ViewSonic®

IFP53-ED 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. VS19955 | VS19956 | VS19957
P/N: IFP6553-ED | IFP6553-ED-M | IFP7553-ED | IFP7553-ED-M| IFP8653-ED | IFP8653-ED-M

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.

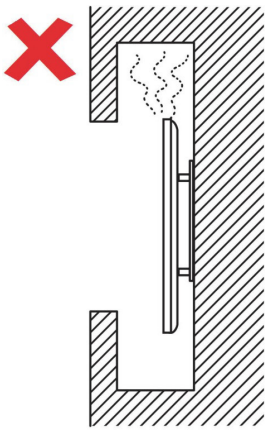
Once again, thank you for choosing ViewSonic®!

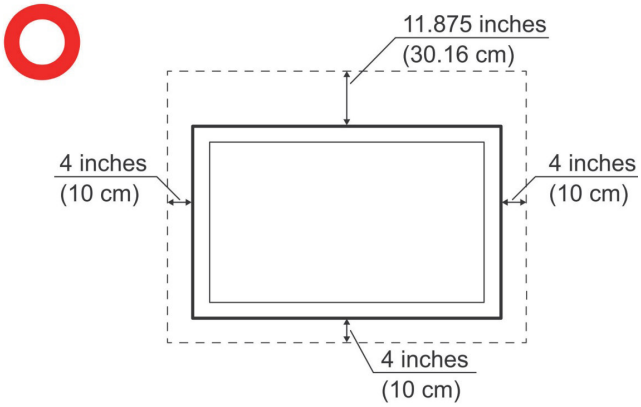
Safety Precautions

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.





- Refer all servicing to qualified service personnel. Service will be required when the unit has been damaged in any way, such as:
  - » if the power supply cord or plug is damaged
  - » if liquid is spilled onto or objects fall in the unit
  - » if the unit is exposed to moisture
  - » if the unit does not operate normally or has been dropped

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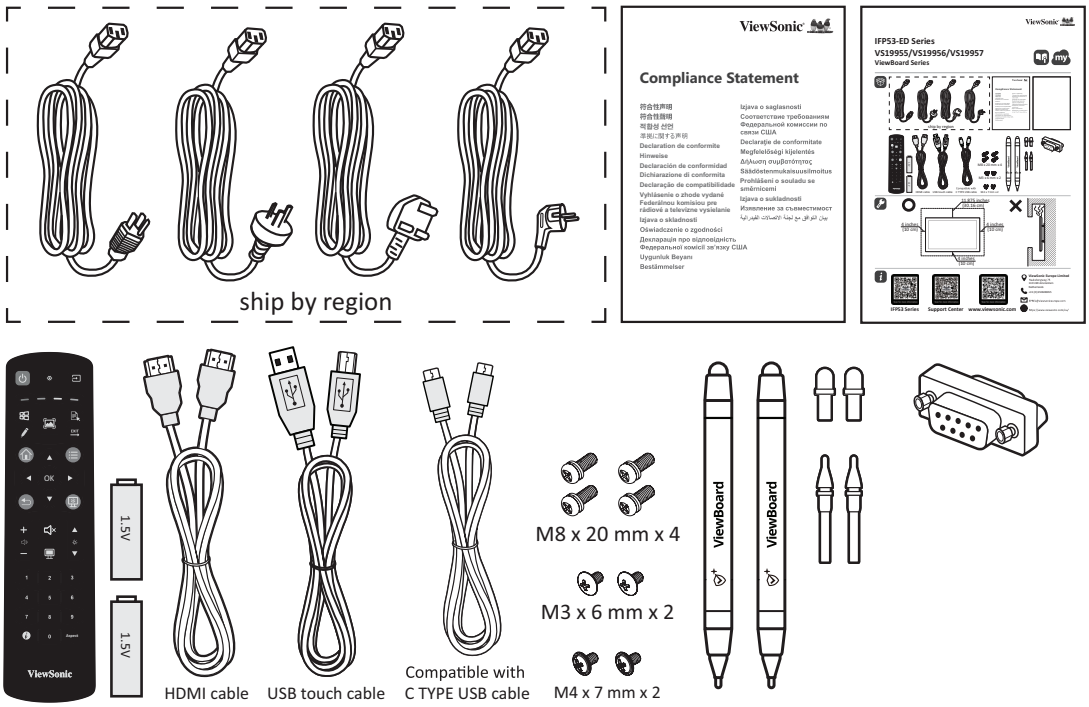
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Introduction

Package Contents



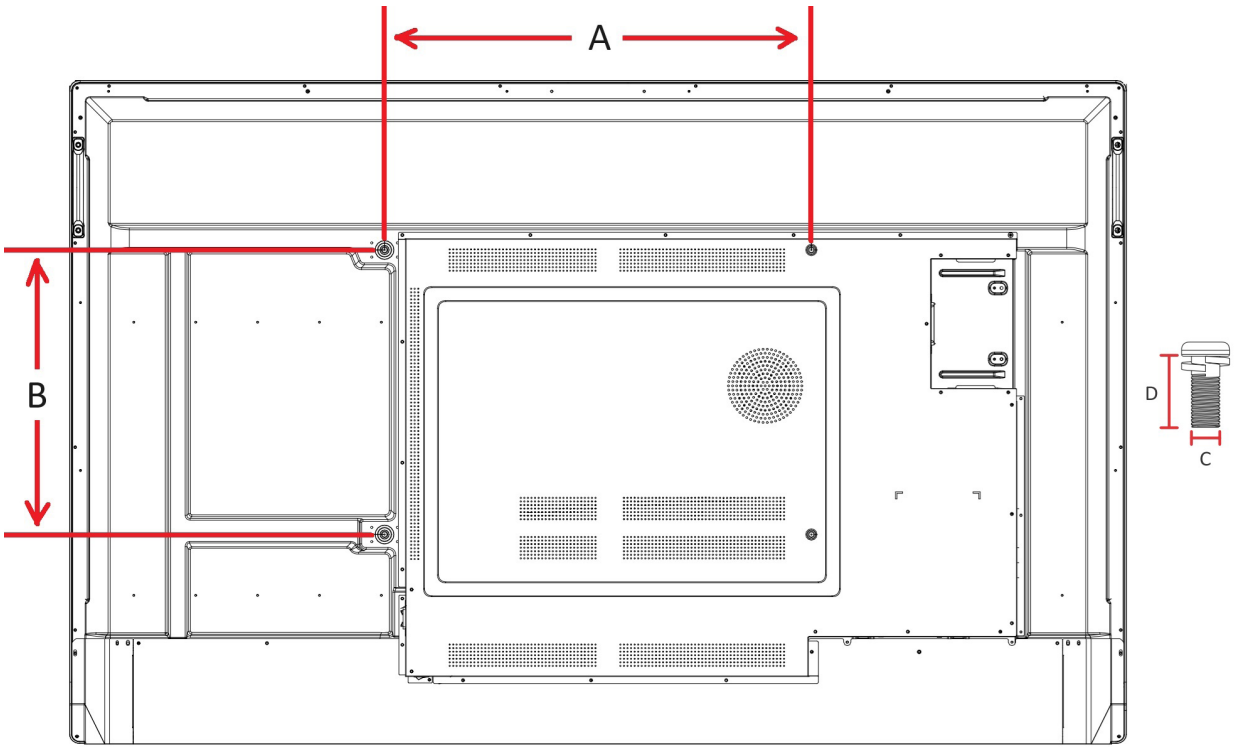
- AAA Battery
- Compliance Statement
- HDMI Cable (3 m)
- Power Cord (3 m)
- Quick Start Guide
- Remote Control
- 4 x Replacement Pen Nib
- USB Type C Cable (1.8 m)
- RS-232 Adapter
- 8 x Screw
- 2 x Touch Pen
- USB Touch Cable (3 m)

Note:

- The cables included in your package may vary depending on your country. Please contact your local reseller for more information.
- If there is an installation requirement for the UMB202 or VB-CAM-201, you may purchase the VB-WMK-002 mounting accessory and contact the after-sales service team to confirm the installation method.
- The IFP7553 does not support the VB-WMK-002. Please contact the after-sales service team to purchase a compatible mounting bracket.

Wall Mount Kit Specifications (VESA)

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

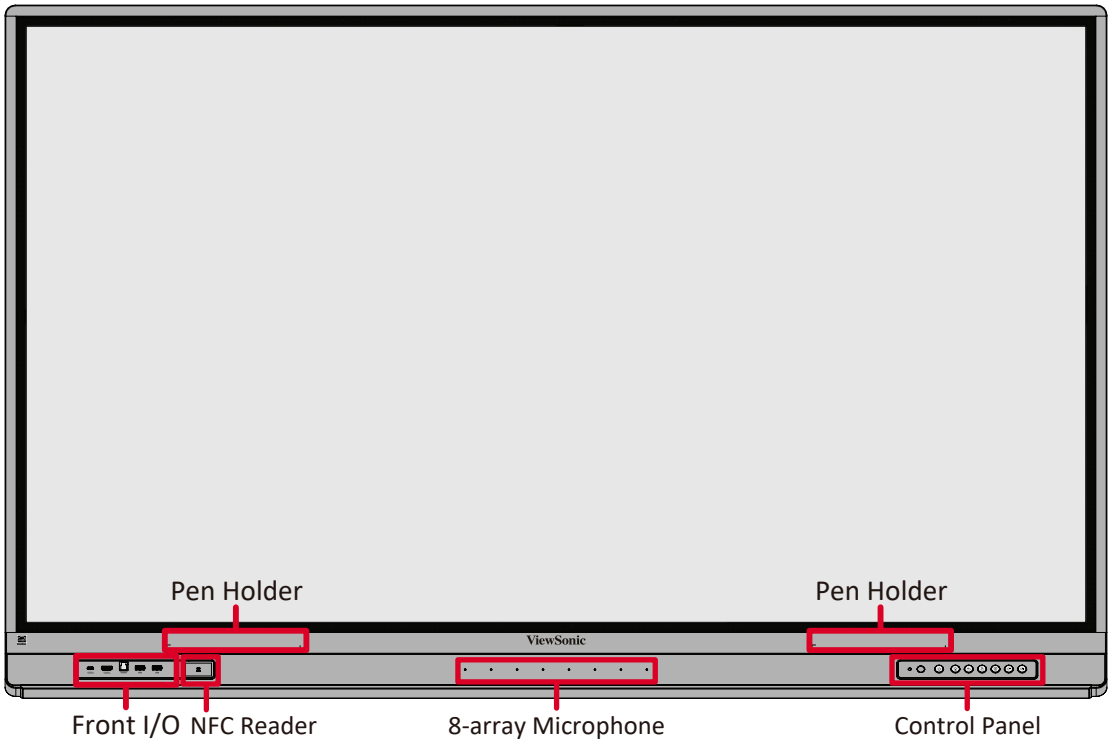


Model	VESA Spec. (A x B)	Standard Screw (C x D)	Quantity
IFP6553-ED IFP6553-ED-M	600 x 400 mm	M8 x 20 mm	4
IFP7553-ED IFP7553-ED-M	800 x 400 mm	M8 x 20 mm	4
IFP8653-ED IFP8653-ED-M	800 x 600 mm	M8 x 20 mm	4

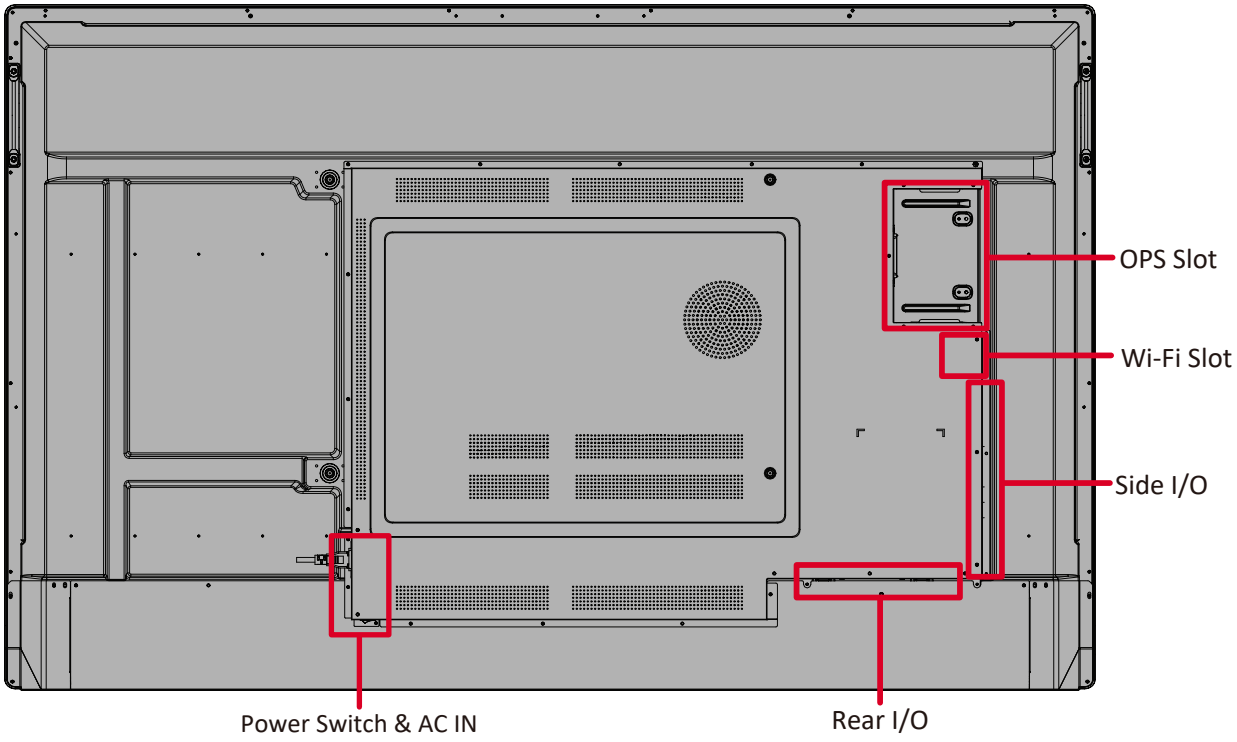
Note: Do not use screws that are longer than the standard dimension, as they may cause damage to the inside of the display.

Product Overview

Front View



Rear View



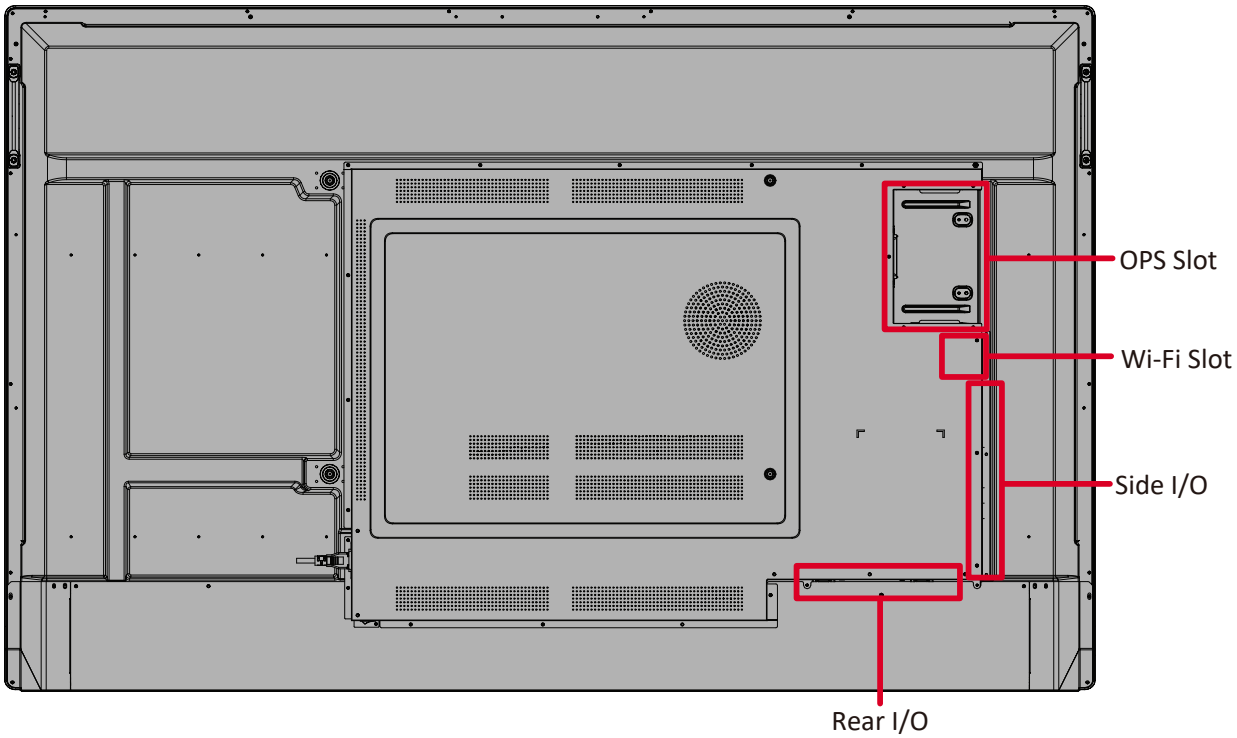
Control Panel



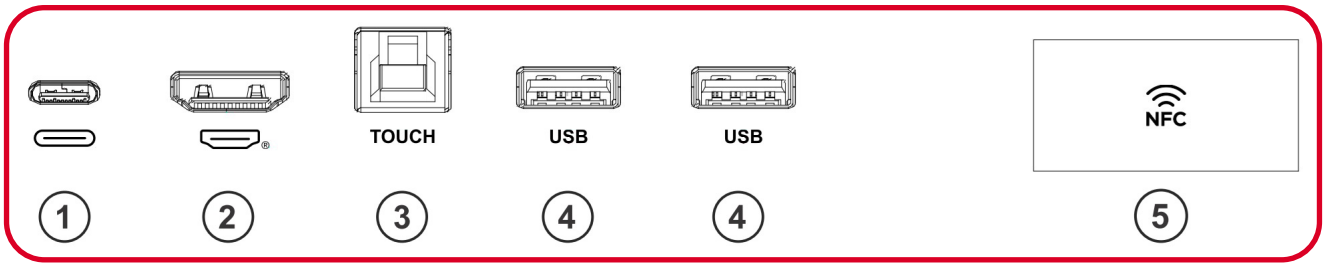
Number	Item	Description
1	○	Ambient light sensor.
2	◯	Remote control IR receiver.
3	⏻	• Power indicator light. • Press to turn on the display. • Once on, press again to turn on or off the backlight only. • Once on, press and hold to turn off the display.
4	⌂	Return to the ViewBoard's main interface.
5	⮌	Return to the previous interface level (i.e., go back to a previous screen).
6	☝	Enable or disable the touch screen function.
7	❄	Freeze the current image on the screen.
8	🔉	Decrease the sound level.
9	🔊	Increase the sound level.

