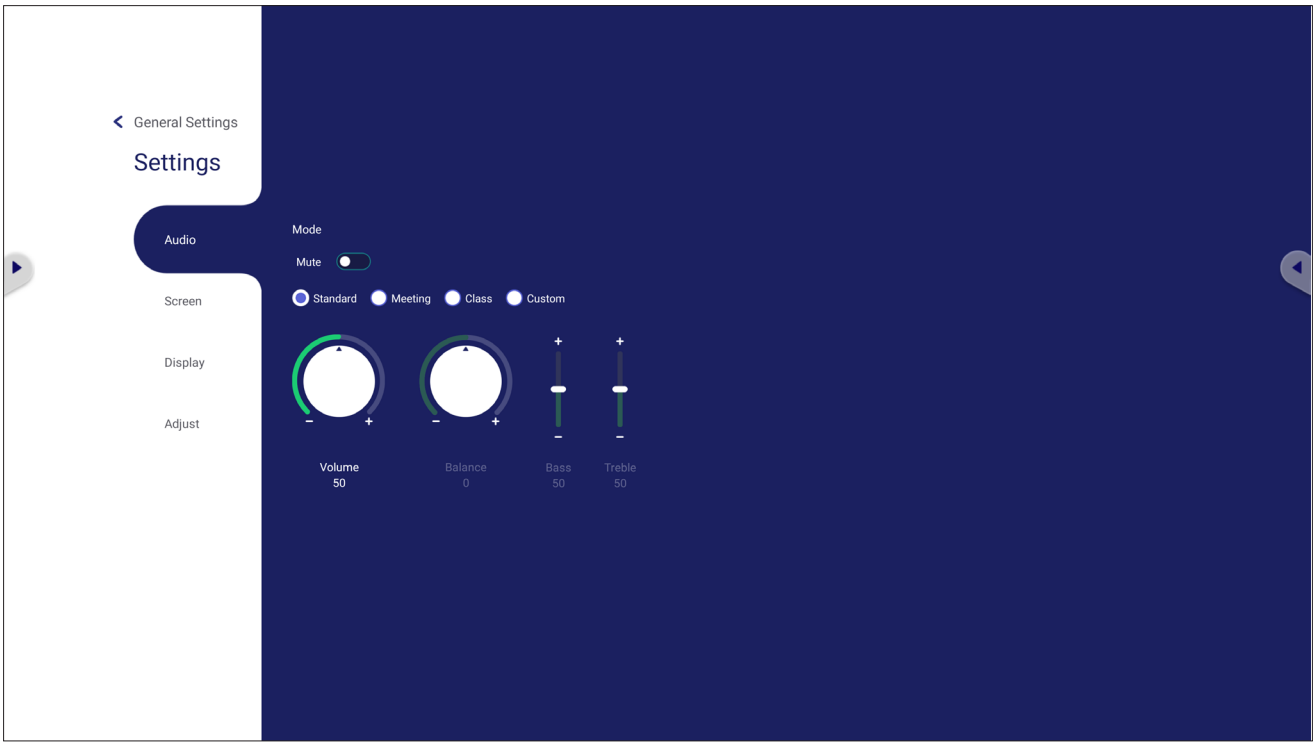
4. Drag the widget onto the vLauncher background.



Settings - HDMI & VGA Input Source

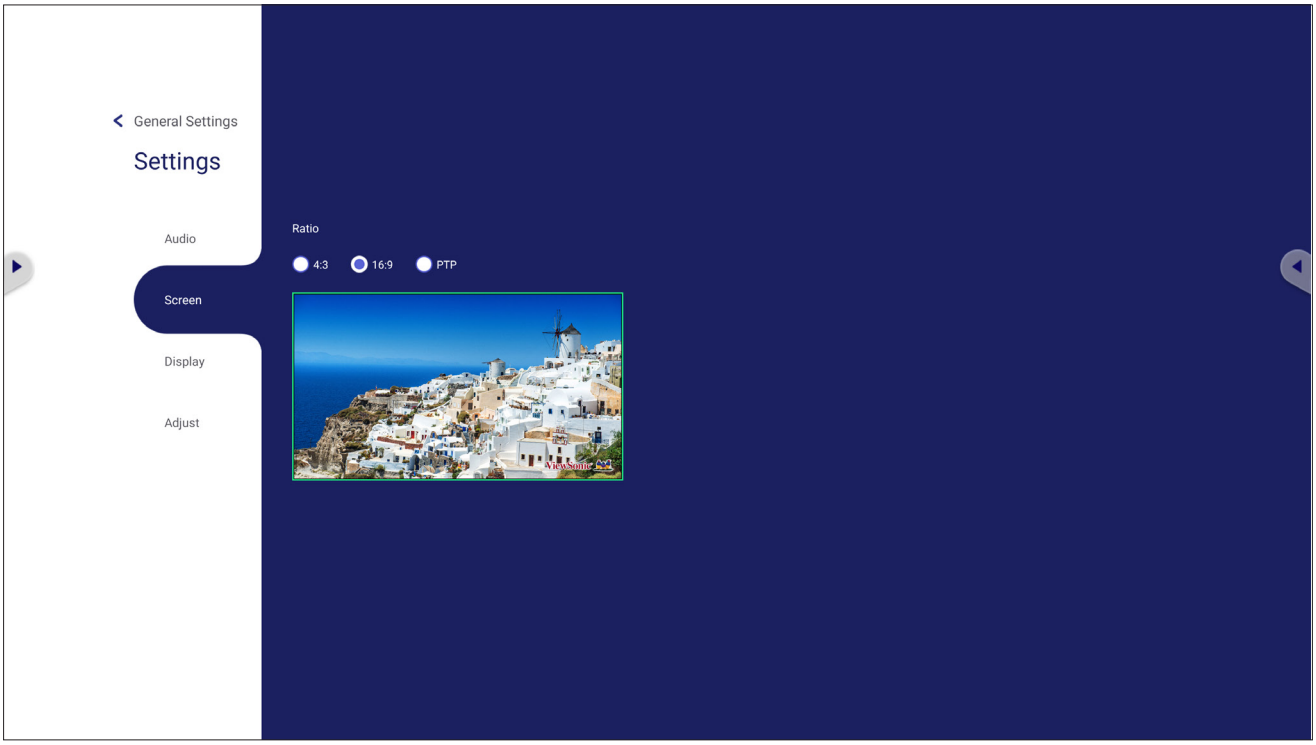
Press **MENU** on the remote control or select the setting icon next to the input source in **Input Settings** to launch the **Settings** menu. Settings include: **Audio**, **Screen**, **Display**, and **Adjust**.

Audio Settings



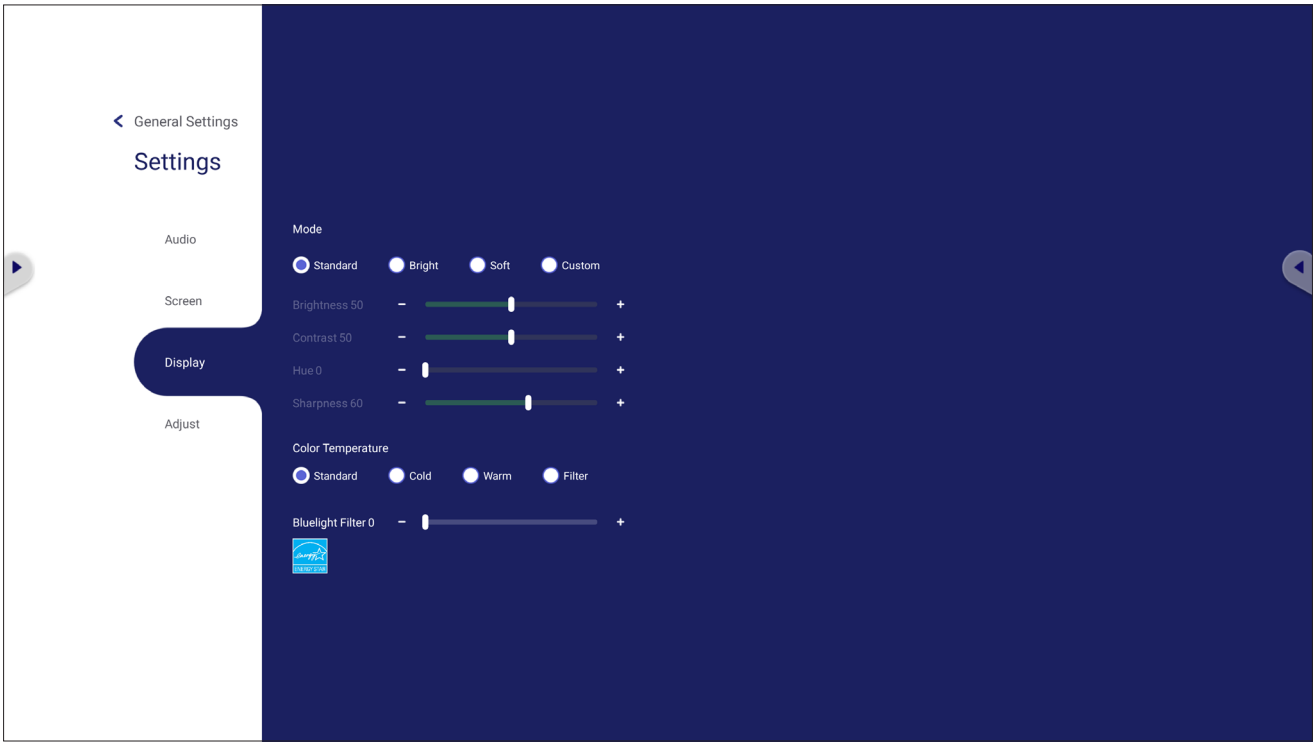
1. Press ▼ on the remote control and select the **Audio** menu.
2. Press ▼/▲/◀/▶ on the remote control or directly touch the option to select it.
3. Adjust the Volume, Bass, Treble, and Balance directly by touching and adjusting each value, or with the remote control by pressing (OK) to adjust the option.
4. Touch the Mute slider directly to enable/disable mute, or press 🔇 on the remote control.
5. Press ⮌ on the remote control, or touch a blank area outside of the menu to exit.

Screen Settings



1. Press ▼ on the remote control and select the **Screen** menu.
2. Press ▼/▲/◀/▶ on the remote control or directly touch the option to select it.
3. Adjust your preference by touching each value directly, or with the remote control by pressing (OK).
4. Press ⮌ on the remote control, or touch a blank area outside of the menu to exit.

Display Settings



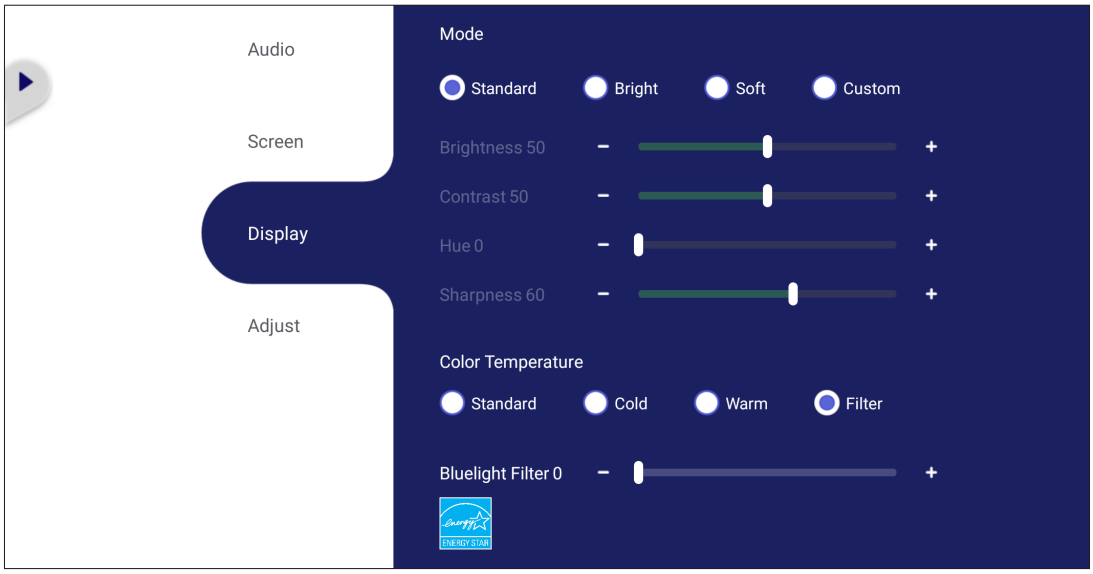
1. Press ▼ on the remote control and select the **Display** menu.
2. Press ▼/▲/◀/▶ on the remote control or directly touch the option to select it.
3. Adjust the Brightness, Contrast, Hue, and Sharpness directly by touching and adjusting each value, or with the remote control by pressing (OK) to adjust the option.
4. Drag the blue light slider directly to adjust the blue light value.



5. Press ⮌ on the remote control, or touch a blank area outside of the menu to exit.

Low Blue Light Filter and Eye Health

The Blue Light Filter blocks high-energy blue light for a more comfortable viewing experience.



NOTE: To meet TÜV Rheinland low blue light certification, the Display Settings must be:

- Mode: Standard (Brightness and Contrast are 50)
- Color Temperature: Filter
- Blue light Filter: 0

Calculating Breaks

When viewing screens for extended periods, it is recommended to take periodic breaks from viewing. Short breaks of at least 10 minutes are recommended after one (1) hour of continuous viewing.

Taking shorter, more frequent breaks are generally more beneficial than longer, less frequent breaks.

Focus Fatigue (20-20-20 Rule)

To reduce the risk of eye fatigue by constantly looking at the screen, look away from the screen at least every 20 minutes and gaze at a distant object (at least 20 feet away) for at least 20 seconds.

Looking at Distant Objects

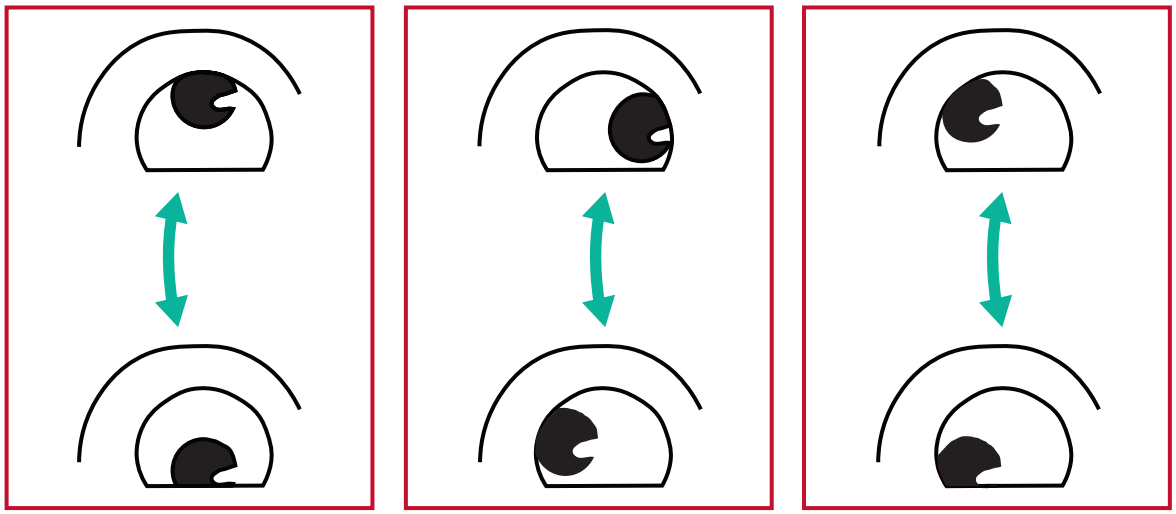
While taking breaks, users can further reduce eye strain and dryness by focusing on objects that are further away from them for 10-15 seconds, then gaze at something up close for 10-15 seconds. Repeat this up to 10 times. This exercise reduces the risk of your eyes' focusing ability to "lock up" after prolonged computer work.

Eye and Neck Exercises

Eye Exercises

Eye exercises can help minimize eye strain. Slowly roll your eyes to the left, right, up, and down. Repeat as many times as needed.

Exercises for the eyes



(1) Keep the body and the head upright. Move the eyes up to look at the ceiling, then turn down to look at the floor.

(2) Move the eyes left and right slowly to look at objects on the two sides.

(3) Move the eyes to look at objects at the right upper direction and then right lower direction. Repeat for the left upper and left lower directions.

Neck Exercises

Neck exercises can also help minimize eye strain. Relax your arms and let them hang at your sides, bend forward slightly to stretch the neck, turn your head to the right and to the left. Repeat as many times as needed.

Adjust Settings - (VGA Only)



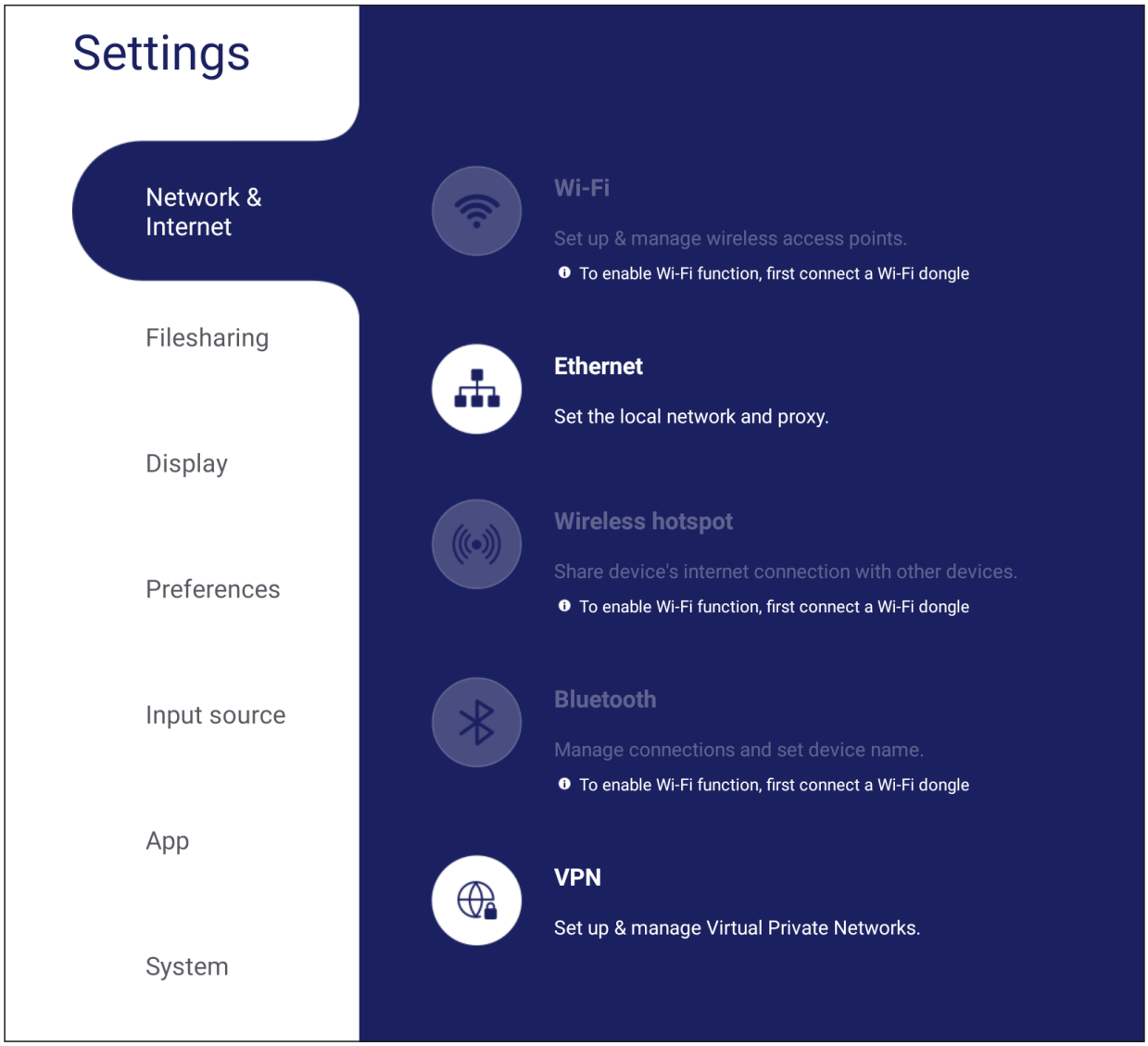
1. Press ▼ on the remote control and select the **Adjust** menu.
2. Press ▼/▲/◀/▶ on the remote control or directly touch the option to select it.
3. Adjust your preference by touching each value directly, or with the remote control by pressing (OK).
4. Press ⮌ on the remote control, or touch a blank area outside of the menu to exit.

Settings - ViewBoard Input Source

The ViewBoard input source is the default source that is active when turning on the ViewBoard. Press **MENU** ( ) on the remote control or tap the setting icon ( ) next to the input source in the On-Screen Display (OSD) Menu's Input Settings to enter the **Settings** menu.

Network & Internet

Check current network connection status, set up and manage Wi-Fi, Ethernet, Bluetooth, and VPN, and establish a Wireless hotspot.



NOTE:

- Wi-Fi, Hotspot, and Bluetooth settings will appear when an optional Wi-Fi card (e.g., VB-WIFI-001) has been installed in the Wi-Fi Slot.
- Ethernet will disable automatically when Wi-Fi is enabled. Wi-Fi will disable automatically when Ethernet is enabled. Wi-Fi will disable when Hotspot is enabled.
- Miracast will disable when Wireless Hotspot is enabled. Wireless Hotspot will disable when Miracast hotspot is enabled.

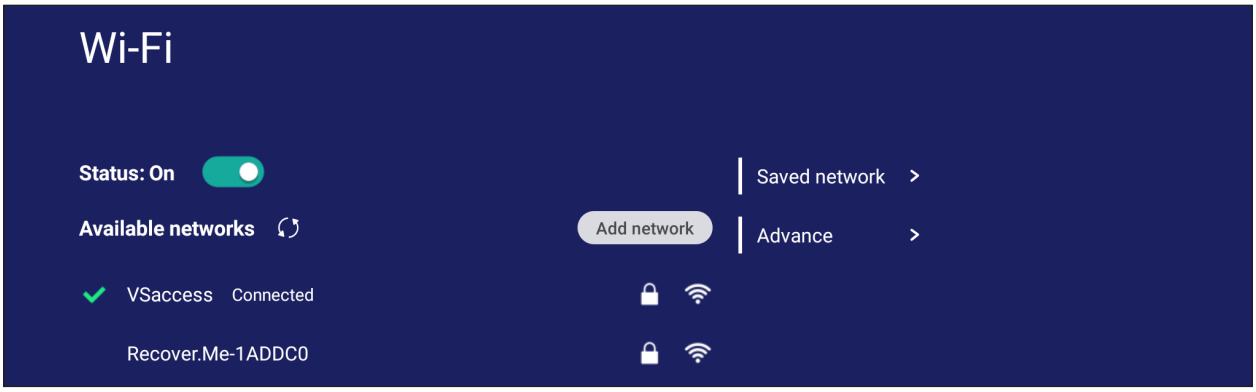
Wi-Fi

Setup and manage wireless access points.

- Tap the toggle button to turn Wi-Fi **On** or **Off**.



- Once **On**, you can: **Add a Network**, view **Saved Networks**, **Refresh** the network list, or view **Advanced** settings.



- In **Advanced** settings, you can toggle **Network notifications On** or **Off** and view **Network card info**.



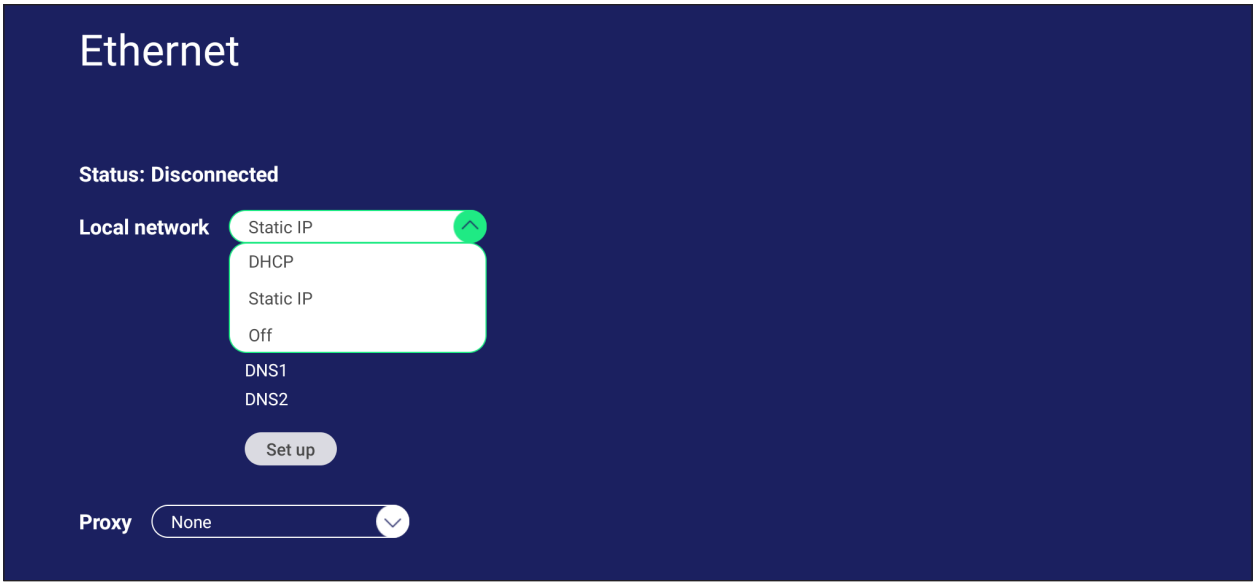
Ethernet

Set the local network and proxy.

- Tap the drop down menu to connect/disconnect the Ethernet.



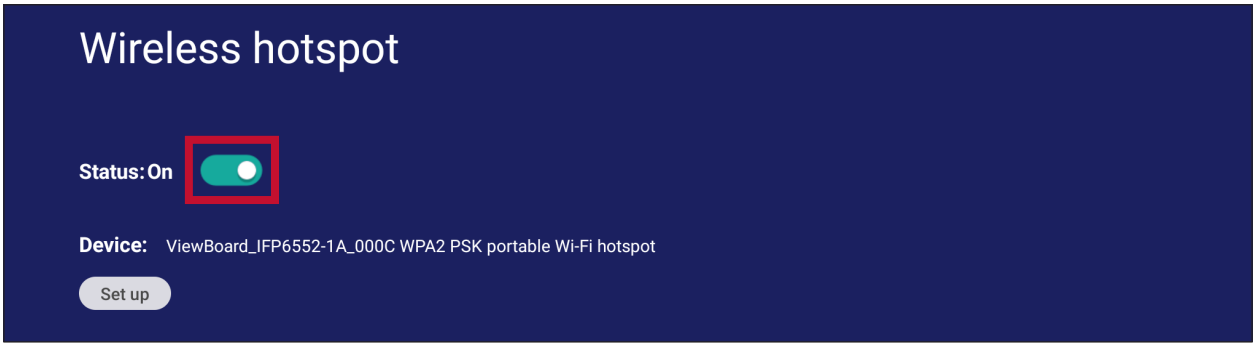
- You can adjust **Local network** and **Proxy** settings as well.



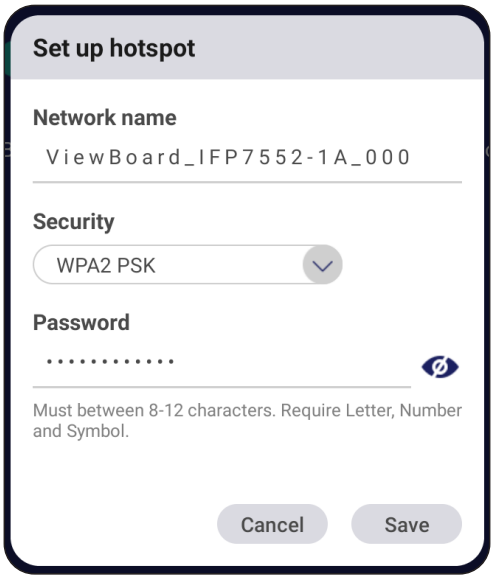
Wireless Hotspot

Set and share my internet connection with other devices.

- Tap the toggle button to turn **Wireless hotspot On** or **Off**.

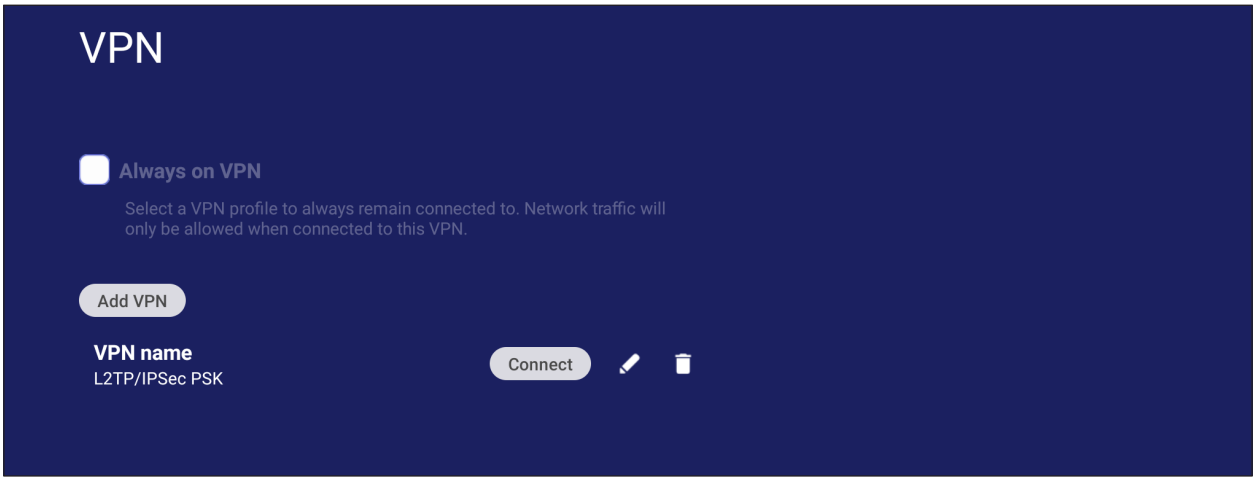


- Tap **Set up** to set the **Network name**, **Security**, and **Password**.