I/O Panels



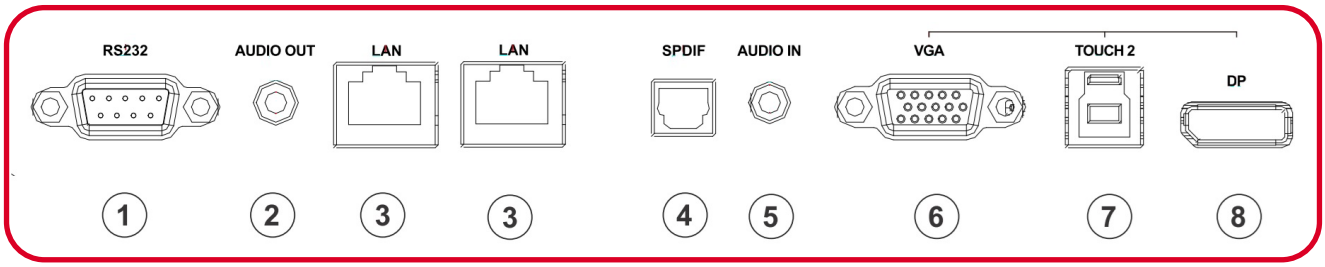


Front I/O



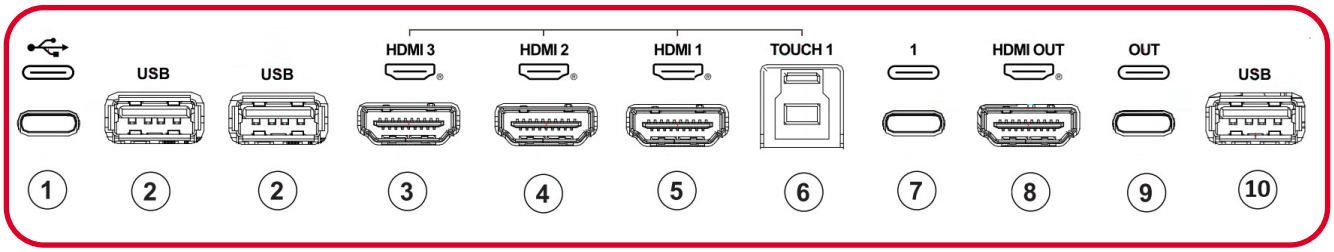
Number	Item	Description
1	(FRONT TYPE C)	• USB Type C input • USB 3.0 standard • Supports DP v. 1.2 with audio, video, and touch • Supports LAN by 10M/100M • Supports power charge up to 100W. Power charge supported: 5V/3A, 9V/3A, 15V/3A, 20V/3.25A, 20V/5A
2	(FRONT HDMI)	• HDMI input • Connect to a computer with HDMI output, set-top box, or other video device • Supports 4K display; HDMI v. 2.1; CEC
3	**TOUCH** (TOUCH 3)	• USB Type B • Touch signal output to external computer • After connection (with an external computer), the device connected to the **USB** port can directly be used by the external computer. **Note:** Pairs with the **FRONT HDMI** port ( ) next to it.
4	**USB**	• USB Type A input • USB 3.0 standard • Connect USB devices such as hard disks, keyboard, mouse, etc. • Automatically switches between the external computer and ViewBoard • Supports: 5V/0.9A (x2)
5	**NFC**	NFC reader

Rear I/O

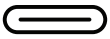


Number	Item	Description
1	**RS232**	Serial interface; used for mutual transfer of data between devices
2	**AUDIO OUT**	Audio output to an external speaker/headset
3	**LAN**	Standard RJ45 (10M/100M/1000M) Internet connection interface. Features hub support for network sharing.
4	**SPDIF**	Multichannel sound via optical signals.
5	**AUDIO IN**	External computer audio input
6	**VGA**	External computer video input
7	**TOUCH 2**	• USB Type B • Touch signal output to external computer • After connection (with an external computer), the device connected to the **USB** port can directly be used by the external computer **Note:** Pairs with the **VGA** and **DP** port.
8	**DP**	• DisplayPort input, v. 1.2 • Supports 4K display

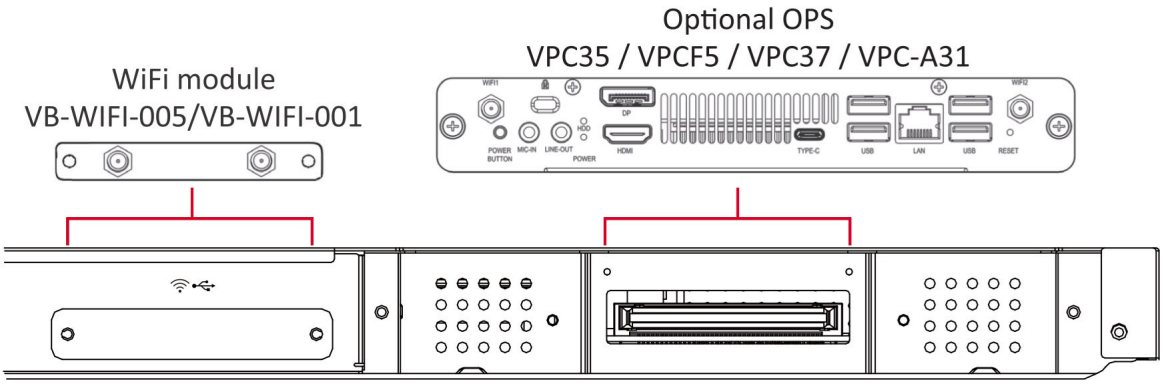
Side I/O



Number	Item	Description
1	**TYPE C Data**	• USB Type C • For data read/write only • USB 3.0 standard
2	**USB**	• USB Type A input • USB 3.0 standard • Connect USB devices such as hard disks, keyboard, mouse, etc. • Automatically switches between the external computer and ViewBoard • Supports: 5V/0.9A (x2)
3	**HDMI 3**	• HDMI input • Connect to a computer with HDMI output, set-top box, or other video device • Supports 4K display; HDMI v. 2.0; CEC; ARC
4	**HDMI 2**	• HDMI input • Connect to a computer with HDMI output, set-top box, or other video device • Supports 4K display; HDMI v. 2.0; CEC
5	**HDMI 1**	• HDMI input • Connect to a computer with HDMI output, set-top box, or other video device • Supports 4K display; HDMI v. 2.1; CEC
6	**TOUCH 1**	• USB Type B • Touch signal output to external computer • After connection (with an external computer), the device connected to the **USB** port can directly be used by the external computer **Note:** Pairs with the **HDMI 1/2/3** ports.

Number	Item	Description
7	 (Type C 1)	• USB Type C input • USB 3.0 standard • Supports DP v. 1.2 with audio, video, and touch • Supports power charge up to 100W. Power charge supported: 5V/3A, 9V/3A, 15V/3A, 20V/3.25A
8	**HDMI OUT**	Connect to devices with HDMI input function. Supports 1080p and 4K@60Hz. **Note:** Supported by select models.
9	**TYPE C OUT**	Connect to devices with Type C input function. Supports 1080p and 4K@60Hz. **Note:** Supported by select models.
10	**USB**	• USB Type A input • USB 2.0 standard • Only for ViewBoard source use

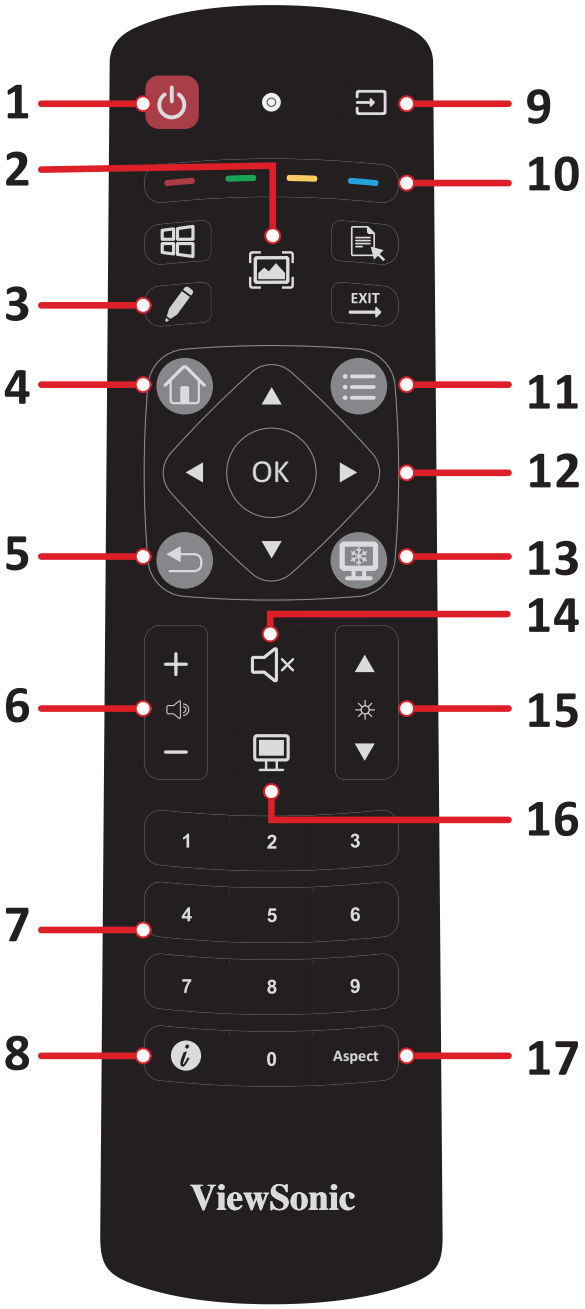
OPS and Wi-Fi Slot



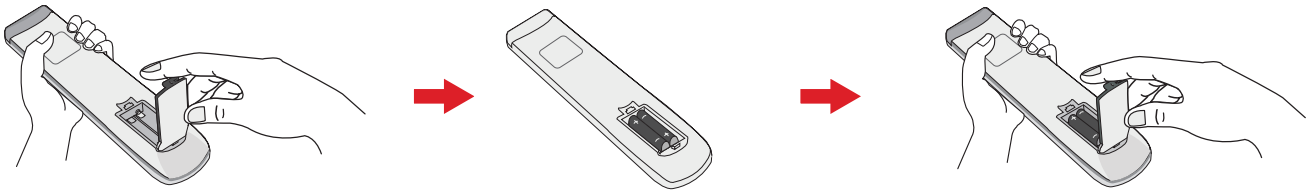
Note: OPS output: 18V/5A.

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



Installing the Batteries



1. Open the battery compartment by removing the battery cover.

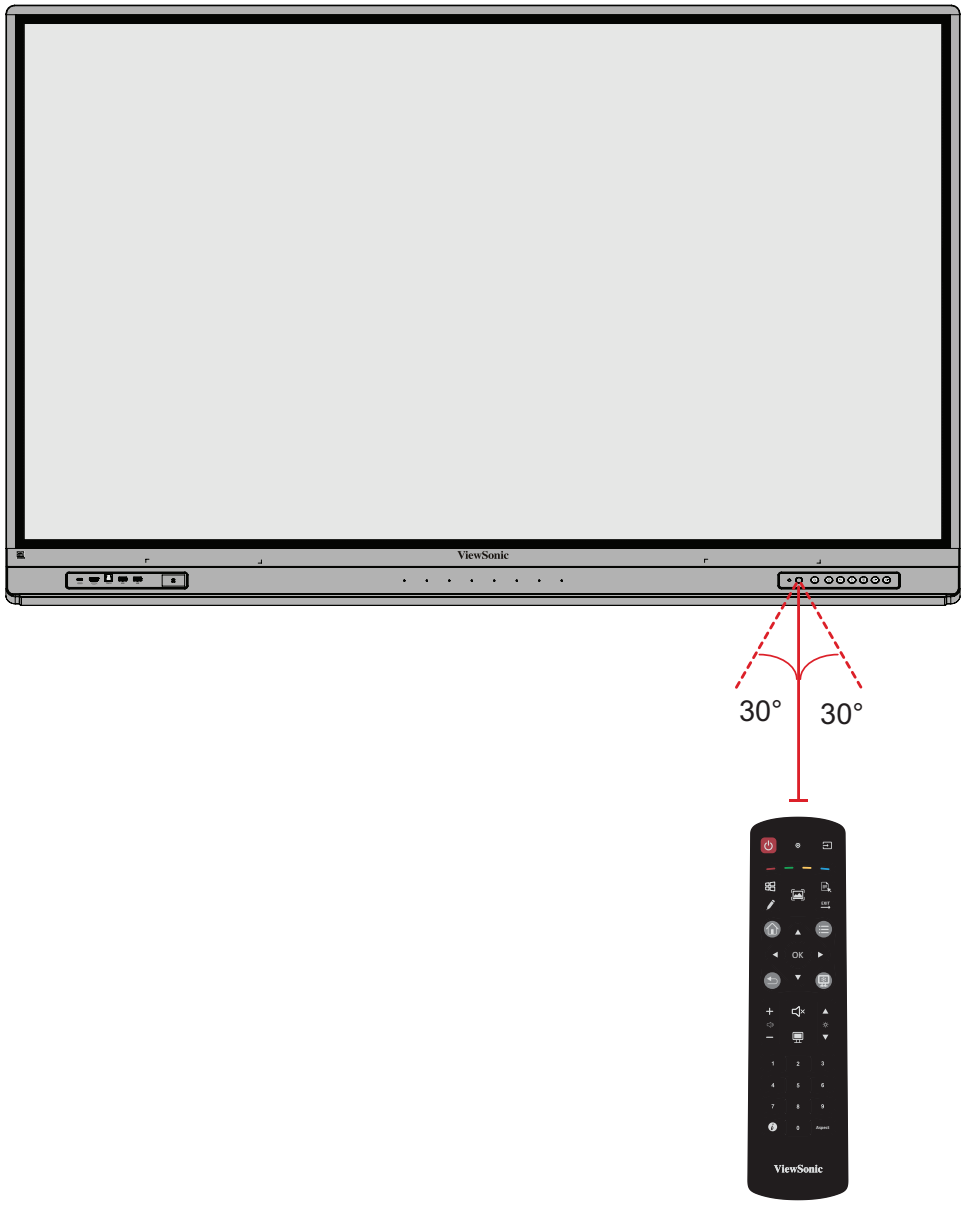
2. Insert two AAA batteries, ensuring correct polarity.

3. Replace the battery cover until it clicks into place.

Note:

- Store the remote control and batteries away from heat and humidity.
- Use only recommended battery types.
- Remove batteries when not in use for extended periods.
- Dispose of old batteries following the manufacturer’s instructions and local regulations.

Receiver Range



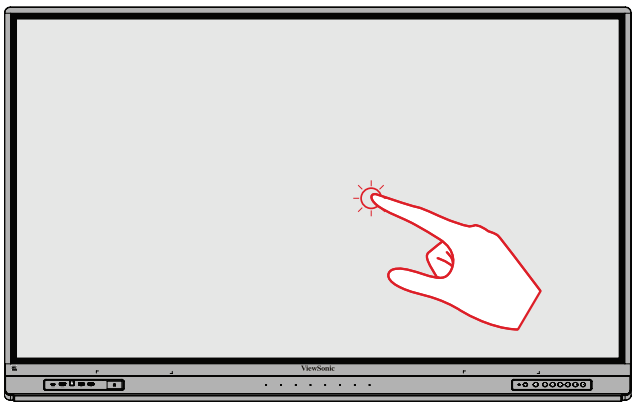
The working range of the remote control is shown here. It has an effective range of 8 m in a straight line, 30 degrees left and right. Ensure there is nothing obstructing the remote control's signal to the receiver.

Using Gestures

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

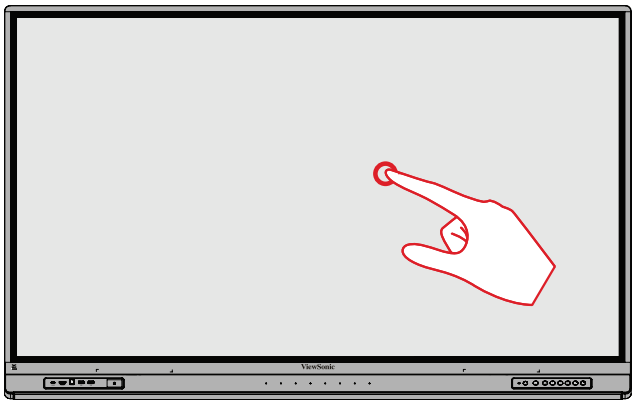
Select and Deselect an Object (Clicking)

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



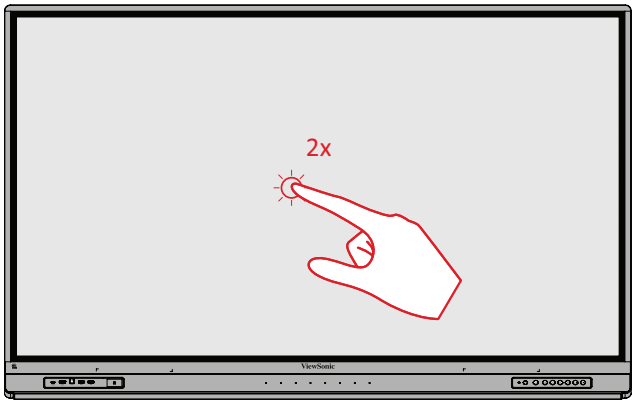
Display Menu Options (Right-Clicking)

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



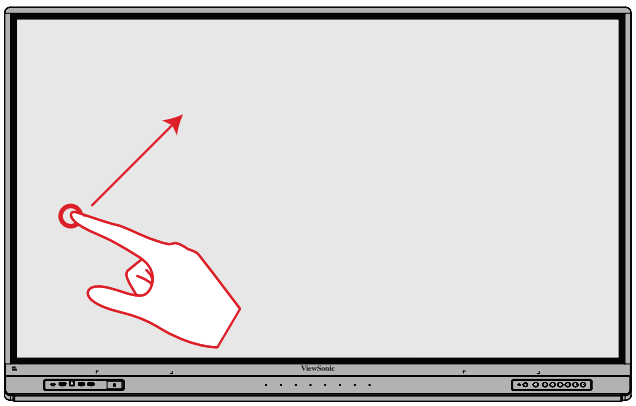
Double-Clicking

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



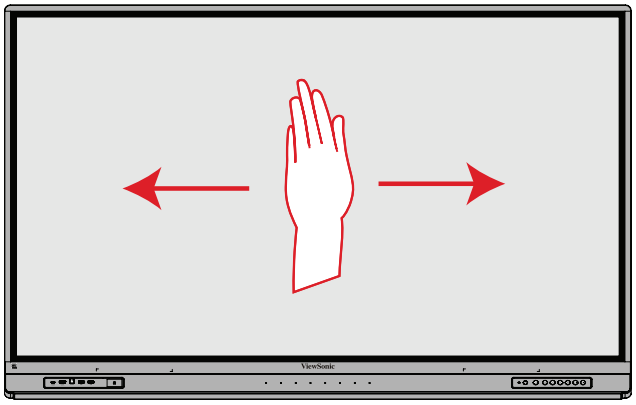
Moving an Object

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



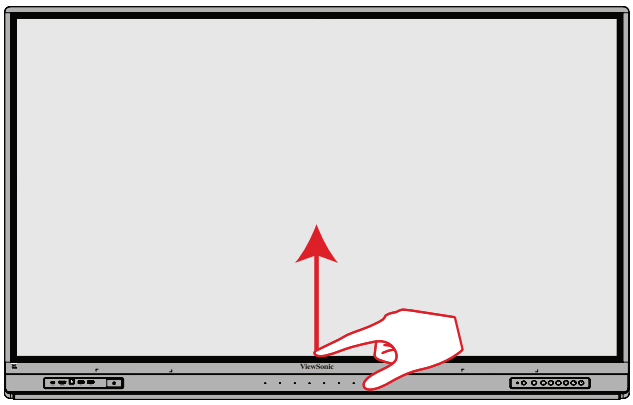
Erasing Digital Ink

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



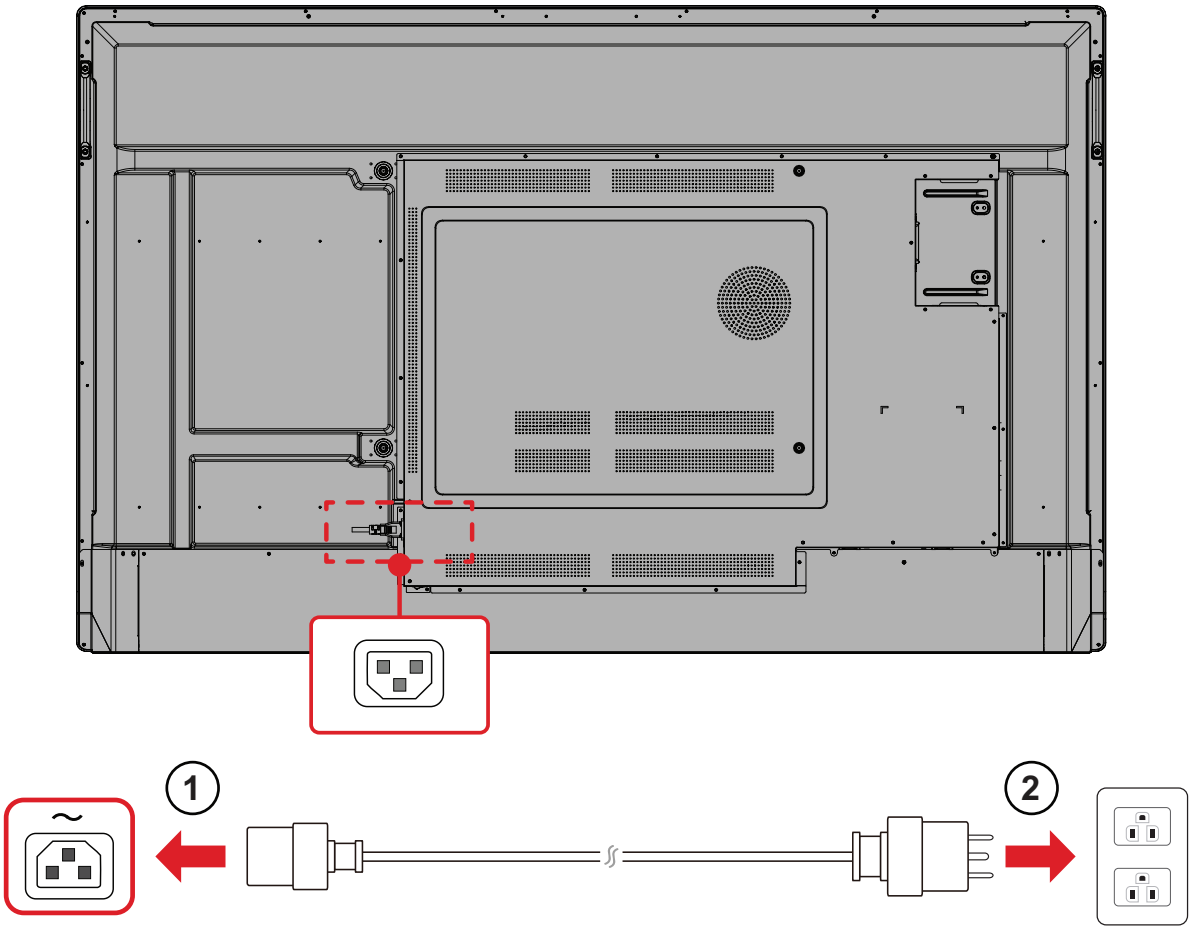
Swipe Up for General Settings

Swipe up from the bottom of the display to launch the General Settings.



Making Connections

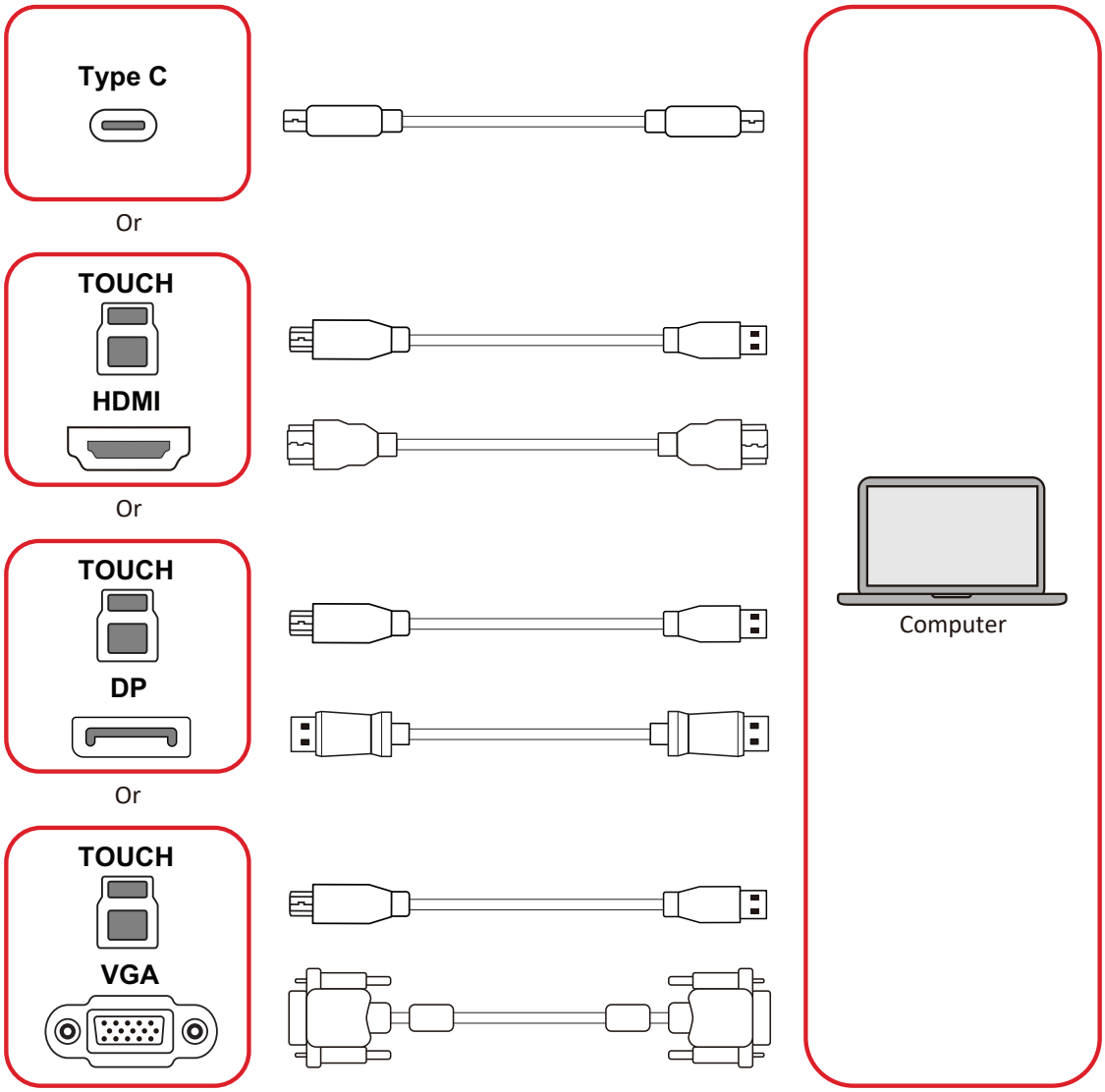
Connecting to Power



1. Connect the power cord to the **AC IN** jack at the rear of the display.

2. Plug the power cord plug into a power outlet.

Connecting to External Devices and Enabling Touch



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

Note: The **TOUCH 1** port is for the **HDMI 1**/**HDMI 2**/**HDMI 3** ports. The **TOUCH 2** port is for the **DP** and **VGA** ports. The **TOUCH 3** port is for the **FRONT HDMI** port.

USB Type C Connection

Connect a USB Type C cable from your external device to the USB Type C port on the display.

HDMI Connection

1. Connect an HDMI cable from your external device to the **FRONT HDMI**/**HDMI 1**/**HDMI 2**/**HDMI 3** port on the ViewBoard.
2. Connect a USB Type B to A cable to your external device from the appropriate **TOUCH** port of the display.

DisplayPort Connection

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

VGA Connection

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

RS-232 Connection



When you use a RS-232 serial cable to connect the display to an external computer or control system, certain functions can be controlled remotely such as: power on and off, volume adjustment, input select, brightness, and more.

USB Connection

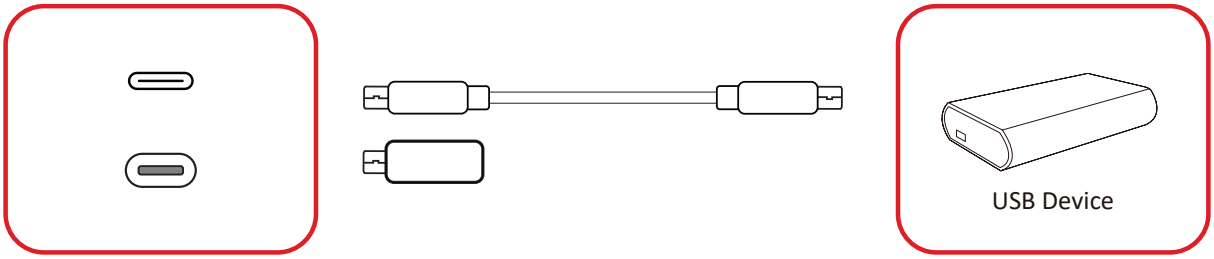
Just like any PC, it is easy to connect various USB devices and other peripherals to the display.

USB Type A



Plug the USB device or storage drive into a USB Type A port of the display.

USB Type C



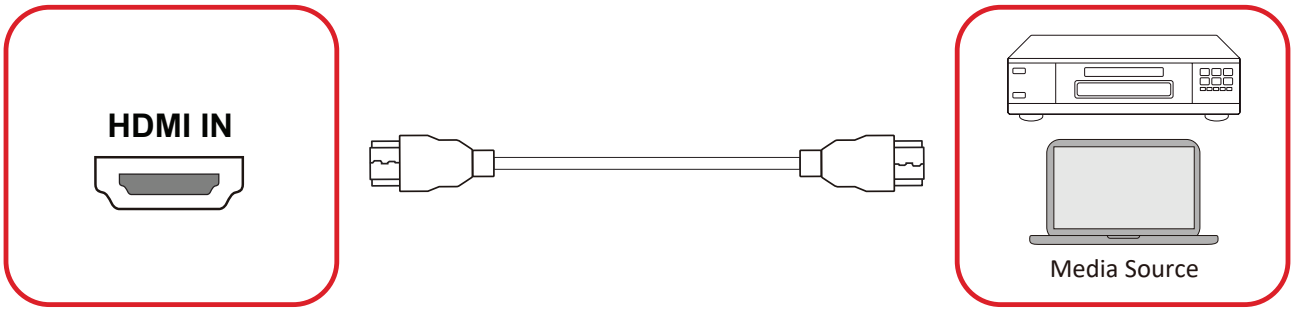
Plug the USB device or storage drive into the USB Type C port of the display.

Network Connection



To connect to a local network, connect an Ethernet cable to your network, then connect the other end to the **LAN** port of the display.

Media Connection



1. Connect an HDMI cable to an **HDMI** port on the display and peripheral device.
2. Press the **INPUT** button on the remote control and switch to the HDMI input source.

Audio Connections

Audio In



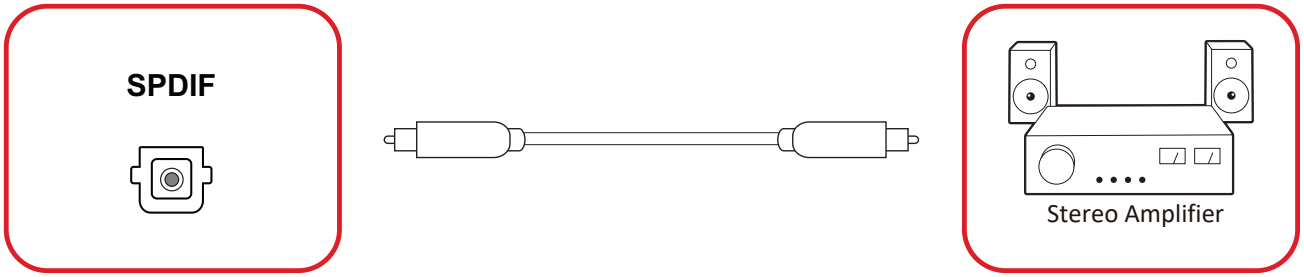
To play audio from your external device, connect one end of an audio cable to your external device, and the other end to the **AUDIO IN** port of the display.

Audio Out



To play audio from the display through an external speaker, connect one end of an audio cable to the external speaker, and the other end to the **AUDIO OUT** port of the display.

SPDIF



To connect to an external sound system, connect an optical cable from the display's **SPDIF** port to your sound system's optical connector.

Video Output

HDMI Out



1. Connect an HDMI cable to the HDMI IN port of your display device, then connect the other end to the **HDMI OUT** port of the display.
2. Press the **INPUT** button on the remote control and switch to the HDMI IN input source.

Type C Out



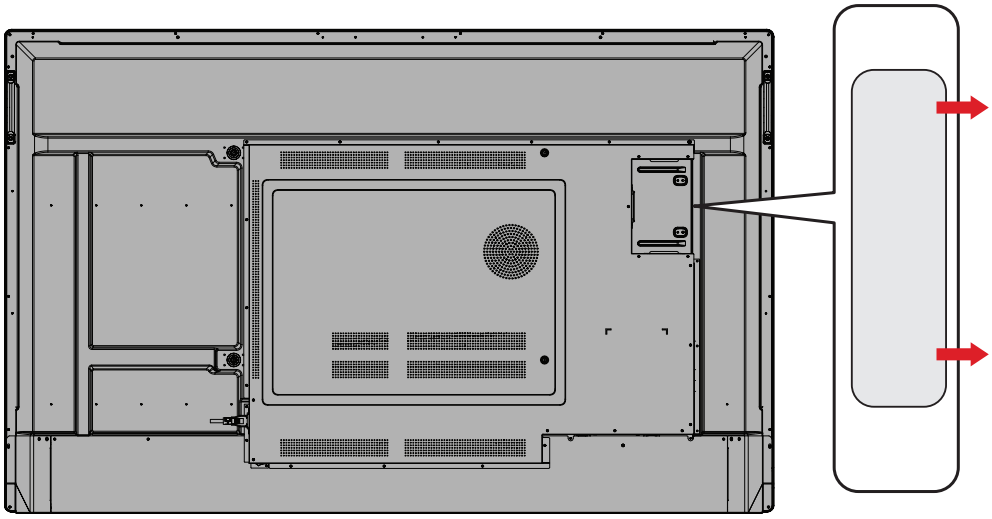
1. Connect a USB Type C cable to the **Type C IN** port of your display device, then connect the other end to the **Type C OUT** port of the display.
2. Press the **INPUT** button on the remote control and switch to the Type C IN input source.

Optional Connections

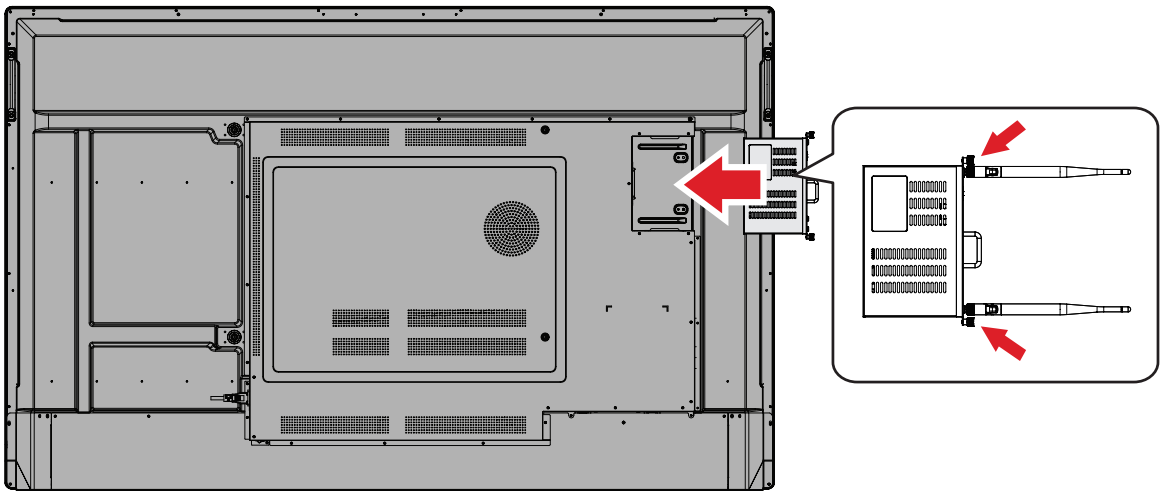
The display comes with an **OPS Slot** as well as a **Wi-Fi Slot** for optional add-ons such as a slot-in PC (e.g., VPC-35) or Wi-Fi card (e.g., VB-WIFI-005).

Slot-in PC (OPS Slot) Installation

1. Remove the **OPS Slot** cover of the display.



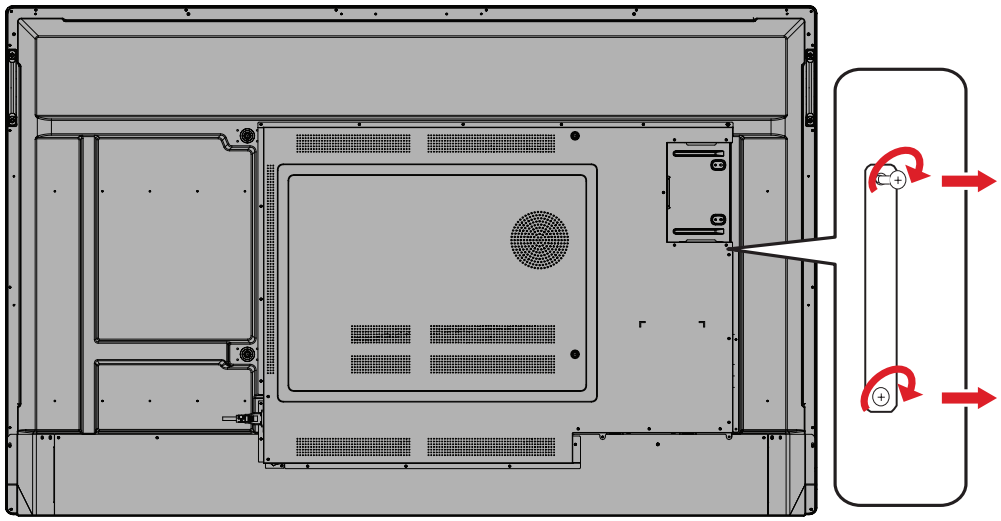
2. Carefully insert the slot-in PC into the **OPS Slot** of the display.



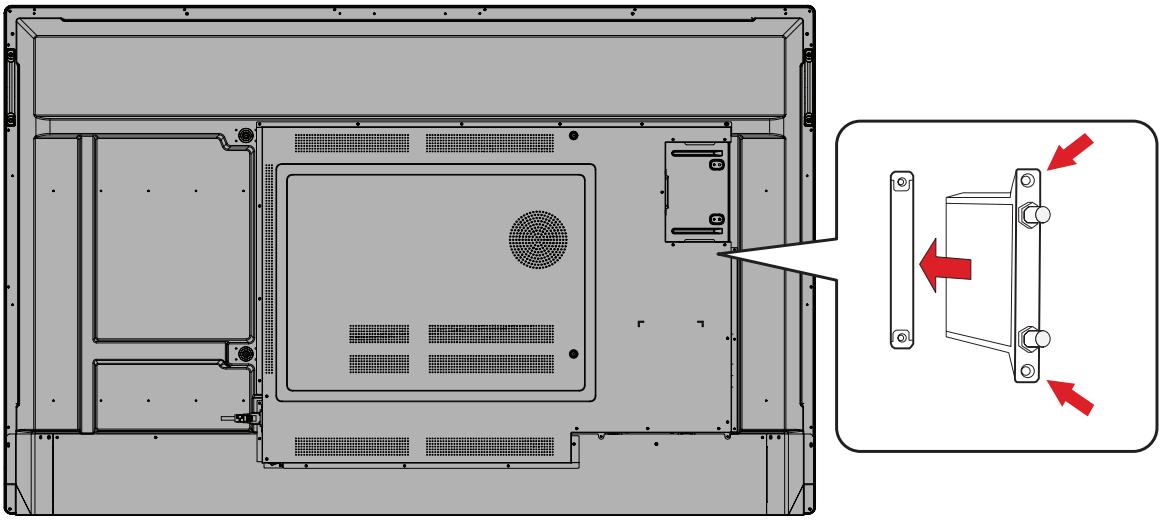
3. Secure the slot-in PC to the display.