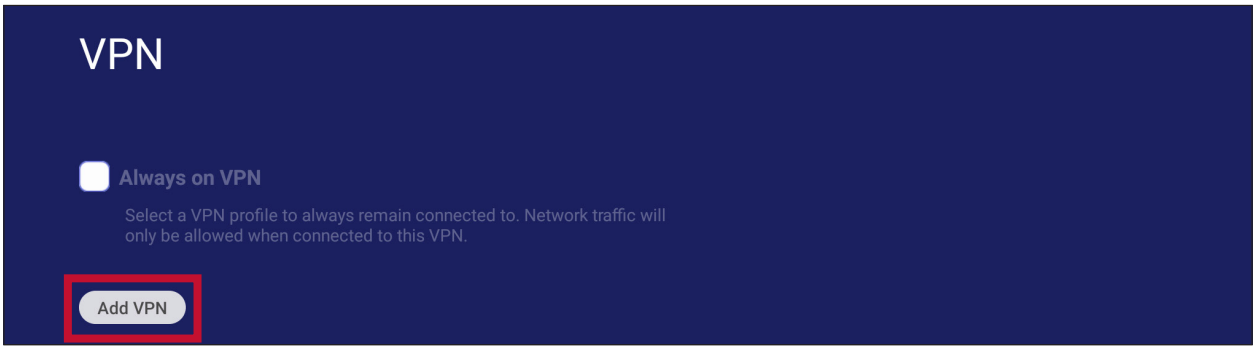
VPN

Setup and manage Virtual Private Networks.

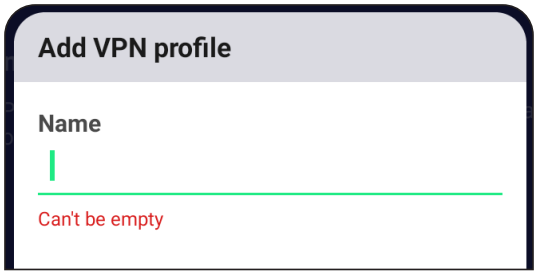


To create a VPN profile:

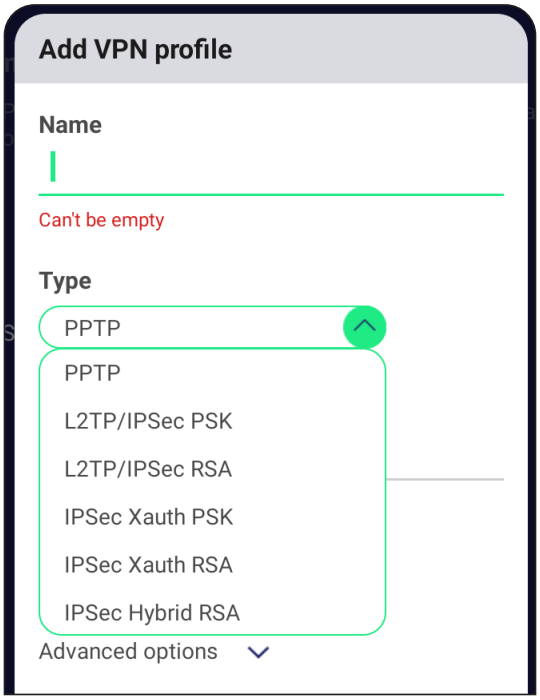
1. Go to: **Settings** > **Network & Internet** > **VPN** and tap **Add VPN**.



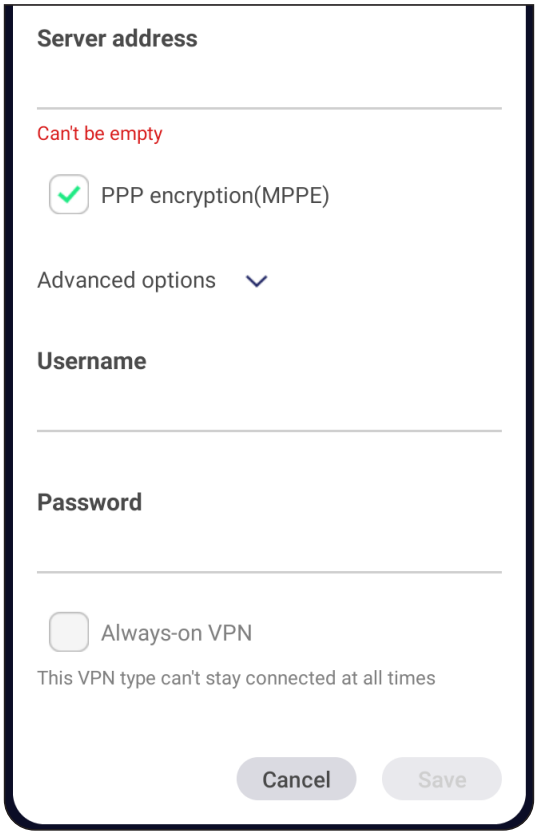
2. Key in the **Name**.



3. Select the VPN **Type**.



4. Choose to enable/disable **PPP encryption (MPPE)** and/or show **Advanced options**.

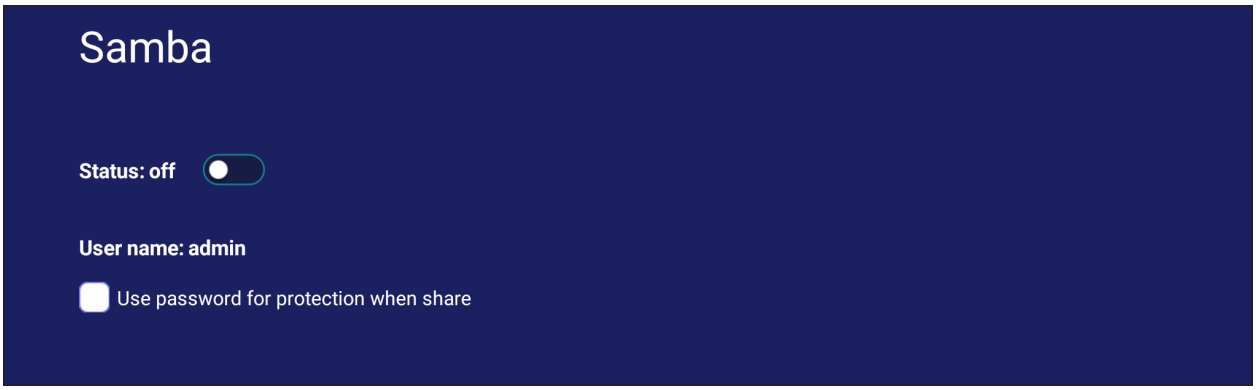


File Sharing

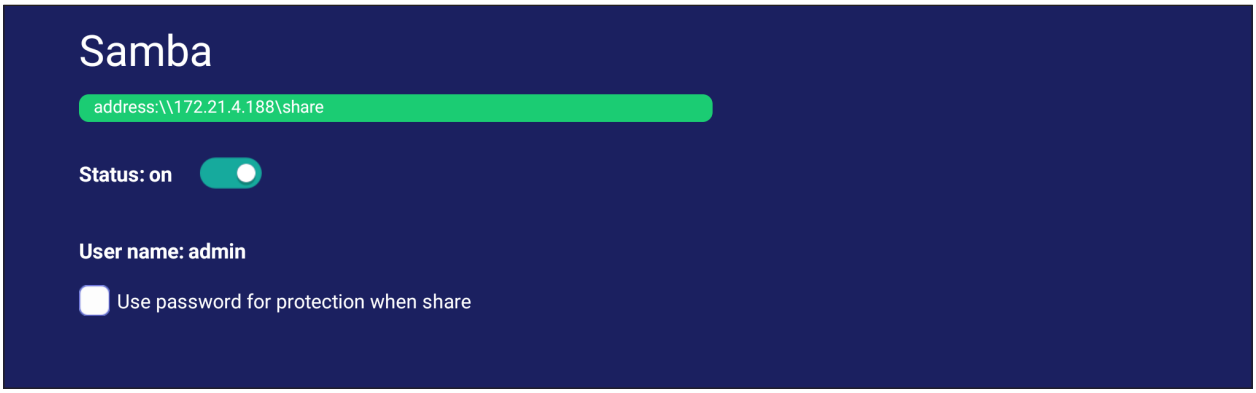
SAMBA

The SAMBA Service provides file sharing via LAN. When the SAMBA Service is enabled, the user can explore the ViewBoard file system with a PC or mobile equipment.

1. To access, go to: **Settings** > **File Sharing** > **SAMBA**.



2. Tap the toggle button to enable the SAMBA Service, then set a password if needed.

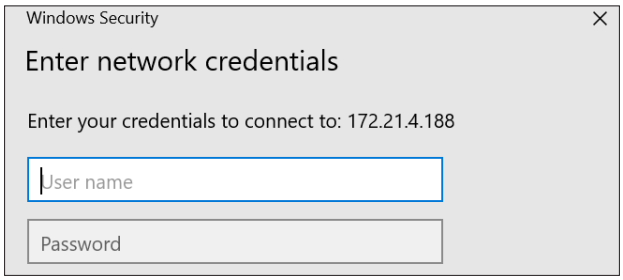


3. Ensure the ViewBoard and client equipment are connected to the same network.

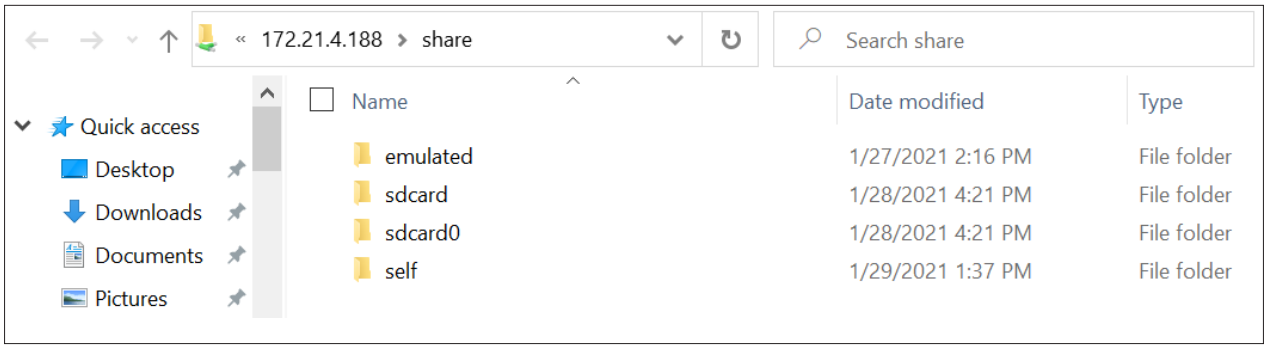
4. Log in to the ViewBoard with the client equipment. Input the ViewBoard's IP address.



5. Key in the user name and password, then select **OK** (if necessary).

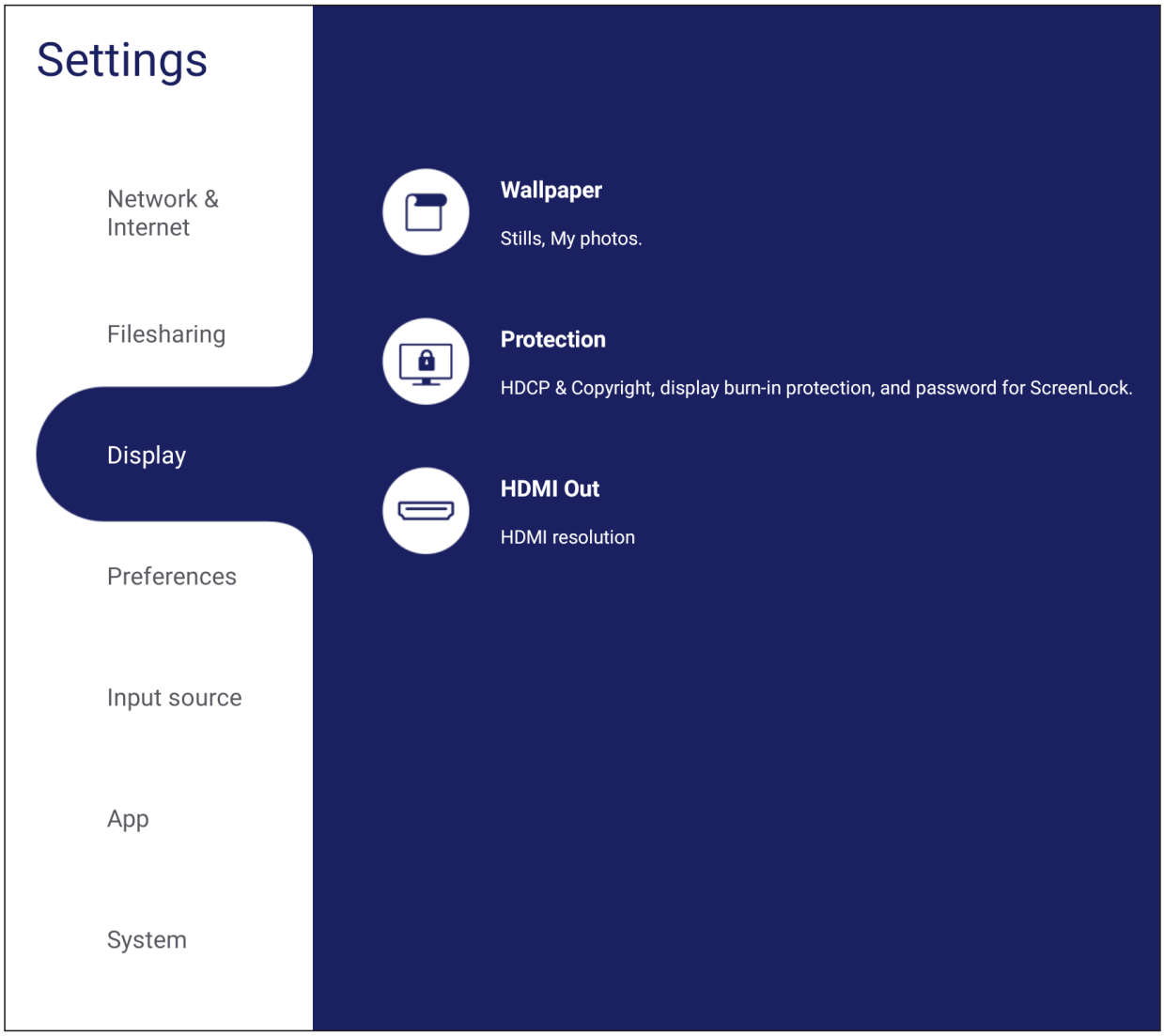


6. After a successful log in, the ViewBoard files will be available.



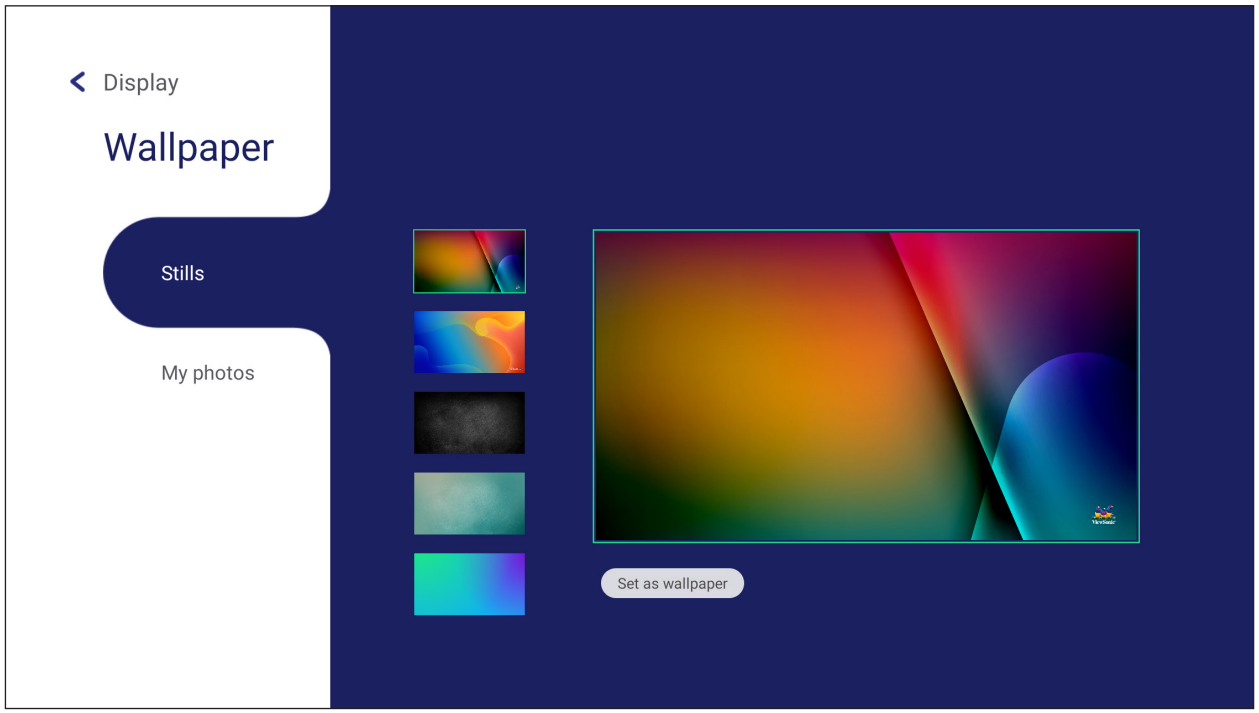
Display

Adjust the Wallpaper, Theme, Protection, and HDMI Out settings.



Wallpaper

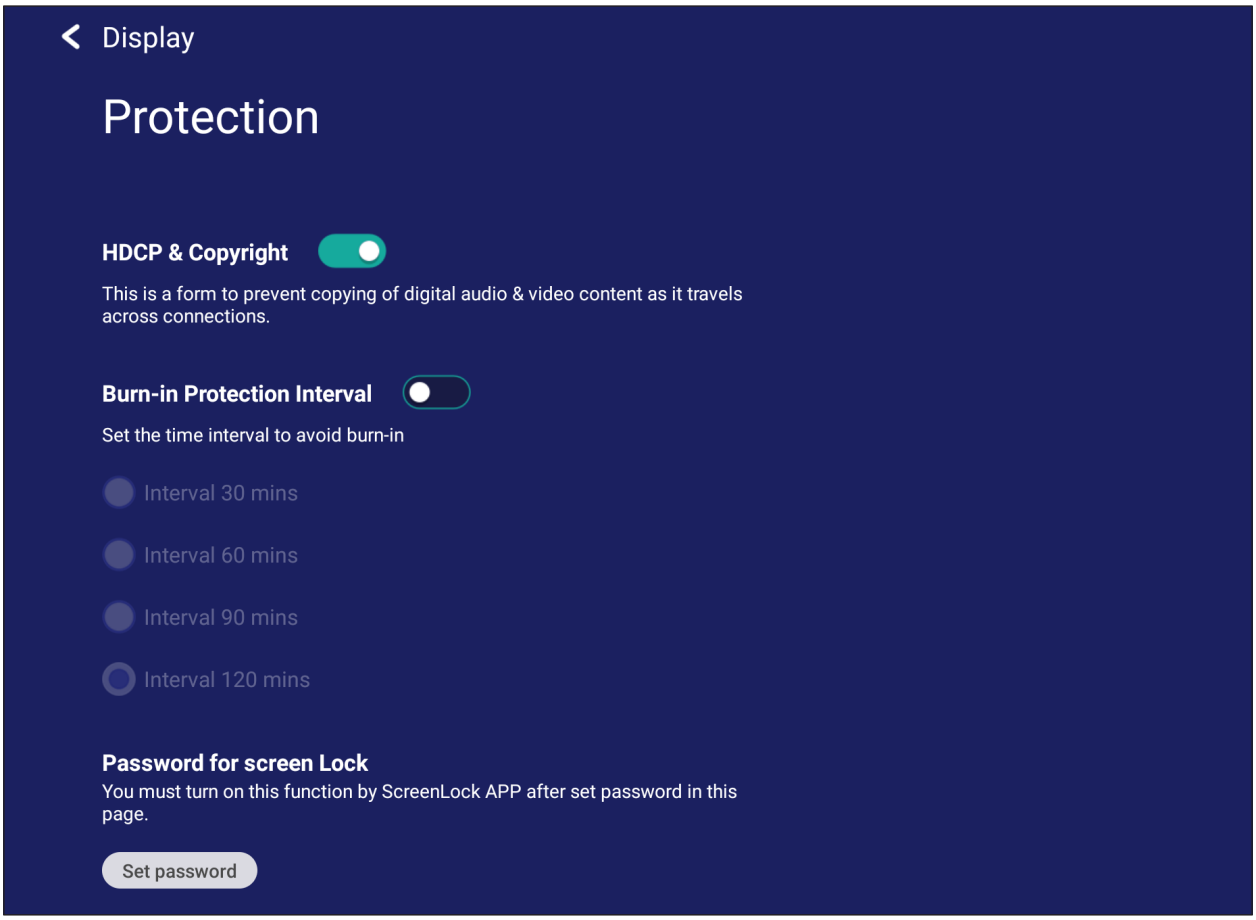
Users can change their wallpaper with default images (both still and live), or use their own by tapping **My Photos** and selecting the image file.



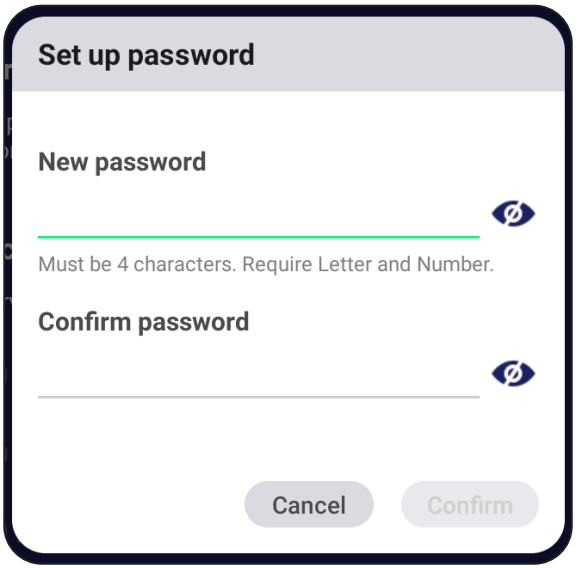
Protection

Toggle **HDCP & Copyright** and **Burn-in Protection Inverval** On/Off, and set a **Password for Screen Lock**.

NOTE: Burn-in Protection allows the user to program the time between a gradually darker and brighter picture in minutes to prevent screen burn-in.



- To set up a password for screen lock, tap **Set Password** and enter the desired password.

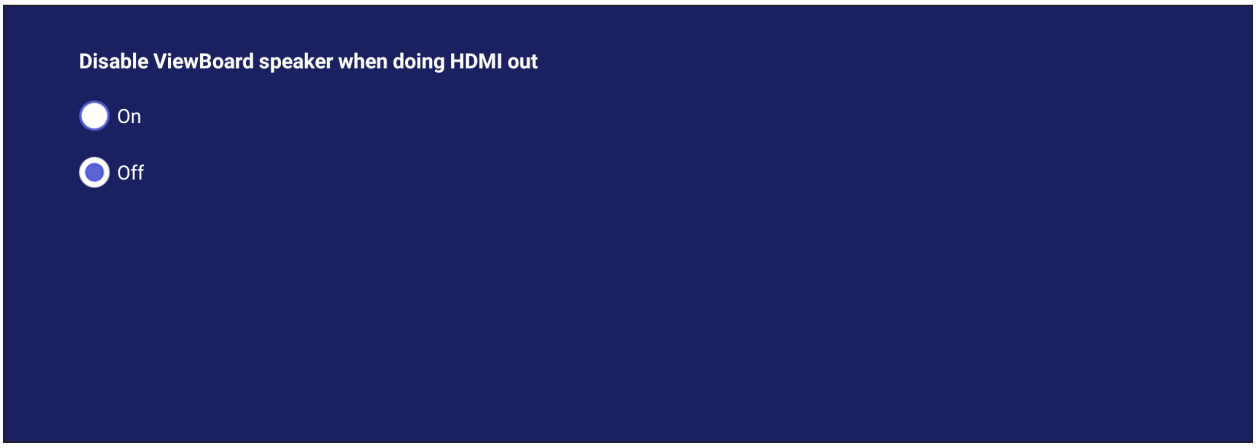


HDMI Out

Adjust the HDMI Out Resolution setting.



Disable/enable the display speaker when connected via HDMI Out.



Item	Description
On	The ViewBoard speaker will be muted and send 100% volume via HDMI Out.
Off	The volume percentage via HDMI Out will be the same as the ViewBoard speaker.

Preference

View and adjust **Touch**, **Language**, **Keyboard & Input**, **Date & Time**, **Boot Mode & Advanced**, **Start up & Shut down**, and **Toolbar** settings.



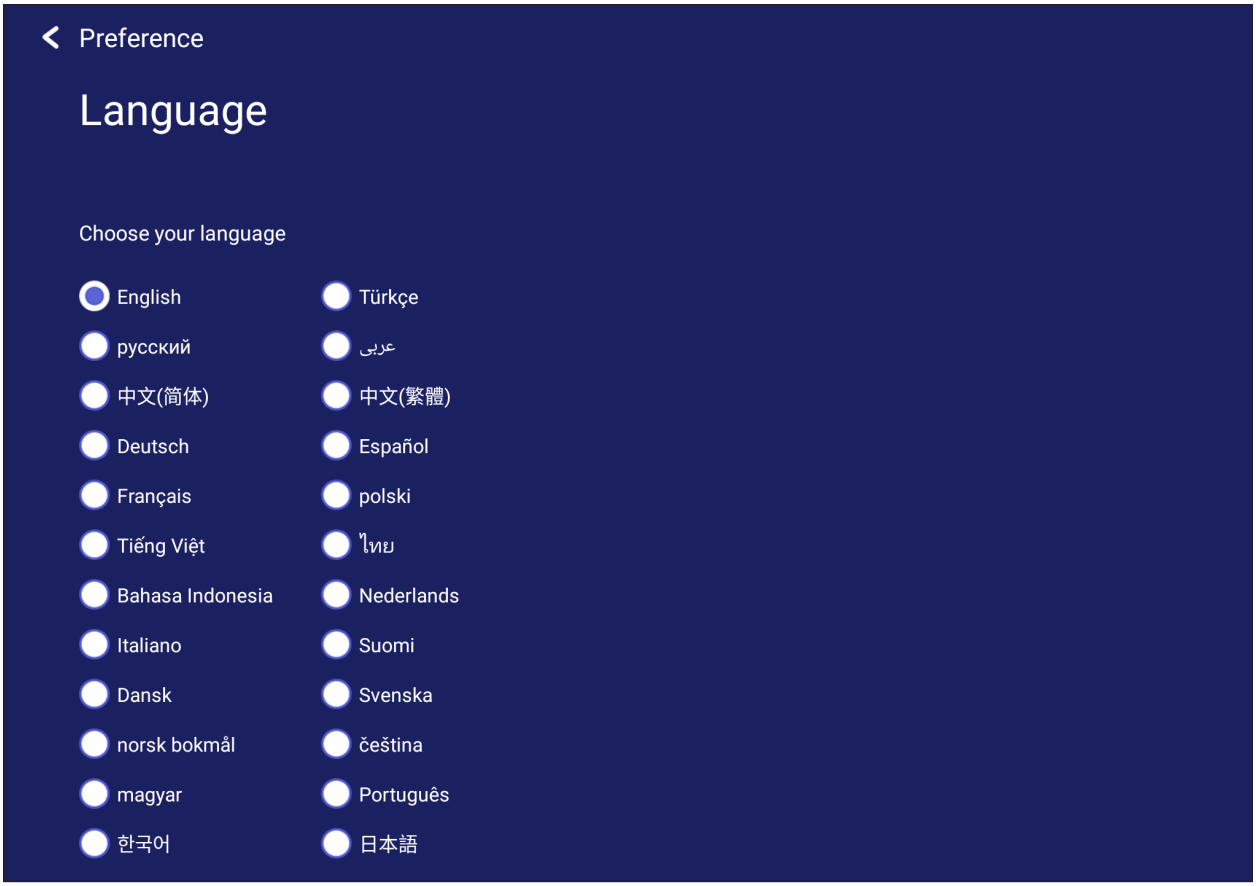
Touch

Adjust **Touch Settings** and toggle **Touch Sounds** On/Off.