Wi-Fi Card (Wi-Fi Slot) Installation

1. Remove the **Wi-Fi Slot** cover of the display.



2. Carefully insert the slot-in Wi-Fi card into the **Wi-Fi Slot** of the display.

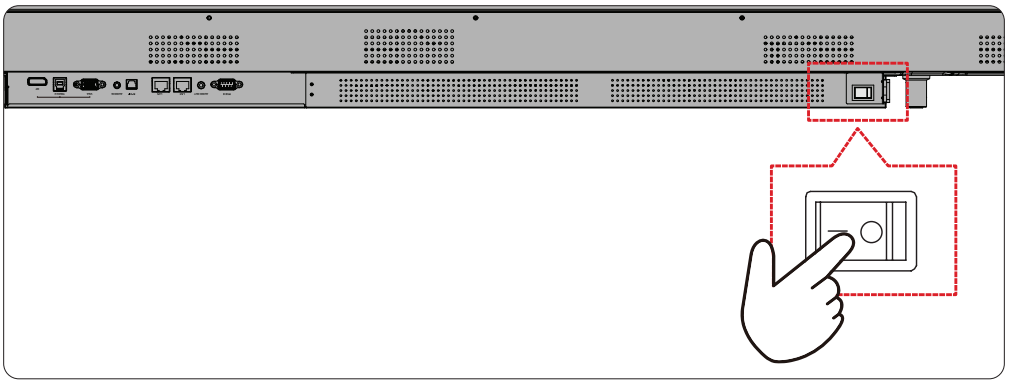


3. Secure the slot-in Wi-Fi card to the display.

Using the Display

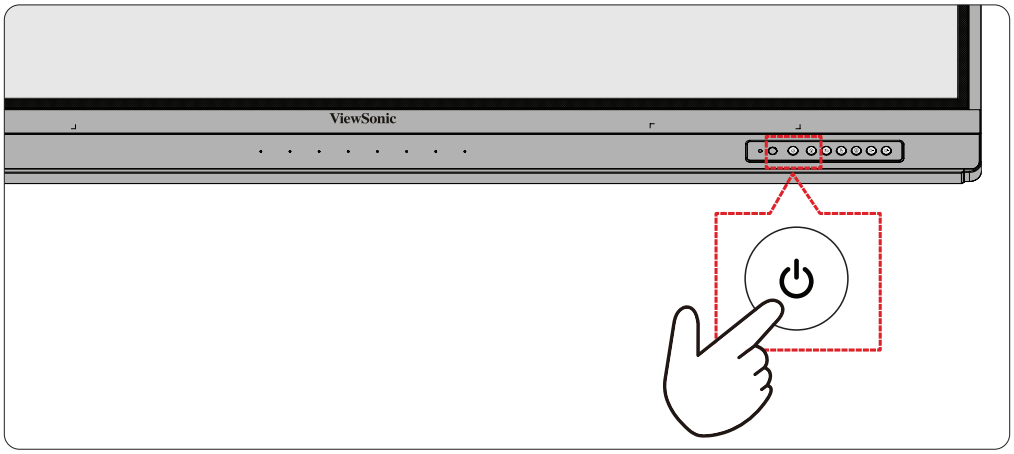
Turning the Display On/Off

1. Make sure the power cord is connected, plugged into a power outlet, and the Power Switch is in the on position.



Note: The Power Switch is located at the bottom of the display.

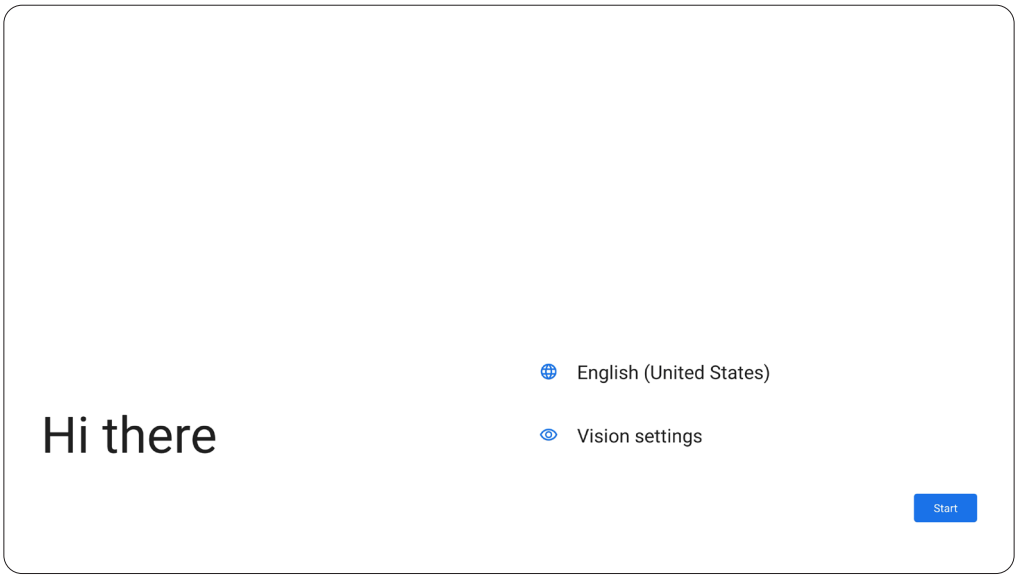
2. Press the **Power** button on the display or remote control to turn on the display.



3. To turn the display off, press and hold the **Power** button.

Initial Launch Setup

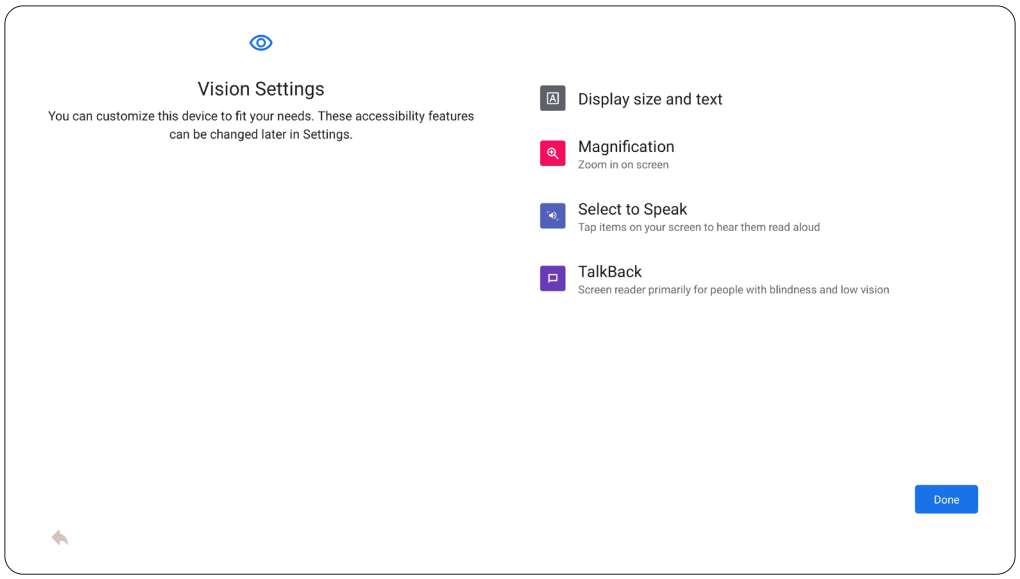
When you first turn on your display, an initial setup wizard will launch.



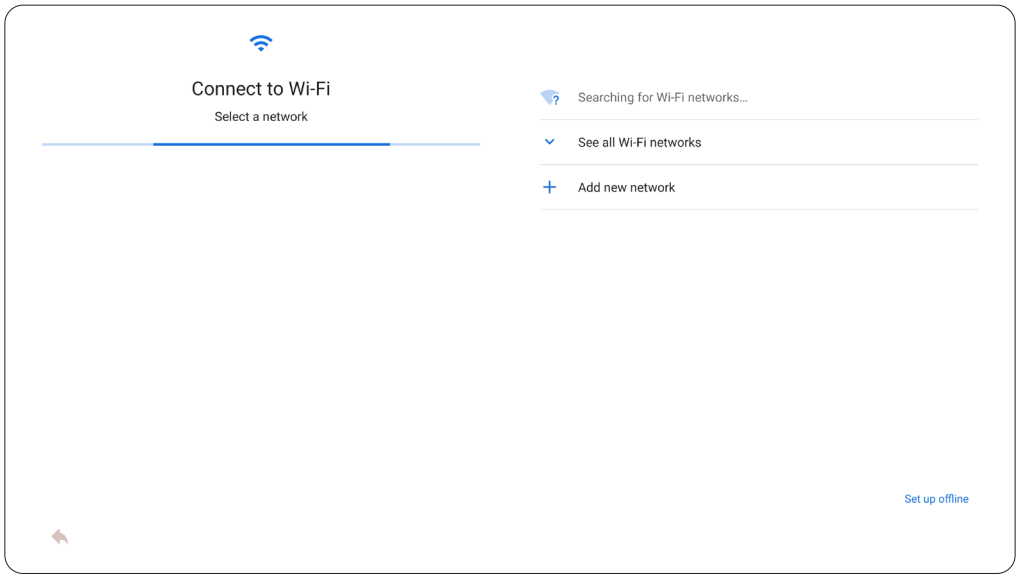
1. Choose your preferred Language.



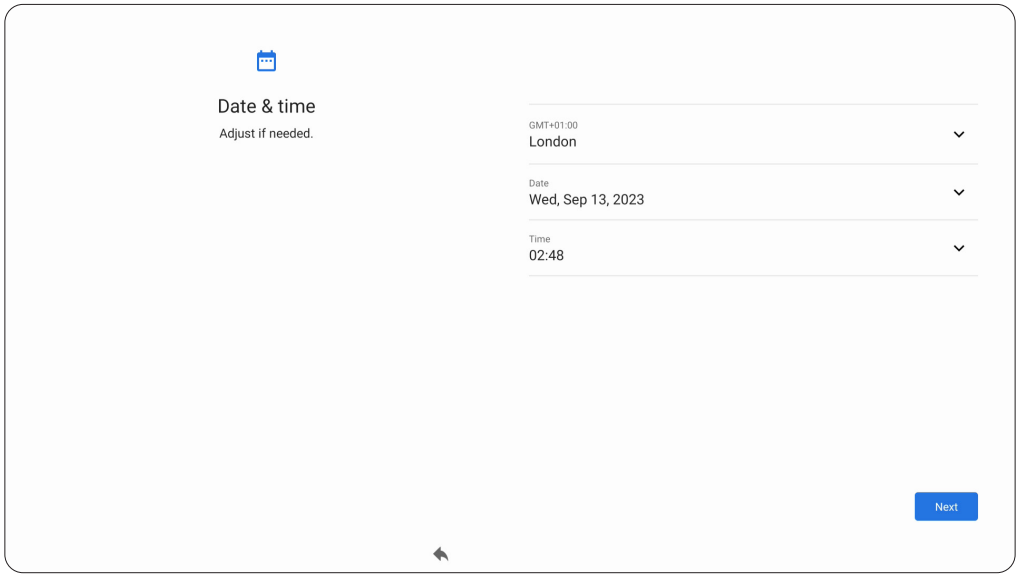
2. Adjust accessibility features as needed.



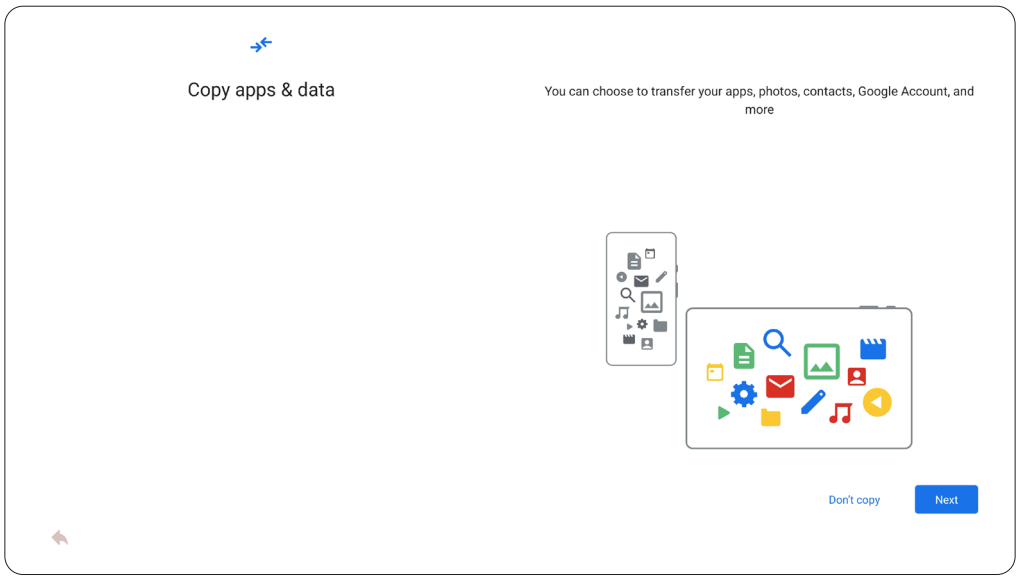
3. Setup and connect to a network.



4. Set and adjust the Date and Time as needed.

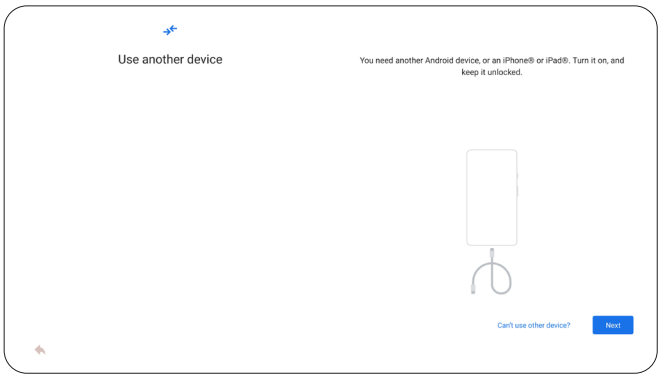


5. Copy your apps and data from another device to the display.

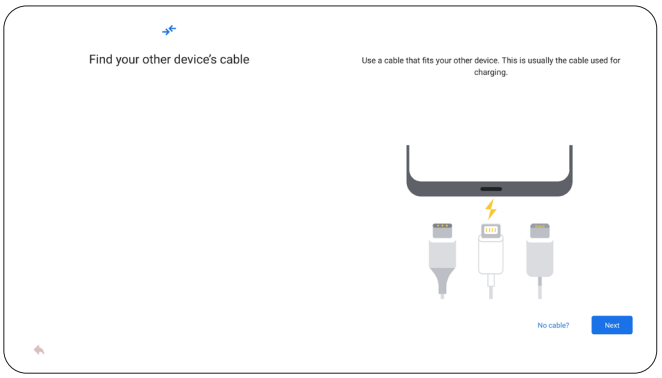


- If you want a fresh start, tap **Don’t copy**.
- To start copying and transferring your apps and data, tap **Next.**
  - » If you use a USB cable to copy and transfer data, connect the cable to your devices and follow the on-screen directions to start transfer.
  - » If you don’t have a cable, tap **No cable?** to start transfer wirelessly.

Note: Before starting, make sure your another device is connected to power, turned on, and unlocked.