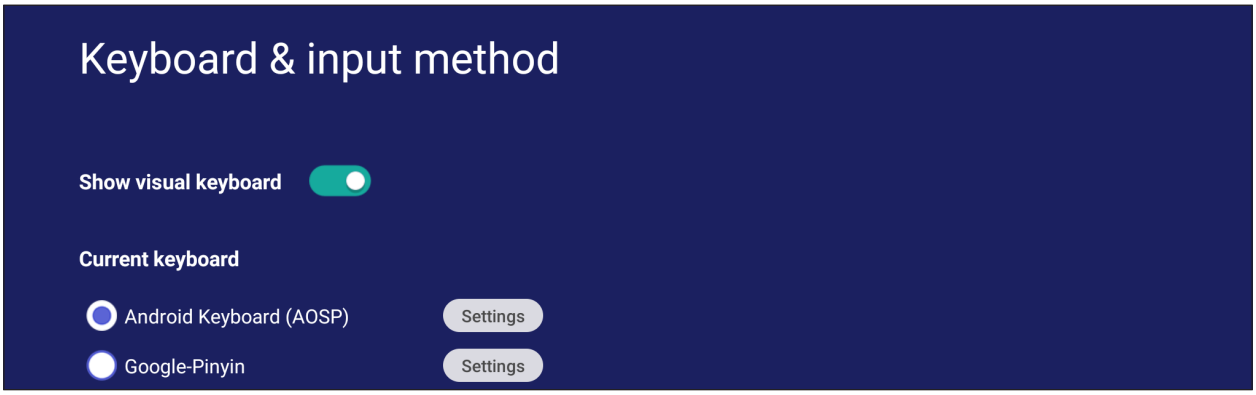
Language

Adjust and choose the preferred language from the available languages.

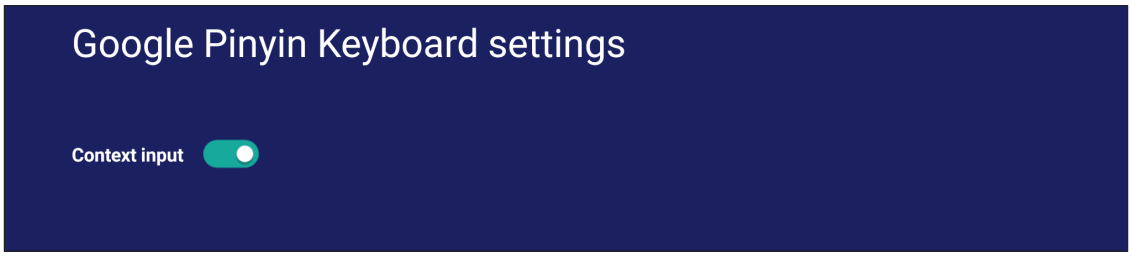


Keyboard & Input Method

Enable/disable the visual keyboard and/or change the default input method.



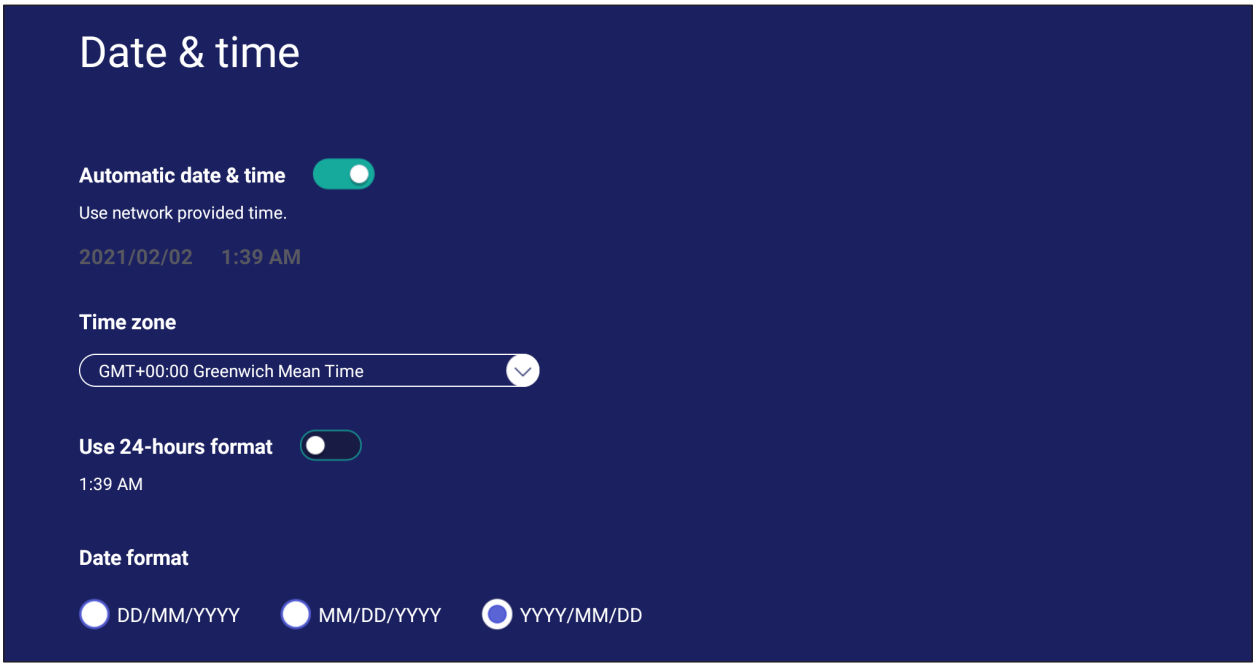
- Tap on **Settings** to adjust the advanced keyboard settings.





Date & Time

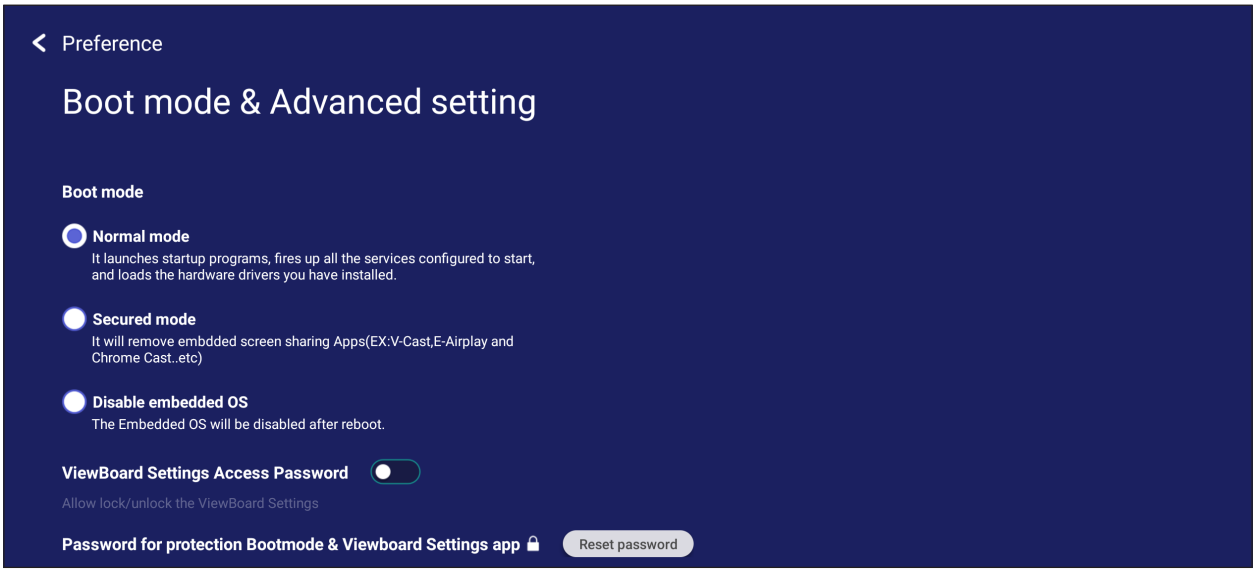
Set the system time and format.



Item	Description
Automatic Date & Time	When enabled, the ViewBoard will automatically synchronize the date and time via the Internet.
Time Zone	Select the appropriate time zone.
Time Format	Choose from 12-hour or 24-hour time format. Simply toggle 24-hour format On/Off.
Date Format	Select from the available date formats.

Boot Mode

Adjust the preferred boot up mode and set/reset a password.

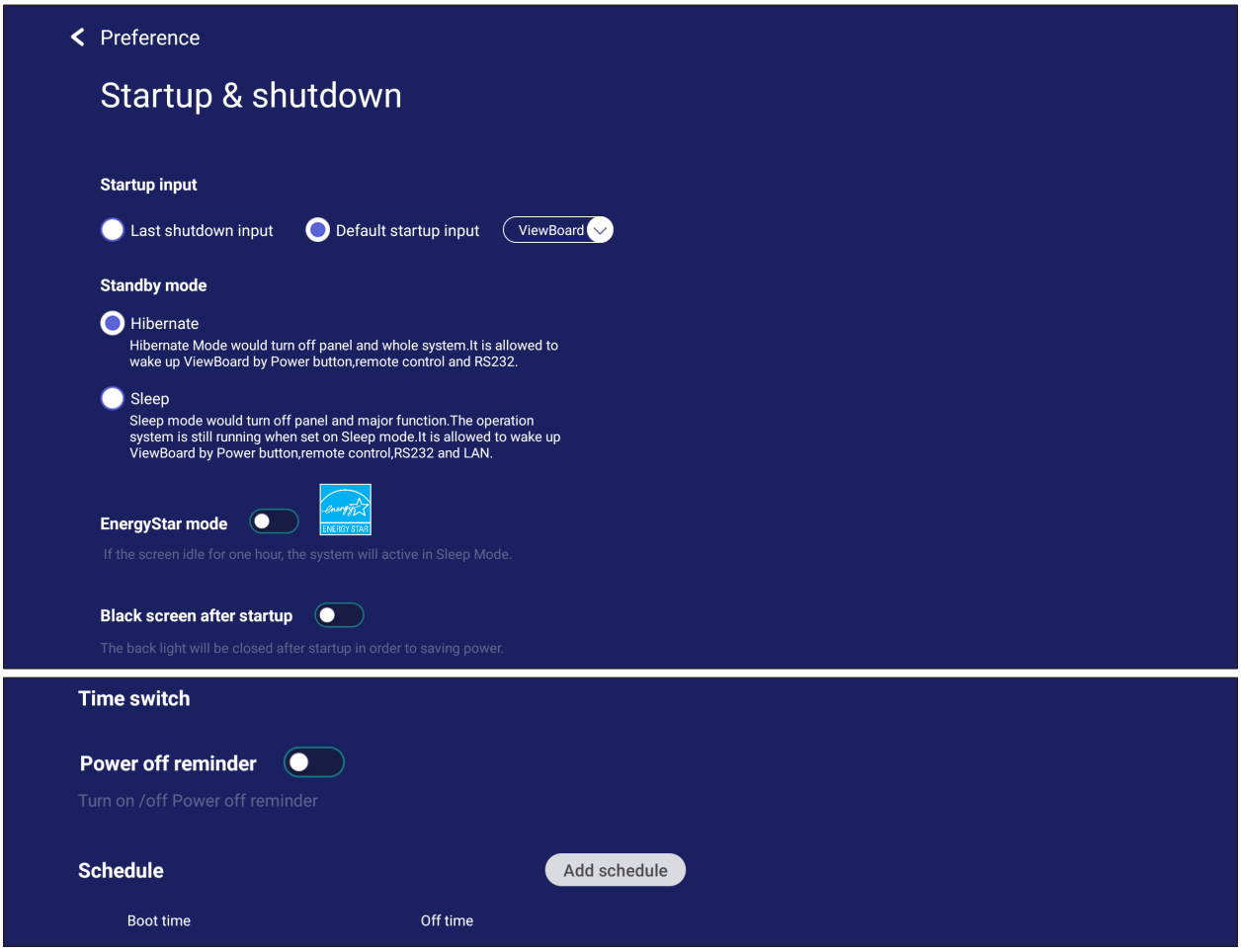




Item	Description
Normal Mode	The embedded screen sharing Apps will run normally.
Secured Mode	The embedded screen sharing Apps will be removed.
Disable Embedded OS	The system will automatically reboot, and then the Embedded OS will not appear.
ViewBoard Settings Access Password	Toggle to lock/unlock the ViewBoard Settings.
Password for Protection	Modify the Boot mode and ViewBoard Settings entry password.
Local File Protection Policy	Choose how long to keep local storage files in the Folder app.
Color Correction	Color correct the ViewBoard display screen for color blind users.
Reset ViewBoard	Rest the ViewBoard to its factory default settings.

Startup & Shutdown

Set the **Startup Input**, **Standby Mode**, **EnergyStar Mode**, **Black Screen After Startup**, **Power off Reminder** timer and **Schedule** settings.



Item	Description
Startup Input	Adjust the Startup Input preference.
Display Setting when No Signal	Decide what happens to the display when there is no signal for HDMI, PC, or VGA sources.
Standby Mode	Decide what happens when you press the **Power** button while the ViewBoard is *On*.
EnergyStar Mode	Enable to automatically initiate *Sleep Mode* when the screen is idle for one hour.
Black Screen After Startup	When enabled, the ViewBoard will turn off the backlight automatically after booting up.
Time Switch **Power Off Reminder**	When enabled, the ViewBoard will turn off without any reminder after the scheduled off time.
Schedule	Schedule a Boot and Shut off time.

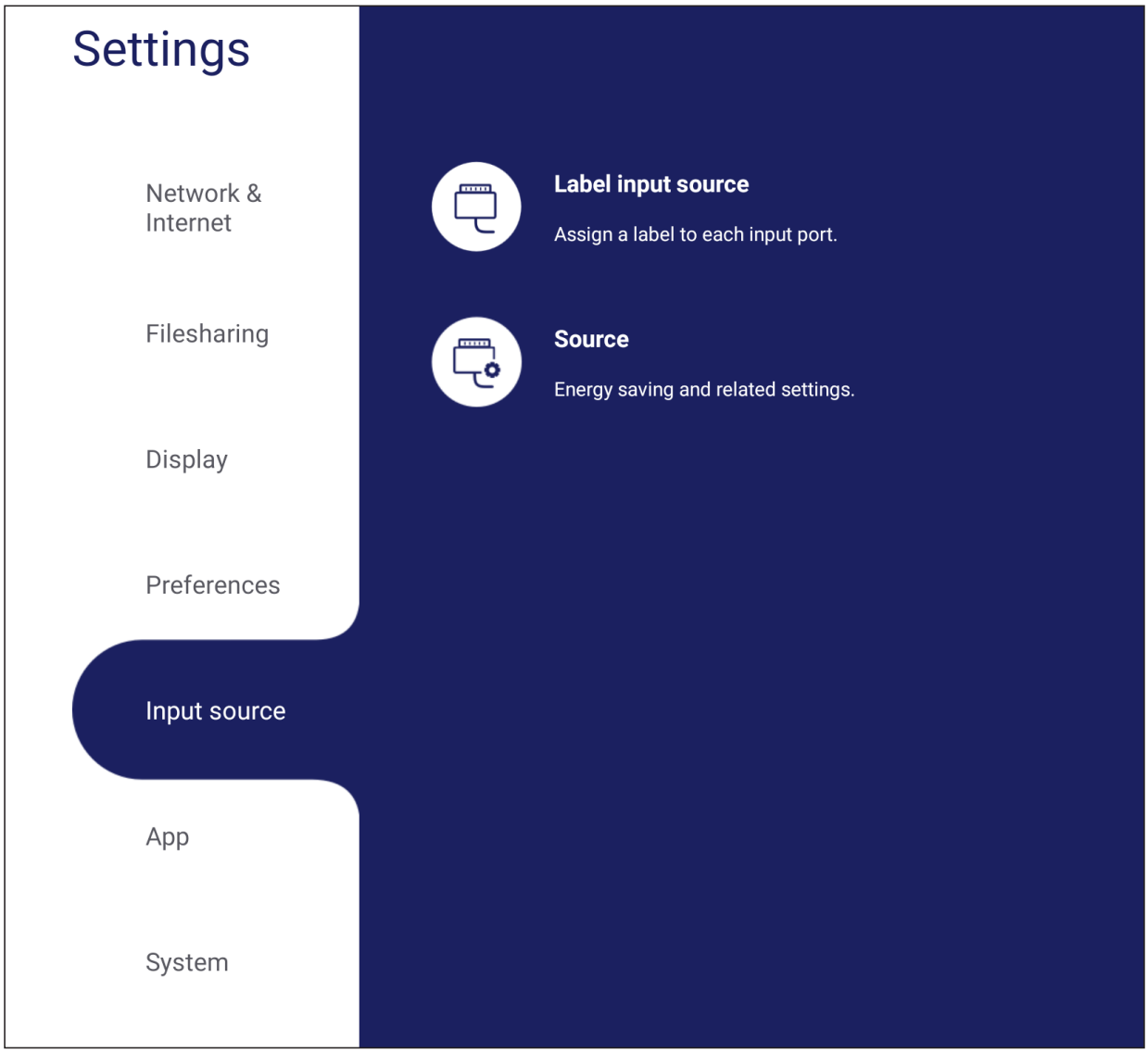
Toolbar Setting

Adjust the Side toolbar settings.



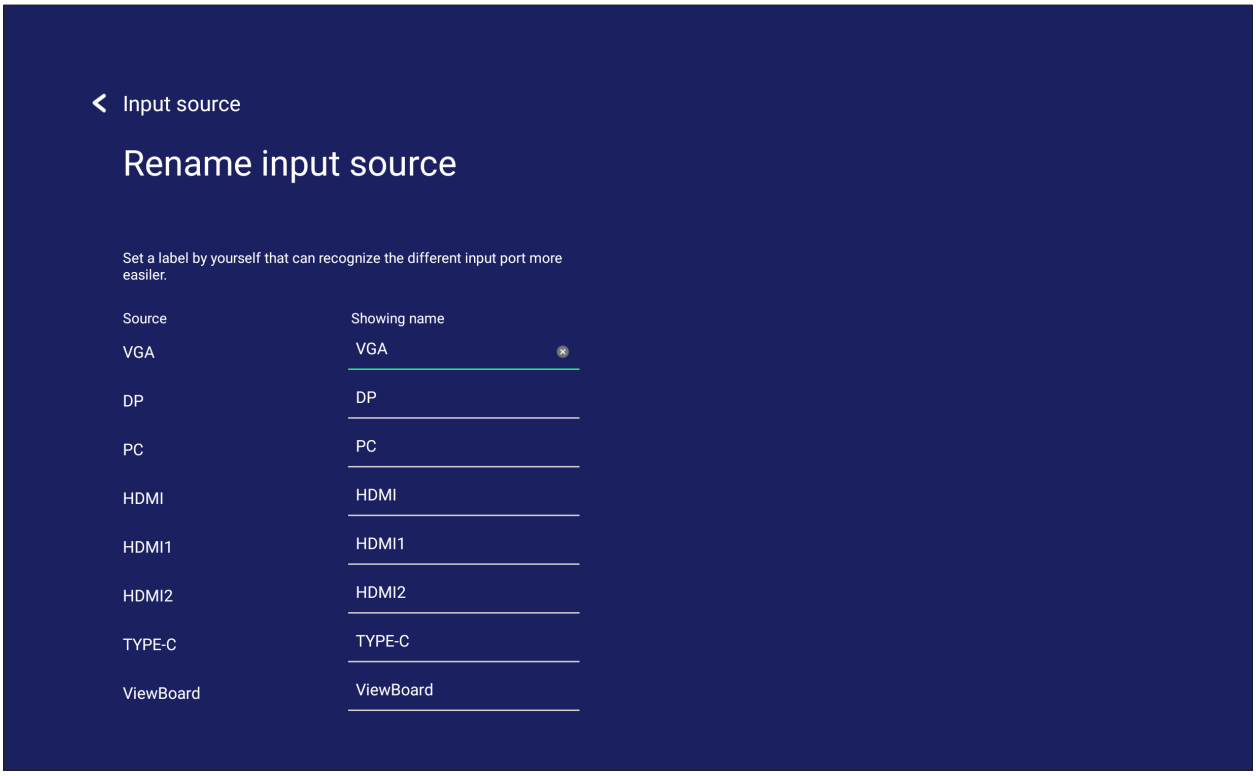
Input Source

Adjust the input source names and settings, as well as the side tool bar settings.



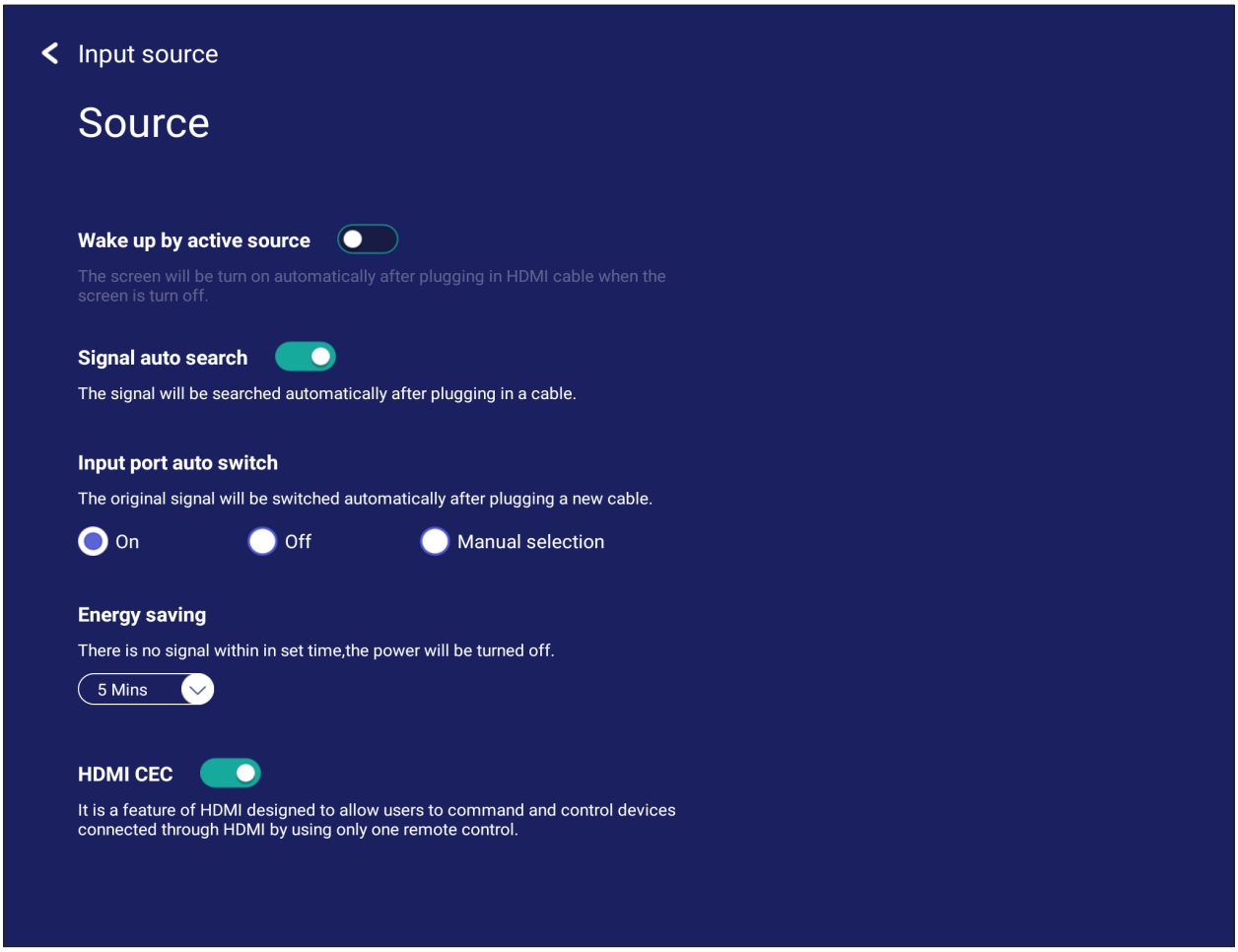
Rename Input Source

Set labels for each input source that will be easily recognized when displayed.



Source

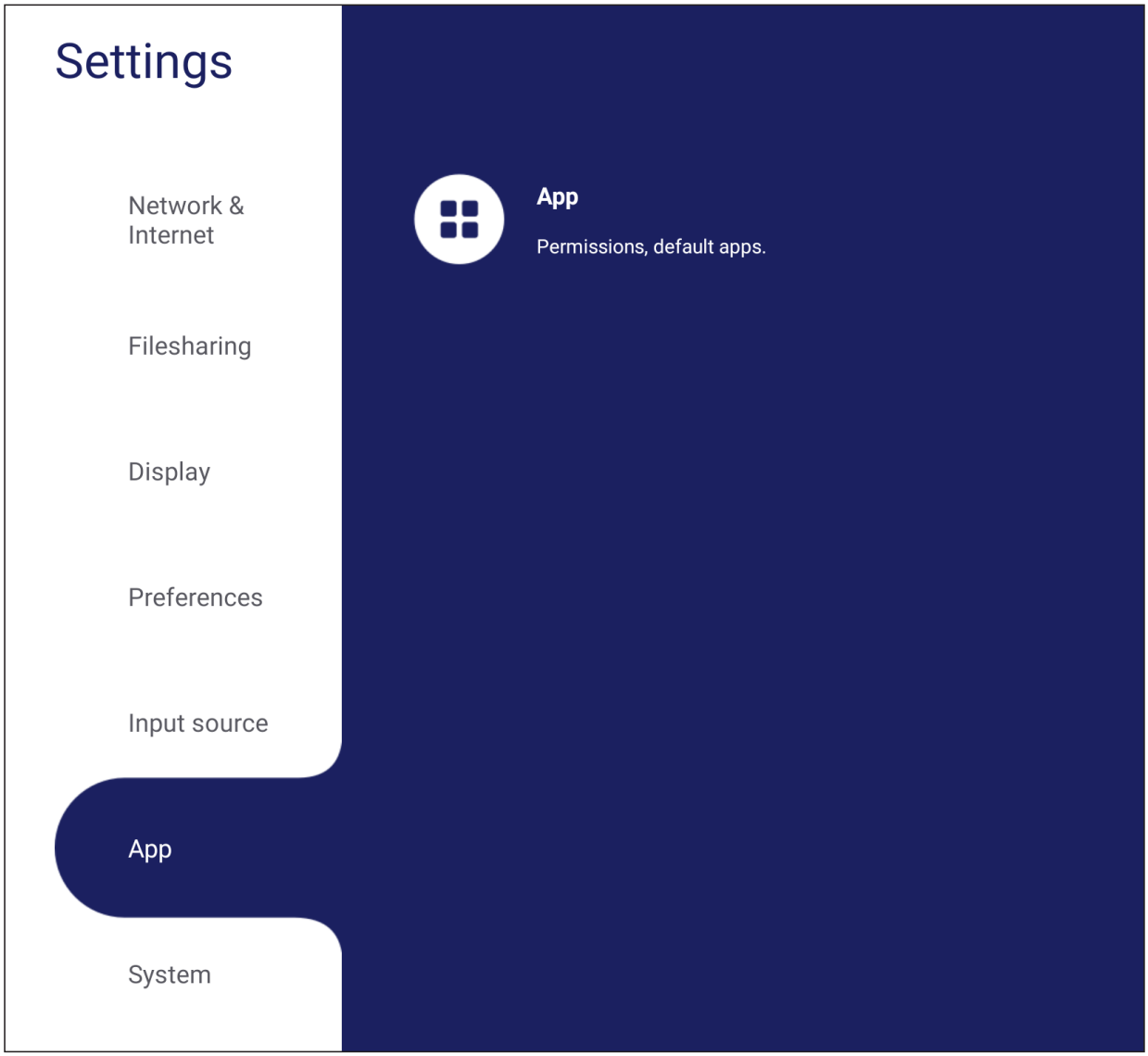
Toggle Wake up by active source, Signal auto search, and HDMI CEC and select Input port auto switch.



Item	Description
Wake up by Active Source	The screen will turn on automatically after plugging in an HDMI cable when the screen is off.
Signal Auto Search	When enabled, if the current source does not have a signal, the ViewBoard will automatically search for an input source.
Input Port Auto Switch	The original signal will automatically switch to a new cable after it's plugged in.
Energy Saving	Set a time period to power off if no signal is detected.
HDMI CEC	Enable/disable HDMI CEC functions.

App

The user can view App information and force stop, uninstall, clear data, clear cache, and clear defaults.