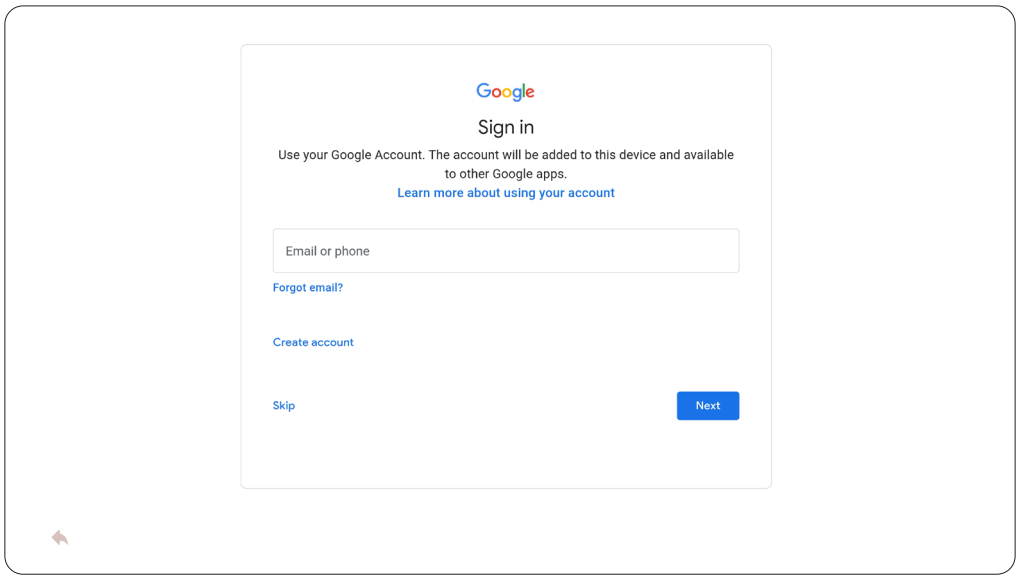


Transferring data with a USB cable

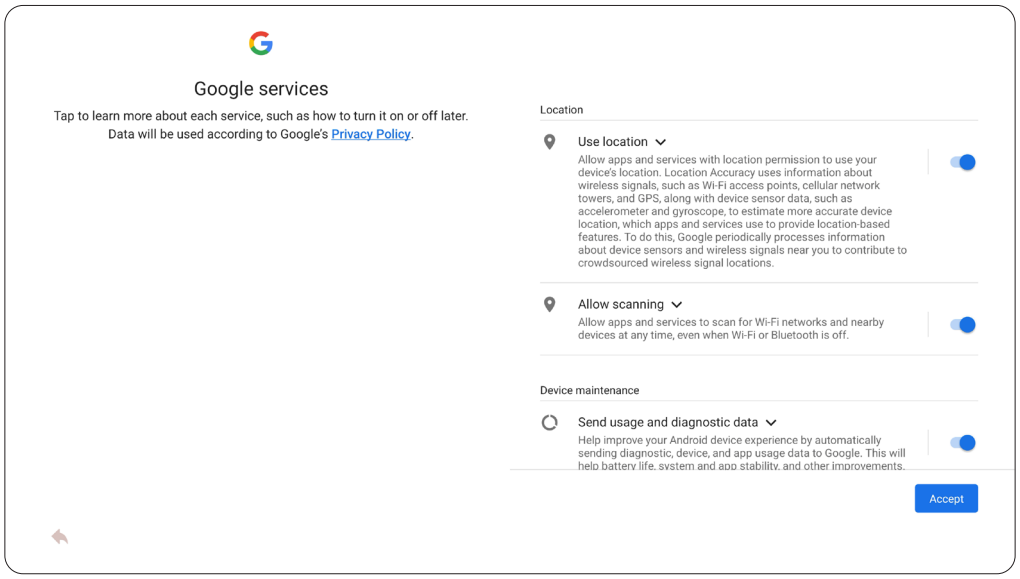


Transferring data wirelessly

6. Sign in with a Google account, or tap **Skip** to continue without signing in.

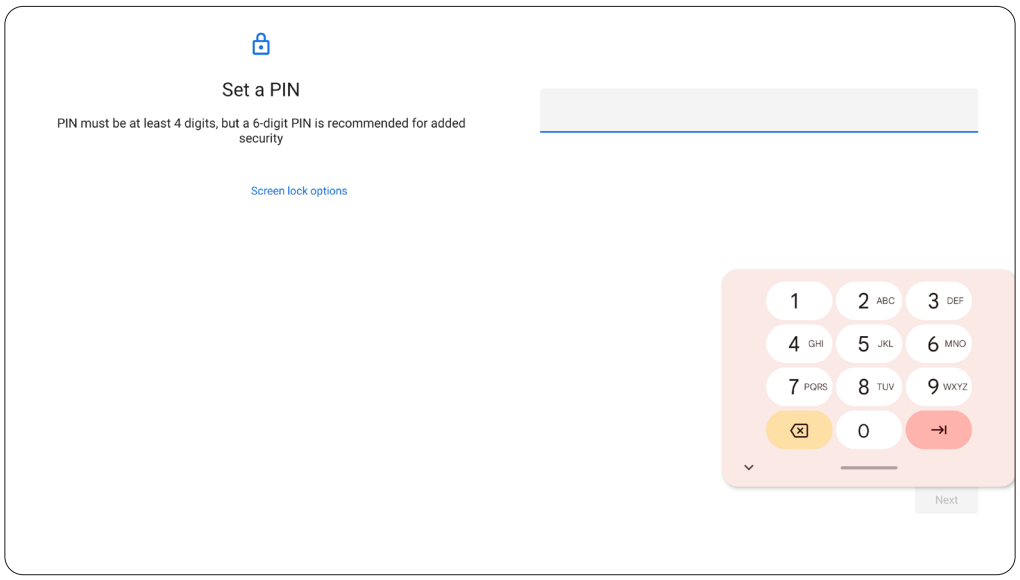


7. Accept or decline the Google services.

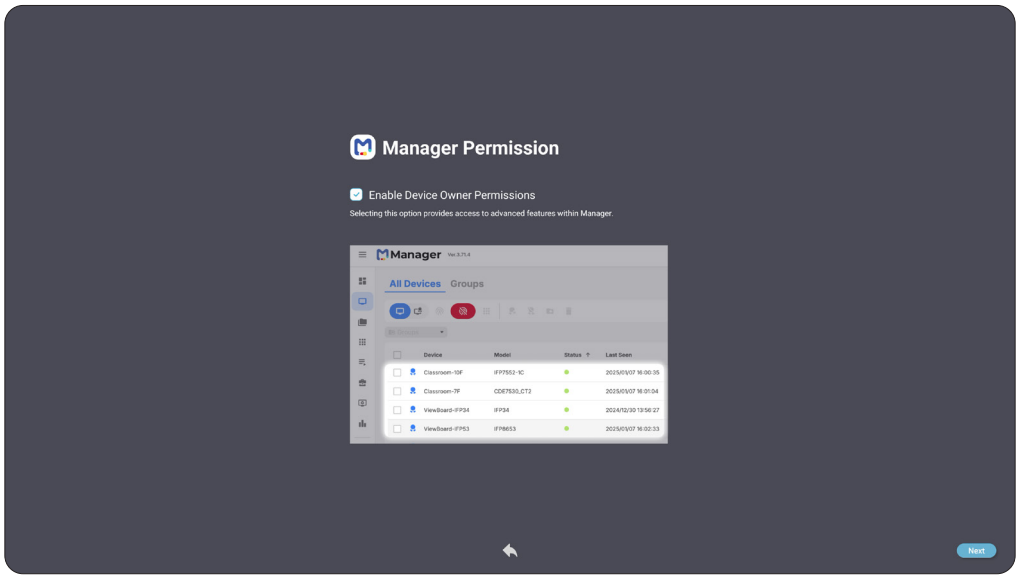


8. Set a PIN to setup a Screen lock. Then, tap **Next**, enter the PIN again, and tap **Confirm**.

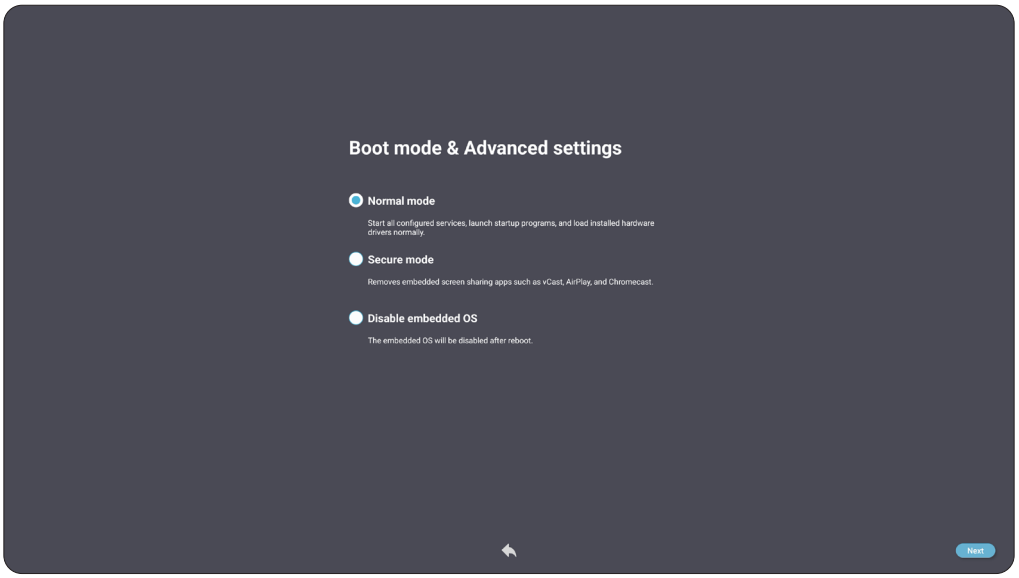
   Note: Personal Identification Number (PIN) helps prevent unauthorized use of the display. It is strongly recommended to set a pin for each of the owner profiles as only owners can manage access to the display(s) and more.



9. Select **Enable Device Owner Permissions** to confirm the ownership and gain access to the advanced features of the Manager application. Then, tap **Next**.

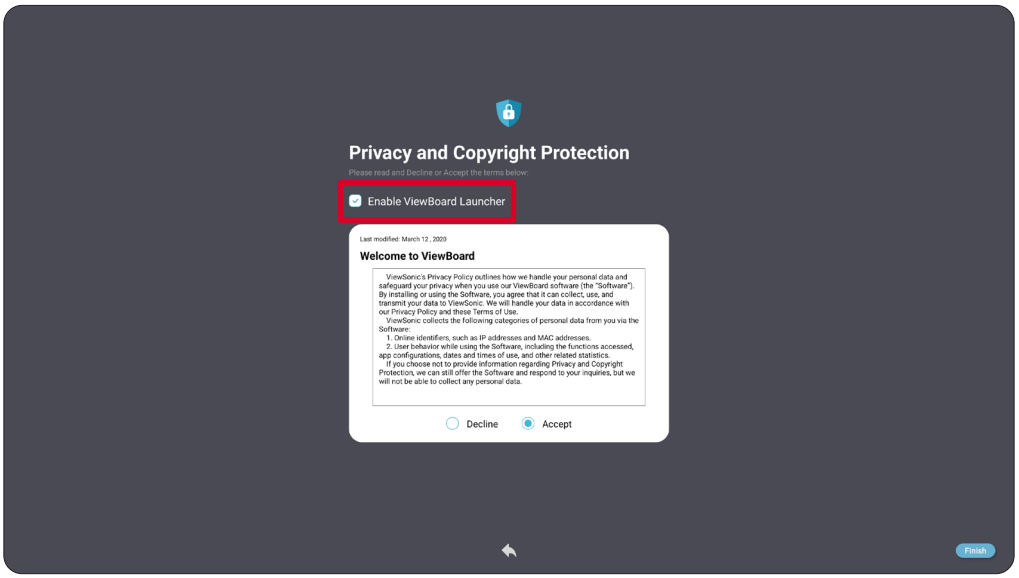


10. Select the preferred boot up mode, then tap **Next**.

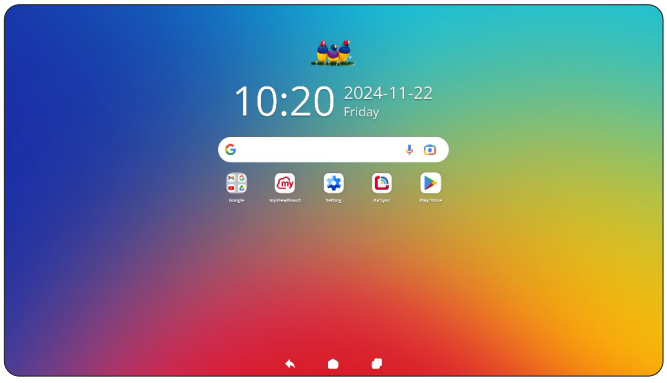


11. Select the preferred Operating System (OS) launcher.

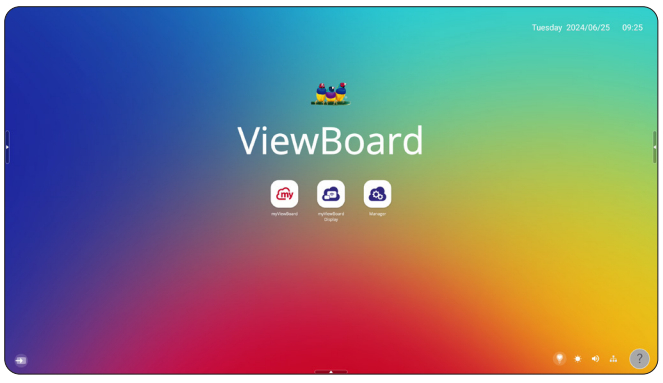
- Select **Enable ViewBoard Launcher** for the ViewBoard launcher scheme.
- Deselect **Enable ViewBoard Launcher** for the Android launcher scheme.



Note: You can always switch to the other launcher scheme later in the **System** settings. Go to “ViewBoard Settings” for more details.

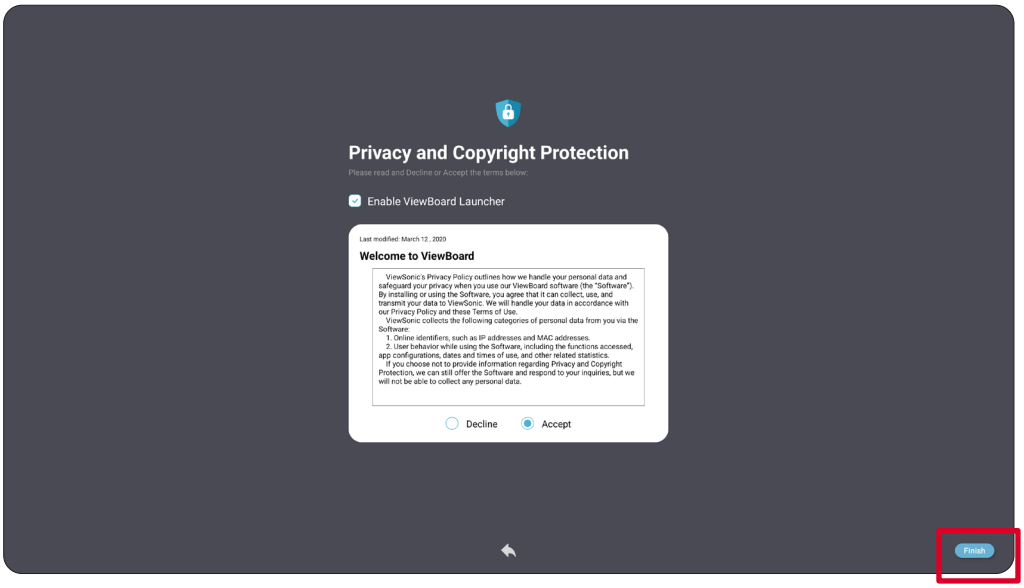


Android Launcher (Scheme A)



ViewBoard Launcher (Scheme B)

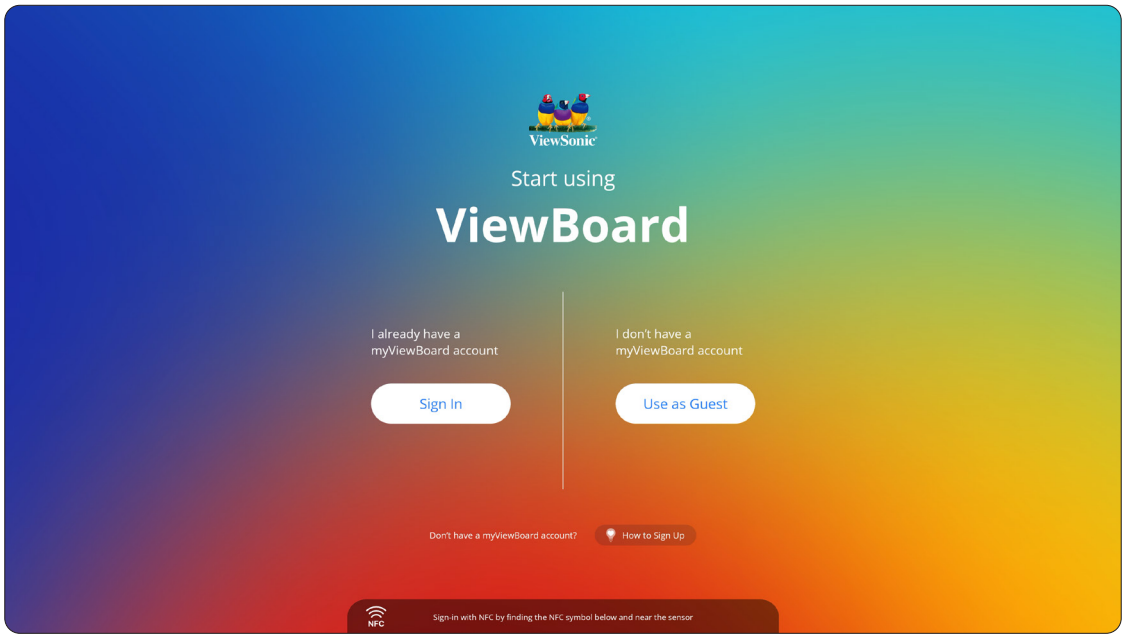
12. Accept or decline the Privacy and Copyright Protection terms. Then, tap **Finish** to complete the initial setup.



Home Screen

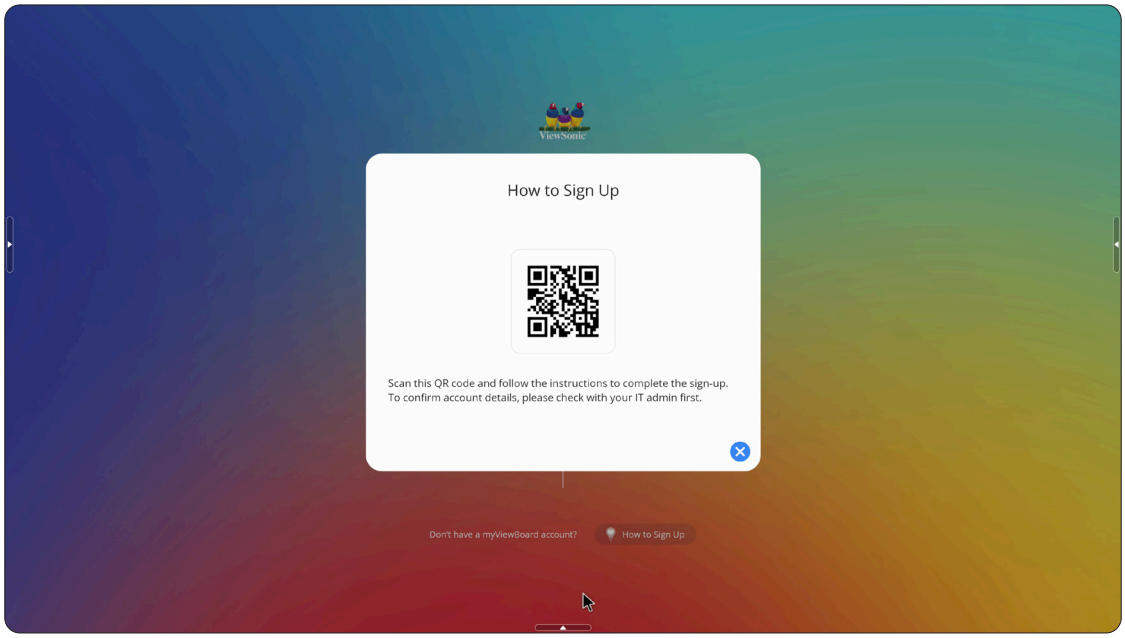
Note: The Home Screen layout varies between the two Launchers. Use the following display Launcher example as a general reference only.

On the Home Screen select from **Use as Guest** and **Sign In**.



How to Sign Up

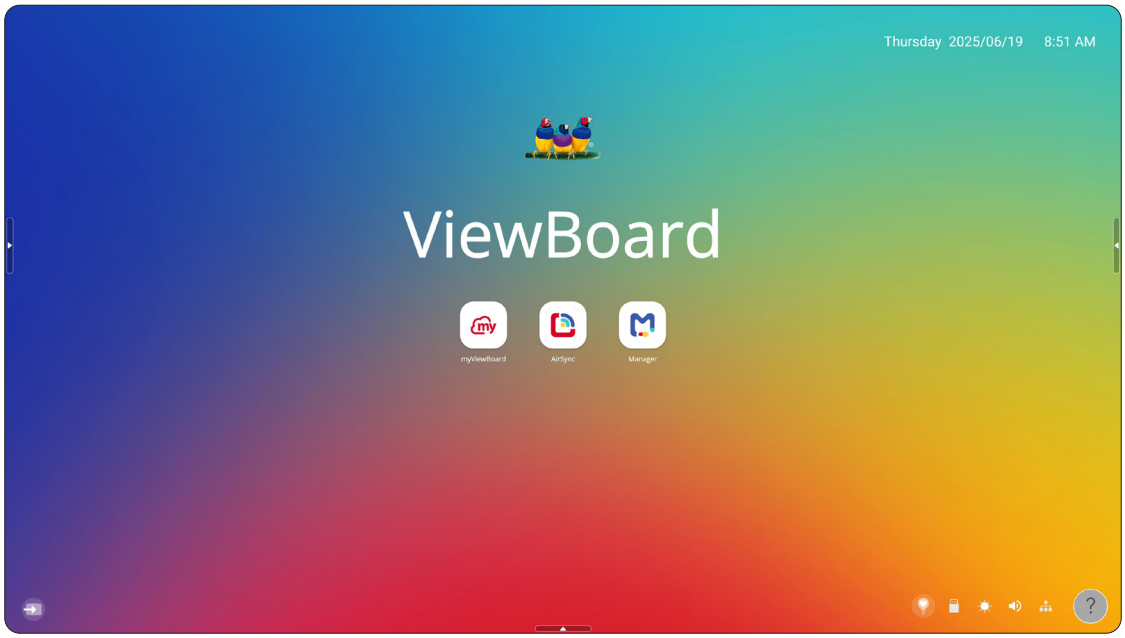
Select the **How to Sign Up** button at the bottom of the screen, then scan the QR code and follow the directions to log in.



Use as Guest

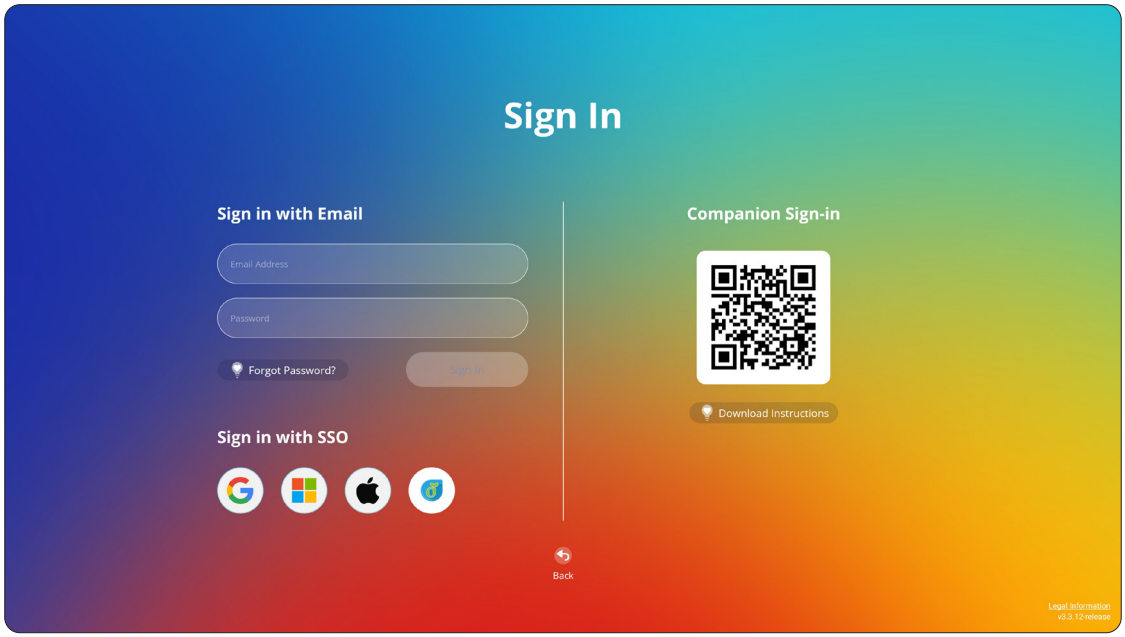
Select the **Use as Guest** button to log in with a guest account.

Note: Please note that user settings cannot be saved when logging in with a guest account.



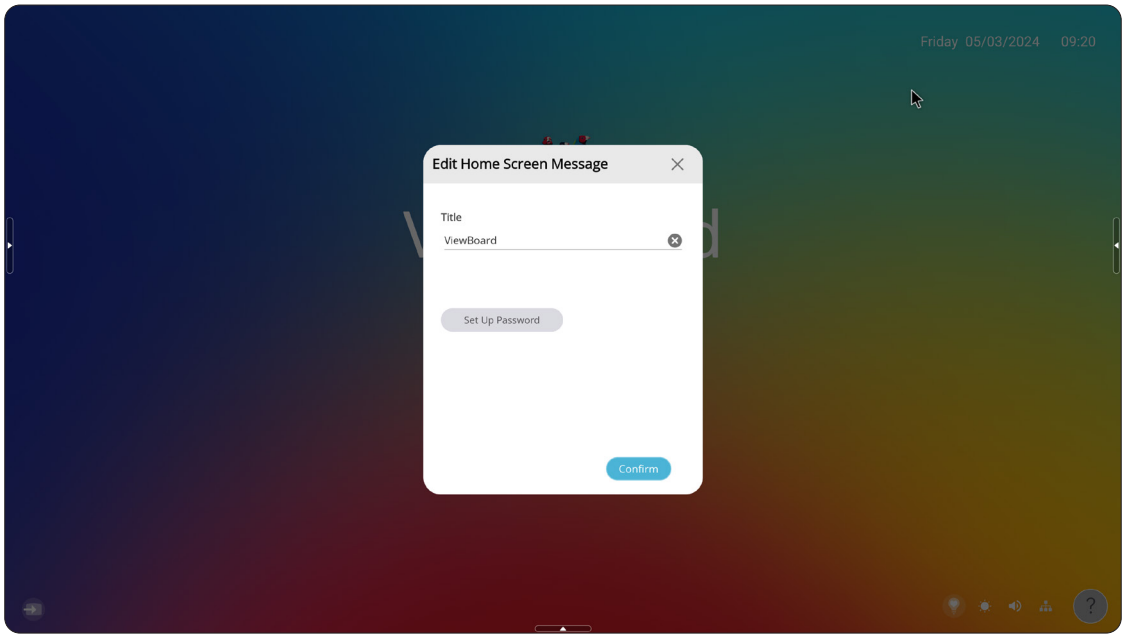
Sign In

Select the **Sign In** button to log in with various accounts.



Home Screen Message

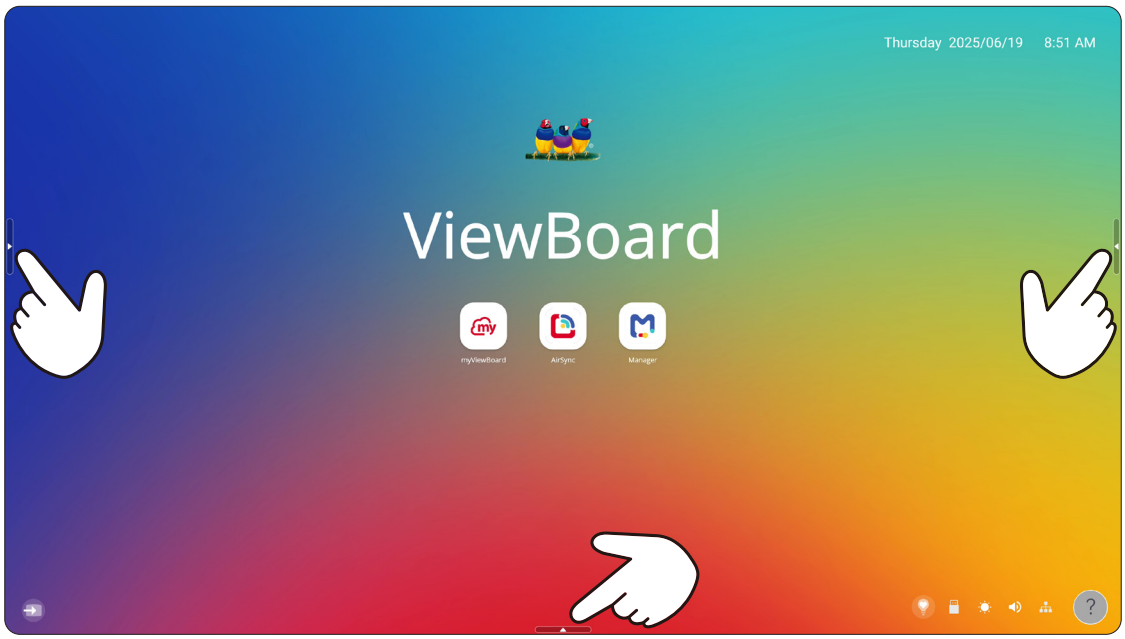
The Home Screen message can be edited by selecting it directly on the Home Screen.



Additionally, a password can be set by selecting the **Set Up Password** button.

Toolbar

The Toolbar is where applications and tools can be found. Trigger icons are on the right, left, and bottom edge of the screen for quick access.



To launch an application or tool:

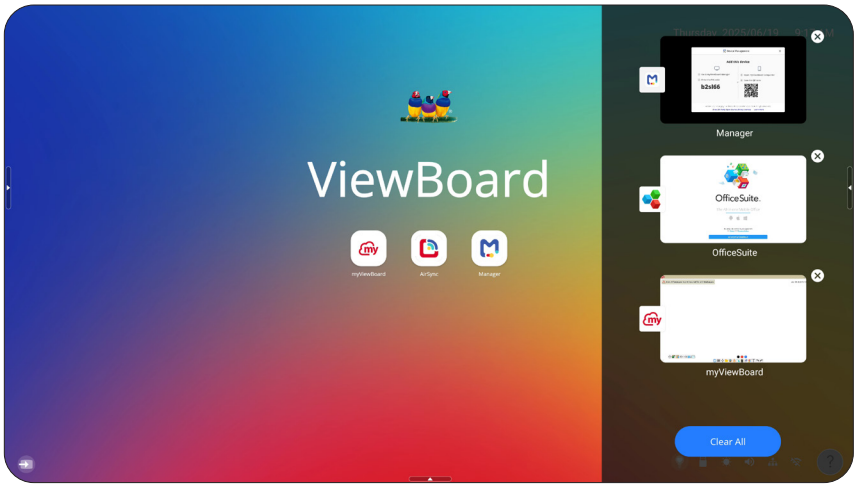
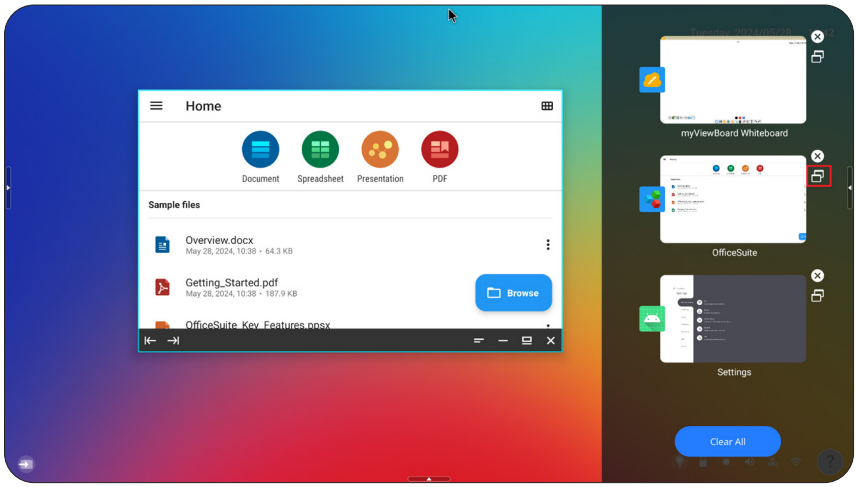
1. Tap a Toolbar trigger icon.

2. Tap on your desired application or tool.



Note: The default Toolbar setting is to be available for all input sources; however, users can go to: **Settings** > **Preference** > **Toolbar settings** to adjust the options: (1) Show side Toolbar, (2) Hide side toolbar, (3) Disable in all input sources.

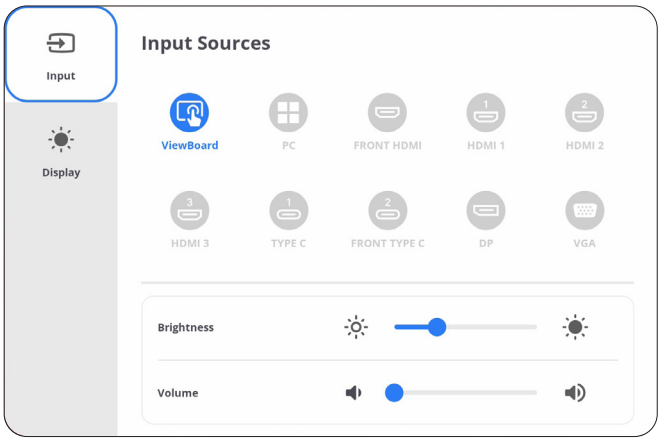
Toolbar Icons

Icon	Description
Return	Return to the previous operation screen. **Note:** Only for the display source.
Home	Return to the Home Screen.
Recent	Display all currently open applications.  Select the small frame to display in a PIP window.  **Note:** Selecting the “X” will close the application.
Applications	View all installed applications.
File Folder	Browse and open files.

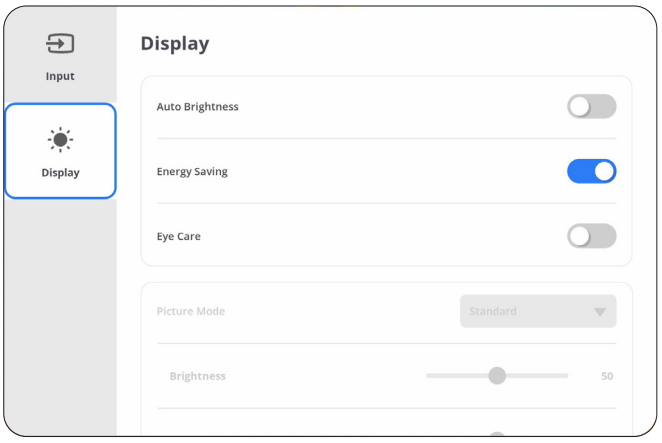
Icon	Description
 **Tools**	Quickly view and adjust various frequently used tools.
 **Marker**	Annotate with underlying, highlighting, and more. Note: Pick up the Touch Pen to turn on **Marker**.
 **Input Source**	Select and change the input source signal.

On-Screen Display (OSD) Menu - General Settings

Access **Input**, **Display,** and other general settings through the OSD Menu.

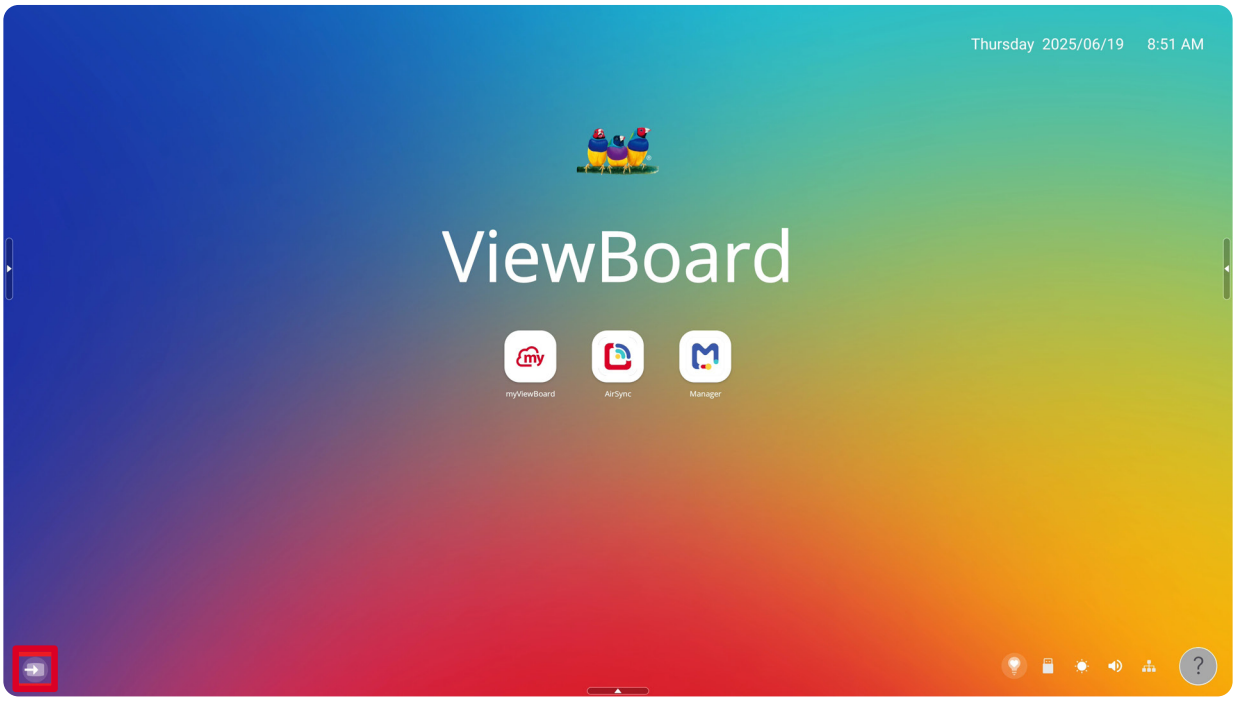


Input Settings

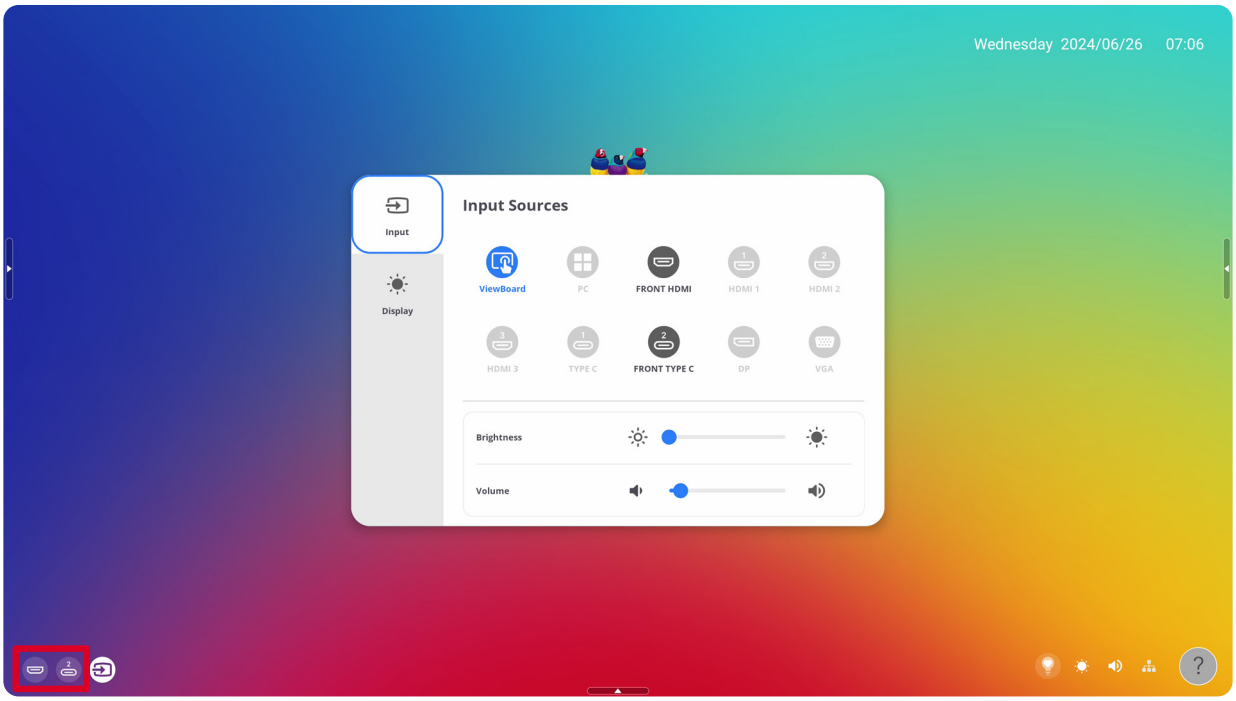


Display Settings

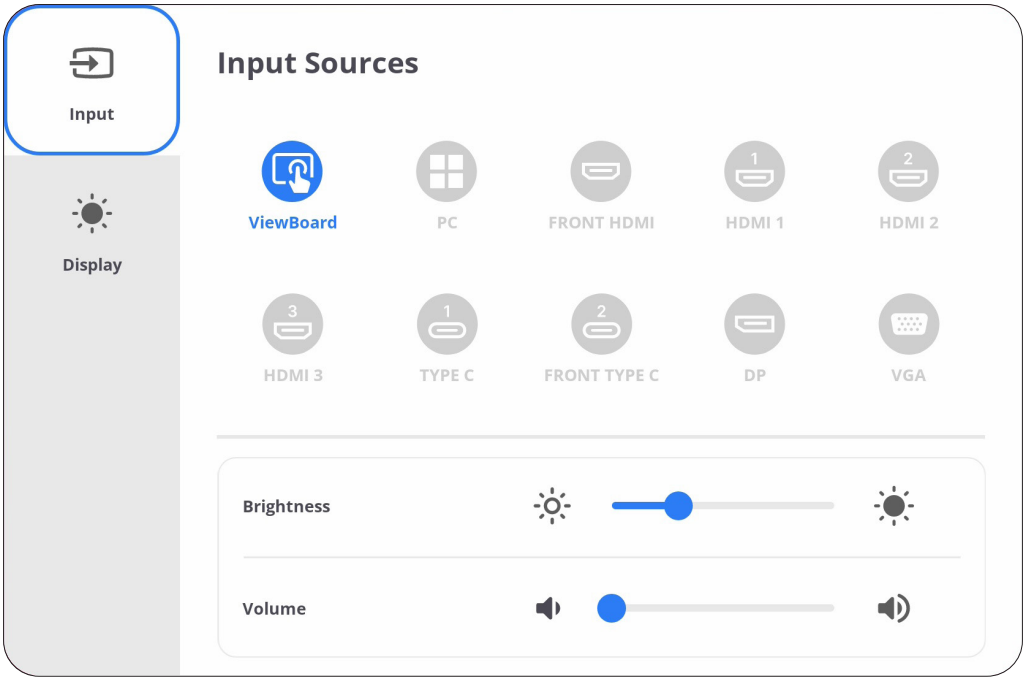
Open the OSD Menu by pressing **INPUT** on the remote control or tapping the **Input Source** icon.



The **Input** setting can also display by tapping the signal source icon.



Input Settings

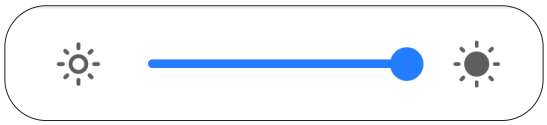


To select an input source:

1. Press **INPUT** on the remote control or tap the **Input Source** icon to display the **Input Settings** menu.
2. Press the **Navigation** buttons (↑/↓/←/→) on the remote control to select the input source you want.

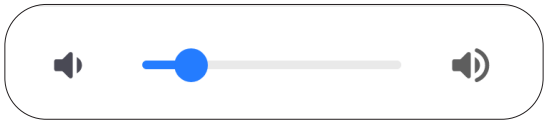
   Note: The PC source will only be visible when a slot-in computer is installed.
3. Press **ENTER** on the remote control, or tap the desired input source.
4. Press **BACK** on the remote control, or tap a blank area outside of the menu to exit.