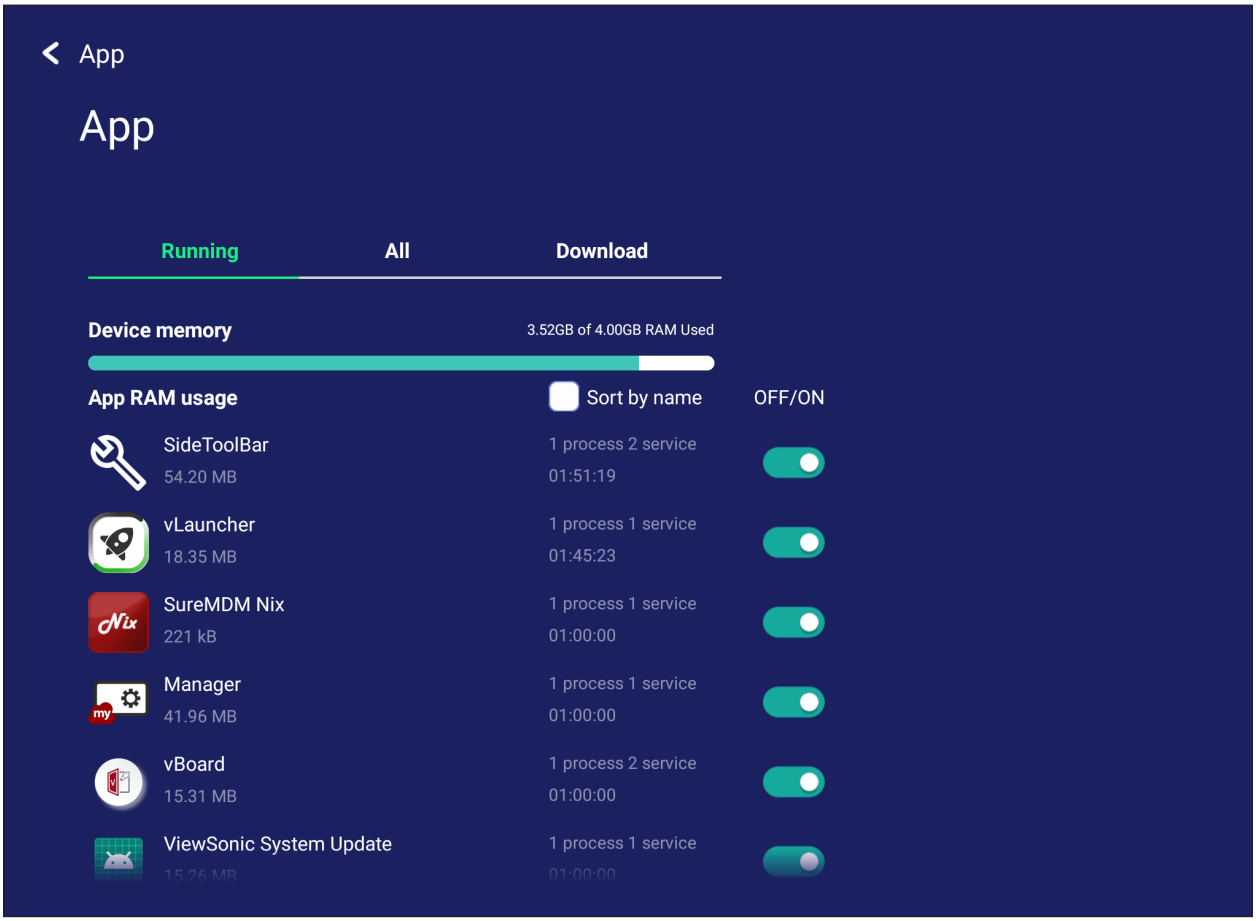


NOTE:

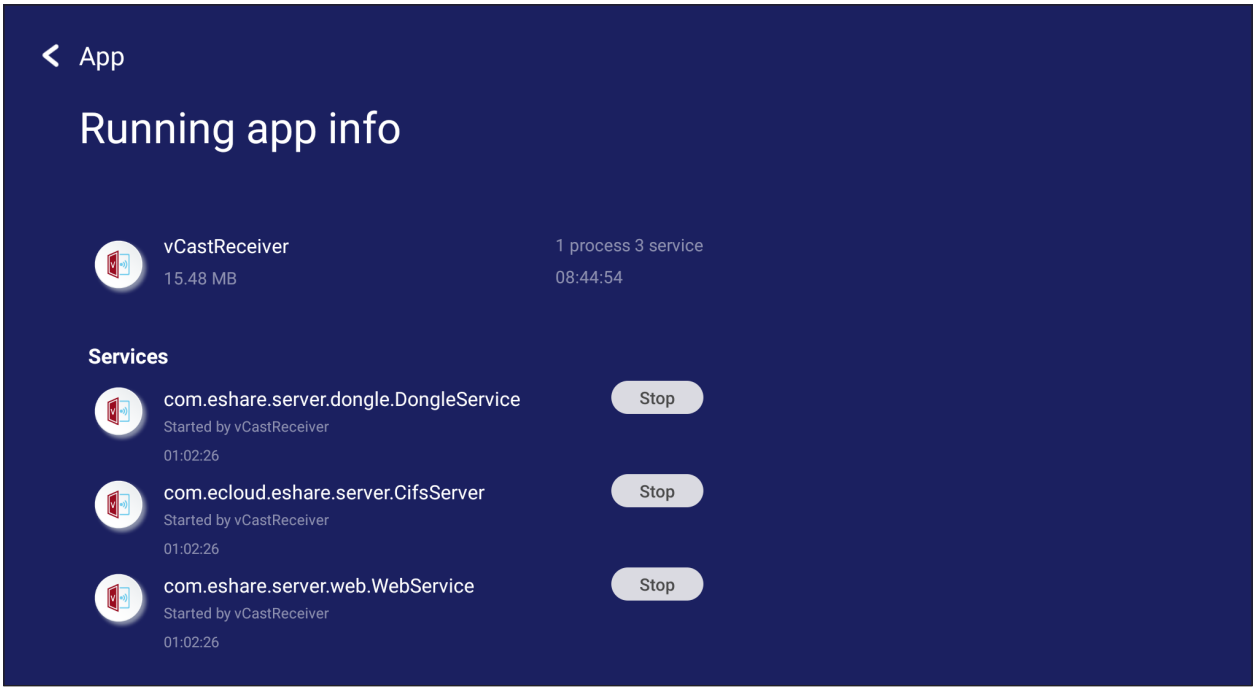
- Pre-loaded apps cannot be uninstalled.
- Not all apps support Clear Defaults.

App

View any running or installed applications. Tap on them for more detailed information and options.



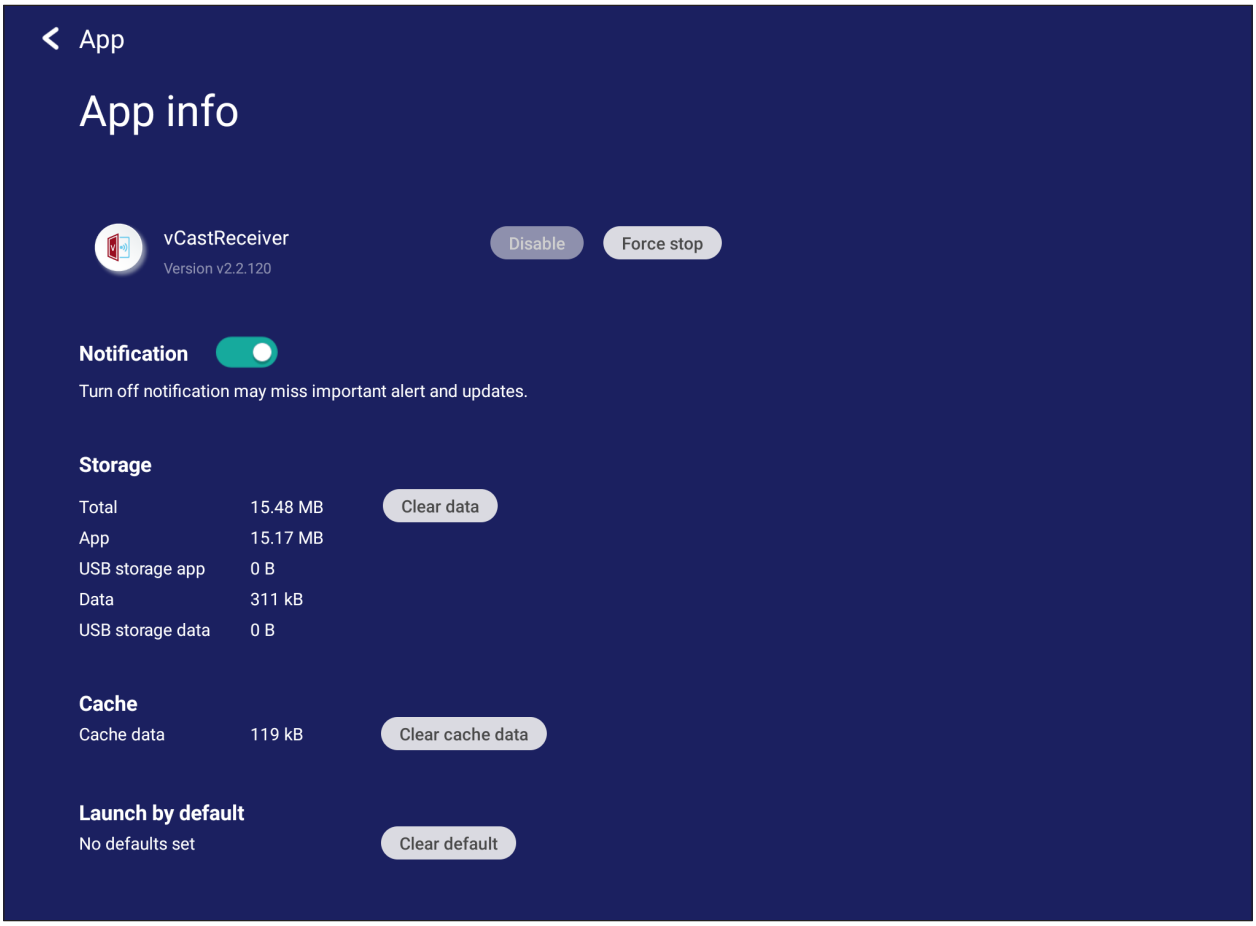
- By tapping on a running application, you can see more information, stop, or report the application.



- Selecting **All** or **Download** will list all installed applications.

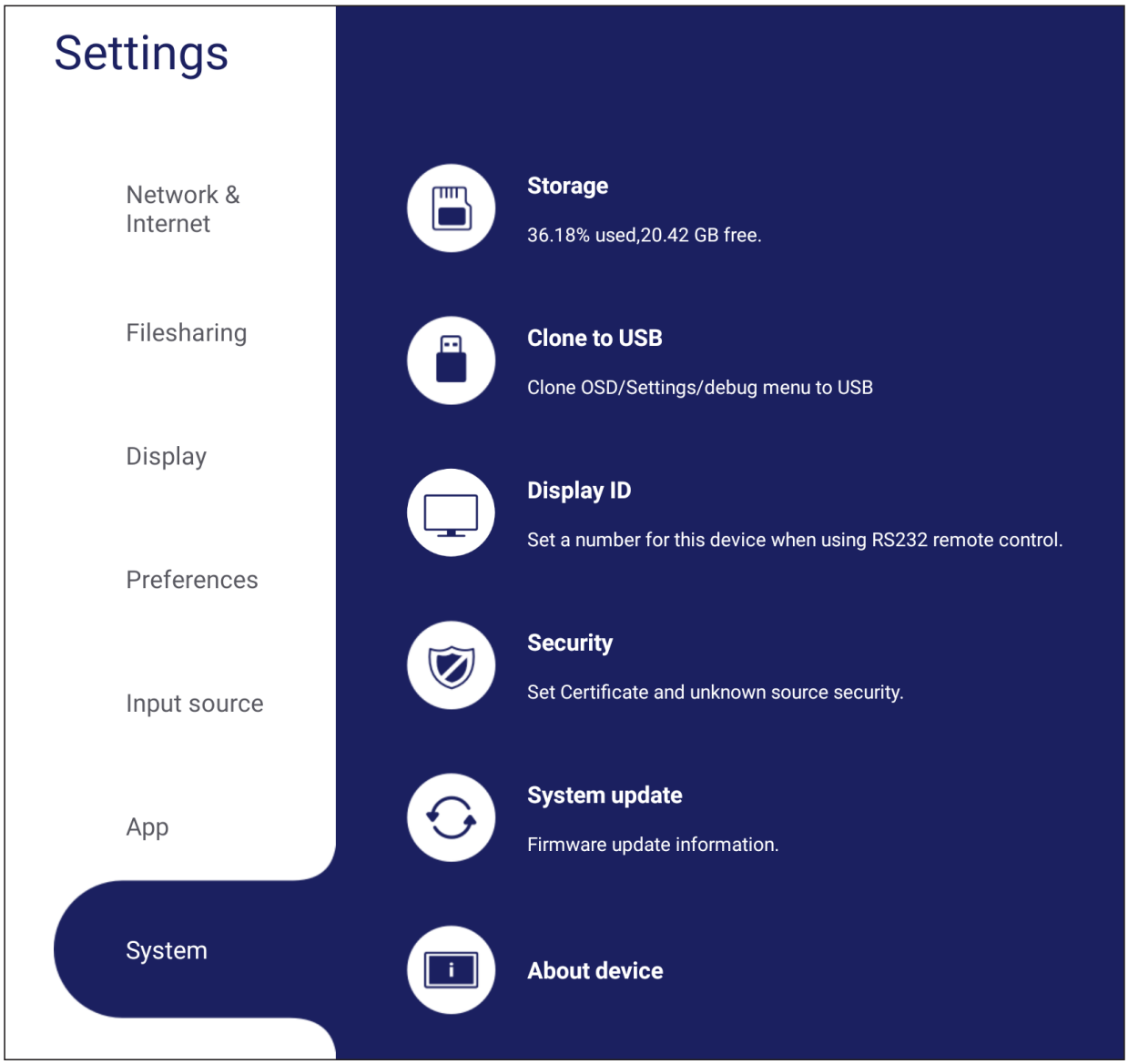


- Tapping on any application will display further information and options.



System

View and adjust **Storage**, **Security**, **System Update**, and **About device** settings.

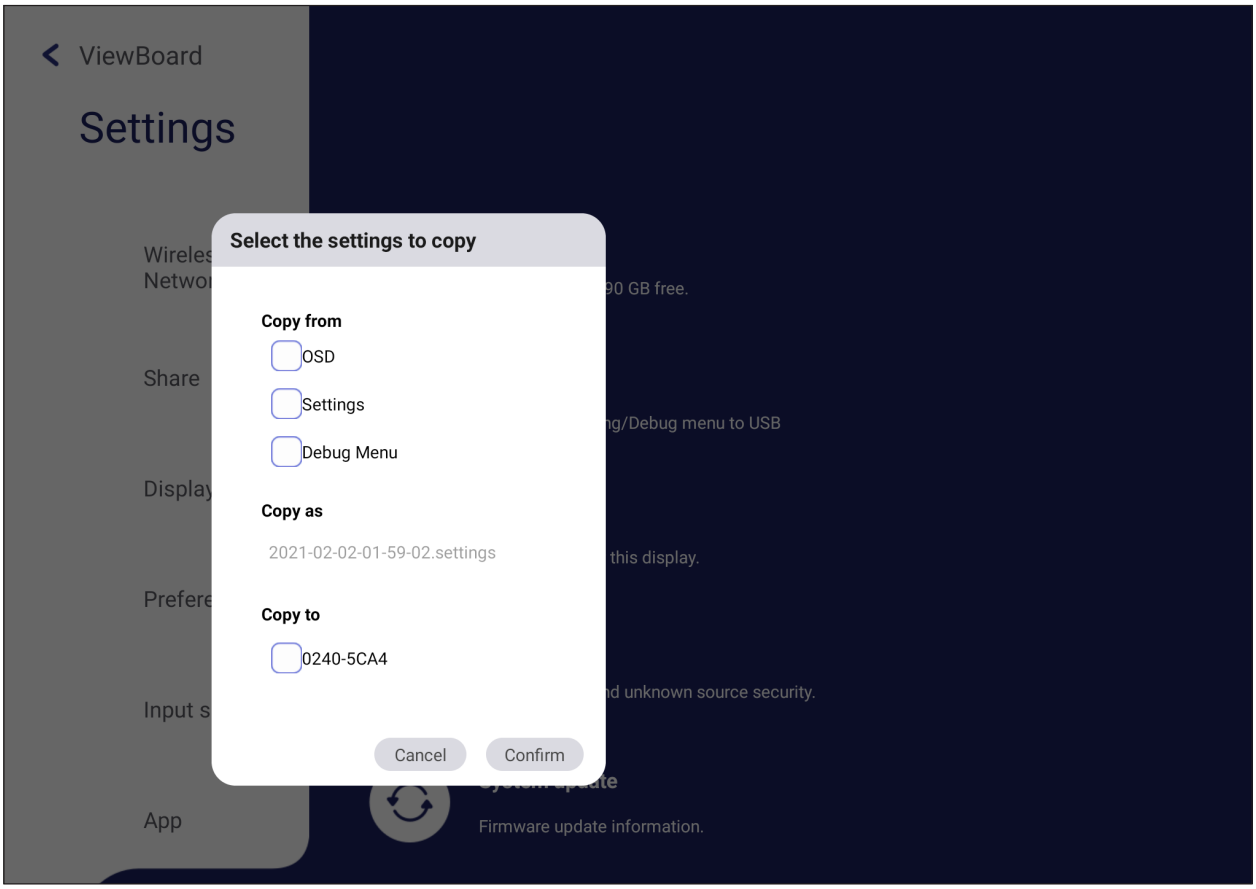


Storage

Users can check the storage status of their ViewBoard.

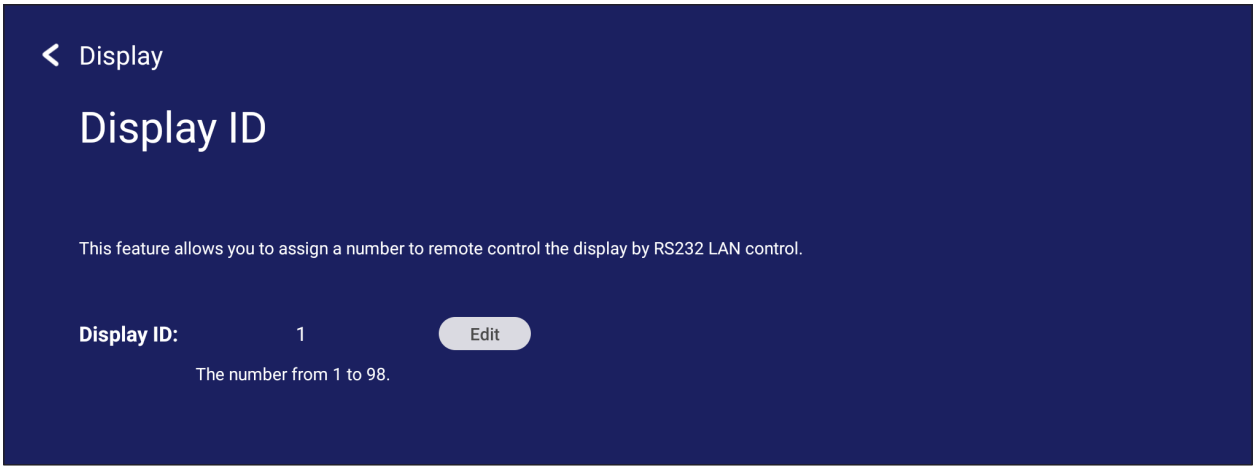
Clone to USB

Copy settings to an external USB drive.

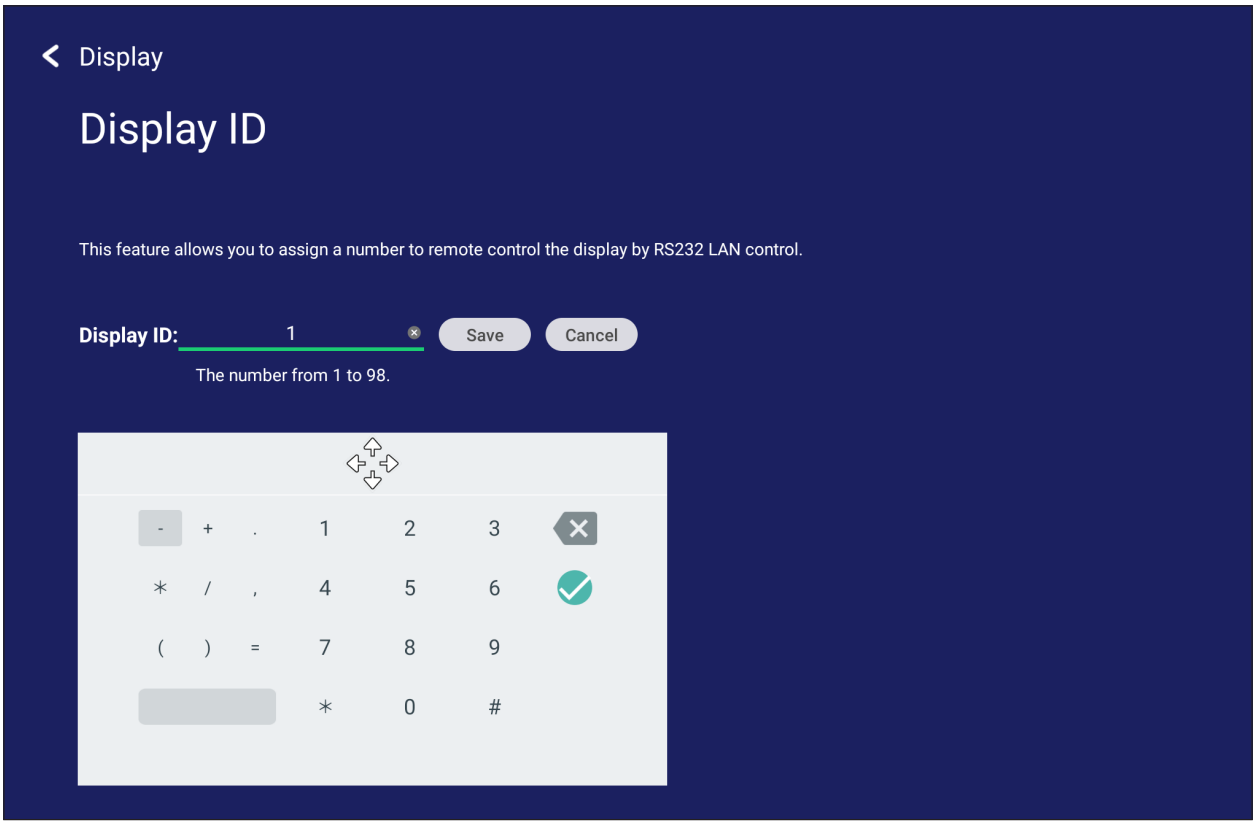


Display ID

Assign a number to remote control the display by RS-232/LAN.



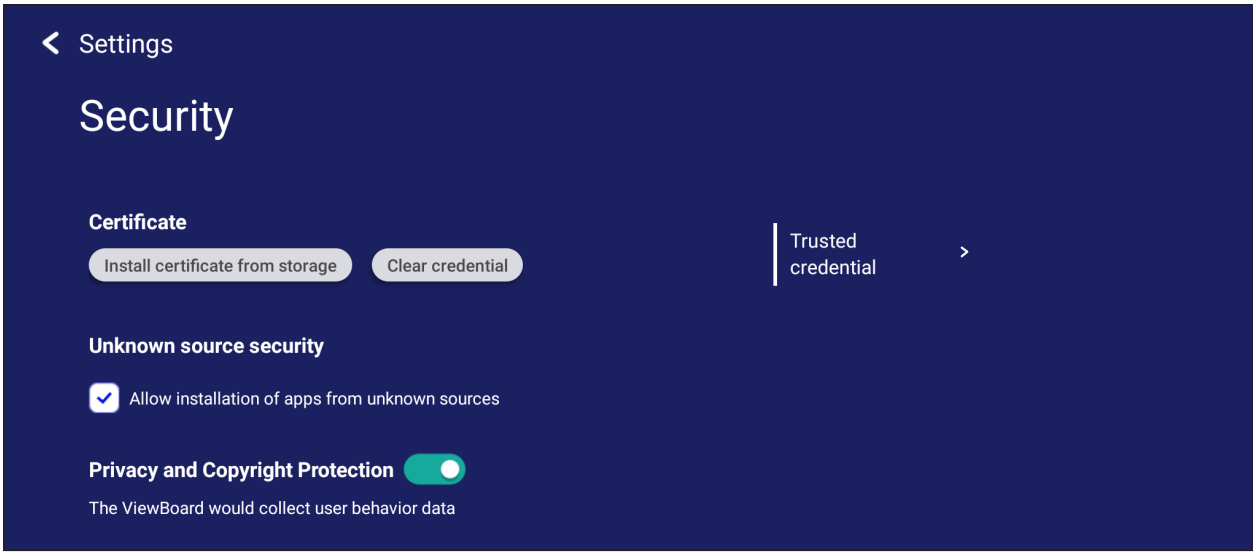
- To assign or change the Display ID, tap **Change** and input a number.



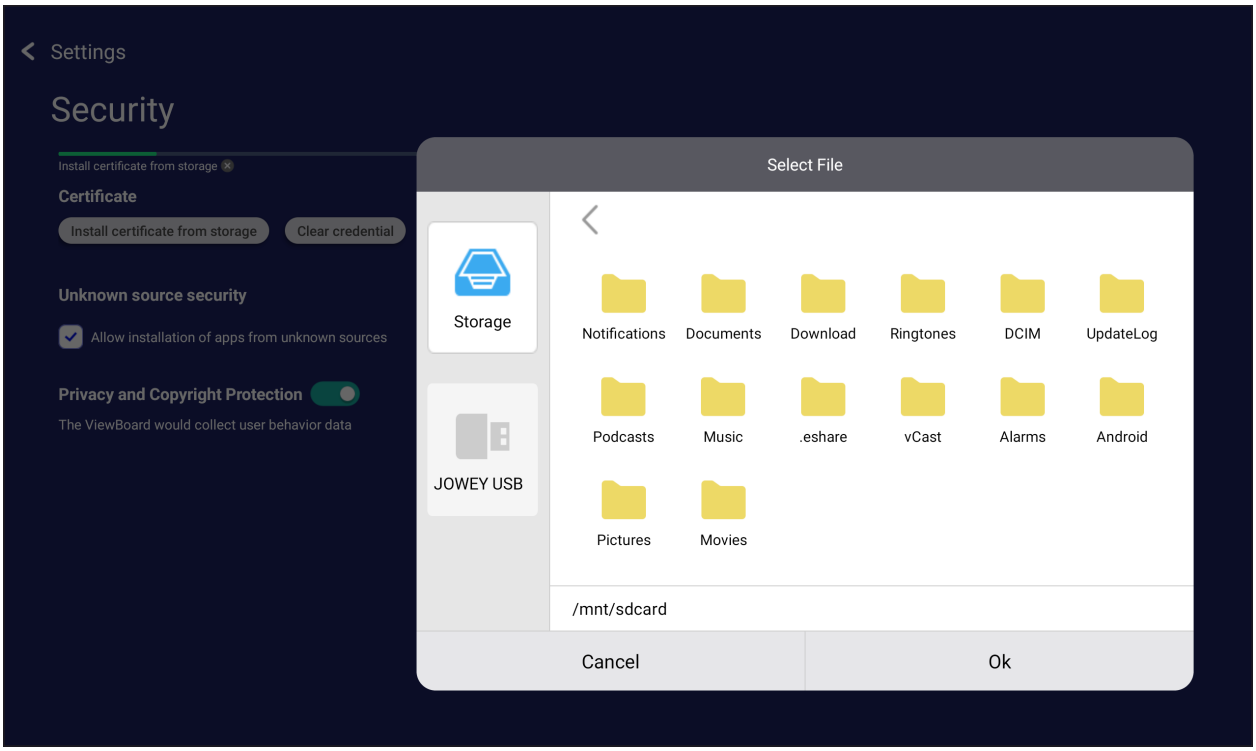
NOTE: The Display ID is for RS-232 users, and the range is 01~99.

Security

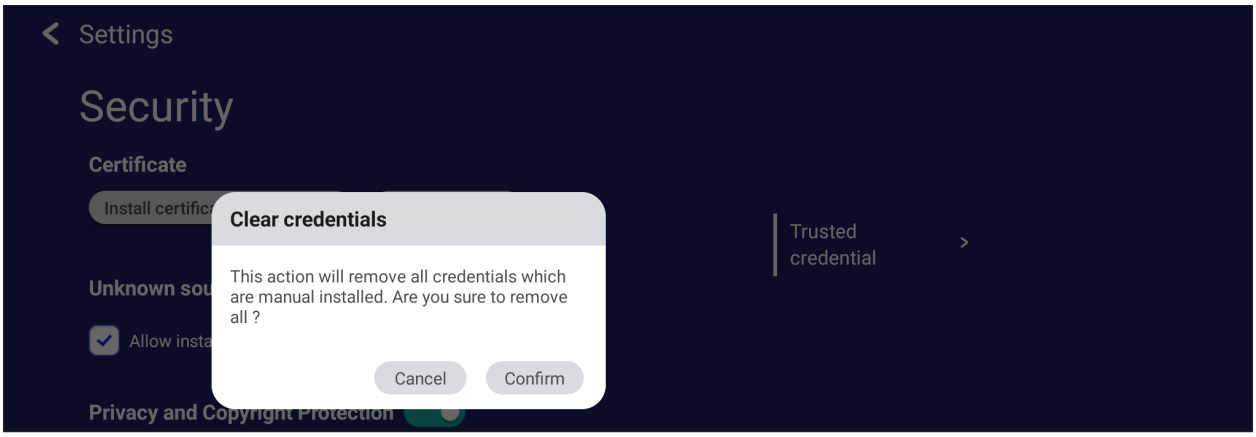
Review **Certificate**, **Trusted Credential** storage, and **Unknown sources** install settings.



- Tap on **Install certificate from storage** to add additional certificates.

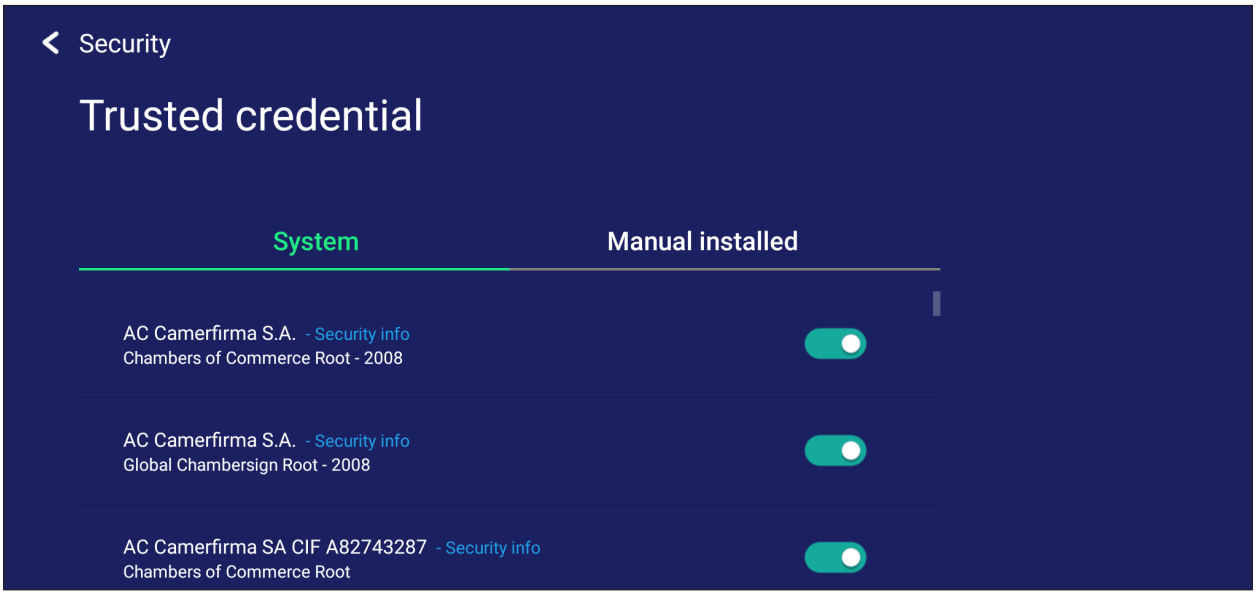


- Selecting **Clear Credentials** will remove all manually installed credentials.

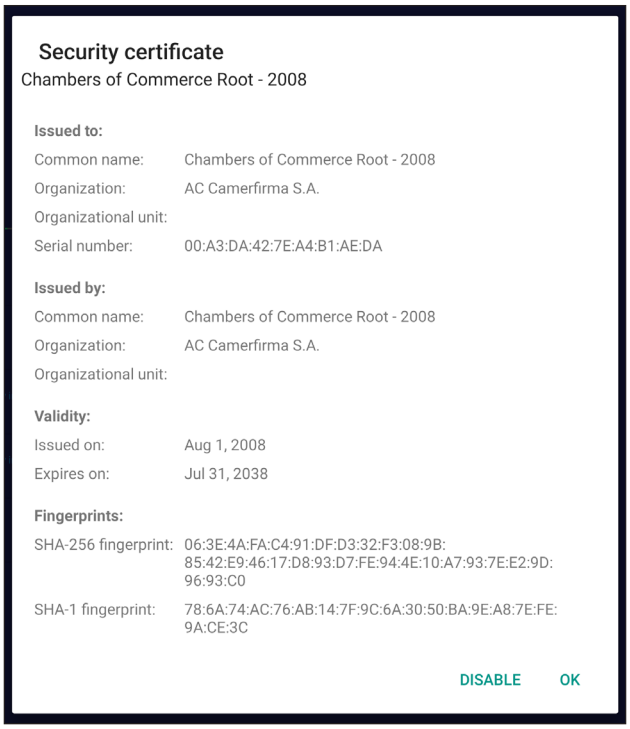


NOTE: Pre-loaded credentials cannot be cleared.

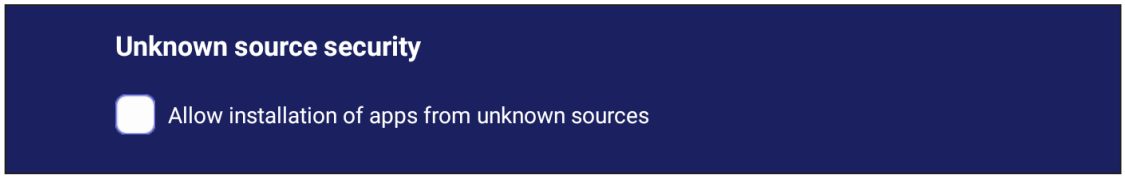
- Under **Trusted Credentials** view and edit all trusted and installed CA certificates.



- Tapping on a credential will provide more detailed information.



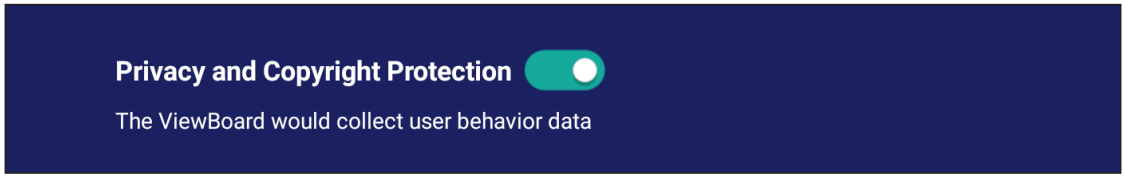
- Allow the installation of applications from unknown sources by selecting the box under **Unknown source security**.



NOTE: Apps from unknown sources may not be compatible or work properly.

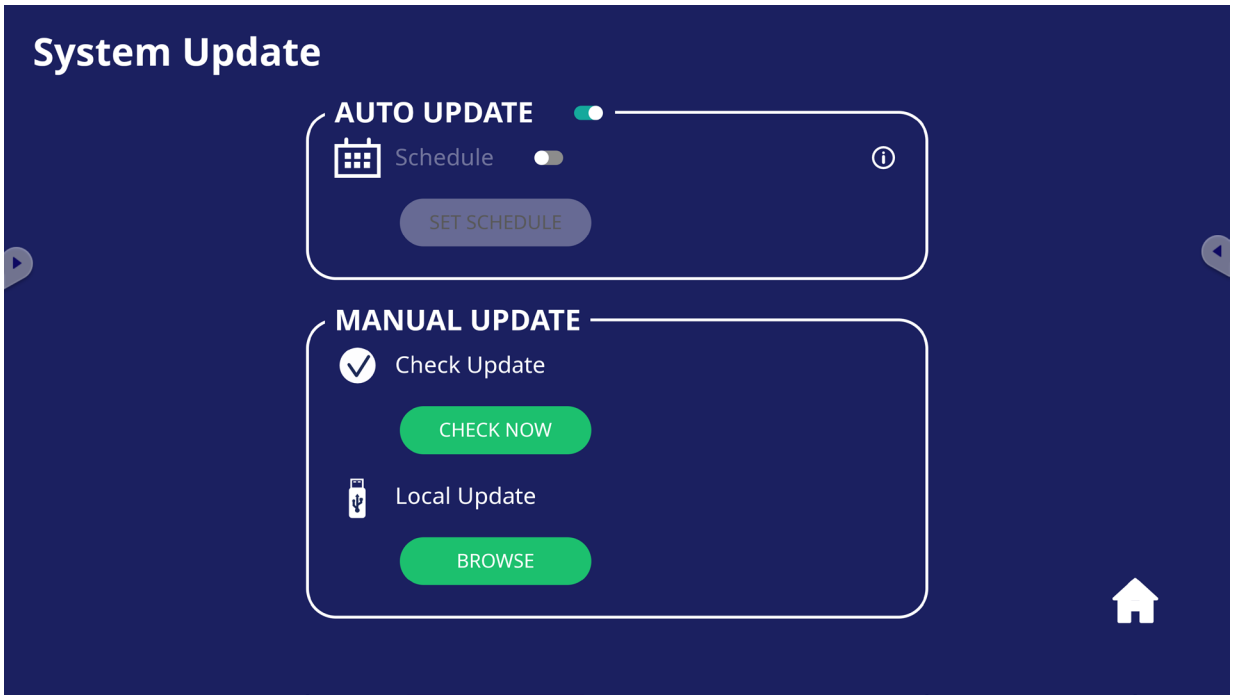
Privacy and Copyright Protection

Agree/disagree to allow the ViewBoard to collect user behavior data.



System Update

The ViewBoard automatically searches for software updates whenever connected to the Internet (OTA). With just one click, users can update their version of ViewBoard software.



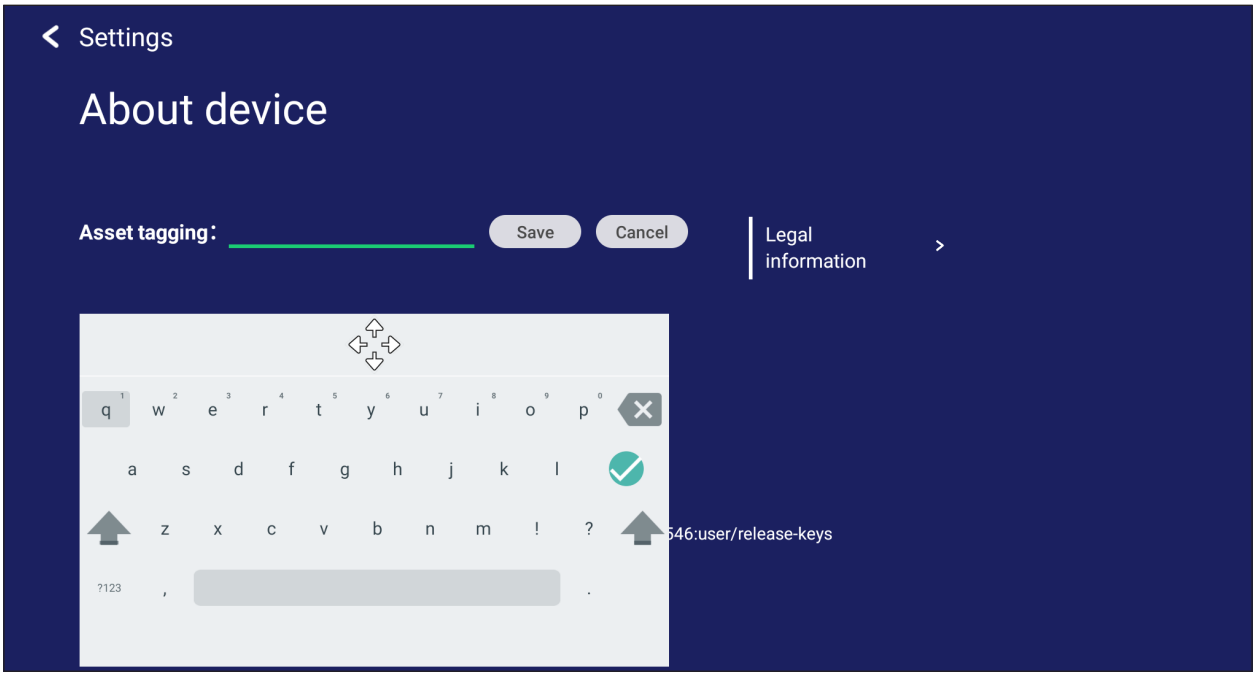
Item	Description
Auto Update	When the display is off, the system will automatically check for a new version. If a new version is found, the system will automatically update. After the update is complete, the system will turn off.
Schedule	Set the update time.
Manual Update	Update the software manually.
Check Update	Check for any available updates.
Local Update	Update the system from an external USB device.

About Device

Display Embedded Player information, **Legal information**, and **Asset Tagging**.



- By selecting **Edit**, the asset information can be adjusted.



- Tap on **Legal information** to check open source licenses.

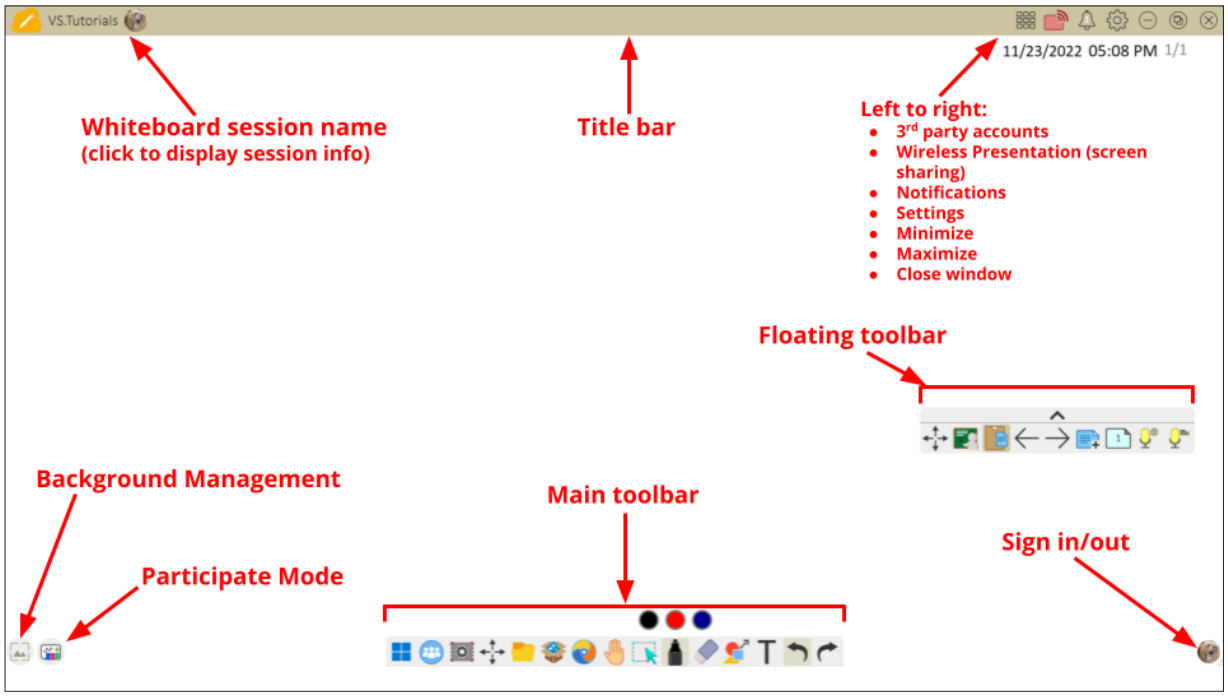


Pre-installed Applications and Settings

myViewBoard Whiteboard

A digital whiteboarding application.

NOTE: To learn more about myViewBoard Whiteboard, visit: https://wiki.myviewboard.com/Whiteboard_for_Android.



Floating Toolbar

Item		Description
	Move	Move the Floating Toolbar.
	Present Mode	Switch between presentation and preparation modes.
	Paste from Clipboard	Insert the current clipboard content onto the canvas.
	Previous Page	Go to the previous page (if the canvas has multiple pages).
	Next Page	Go to the next page (if the canvas has multiple pages).
	New Page	Add a new canvas.
	Pages in Whiteboard	Create, select, rearrange, copy and delete pages.

Main Toolbar

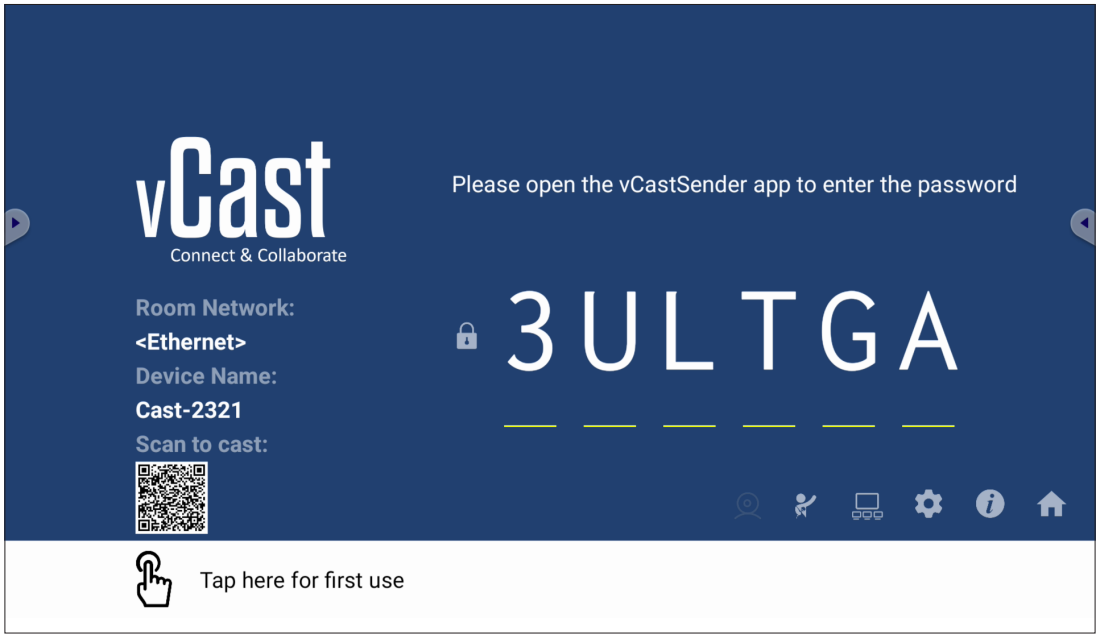
Item		Description
	**Screen Capture**	Screenshot, video, and audio recording.
	**Move**	Select and hold to move the toolbar to the left side, right side, or bottom of the screen.
	**File**	Open, save, export, and print whiteboard files.
	**Magic Box**	Import resources (image, video, audio, etc.) to the whiteboard.
	**Embedded Browser**	Open the built-in browser to access internet resources, which can be dragged onto the canvas.
	**Infinite Canvas**	Drag to move the canvas. Use two hands to zoom in/ zoom out. Select again for an overview.
	**Selection**	Select objects, text, and other elements on the canvas.
	**Pen**	Writing tools and customization options.
	**Eraser**	Erase objects or clear the page.
	**Shapes and Lines**	Draw shapes, arrows, and add tables.
	**Text and Handwriting**	Add a text box.
	**Undo**	Undo the previous action.
	**Redo**	Redo the previous action.

Background Management

Item		Description
	**Sign In**	Sign in to a myViewBoard account.
	**Background Management**	Change the canvas background.
	**FollowMe Setting**	Display custom images uploaded to a cloud storage account.
	**Color Palette**	Choose from solid or gradient colors as the background.
	**Pre-installed**	Choose backgrounds that come pre-installed with Whiteboard.
	**myViewBoard Originals**	Display original content created by myViewBoard.
	**Local Hard Drive**	Use images from the local hard drive.

vCast

Working with ViewBoard® Cast software (vCast, vCast Pro, and vCastSender), the vCast application will allow the ViewBoard to receive laptop screens (Windows/ Mac/Chrome) and mobile (iOS/Android) users' screens, photos, videos, annotations, and camera(s) that are using the vCastSender application.

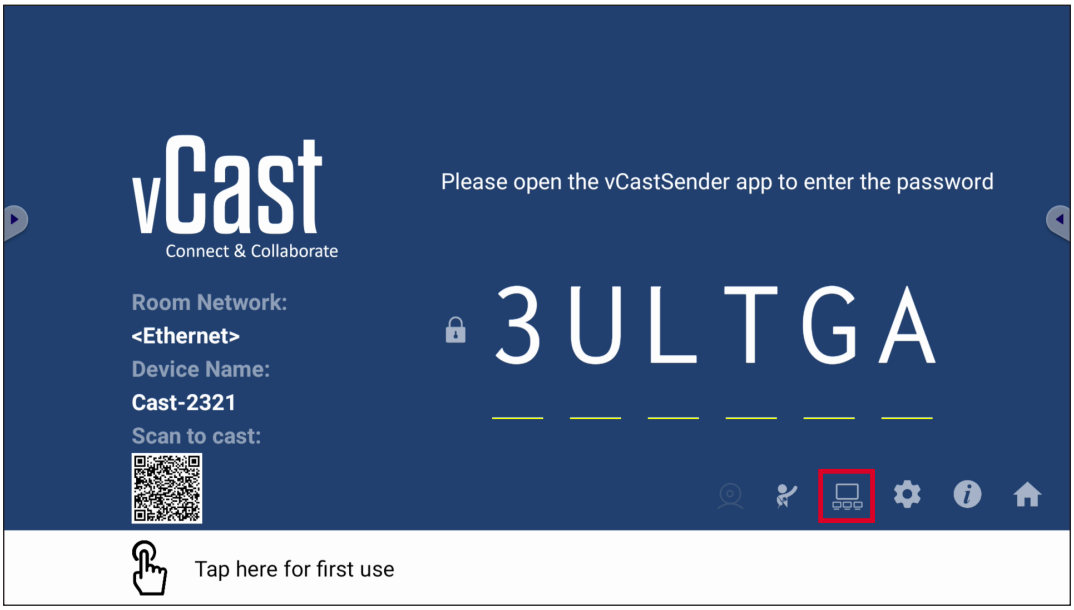


Network Information

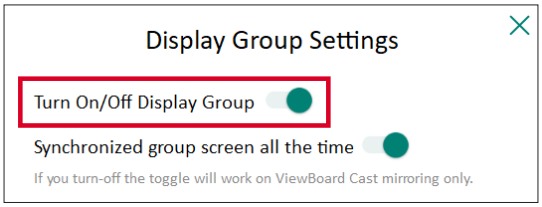
- ViewBoard® Cast software, laptops, and mobile devices can connect to both the same subnet and cross subnet by entering the on-screen PIN code.
- Connected devices will show up under **Device List** on the same subnet connection.
- If the device does not show up under **Device List**, users will need to key-in the on-screen PIN code.
- **Ports:**
  - » TCP 56789, 25123, 8121 & 8000 (Controlling message port & client device audio transfer)
  - » TCP 8600 (BYOM)
  - » TCP 53000 (Request share screen)
  - » TCP 52020 (Reverse control)
  - » TCP 52025 (Reverse control for ViewBoard Cast Button)
  - » TCP 52030 (Status sync)
  - » UDP 48689, 25123 (Device searching and broadcast & client device audio transfer)
  - » UDP 5353 (Multicast search device protocol)
- **Port and DNS for Activation**:
  - » Port: 443
  - » DNS: https://vcastactivate.viewsonic.com
- **OTA Service**
  - » Server Port: TCP 443
  - » Server FQDN Name: https://vcastupdate.viewsonic.com

Display Group Settings

To adjust the Display Group Settings, select the Display Group icon ( ) located in the lower-right corner of the screen.

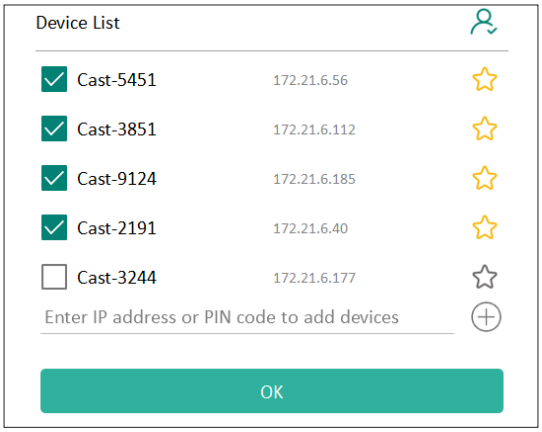


1. Toggle the "Turn On/Off Display Group" ON to enable the Display Group feature.



NOTE: Other preinstalled ViewBoard Cast devices in the same network will be listed.

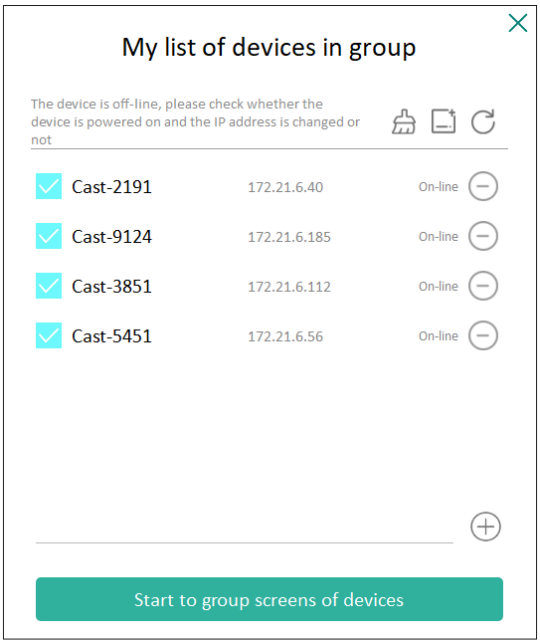
2. Select the devices you want to join the display group and select **OK** to save the settings.



NOTE:

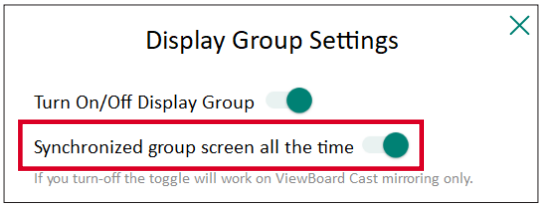
- If the devices you want to group are not listed, you can enter their respective IP address or connecting PIN code.
- The Display Group maximum device limit is six devices.

3. If you frequently connect to the same device, you can select the Star icon (☆) next to the device to add it to your frequently connected devices list, “My List of Devices in Group”, for easier Display Group setup and management.



Synchronized Group Screen All the Time

When the “Synchronized group screen all the time” function is toggled ON, it will display a synchronized group screen continuously. If it is toggled OFF, it will work on vCast mirroring only.



NOTE: Select the devices to group first, then toggle the “Synchronized group screen all the time” function ON to avoid interruption.

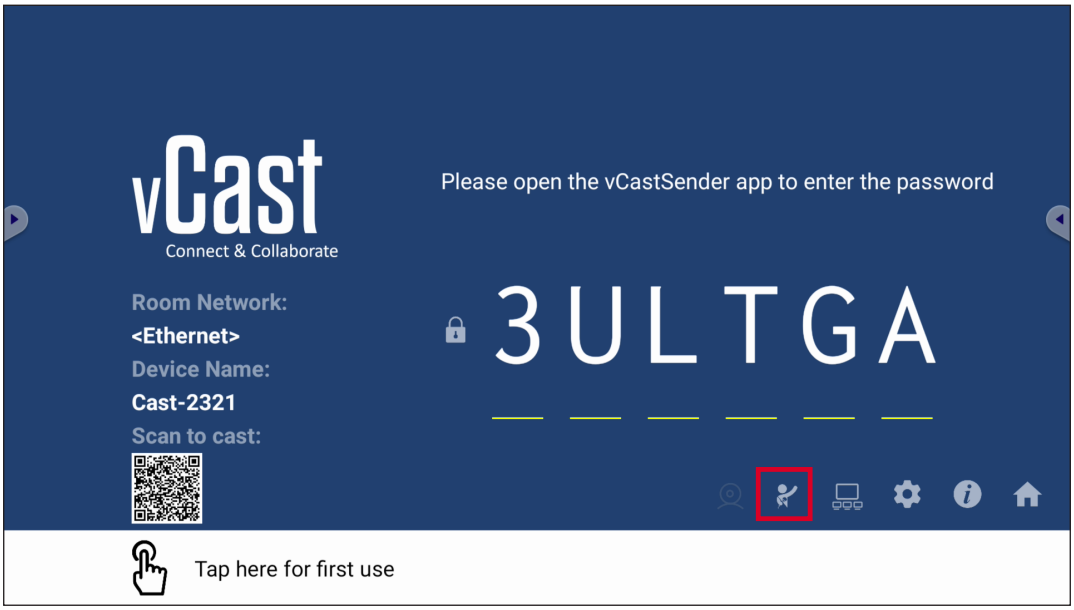
Share a Screen to the Display Group (One to Many Casting)

After confirming the above settings, you can share your screen to the main display, then the grouped client devices will be synced up to your screen.

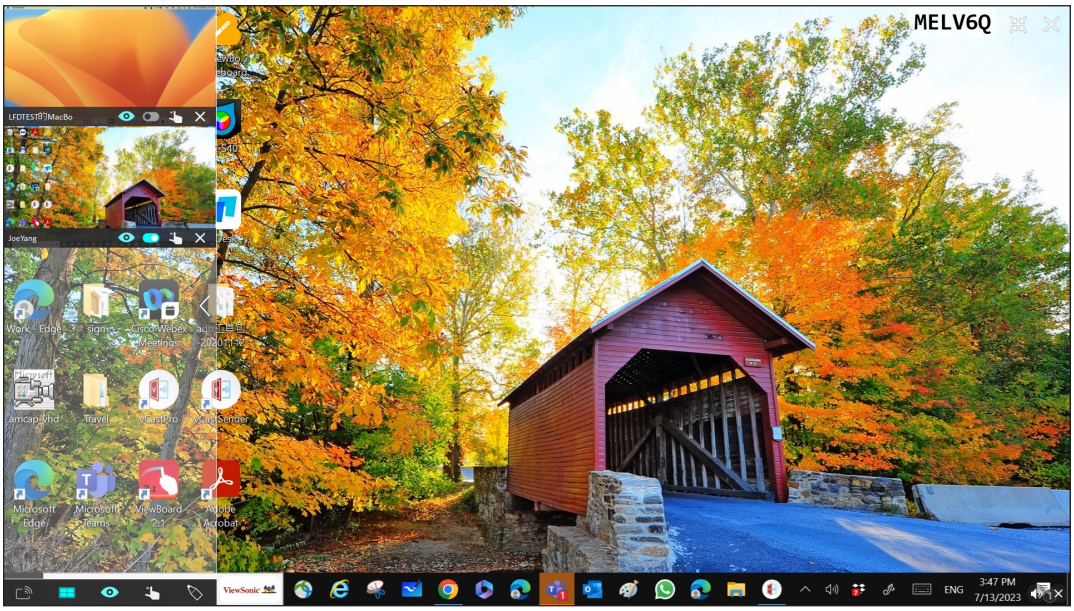


Moderator Mode

Moderator Mode allows the moderator to take control of the devices connected to the ViewBoard or display. To enter Moderator Mode, select the Moderator Mode icon ( ) located in the lower-right corner of the screen.