To adjust the brightness:



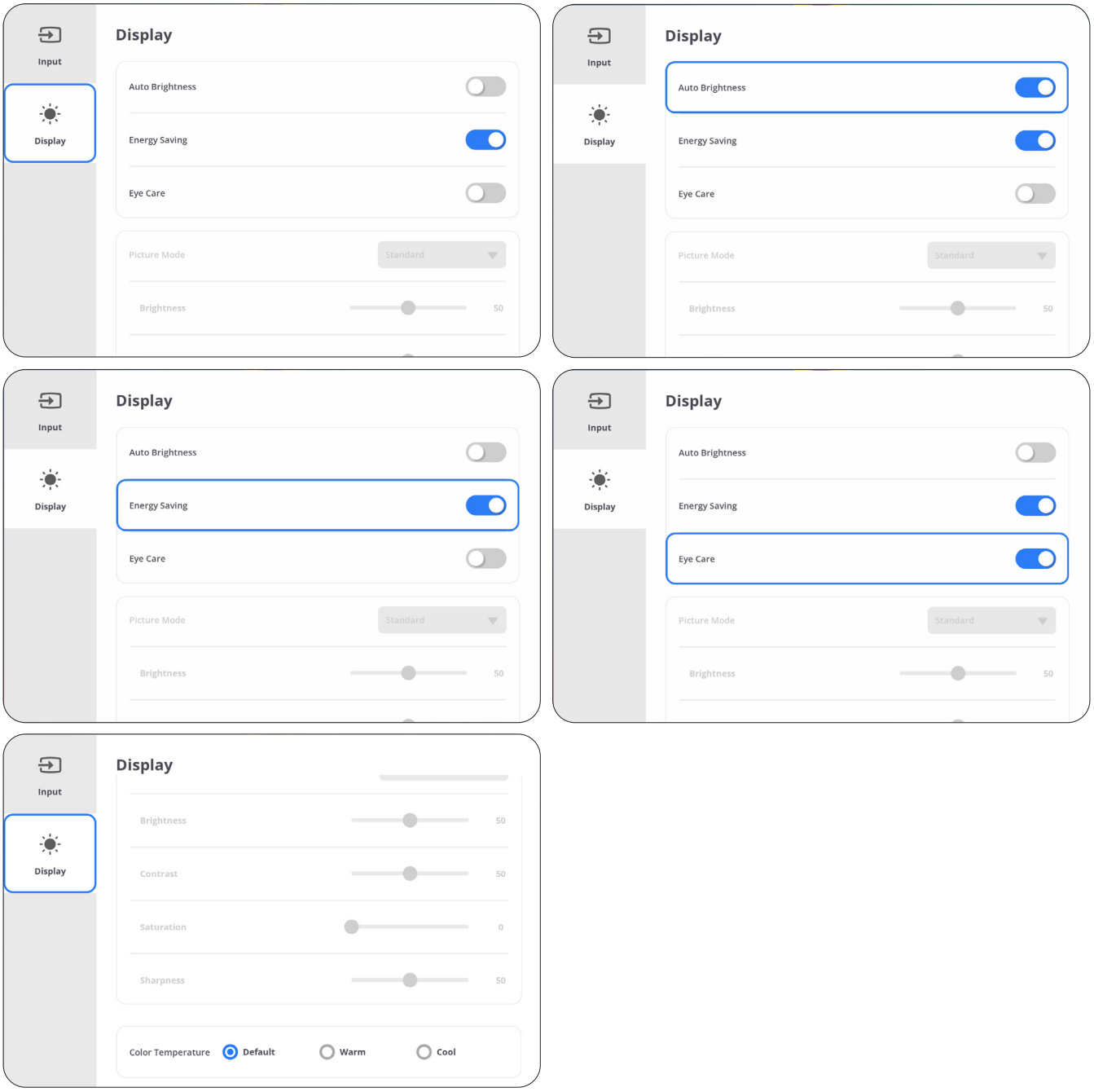
1. Press **INPUT** on the remote control or tap the **Input Source** icon to display the **Input Settings** menu.
2. Drag the brightness slider directly to adjust the backlight value.
3. Press **BACK** on the remote control, or tap a blank area outside of the menu to exit.

To adjust the volume:



1. Press **INPUT** on the remote control or tap the **Input Source** icon to display the **Input Settings** menu.
2. Drag the volume slider directly to adjust the value, or press the **Volume** buttons on the remote control to adjust. Additionally, pressing **Mute** on the remote control will mute/unmute the volume.
3. Press **BACK** on the remote control, or tap a blank area outside of the menu to exit.

Display Settings



To adjust the display settings:

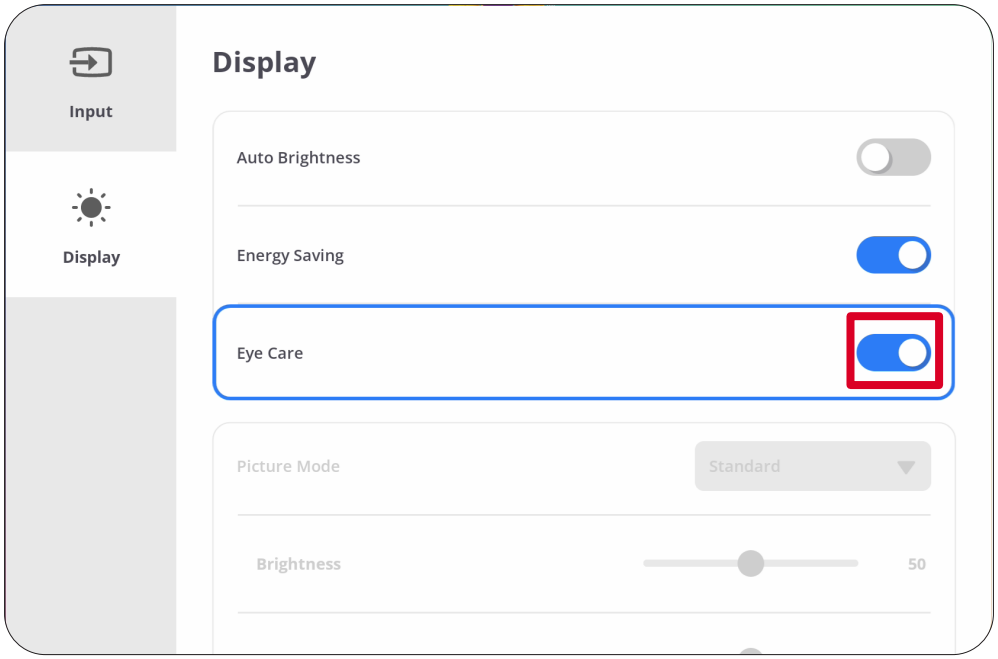
1. Press **INPUT** on the remote control or tap the **Input Source** icon to display the **Input Settings** menu. Then select the **Display** tab.
2. Press the **Navigation** buttons (↑/↓/←/→) on the remote control to select the menu option you want.
3. Press **ENTER** on the remote control to confirm or press the **Navigation** buttons (←/→) to adjust the menu option. Additionally, tap/adjust the menu option directly.
4. Press **BACK** on the remote control, or tap a blank area outside of the menu to exit.

Display Settings - Menu Options

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Auto Brightness</td><td>Automatic brightness adjustment. Adjusts maximum brightness according to ambient light levels.</td></tr>
<tr><td>Energy Saving</td><td>Enable to reduce power consumption.</td></tr>
<tr><td>Eye Care</td><td>Adjusts the filter that blocks high-energy blue light for a more comfortable viewing experience.</td></tr>
<tr><td>Picture Mode</td><td>Select a predefined picture setting.
<table>
<tr><th>Mode</th><th>Description</th></tr>
<tr><td>Standard</td><td>Default picture mode.</td></tr>
<tr><td>Bright</td><td>Maximizes the brightness of the display. This mode is suitable for environments where extra-high brightness is required (e.g., well-lit rooms).</td></tr>
<tr><td>Soft</td><td>A high brightness level with lower contrast level.</td></tr>
<tr><td>Custom</td><td>Customize the picture settings.</td></tr>
</table></td></tr>
<tr><td>Brightness</td><td>Adjust the background black levels of the screen.</td></tr>
<tr><td>Contrast</td><td>Adjusts the difference between the image background (black level) and the foreground (white level). Use this to set the peak white level after you have previously adjusted the Brightness setting to suit your selected input and viewing environment.</td></tr>
<tr><td>Saturation</td><td>Adjust the amount of color present.</td></tr>
<tr><td>Sharpness</td><td>A high value results in a sharper picture; a low value softens the picture.</td></tr>
<tr><td>Color Temperature</td><td>Adjust the color temperature value.</td></tr>
</table>

Eye Care

Eye Care blocks high-energy blue light for a more comfortable viewing experience.



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 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

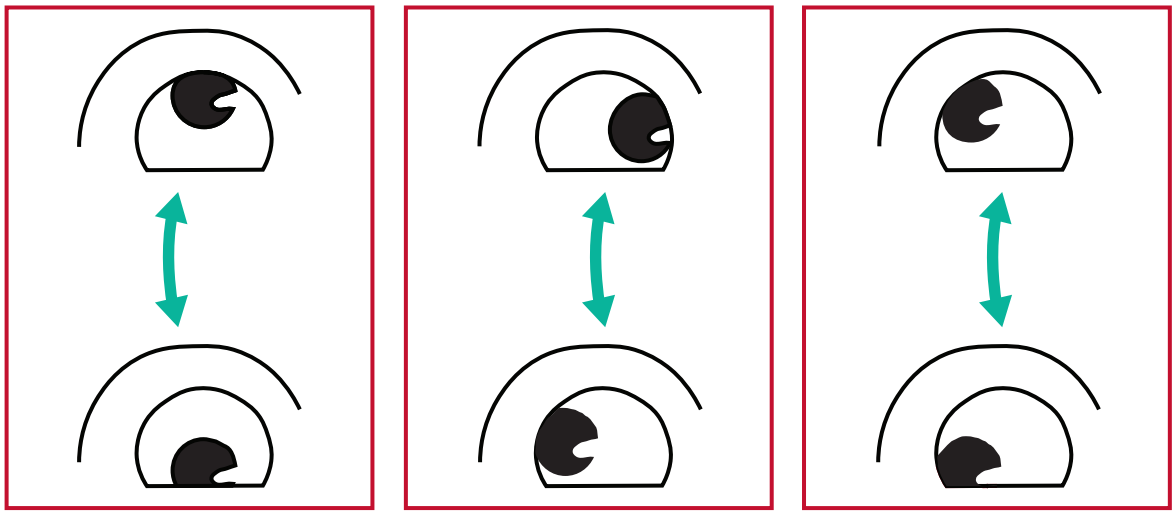
While taking breaks, users can further reduce eye strain and dryness by focusing on objects that are further away from them for 10-15 seconds, then gaze at something up close for 10-15 seconds. Repeat this up to 10 times. This exercise reduces the risk of your eyes' focusing ability to "lock up" after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

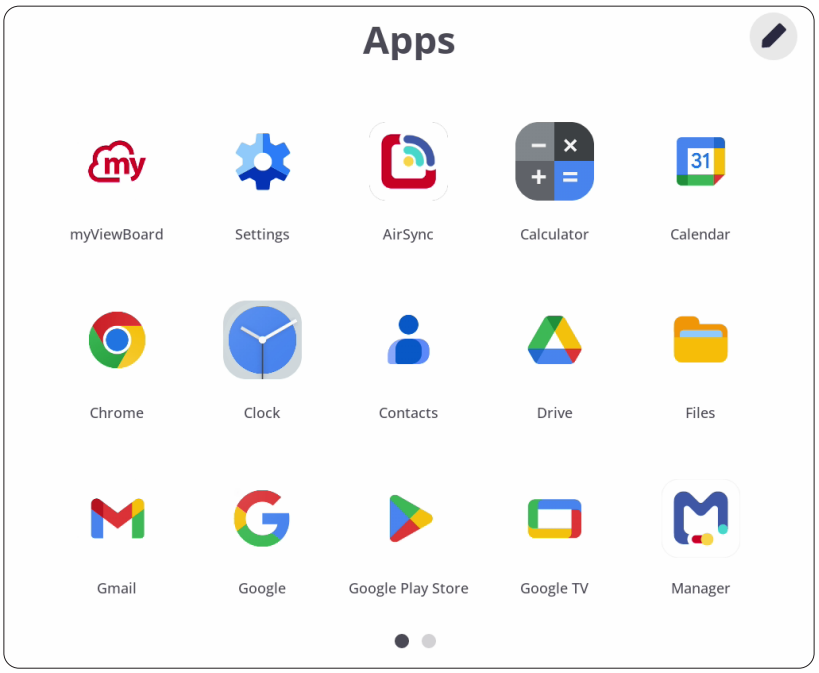
(3) Move the eyes to look at objects at the right upper direction and then right lower direction. Repeat for the left upper and left lower directions.

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.

Applications

Much like any smart phone or tablet you can install several different applications.



Applications can be accessed from the Toolbar, directly from the Home Screen via shortcuts, or by selecting the **Applications** icon.

Note: The following included application descriptions are not a comprehensive list and will vary by the user.

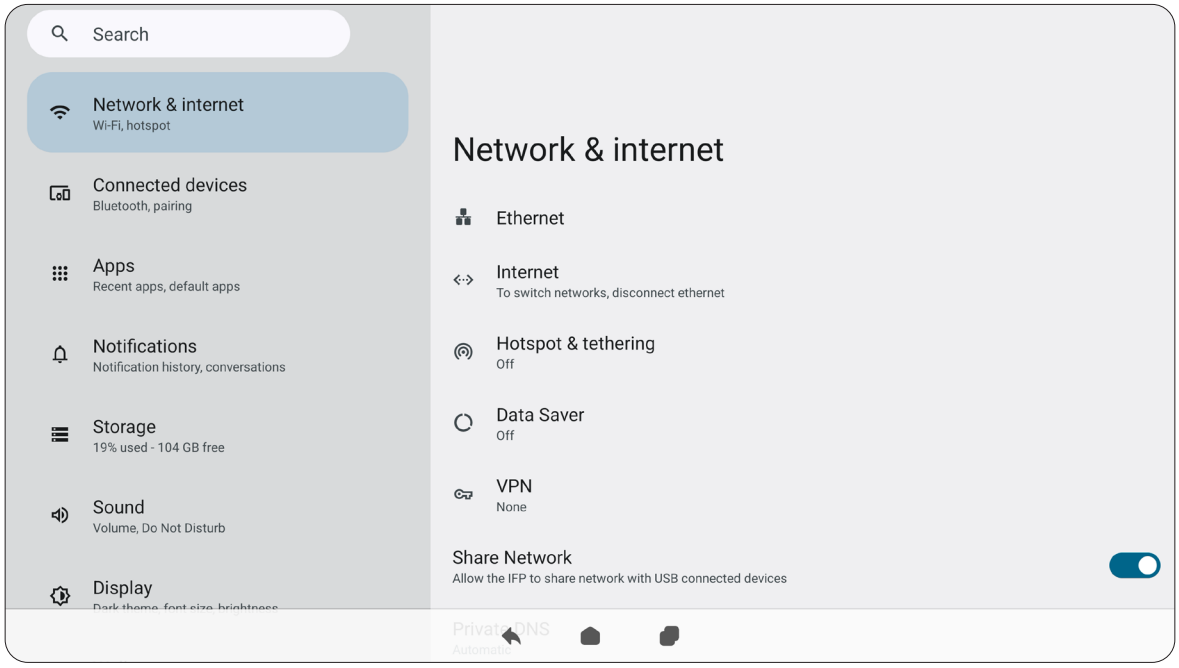
Icon	Description
	AirSync Wirelessly mirror screens to a larger display.
	Manager Remotely manage multiple installations of ViewSonic devices.
	myViewBoard A digital whiteboarding application.
	Settings Access the **System** Settings.

ViewBoard Settings

Android Launcher

Network & Internet

Check current connection status, set up and manage Wi-Fi, Ethernet, VPN, and wireless Hotspot.



Item	Description
Ethernet	Set the Ethernet network settings.
Internet	Set up and manage Ethernet and Wi-Fi connection, as well as Network preferences.
Airplane Mode	When enabled, all wireless communication will be turned off.
Hotspot & Tethering	Set and share your internet connection with other devices.
Data Saver	When enabled, most apps and services will get background data via an internet connection. Active apps will not be affected.
VPN	Set up and manage Virtual Private Networks.

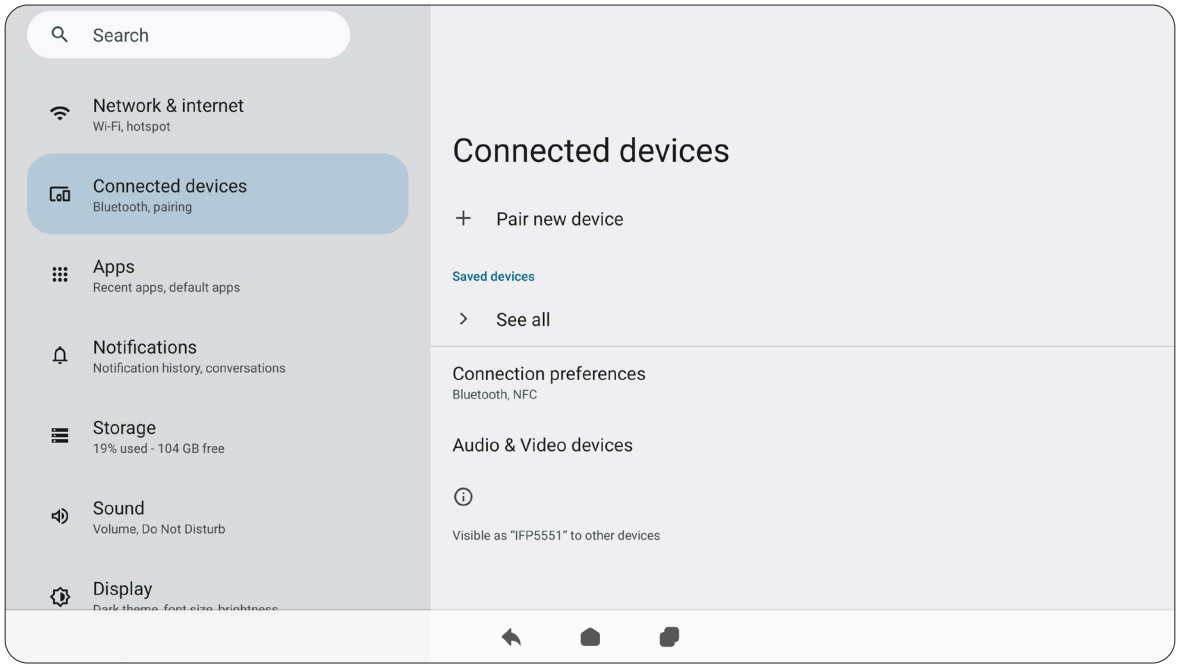
Item	Description
Share Network	Enable to share the network with other USB connected devices.
Private DNS	Maintain an Automatic Private DNS or set one up manually for security and privacy.

Note:

- Wi-Fi, Hotspot, and Bluetooth settings will appear when an optional Wi-Fi card (e.g., VB-WIFI-005) has been installed in the Wi-Fi Slot.
- Ethernet will take priority when both Ethernet and Wi-Fi are enabled.
- The device can connect to the Internet when Hotspot is enabled.

Connected Devices

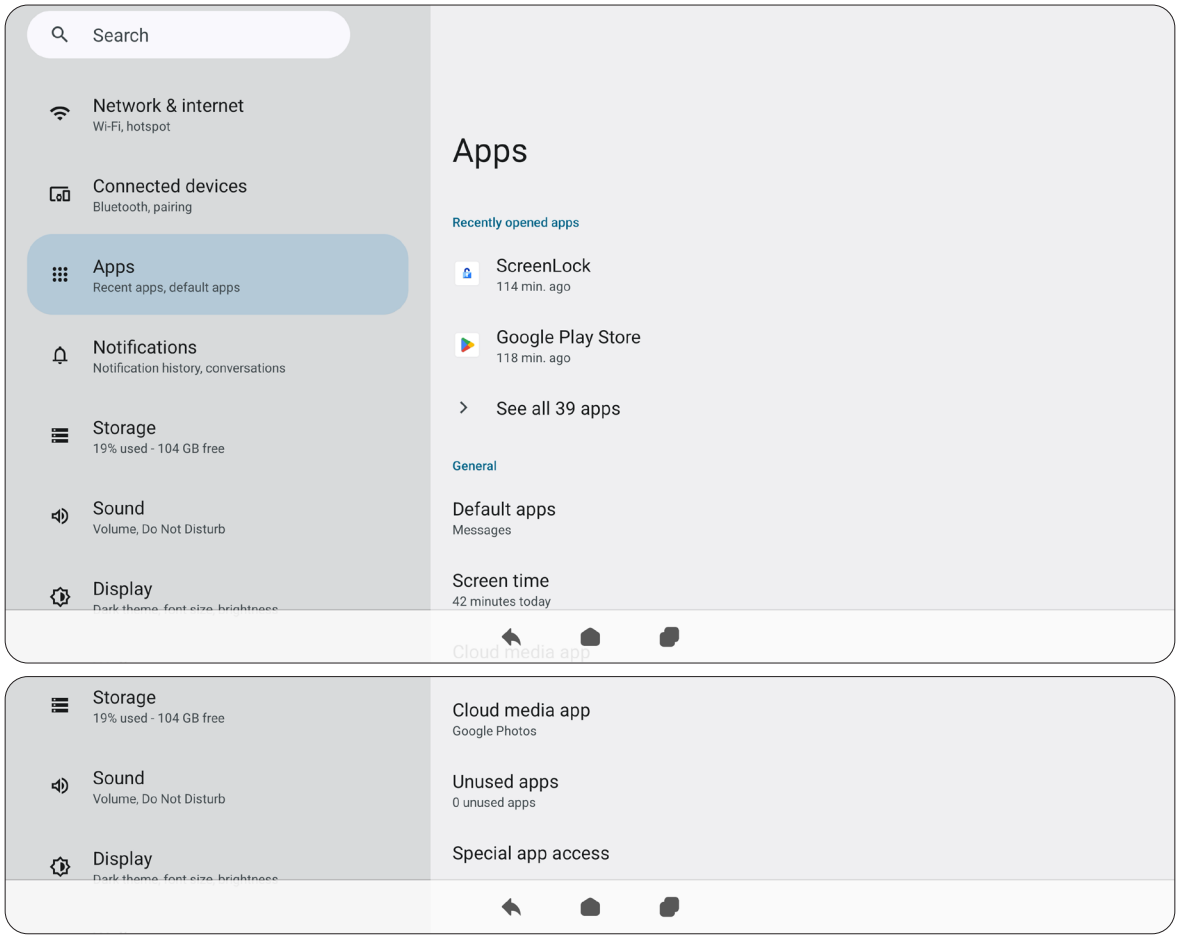
Set up and manage Bluetooth connections, saved devices, and connection preferences for Bluetooth, Casting, and Print Services.