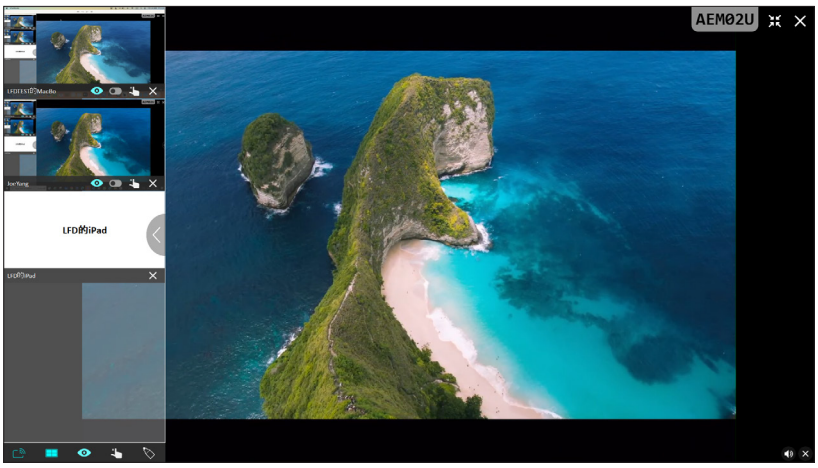


When enabled, the moderator can view a list of all connected screens in the left floating window and can preview each participant's screen and then select any of participant's screen and cast to the ViewBoard's or display's main screen for presentation. The moderator can also control each participant's screen, annotate on the ViewBoard or display, and remove unwanted participants by selecting the close icon (X).



Broadcast

When enabled, the ViewBoard's screen will be broadcasted to all of the participant's connected screens simultaneously. The participants can only view the presentation contents until the moderator disables the Broadcast function.



Multiple Screen Sharing

By default, vCast is set to allow multiple screen sharing, but can also be set to single screen sharing. To do this, the moderator can select the Multiple Screen Sharing icon to switch to single screen sharing.

Preview Screen

By default, vCast is set to let the moderator preview the participant's screen contents prior to sharing to the ViewBoard. Selecting the Preview Screen icon, the Moderator can switch to see the participant's name only.

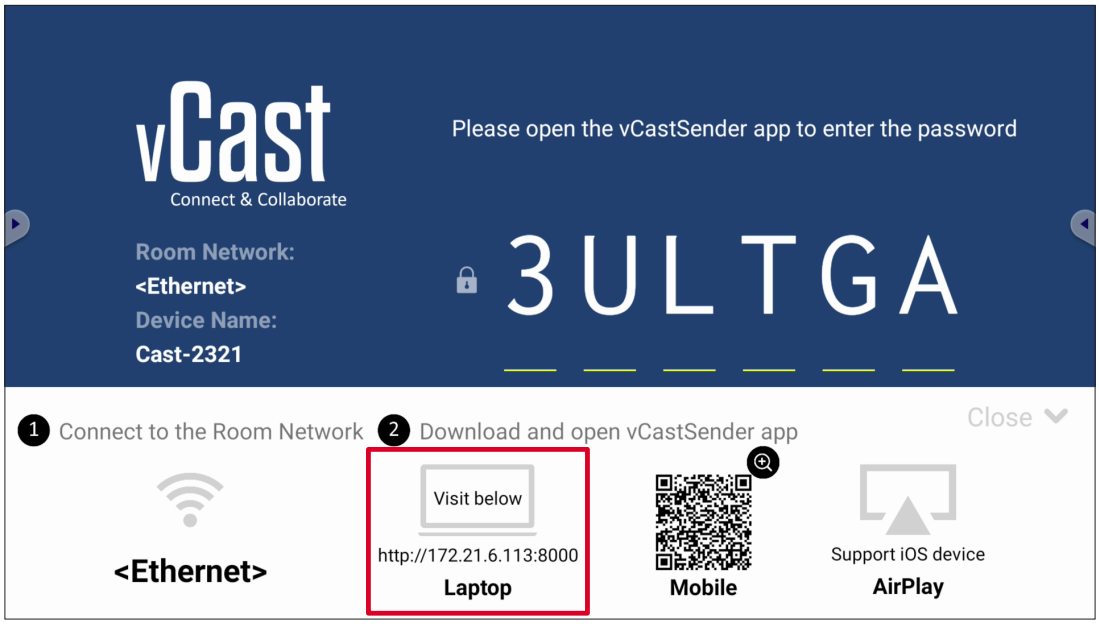
Touch

By default, participants can use touch for collaboration after connecting. The moderator can enable/disable the touch function of a participant by selecting the Touch icon in their window.

NOTE:

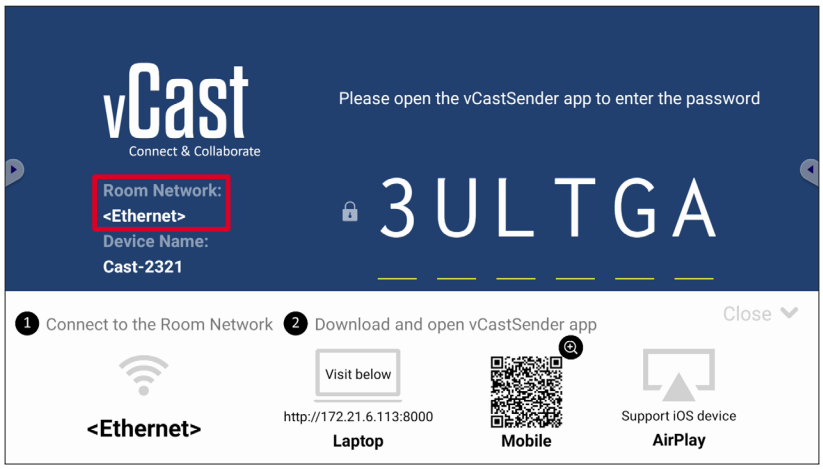
- Moderator Mode is supported on all vCastSender and AirPlay devices, but mobile devices are limited to a "preview" function. Additionally, mobile Android devices cannot cast sound out.
- When you cast your Windows/Mac/Chrome screen to a ViewBoard or display, the selected full screen unit will not be broadcasted back to your device to avoid repetitive screen casting.
- The active presenter can touch each of the participant's screens to remotely control casting devices.
- The number of multi-screen presenters on-screen depends on your Windows CPU processor performance and router specifications.

Casting from Windows, MacBook, and Chrome Devices



1. Ensure the client device (e.g., laptop) is connected to the same network as the ViewBoard.

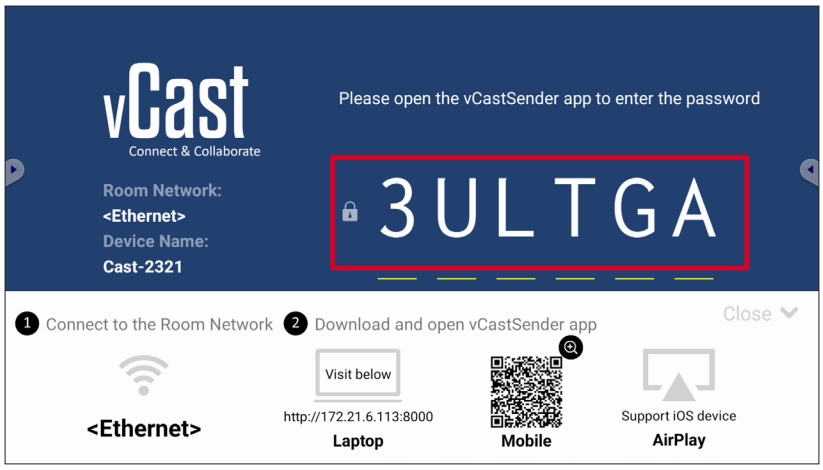
   NOTE: The network name can be found under **Room Network**.



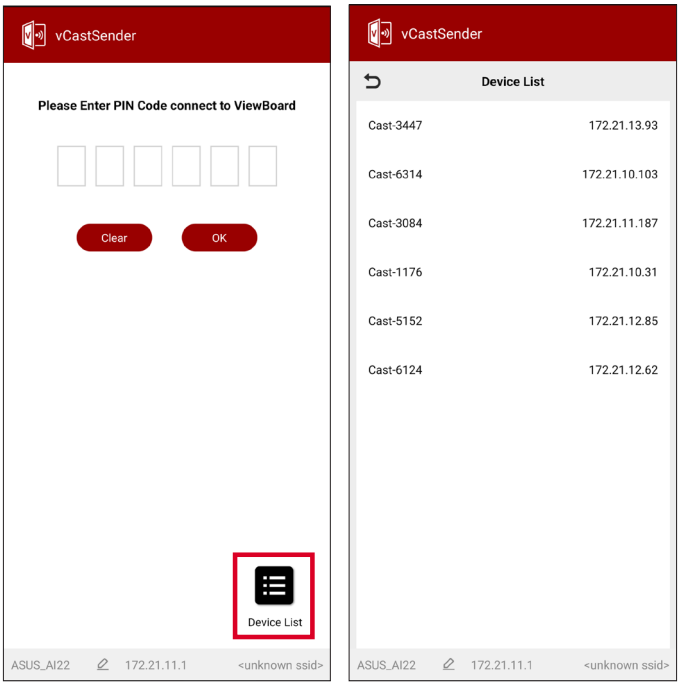
2. On the client device, visit the address that is shown on the ViewBoard to download and install the vCastSender application.
3. After installing, launch the vCastSender application.

4. To connect to the ViewBoard, input the PIN code and click OK.

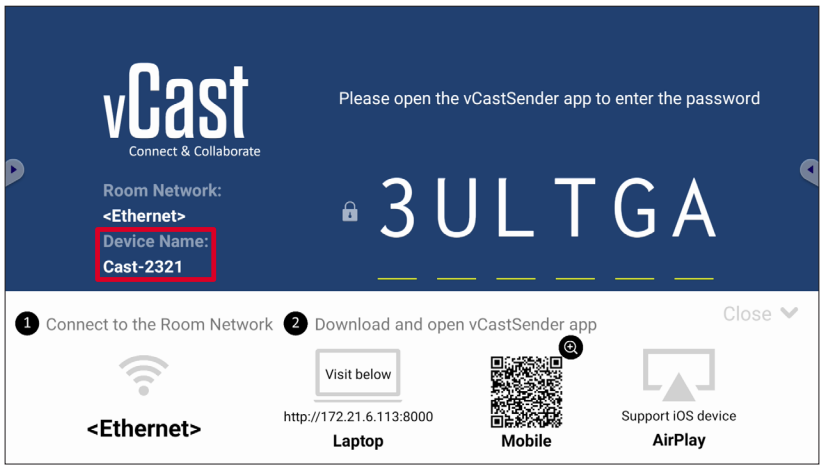
NOTE: The **PIN code** can be found as highlighted below:



5. Additionally, you can connect to the ViewBoard by clicking **Device List** then the **Device Name** listed.



NOTE: The **Device Name** can be found as highlighted below:

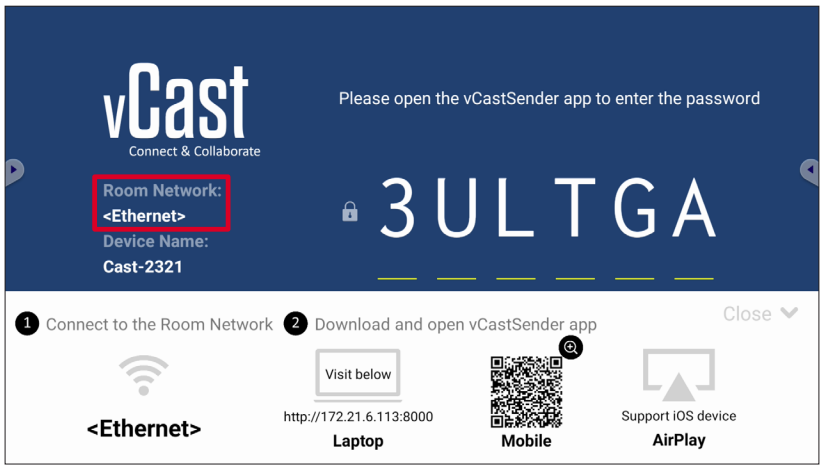


Casting from Android Devices

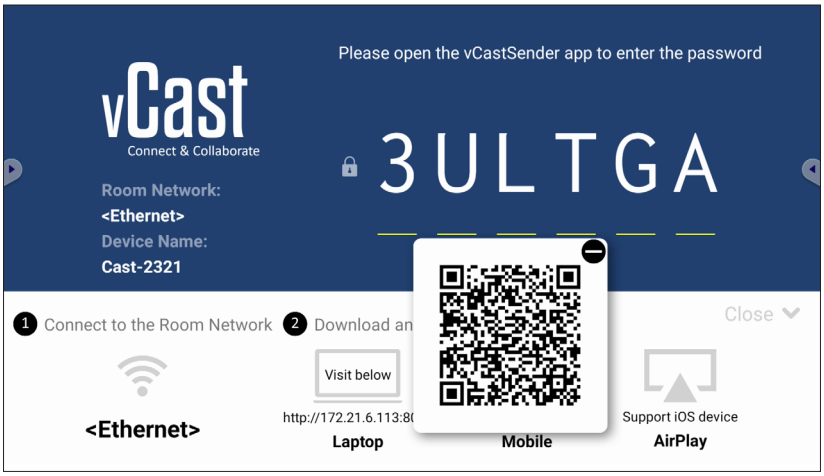


1. Ensure the client device (e.g., Android phone or tablet) is connected to the same network as the ViewBoard.

NOTE: The network name can be found under **Room Network**.



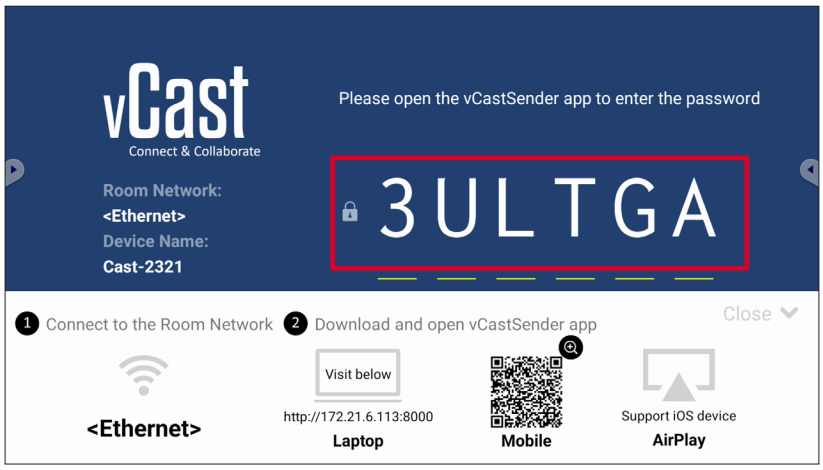
2. On the Android client device, scan the QR code shown on the ViewBoard to directly download the vCastSender application, or download the application from the Google Play Store.



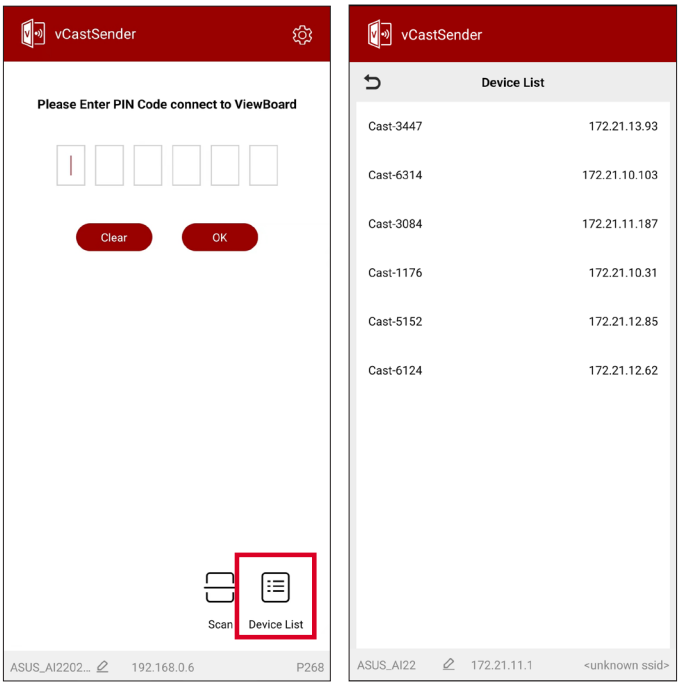
3. After installing, launch the vCastSender application.

4. To connect to the ViewBoard, input the PIN code and select **OK**.

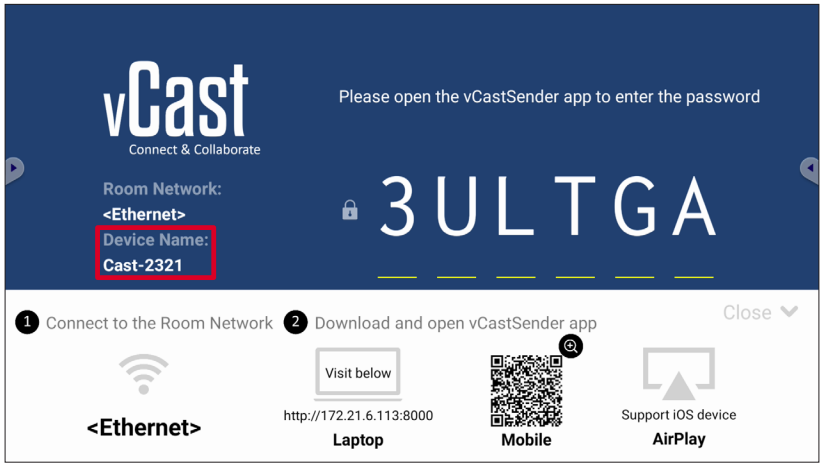
NOTE: The **PIN code** can be found as highlighted below:



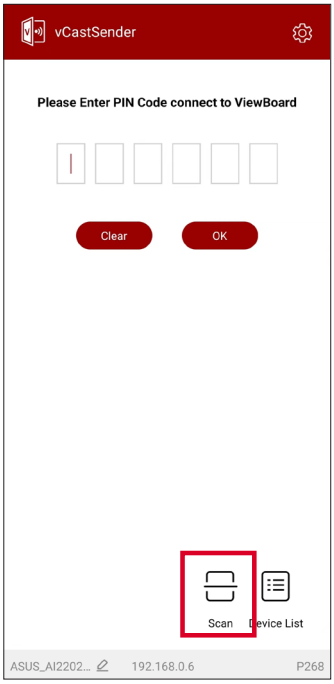
5. You can also connect to the ViewBoard by selecting **Device List** then the **Device Name** listed.

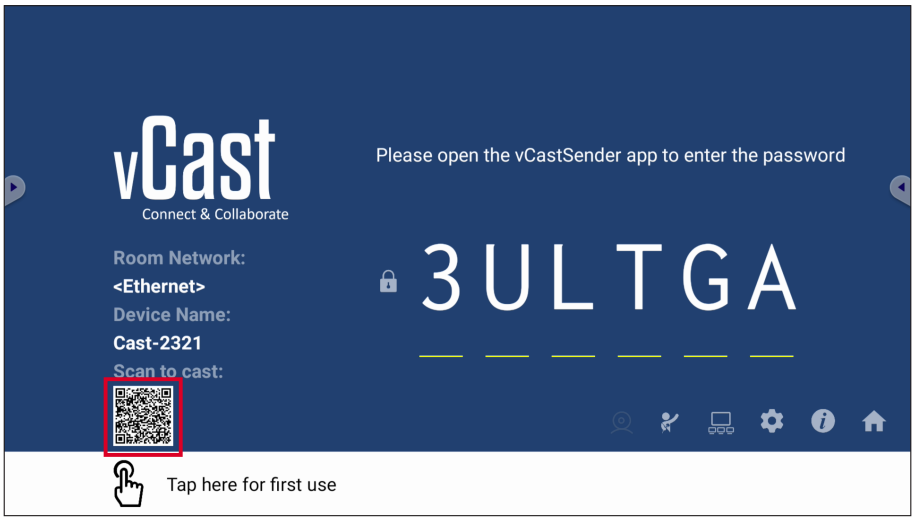


NOTE: The **Device Name** can be found as highlighted below:



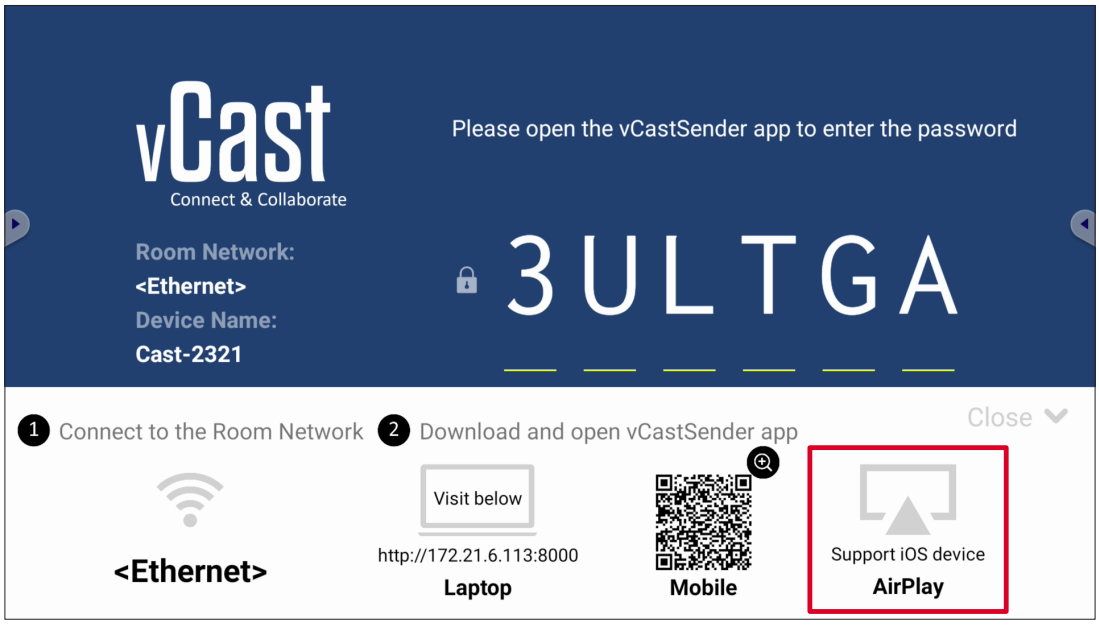
6. Additionally, you can connect to the ViewBoard or by selecting **Scan** then placing the on-screen QR code into the box to automatically connect.





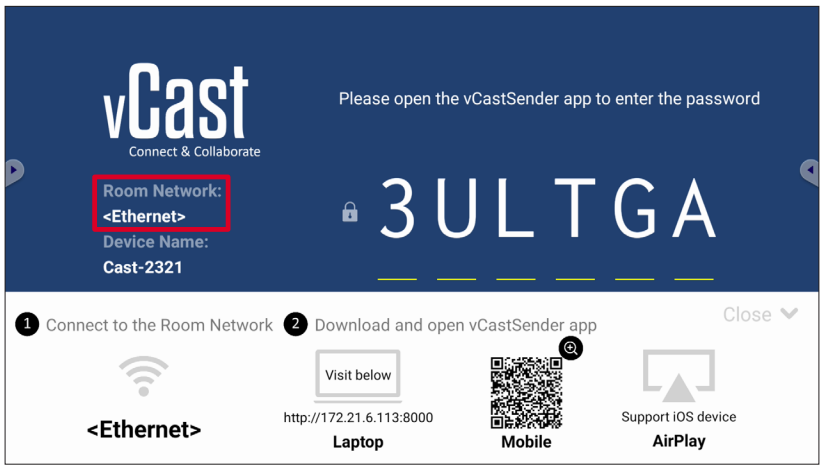
Casting from Apple iOS Devices

Apple AirPlay® is compatible with vCast for screen mirroring and content streaming under the same subnet environment only. An “AirPlay Password” will be generated on-screen for connection when using AirPlay to cast to a ViewBoard.



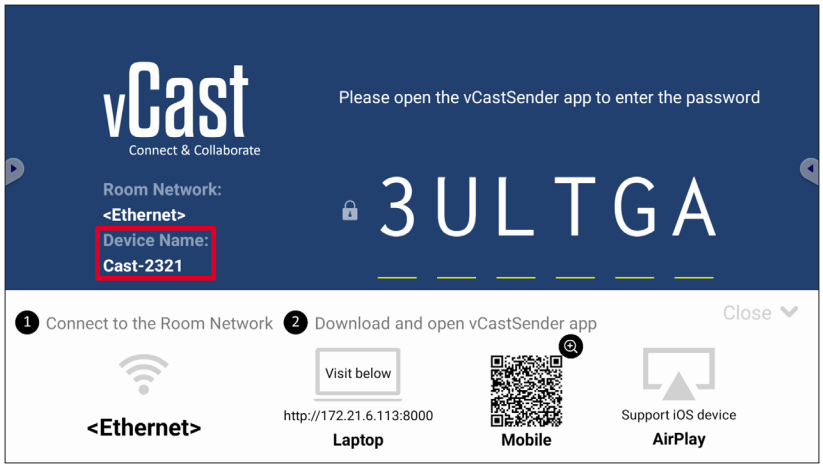
1. Ensure the client device (e.g., iPhone or iPad) is connected to the same network as the ViewBoard.

   NOTE: The network name can be found under **Room Network**.

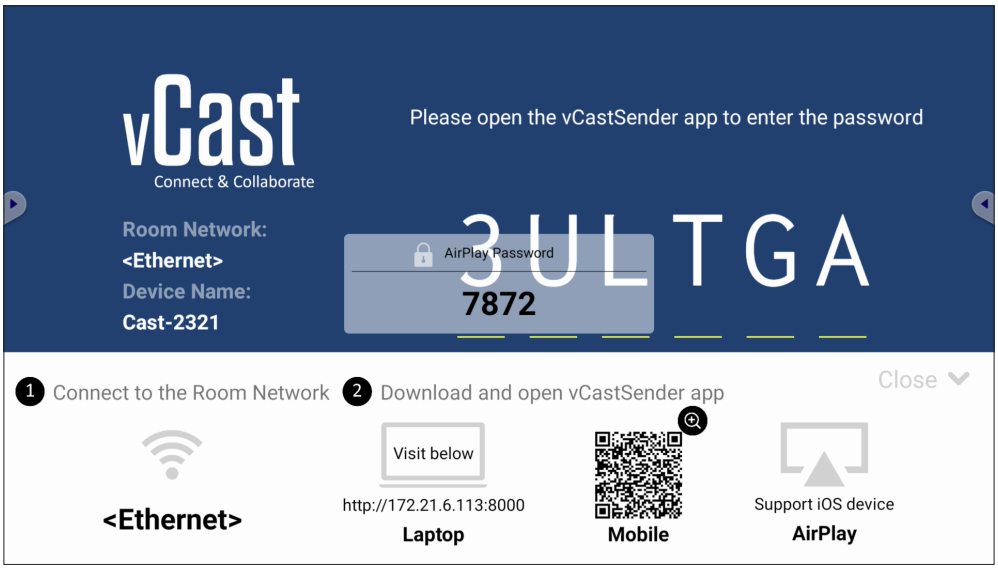


2. On the iOS client device, directly open AirPlay and select the **Device Name** of the ViewBoard to connect.

NOTE: The **Device Name** can be found as highlighted below:

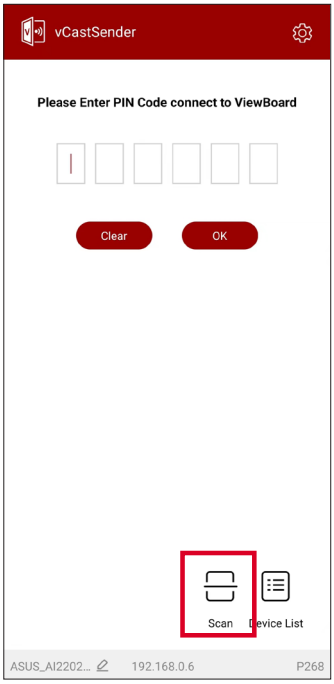


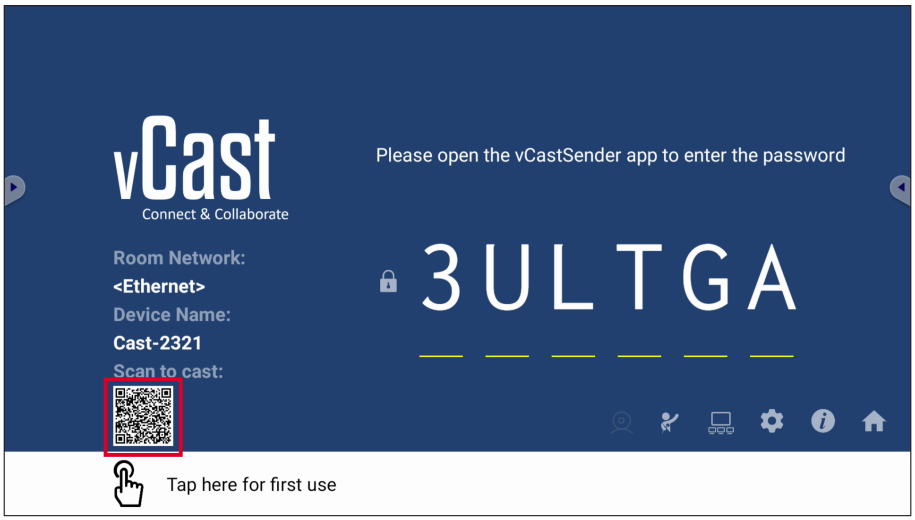
3. Input the generated on-screen **AirPlay Password** on the client device to connect.



NOTE: In a cross subnet environment, please download and connect with the vCastSender iOS application from the Apple App Store.

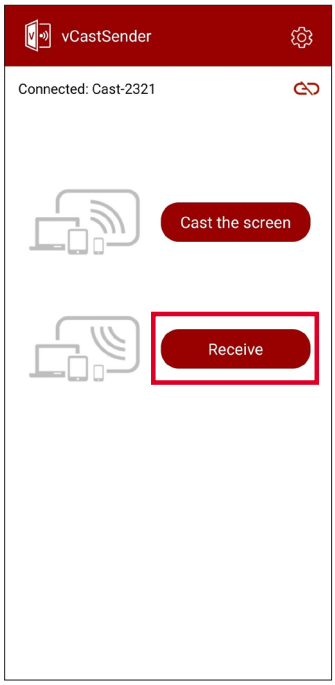
4. You can also connect to the ViewBoard by selecting **Scan** then placing the on-screen QR code into the box to automatically connect.

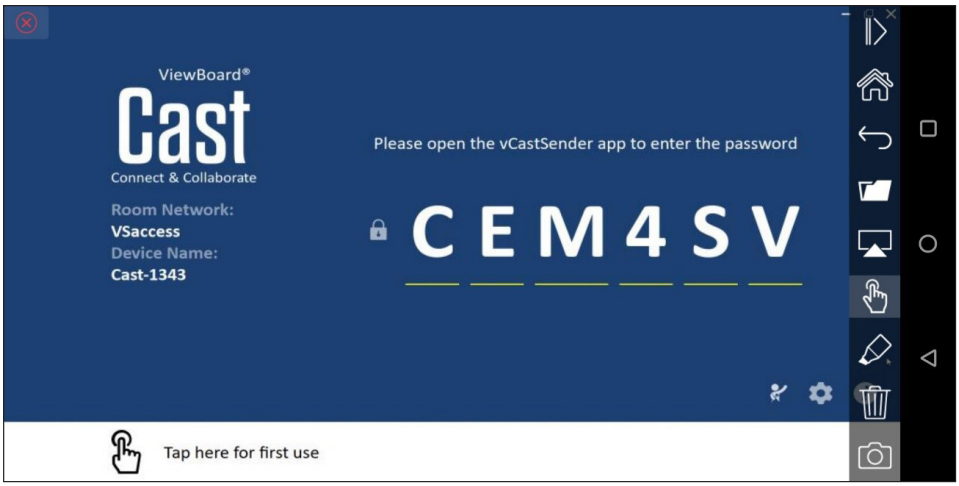




Connecting to a ViewBoard from a Mobile Device

Once connected, select **Receive**. The ViewBoard will appear on the mobile device with an on-screen toolbar. Users can interact with the ViewBoard with annotations, file sharing, etc.





Item		Description
	Toggle	Hide or display the toolbar.
	Home	Return to the Home interface.
	Return	Return to the previous operation.
	Folder	View or open the mobile device's files.
	Share	Cast the mobile device's screen to the connected ViewBoard or display.
	Touch	Remotely control the connected ViewBoard or display.
	Annotate	Make annotations, and adjust the pen color.
	Clear	Clear everything on screen.
	Camera	Send camera images to the connected ViewBoard or display.

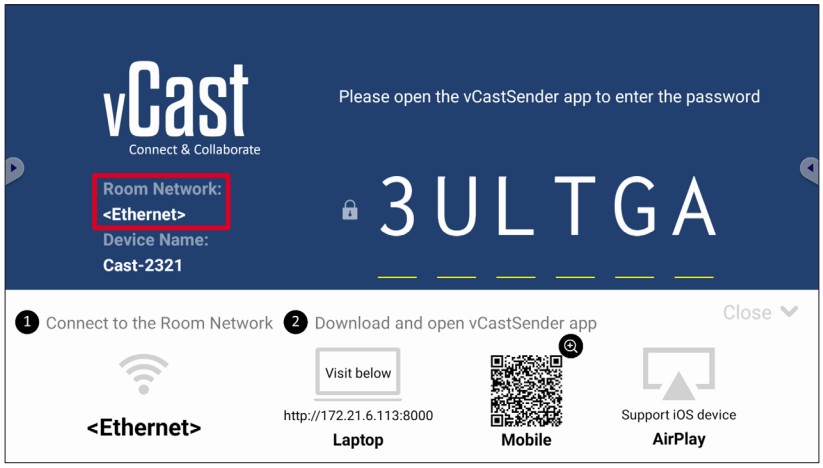
Casting with Chromecast

vCast supports native Chromecast screen sharing via the Chrome browser casting when the Chromecast feature is enabled.

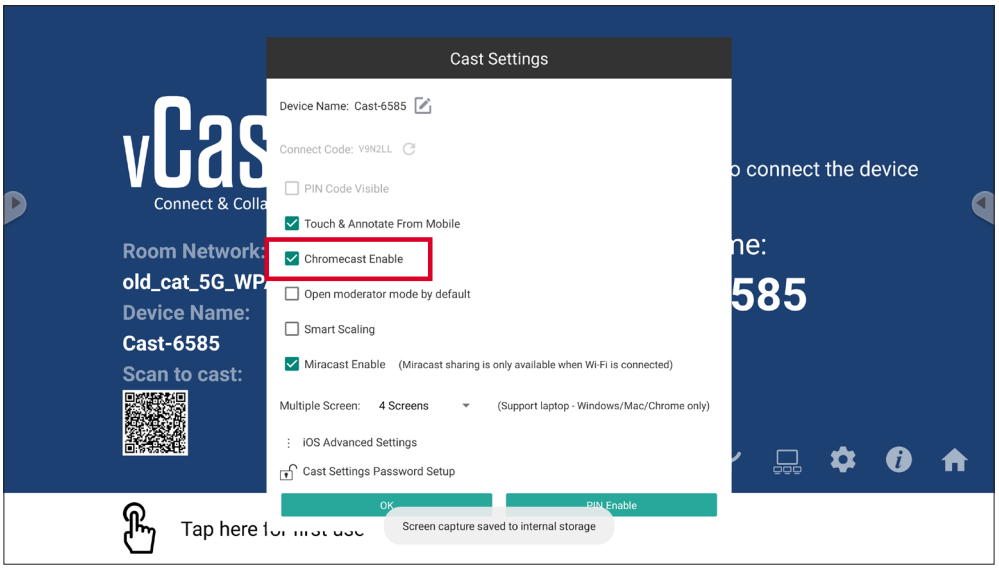
NOTE: Chromecast does not support password protection or multiple-screen casting.

1. Ensure the client device (e.g., laptop) is connected to the same network as the ViewBoard.

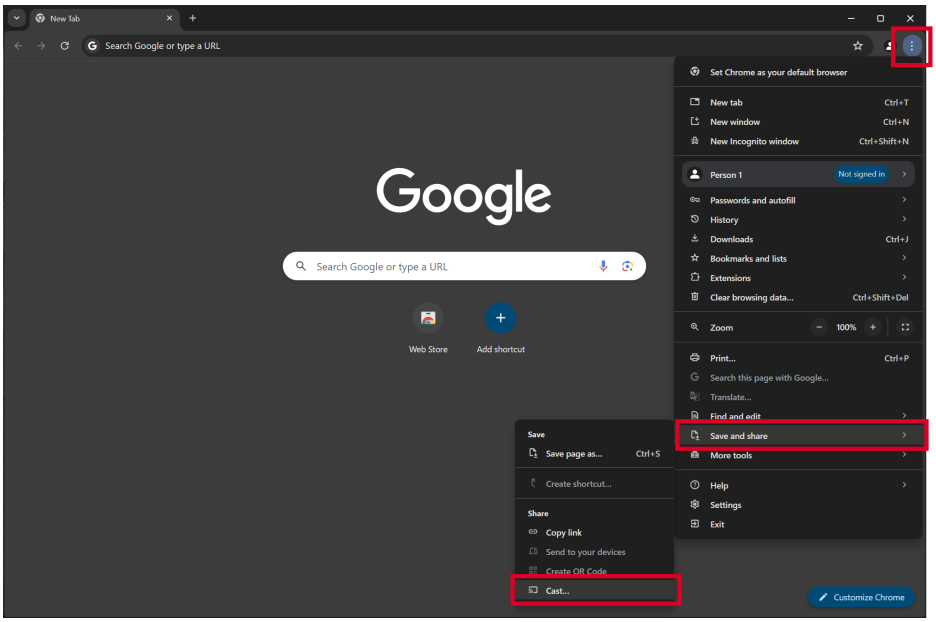
NOTE: The network name can be found under **Room Network**.

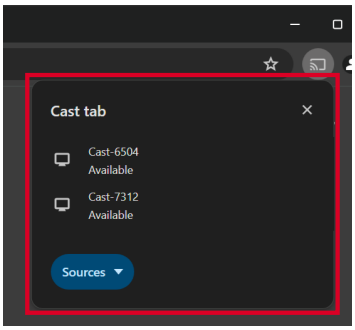


2. Ensure the **Chromecast Enable** checkbox is selected in the vCast settings.



3. In the Chrome browser, go to: **Settings** > **Save and share** > **Cast...** > Select the screen to cast to.





Casting with Miracast

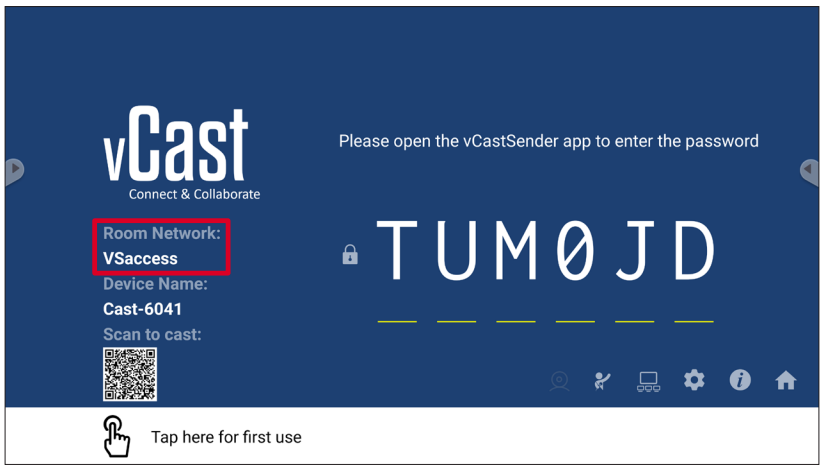
vCast supports native Miracast to cast content from Windows and Android devices to a ViewBoard when the Miracast feature is enabled.

NOTE:

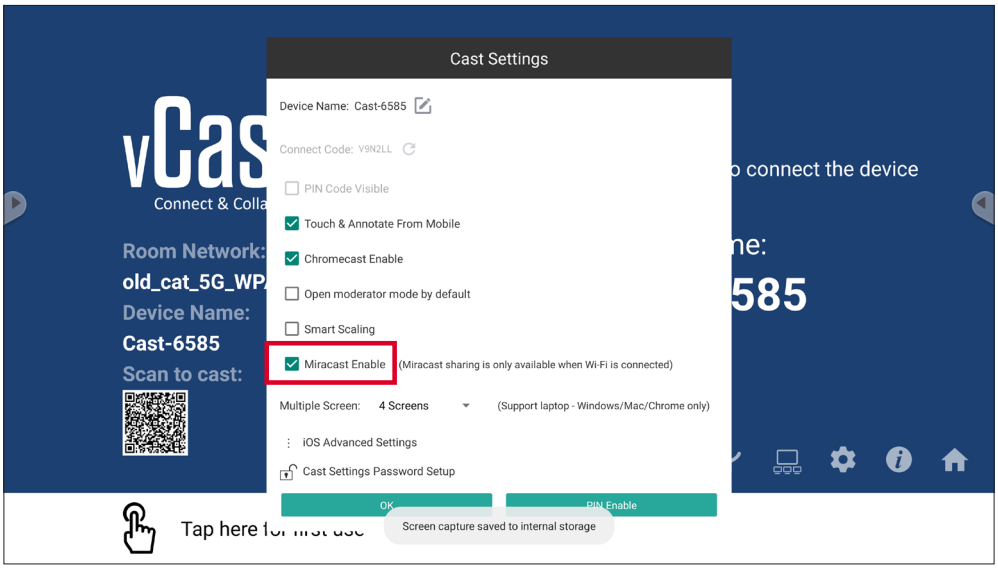
- Miracast does not support password protection or multiple-screen casting.
- Miracast sharing is only available over Wi-Fi.
- Miracast will automatically turn off after being idle for one hour.

1. Ensure the client device (e.g., laptop) is connected to the same network as the ViewBoard.

NOTE: The network name can be found under **Room Network**.



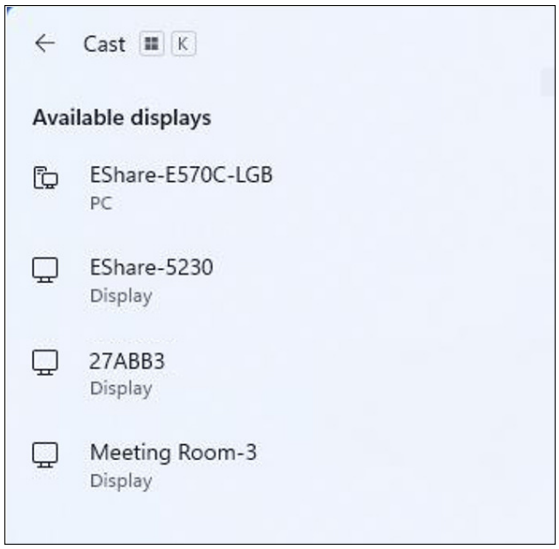
2. Ensure the **Miracast Enable** checkbox is selected in the vCast settings.



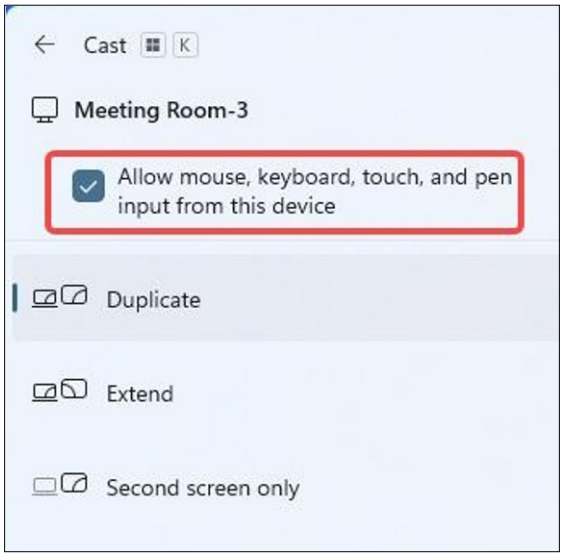
3. Please follow the below steps to cast:

For Windows devices:

1. On the Windows device, press Win + K and select the display to cast to.



2. Select the checkbox “Allow mouse, keyboard, touch, and pen input from the device” to enable the touch feedback feature.

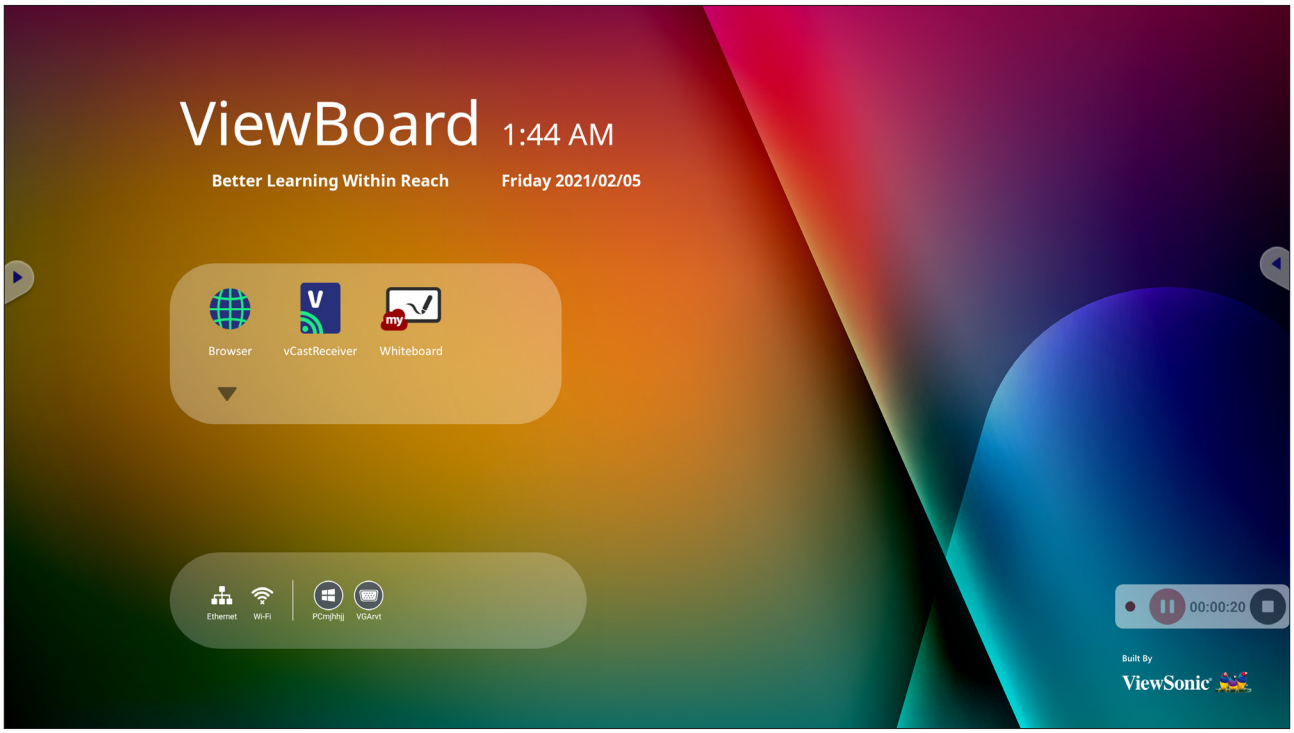


For Android devices:

On the Android device, directly select Cast/Smart View/Wireless Projection then select the display to cast to.

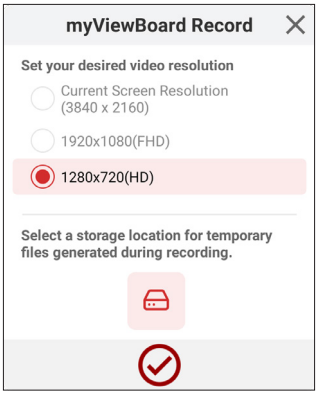
Screen Recorder

Capture everything that is displayed on screen in a video format.



To launch the Screen Recorder application:

1. Select the Screen Recorder icon in the application drawer.
2. Tap the record icon and select the preferred recording configurations. Then tap the check mark.

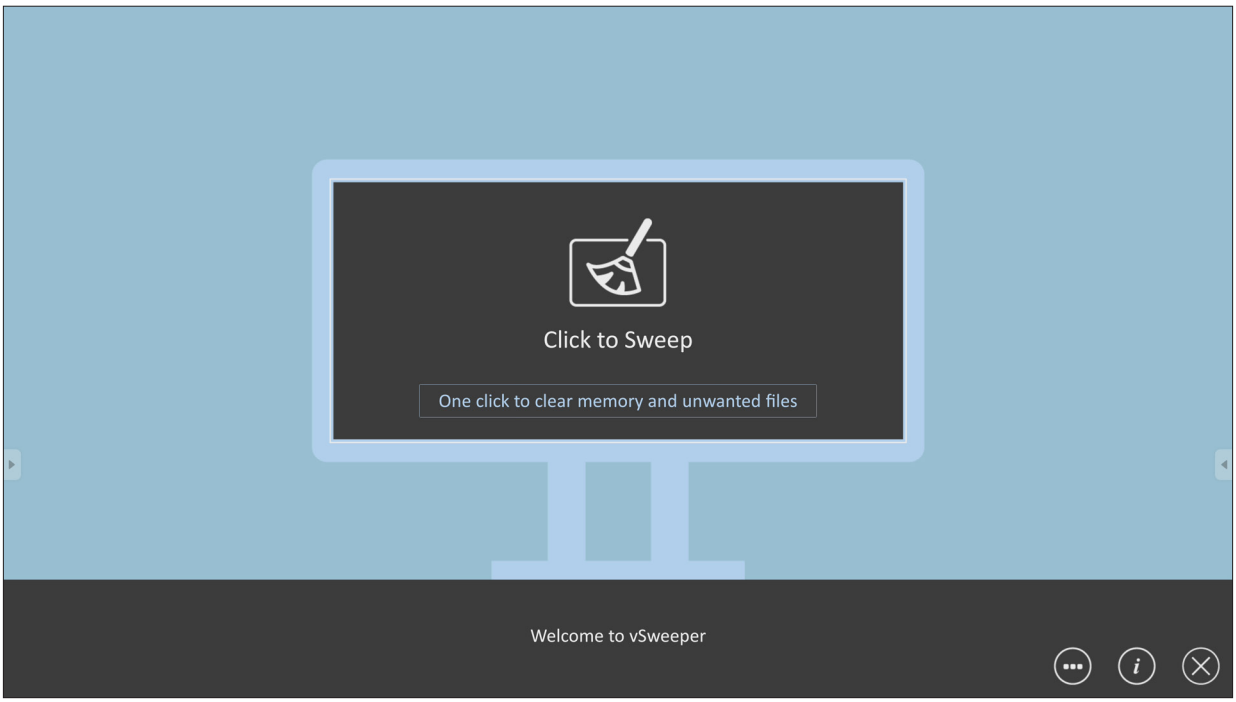


3. Select *Start Now* and a three (3) second countdown will begin. Screen recording will begin immediately after the countdown.
4. After stopping the recording, you will be able to preview the video, save it, or discard it.

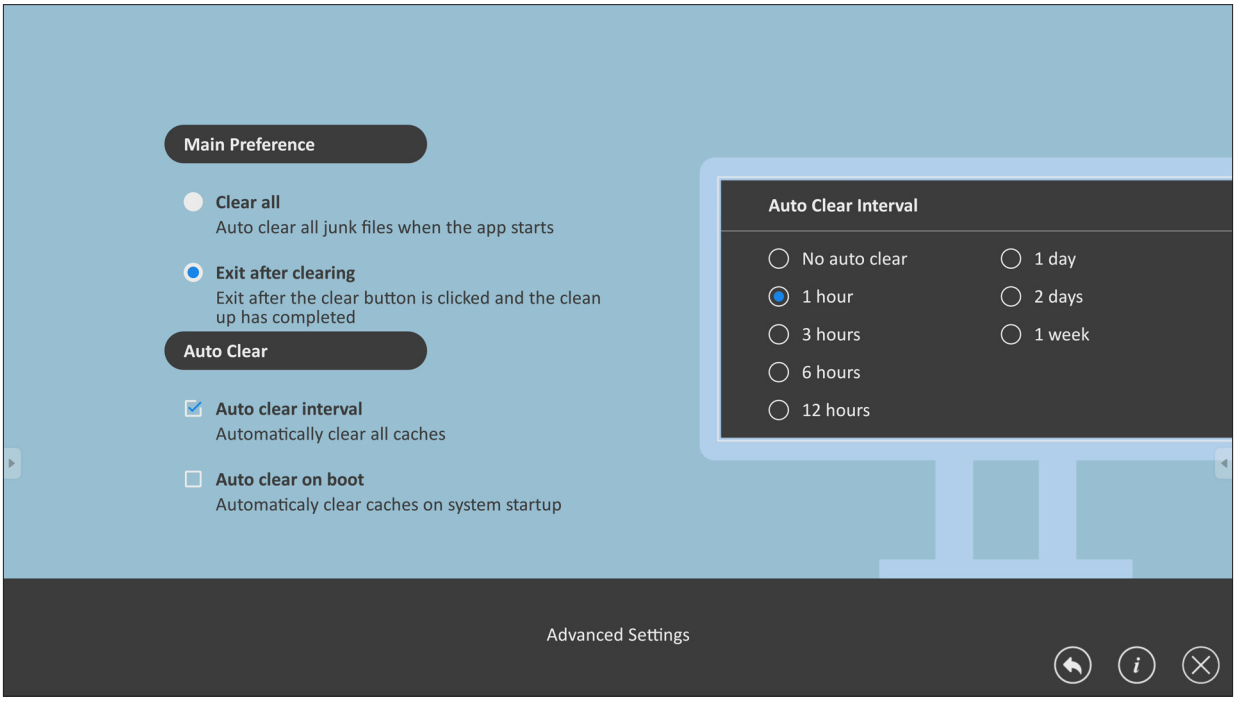
Other Default Applications

vSweeper

Clear unnecessary data and unwanted files.



Advanced Settings can also be customized to the user's needs.



Screen Lock

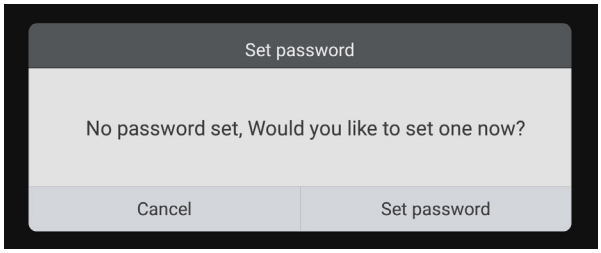
Set a screen lock password and enable screen lock.

NOTE: If the user forgets the password, use the remote control and press **INPUT-0-2-1-4** to restore the password to default.

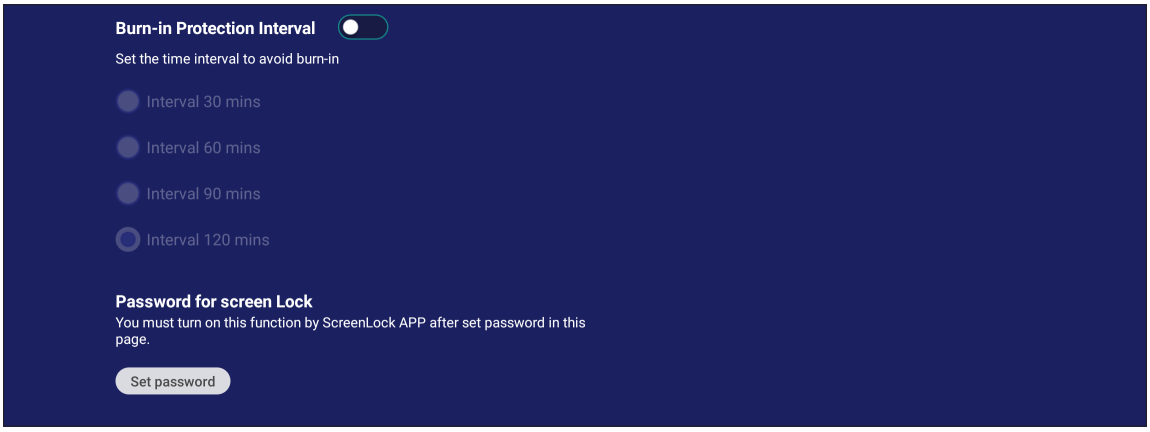
To set a screen lock password:

1. Go to: **Settings** > **Protection** > **Password for screen lock**, or select the Screen Lock icon in the apps list.

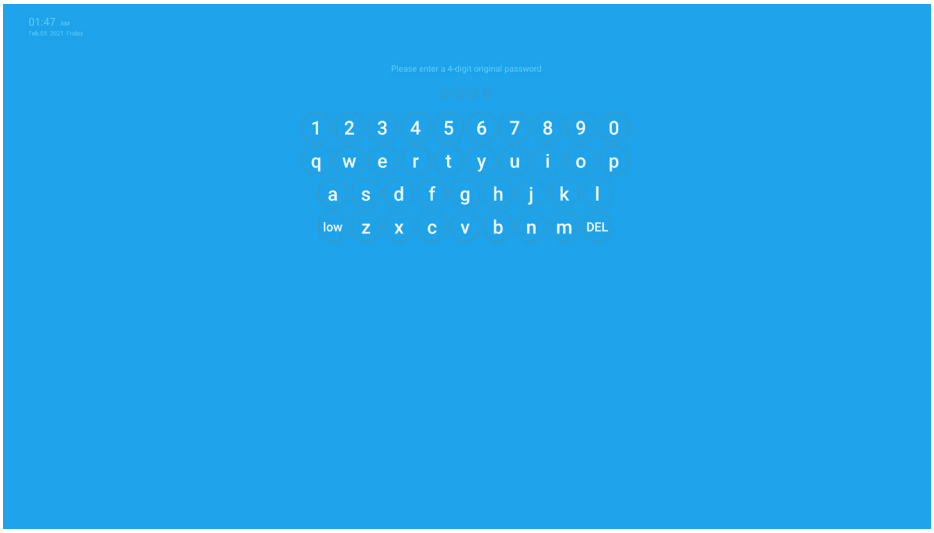
   NOTE: If you select the Screen Lock icon and no password has been set, the below prompt will appear:



2. Select **Set Password**, and input a new four (4) digit password. Then select **OK**.

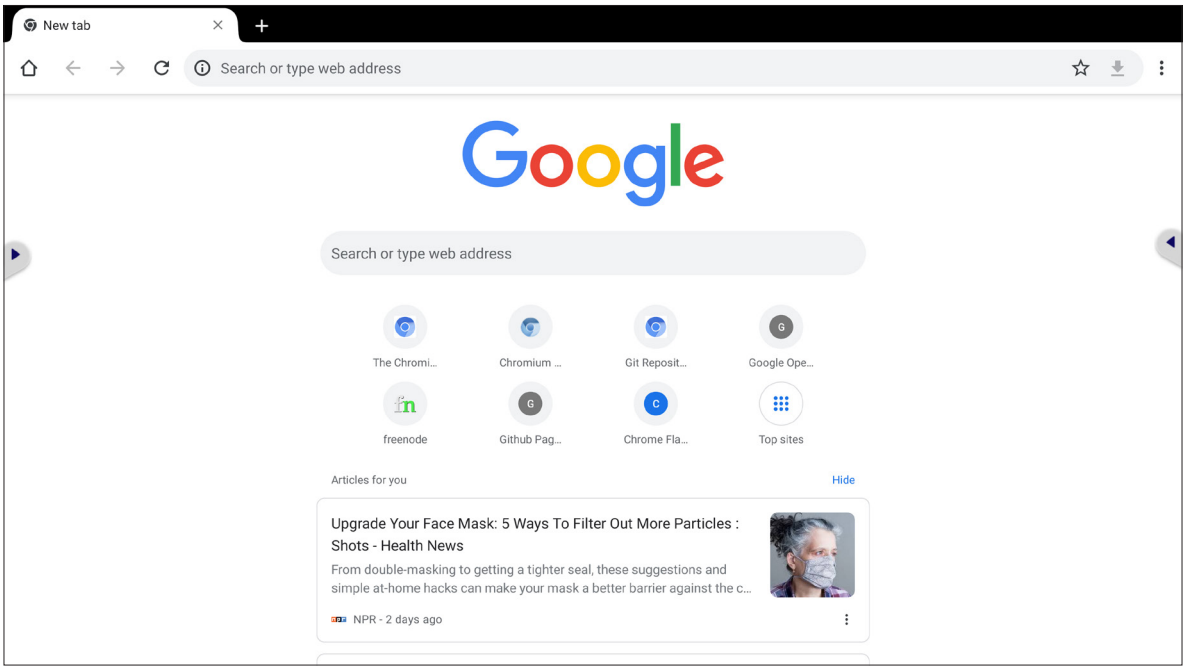


3. Now when selecting the Screen Lock icon, the screen will be locked.

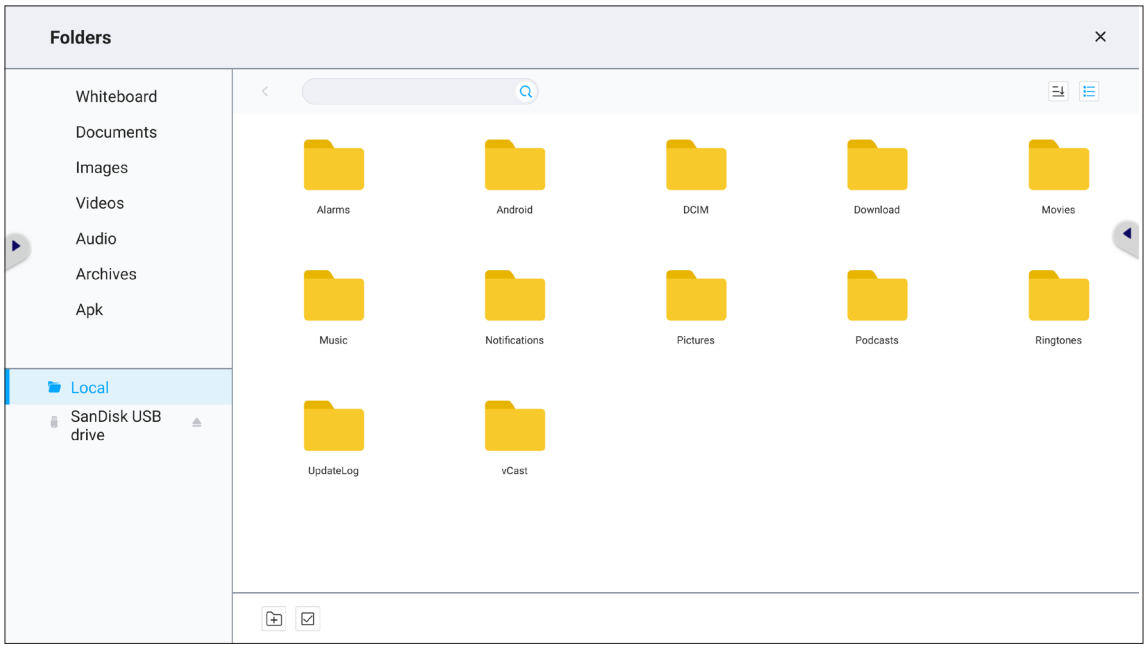


Chromium

Web browser for surfing the Internet.



Folders



1. Storage Device Display

Select the appropriate storage device.

2. Icons

Item		Description
	Exit	Click to exit.
	Thumbnail	Click to display file by thumbnail mode.
	List	Click to display file by list mode.
	Select	Click to select file.
	Add Folder	Click to add folder.
	Copy	Click to copy file.
	Paste	Click to paste file.
	Cut	Click to cut file.
	Delete	Click to delete file.
	Rename	Click to rename file.
	Cancel	Click to cancel.

3. File Type Menu

Item	Description
Whiteboard	Interactive whiteboard files
Documents	Office files
Images	Image files
Videos	Video files
Audio	Audio files
Archives	Compressed file
Apk	Apk files

RS-232 Protocol

This document describes the hardware interface spec and software protocols of the RS-232 interface communication between ViewSonic LFD and a PC or other control units with RS-232 protocol.

The protocol contains three command sections:

- Set-Function
- Get-Function
- Remote control pass-through mode

NOTE: Below, "PC" represents all the control units that can send or receive the RS-232 protocol command.

Description

RS-232 Hardware Specification

ViewSonic LFD communication port on the rear side:

1. Connector type: DSUB 9-Pin Male (female or 3.5 mm barrel connector)

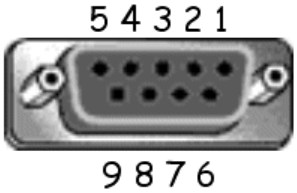
2. Use of crossover (null modem) cable for connection

3. Pin Assignment:

Male DSUB 9-Pin (preferred)



Female DSUB 9-Pin



Pin #	Signal	Remark
1	NC	
2	RXD	Input to Display
3	TXD	Output from Display
4	NC	
5	GND	
6	NC	
7	NC	
8	NC	
9	NC	
frame	GND	

3.5 mm barrel connector (alternative for limited space)



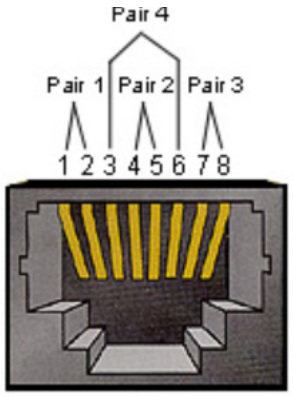
Item	Signal	Remark
Tip	TXD	Output from Display
Ring	RXD	Input to Display
Sleeve	GND	

LAN Hardware Specification

ViewSonic LFD communication port on the rear side:

1. Connector type: 8P8C RJ45

2. Pin Assignment:



Pin #	Signal	Remark
1	TX+	Output from Display
2	TX-	Output from Display
3	RX+	Input to Display
4	BI_D3+	For 1G case
5	BI_D3-	For 1G case
6	RX-	Input to Display
7	BI_D4+	For 1G case
8	BI_D4-	For 1G case
frame	GND	

RS-232 Communication Setting

- Baud Rate Select: 9600bps (fixed)
- Data bits: 8 bits (fixed)
- Parity: None (fixed)
- Stop Bits: 1(fixed)

LAN Communication Setting

- Type: Ethernet
- Protocol: TCP/IP
- Port: 5000 (fixed)
- WOL Port: 9 (fixed) for UDP *3.2.0
- Cross subnet: No
- Logon Credentials: No

Command Message Reference

PC sends to LFD command packet followed by “CR”. Every time PC sends control command to Display, the Display shall respond as follows:

1. If the message is received correctly it will send “+” (02Bh) followed by “CR” (00Dh)

2. If the message is received incorrectly it will send “-” (02Dh) followed by “CR” (00Dh)

Protocol

Set-Function Listing

The PC can control the Display for specific actions. The Set-Function command allows you to control the Display behavior at a remote site through the RS-232 port. The Set-Function packet format consists of 9 bytes.

Set-Function Description:

Length: Total Byte of Message excluding "CR"

LFD ID Identification for each of Display (01~98; default is 01)
ID "99" means to apply the set command for all connected displays. Under such circumstances, only ID#1 display has to reply.
The LFD ID can be set via the OSD menu for each Display.

Command Type Identify command type,
"s" (0x73h): Set Command
"+" (0x2Bh): Valid command Reply
"-" (0x2Dh): Invalid command Reply

Command: Function command code: One byte ASCII code.

Value[1~3]: Three bytes ASCII that defines the value.

CR 0x0D

Set-Function Format

Send: (Command Type="s")

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Byte Count	1 Byte	2 Byte	1 Byte	1 Byte	1 Byte	1 Byte	1 Byte	1 Byte
Bytes order	1	2~3	4	5	6	7	8	9

Reply: (Command Type="+" or "-")

Name	Length	ID	Command Type	CR
Byte Count	1 Byte	2 Byte	1 Byte	1 Byte
Bytes order	1	2~3	4	5

NOTE: When PC applies command to all displays (ID=99), only the #1 set needs to reply by the name of ID=1.

Example 1: Set Brightness as 76 for Display (#02) and this command is valid

Send (Hex Format)

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x32	0x73	0x24	0x30	0x37	0x36	0x0D

Reply (Hex Format)

Name	Length	ID	Command Type	CR
Hex	0x34	0x30 0x32	0x2B	0x0D

Example 2: Set Brightness as 75 for Display (#02) and this command is NOT valid

Send (Hex Format)

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x32	0x73	0x24	0x30	0x37	0x35	0x0D

Reply (Hex Format)

Name	Length	ID	Command Type	CR
Hex	0x34	0x30 0x32	0x2D	0x0D

Set-Function Table

A. Basic Function

Set Function	Length	ID	Command	Command		Value Range	Comments
			Type (ASCII)	Code (ASCII)	Code (Hex)	(Three ASCII bytes)	
Power on *3.2.1/ off (standby)	8		s	!	21	000: STBY 001: ON	1. The Power-on via LAN control may works only under specific mode. To see display UG for details. *3.1.1 2. “WOL by MAC address” may available as alternative.*3.2.1
Input Select	8		s	“	22	004: HDMI1 014: HDMI2 024: HDMI 006: VGA 007: Slot-in PC (OPS) 009: DP 019: Type-C *3.2.4 00A: Embedded/ Main (Android)	1. No need for USB 2. For the case of two more same sources, the 2nd digital is used to indicate the extension. 3. The HEX of 00A is 30 30 41.
Brightness	8		s	$	24	000 ~ 100 900: Bright down (-1) 901: Bright up (+1) *3.1.1	
Backlight *3.2.0	8		A	B	42	000 ~ 100	1. For Android platform whose main mode is controlled by backlight and the other sources are controlled by brightness. 2. Derived from Color calibration. *3.2.0
Power lock	8		s	4	34	000: Unlock 001: Lock	*See note in details
Volume	8		s	5	35	000 ~ 100 900: Volume down(-1) 901:Volume up(+1)	
Mute	8		s	6	36	000: OFF 001: ON (mute)	
Button lock	8		s	8	38	000: Unlock 001: Lock	*See note in details
Menu lock	8		s	>	3E	000: Unlock 001: Lock	*See note in details

Set Function	Length	ID	Command	Command		Value Range	Comments
Number *3.1.1	8		s	@	40	000~009	
Key Pad *3.1.1	8		s	A	41	000: UP 001: DOWN 002: LEFT 003: RIGHT 004: ENTER 005: INPUT 006: MENU/(EXIT) 007: EXIT	
Remote Control	8		s	B	42	000: Disable 001: Enable 002: Pass through	**Disable**: RCU will be no function **Enabled**: RCU controls normally **Pass through**: Display will bypass the RC code to connected device via the RS-232 port, but not react itself.
Restore default	8		s	~	7E	000	Recover to factory setting

B. Optional Function

Set Function	Length	ID	Command	Command		Value Range	Comments
			Type (ASCII)	Code (ASCII)	Code (Hex)	(Three ASCII bytes)	
Contrast	8		s	#	23	000 ~ 100	
Sharpness	8		s	%	25	000 ~ 100	
Color	8		s	&	26	000 ~ 100	
Tint	8		s	‘	27	000 ~ 100	
Backlight On_Off *3.2.3	8		s	(	29	000: Off 001: On	
Color mode	8		s	)	29	000: Normal 001: Warm 002: Cold 003: Personal	
Freeze On_Off *3.2.5	8		s	*	2A	000: Off 001: On	
Bass	8		s	.	2E	000 ~ 100	
Treble	8		s	/	2F	000 ~ 100	
Balance	8		s	0	30	000 ~ 100	050 is central
Picture Size	8		s	1	31	000: FULL (16:9) 001: NORMAL (4:3) 002: REAL (1:1) *3.1.0	
OSD language	8		s	2	32	000: English 001: French 002: Spanish	Could be extended for more supported languages by model
Date: Year	8		s	V	56	Y17~Y99	Last 2 digits (20)17~(20)99
Date: Month	8		s	V	56	M01~M12	2 digits
Date: Day	8		s	V	56	D01~D31	2 digits
Time: Hour	8		s	W	57	H00~H23	24-hr format. 2 digits.
Time: Min	8		s	W	57	M00~M59	2 digits
Time: Sec	8		s	W	57	S00~S59	2 digits
Customized Hot Keys *3.2.6	8		s	X	58	001~999 001: Open MVBA app *3.2.6	

Appendix

Specifications

Item	Category	Specifications		
Model	P/N.	IFP6552-1A IFP6552-1B	IFP7552-1A IFP7552-1B	IFP8652-1A IFP8652-1B
	No.	VS18373	VS18374	VS18375
Screen Size		65.5”	75.5”	85.6”
Input Signal		3 x HDMI 1 x VGA 1 x DisplayPort 1 x USB Type-C 1 x Audio In 1 x LAN (RJ45) 4 x USB Type-A (3.0) 1 x USB Type-A (2.0)		
Output Signal		1 x HDMI 1 x Earphone 1 x SPDIF 2 x USB Type-B		
Speaker Output		15W x 2, 15W Subwoofer x 1		
RS-232		RS-232 Communication		
Power	Voltage	100V-240V AC 50/60Hz		
Operating Conditions	Temperature	32° F to 104° F (0° C to 40° C)		
	Humidity	20%~80% non-condensing		
	Altitude	< 3,000 m		
Storage Conditions	Temperature	14° F to 140° F (-10° C to 60° C)		
	Humidity	10%~80% non-condensing		
	Altitude	< 3,000 m		
Dimensions	Physical W x H x D (mm)	1509.1 x 955.4 x 119.1	1720.1 x 1069.6 x 118.4	1966.4 x 1204.4 x 118.4
	Physical W x H x D (in)	59.41 x 37.61 x 4.69	67.72 x 42.11 x 4.66	77.42 x 47.42 x 4.66
Weight	Physical (kg)	43.9	56.8	71
	Physical (lbs)	96.78	125.22	156.53
Power Consumption	On	190W (Typ.)	227W (Typ.)	332W (Typ.)
	Off	< 0.5W	< 0.5W	< 0.5W

NOTE: Product specifications are subject to change without notice.

Display Modes

VGA Mode

Resolution	Refresh Rate (@)
640 x 480	60Hz, 72Hz, 75Hz
720 x 400	85Hz
800 x 600	56Hz, 60Hz, 72Hz, 75Hz
832 x 624	75Hz
1024 x 768	60Hz, 70Hz, 75Hz
1280 x 1024	60Hz, 75Hz
1600 x 1200	60Hz
1920 x 1080	60Hz
1920 x 1200	60Hz

HDMI/DisplayPort/Type-C Mode

Resolution	Refresh Rate (@)
640 x 480	60Hz, 72Hz, 75Hz
720 x 400	85Hz
800 x 600	56Hz, 60Hz, 72Hz, 75Hz
832 x 624	75Hz
1024 x 768	60Hz, 70Hz, 75Hz
1280 x 1024	60Hz, 75Hz
1600 x 1200	60Hz
1920 x 1080	60Hz
1920 x 1200	60Hz
3840 x 2160	25Hz, 30Hz, 50Hz, 60Hz

Troubleshooting

This section describes some common problems that you may experience when using the ViewBoard.

Problem or Issue	Possible Solutions
Remote Control is not working	**1.** Check whether something is obstructing the display's remote control receiver. **2.** Check whether the batteries in the remote control are installed correctly. **3.** Check whether the batteries need to be replaced.
The unit turns off unexpectedly	**1.** Check whether Sleep mode is enabled. **2.** Check if there is a power outage in your area. **3.** Turn on the display and see if the problem is with the signal and control system.

PC Mode

Problem or Issue	Possible Solutions
No PC signal	**1.** Check the display settings. **2.** Check the display resolution. **3.** Adjust the Hs &Vs (synchronization) settings using the OSD menu.
Background streaking	**1.** Choose auto adjust. **2.** Adjust clock and phase.
False color	**1.** Check the VGA connection. **2.** Adjust the chroma, brightness, and contrast settings.
Unsupported format	**1.** Choose auto adjust. **2.** Adjust clock and phase settings.

Touch Function

Problem or Issue	Possible Solutions
Touch function does not work	**1.** Check that drivers are installed correctly. **2.** Reinstall driver(s). **3.** Check setup and align it. **4.** Check whether the touch pen is working properly.

Video Not Working Properly

Problem or Issue	Possible Solutions
No picture/ No sound	**1.** Check the Power status. **2.** Check the signal cable. **3.** Check that the internal PC is installed correctly.
Picture is unclear or cuts in and out	**1.** Check the signal cable. **2.** Check if other electronics are interrupting the signal.
Poor picture	**1.** Adjust chroma, brightness, and contrast settings in the menu. **2.** Check the signal cable.

Audio Not Working Properly

Problem or Issue	Possible Solutions
No sound	**1.** Press the Mute/Unmute button. **2.** Adjust the volume. **3.** Check the audio cable.
One speaker only	**1.** Adjust the sound balance in the menu. **2.** Check the sound control panel settings of the computer. **3.** Check the audio cable. **NOTE:** SPDIF and Earphone only work in ViewBoard Player, HDMI, Type-C, and DisplayPort (DP) channels.

Maintenance

General Precautions

- Make sure the device is turned off and the power cable is unplugged from the power outlet.
- Never spray or pour any liquid directly onto the screen or case.
- Handle the device with care, as a darker-colored device, if scuffed, may show marks more clearly than a lighter-colored device.
- Do not use the system continuously for long periods of time.

Cleaning the Screen

- Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
- If the screen is still not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth; then wipe the screen.

Cleaning the Case

- Use a soft, dry cloth.
- If the case is still not clean, apply a small amount of non-ammonia, non-alcohol based, mild non-abrasive detergent onto a clean, soft, lint-free cloth, then wipe the surface.

Disclaimer

- ViewSonic® does not recommend the use of any ammonia or alcohol-based cleaners on the display screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the device.
- ViewSonic® will not be liable for damage resulting from use of any ammonia or alcohol-based cleaners.

NOTE: If condensation appears between the glass and the panel, keep the display turned on until the moisture disappears.

Regulatory and Service Information

Compliance Information

This section addresses all connected requirements and statements regarding regulations. Confirmed corresponding applications shall refer to nameplate labels and relevant markings on the unit.

FCC Compliance Statement

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Industry Canada Statement

CAN ICES-003(B) / NMB-003(B)

CE Conformity for European Countries

CE The device complies with the EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU.

The following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE). The mark indicates the requirement NOT to dispose of the equipment as unsorted municipal waste, but use the return and collection systems according to local law.



Declaration of RoHS2 Compliance

This product has been designed and manufactured in compliance with Directive 2011/65/EU of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS2 Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium ($Cr6^{+}$)	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%
Bis (2-ethylhexyl) phthalate (DEHP)	0.1%	< 0.1%
Butyl benzyl phthalate (BBP)	0.1%	< 0.1%
Dibutyl phthalate (DBP)	0.1%	< 0.1%
Diisobutyl phthalate (DIBP)	0.1%	< 0.1%

Certain components of products as stated above are exempted under the Annex III of the RoHS2 Directives as noted below:

- Lead as an alloying element in aluminium containing up to 0.4% lead by weight.
- Copper alloy containing up to 4% lead by weight.
- Lead in high melting temperature type solders (i.e., lead-based alloys containing 85% by weight or more lead).
- Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, (e.g., piezoelectronic devices, or in a glass or ceramic matrix compound).

ENERGY STAR® statement

ENERGY STAR® is a U.S. Environmental Protection Agency voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. Products that earn the ENERGY STAR® prevent greenhouse gas emissions by meeting strict energy efficiency criteria or requirements set by the U.S. Environmental Protection Agency.

As an ENERGY STAR® Partner, ViewSonic is determined to meet the ENERGY STAR® Guidelines and mark all certified models with the ENERGY STAR® logo.

The following logo appears on all ENERGY STAR®-certified models:

NOTE: The power management features significantly reduce energy consumption when the product is not in use. Power management allows the device to automatically enter a low power “sleep” mode after a defined period of inactivity. And the power management features also enter Sleep Mode or Off Mode within 5 minutes of being disconnected from a host computer. Please note any change in energy settings will increase energy consumption.

Indian Restriction of Hazardous Substances

Restriction on Hazardous Substances statement (India). This product complies with the “India E-waste Rule 2011” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

Product Disposal at End of Product Life

ViewSonic® respects the environment and is committed to working and living green. Thank you for being part of Smarter, Greener Computing. Please visit the ViewSonic® website to learn more.

USA & Canada:

https://www.viewsonic.com/us/go-green-with-viewsonic

Europe:

https://www.viewsonic.com/eu/environmental-social-governance/recycle

Taiwan:

https://recycle.moenv.gov.tw/

For EU users, please contact us for any safety/accident issue experienced with this product:

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VESA is a registered trademark of the Video Electronics Standards Association. DPMS, DisplayPort, and DDC are trademarks of VESA.

ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency (EPA).

As an ENERGY STAR® partner, ViewSonic® Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Disclaimer: ViewSonic® Corporation shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from furnishing this material, or the performance or use of this product.

In the interest of continuing product improvement, ViewSonic® Corporation reserves the right to change product specifications without notice. Information in this document may change without notice.

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Customer Service

For technical support or product service, see the table below or contact your reseller.

NOTE: You will need the product's serial number.

Country/ Region	Website	Country/ Region	Website
Asia Pacific & Africa			
Australia	www.viewsonic.com/au/	Bangladesh	www.viewsonic.com/bd/
中国 (China)	www.viewsonic.com.cn	香港 (繁體中文)	www.viewsonic.com/hk/
Hong Kong (English)	www.viewsonic.com/hk-en/	India	www.viewsonic.com/in/
Indonesia	www.viewsonic.com/id/	Israel	www.viewsonic.com/il/
日本 (Japan)	www.viewsonic.com/jp/	Korea	www.viewsonic.com/kr/
Malaysia	www.viewsonic.com/my/	Middle East	www.viewsonic.com/me/
Myanmar	www.viewsonic.com/mm/	Nepal	www.viewsonic.com/np/
New Zealand	www.viewsonic.com/nz/	Pakistan	www.viewsonic.com/pk/
Philippines	www.viewsonic.com/ph/	Singapore	www.viewsonic.com/sg/
臺灣 (Taiwan)	www.viewsonic.com/tw/	ประเทศไทย	www.viewsonic.com/th/
Việt Nam	www.viewsonic.com/vn/	South Africa & Mauritius	www.viewsonic.com/za/
Americas			
United States	www.viewsonic.com/us	Canada	www.viewsonic.com/us
Latin America	www.viewsonic.com/la		
Europe			
Europe	www.viewsonic.com/eu/	France	www.viewsonic.com/fr/
Deutschland	www.viewsonic.com/de/	Қазақстан	www.viewsonic.com/kz/
Россия	www.viewsonic.com/ru/	España	www.viewsonic.com/es/
Türkiye	www.viewsonic.com/tr/	Україна	www.viewsonic.com/ua/
United Kingdom	www.viewsonic.com/uk/		

Limited Warranty

ViewSonic® Smart White Board

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic® will, at its sole option, and as your sole remedy, repair or replace the product with a similar product. Replacement Product or parts may include remanufactured or refurbished parts or components. The repair or replacement unit or parts or components will be covered by the balance of the time remaining on the customer's original limited warranty and the warranty period will not be extended. ViewSonic® provides no warranty for any third-party software whether included with the product or installed by the customer, installation of any unauthorized hardware parts or components (e.g. Projector Lamps). (Please refer to: "What the warranty excludes and does not cover" section).

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

- Any product on which the serial number has been defaced, modified, or removed.
- Damage, deterioration, or malfunction resulting from:
  - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - » Repair or attempted repair by anyone not authorized by ViewSonic®.
  - » Damage to or loss of any programs, data, or removable storage media.
  - » Normal wear and tear.
  - » Removal or installation of the product.
- Software or data loss occurring during repair or replacement.
- Any damage of the product due to shipment.
- Causes external to the product, such as electric power fluctuations or failure.
- Use of supplies or parts not meeting ViewSonic's specifications.
- Failure of owner to perform periodic product maintenance as stated in the User Guide.
- Any other cause which does not relate to a product defect.

- Damage caused by static (non-moving) images displayed for lengthy periods of time (also referred to as image burn-in).
- Software - Any third-party software included with the product or installed by the customer.
- Hardware/Accessories/Parts/Components – Installation of any unauthorized hardware, accessories, consumable parts or components (e.g. Projector Lamps).
- Damage to, or abuse of, the coating on the surface of the display through inappropriate cleaning as described in the product User Guide.
- Removal, installation, and set-up service charges, including wall-mounting of the product.

How to get service:

- For information about receiving service under warranty, contact ViewSonic® Customer Support (Please refer to the "Customer Service" page). You will need to provide your product's serial number.
- To obtain warranty service, you will be required to provide: (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
- Take or ship the product, freight prepaid, in the original container to an authorized ViewSonic® service center or ViewSonic®.
- For additional information or the name of the nearest ViewSonic® service center, contact ViewSonic®.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic® shall not be liable for:

- Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
- Any other damages, whether incidental, consequential or otherwise.
- Any claim against the customer by any other party.
- Repair or attempted repair by anyone not authorized by ViewSonic®.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic® products sold outside of the U.S.A. and Canada, contact ViewSonic® or your local ViewSonic® dealer.

The warranty period for this product in mainland China (Hong Kong, Macao, and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.

For users in Europe and Russia, full details of warranty provided can be found at: http://www.viewsonic.com/eu/ under "Support/Warranty Information".

Mexico Limited Warranty

ViewSonic® Smart White Board

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic® will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components & accessories.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

- Any product on which the serial number has been defaced, modified or removed.
- Damage, deterioration, or malfunction resulting from:
  - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, unauthorized attempted repair, or failure to follow instructions supplied with the product.
  - » Causes external to the product, such as electrical power fluctuations or failure.
  - » Use of supplies or parts not meeting ViewSonic®'s specifications.
  - » Normal wear and tear.
  - » Any other cause which does not relate to a product defect.
- Any product exhibiting a condition commonly known as "image burn-in" which results when a static image is displayed on the product for an extended period of time.
- Removal, installation, insurance, and set-up service charges.

How to get service:

For information about receiving service under warranty, contact ViewSonic® Customer Support (Please refer to the attached "Customer Service" page). You will need to provide your product's serial number, so please record the product information in the space provided below on your purchase for your future use. Please retain your receipt of proof of purchase to support your warranty claim.

For Your Records

Product Name: _____ Model Number: _____

Document Number: _____ Serial Number: _____

Purchase Date: _____ Extended Warranty Purchase? _____(Y/N)

If so, what date does warranty expire? _____

- To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
- Take or ship the product, in the original container packaging, to an authorized ViewSonic® service center.
- Round trip transportation costs for in-warranty products will be paid by ViewSonic®.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic®'s liability is limited to the cost of repair or replacement of the product. ViewSonic® shall not be liable for:

- Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
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