Item	Description
Pair New Device	Enable Bluetooth to search for and connect to a Bluetooth device.
Saved Devices	View all previously connected Bluetooth devices. **Note:** Bluetooth will turn on.
Connection Preferences	View Bluetooth, Cast, and Print Service preferences and share files with nearby devices.
Audio & Video Devices	View all USB connected devices.

Apps

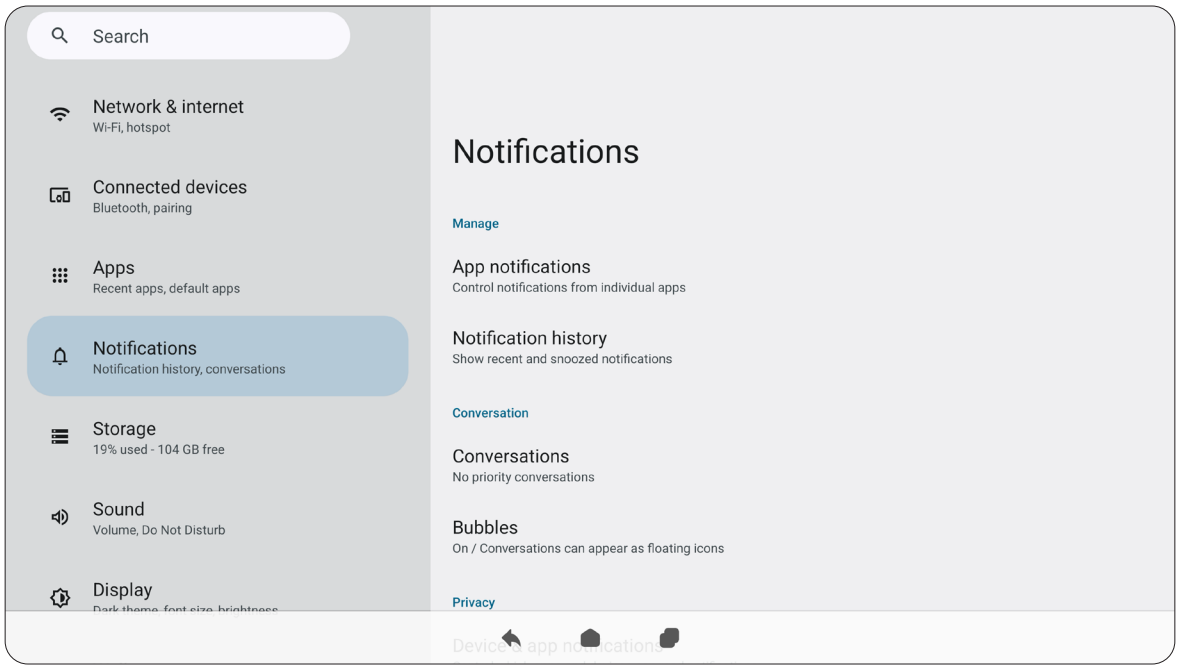
View any running or installed applications. Tap on them for more detailed information and options.



Item	Description
Recently Opened Apps	Any recently used applications will be listed here.
Default Apps	Set default applications for certain uses (e.g., default browser application).
Screen Time	Displays the total amount of time the ViewBoard has been in use by the day.
Cloud Media App	Set your cloud media items (e.g., photos, videos, etc.) locally on the ViewBoard.
Unused Apps	Applications that have not been used for a certain period of time will be listed here.
Special App Access	Set several access permissions for applications.

Notifications

Manage notification and conversation settings and preferences.

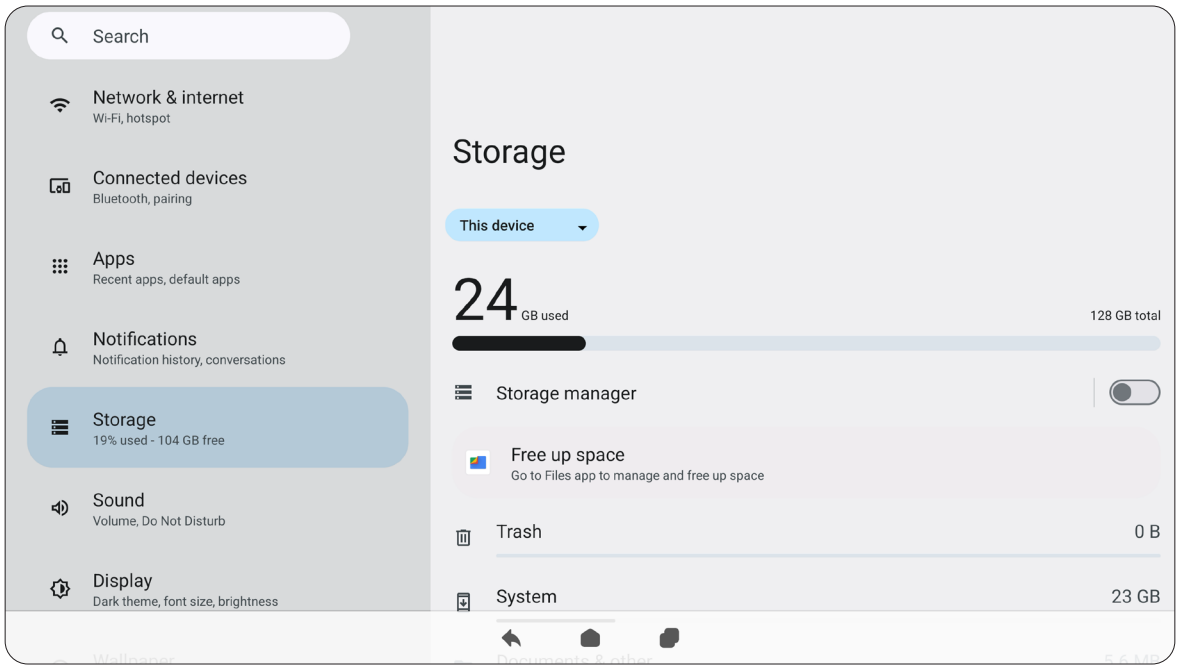


Item	Description
App Notifications	Set up notification settings for individual applications.
Notification History	View recent notifications.
Conversations	Set previously received notifications or messages as priority.
Bubbles	When enabled, conversations can appear as a floating icon on screen.
Device & App Notifications	Control which applications and devices can read notifications.
Notifications on Lock Screen	Choose to show all, some, or no conversations or notifications on the lock screen.
Do Not Disturb	Set notification preferences for when “Do Not Disturb” mode is turned on.
Flash Notifications	Set the screen or camera to light up every time a notification comes in.
Wireless Emergency Alerts	Choose to receive or not receive Emergency Alerts.

Item	Description
Hide Silent Notifications in Status Bar	When enabled, notifications that have been “silenced” will no longer appear in the status bar area.
Allow Notification Snoozing	When enabled, notifications can be “snoozed” for a short period of time for applications.
Notification Dot on App Icon	When enabled, a small dot will appear on the application icon when there is a new notification available.
Enhanced Notifications	When enabled, receive suggestions for actions, replies, etc.

Storage

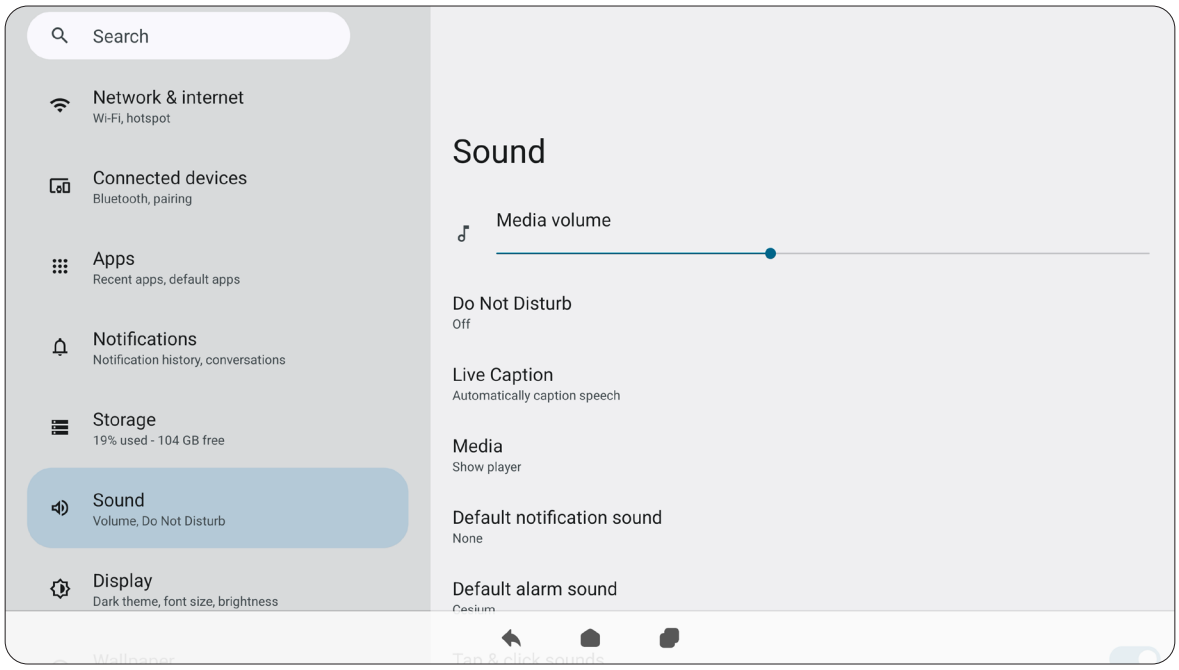
Check the storage status of the ViewBoard.



Item	Description
Storage Manager	When enabled, the storage manager will remove backed up photos and videos.
Trash	View and manage files that have been moved to the Trash.
System	View the total storage space of system files.
Documents & Other	View and manage the Documents folder.
Games	View and manage the storage space used by gaming applications.
Apps	View and manage the storage space used by applications.
Audio	View and manage the Audio folder.
Videos	View and manage the Video folder.
Images	View and manage the Images folder.

Sound

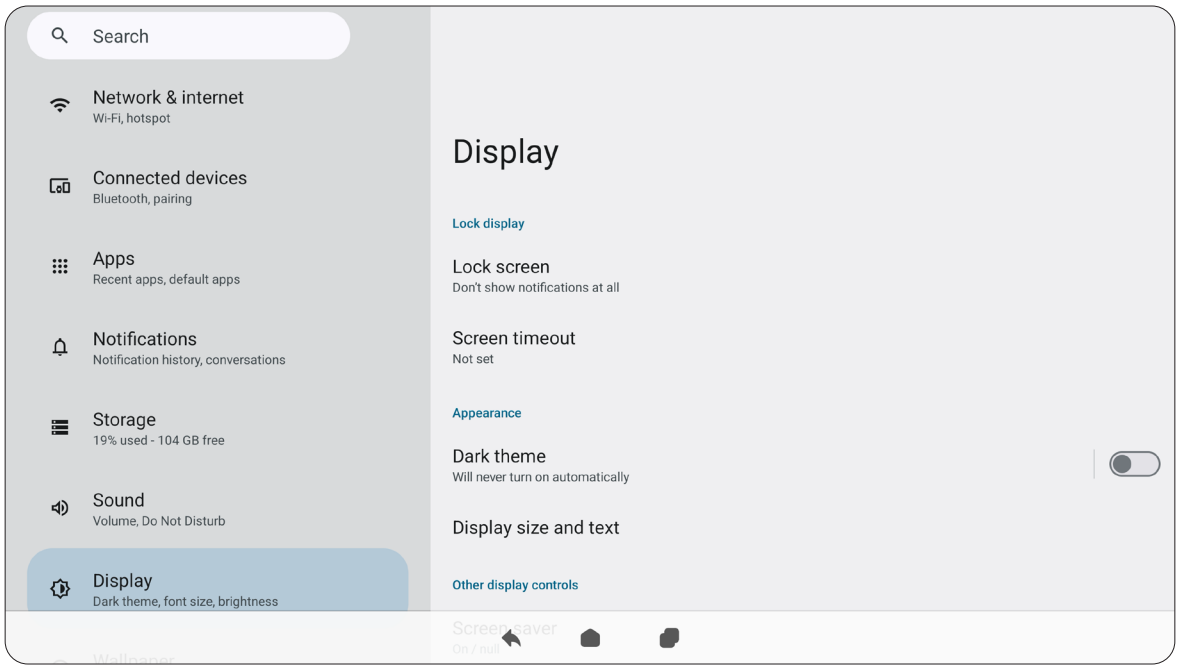
Adjust the volume level and set up varies sound preferences.



Item	Description
Media Volume	Adjust the volume level.
Do Not Disturb	Set sound preferences for when “Do Not Disturb” mode is turned on.
Live Caption	When enabled, automatically caption.
Media	Set the media player preferences.
Default Notification Sound	Choose the default sound effect for notifications.
Default Alarm Sound	Choose the default sound for alarms.
Tap & Touch Sounds	When enabled, a sound effect will play every time a touch or tap input is received.

Display

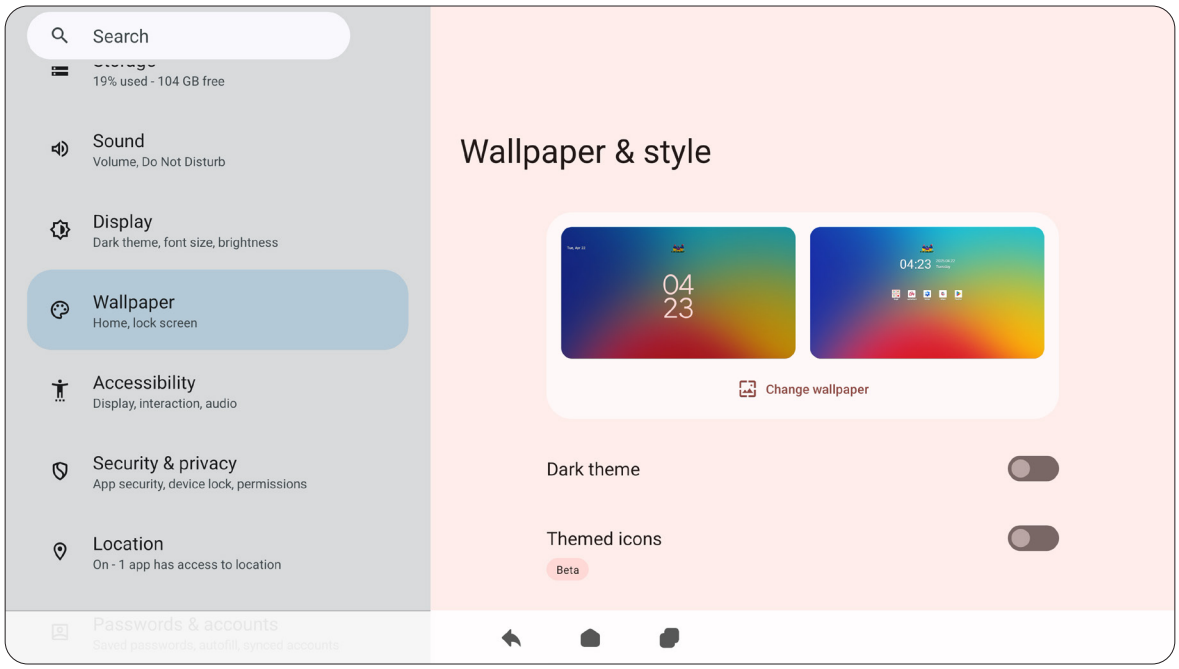
Adjust Brightness, Timeout, Theme, HDMI CEC, and other display related settings.



Item	Description
Lock Screen	Set lock screen preferences.
Screen Timeout	Set when the screen will lock after a period of inactivity.
Dark Theme	When enabled, the brighter default background color will be changed to a darker one.
Display Size and Text	Adjust the overall display size or only the text size.
Screen Saver	When enabled, a screen saver will play when the ViewBoard is not in use.

Wallpaper & Style

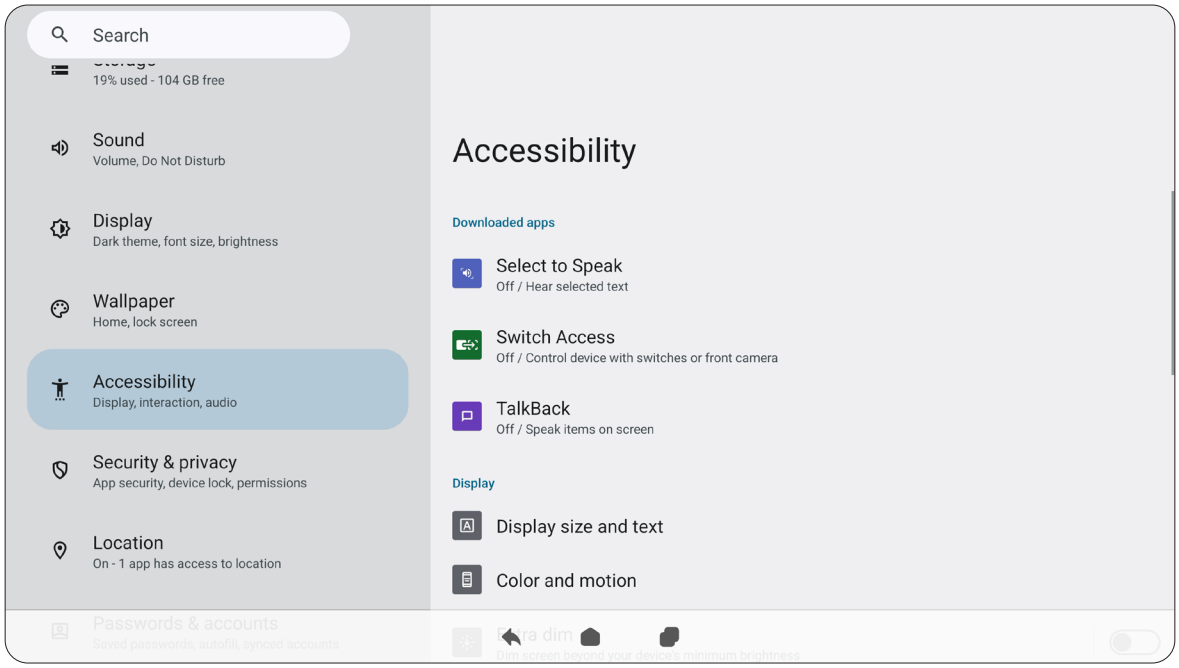
Adjust and personalize the Wallpaper, Colors and theme of the ViewBoard.



Item	Description
Change Wallpaper	Select a wallpaper for the background.
Dark Theme	When enabled, the brighter default background color will be changed to a darker one.
Themed Icons	Set a set of icons that match the style of the application icons on the Home Screen with your wallpaper.

Accessibility

View and adjust various tools that can help people with visual, auditory, speech, or physical disabilities use the ViewBoard.

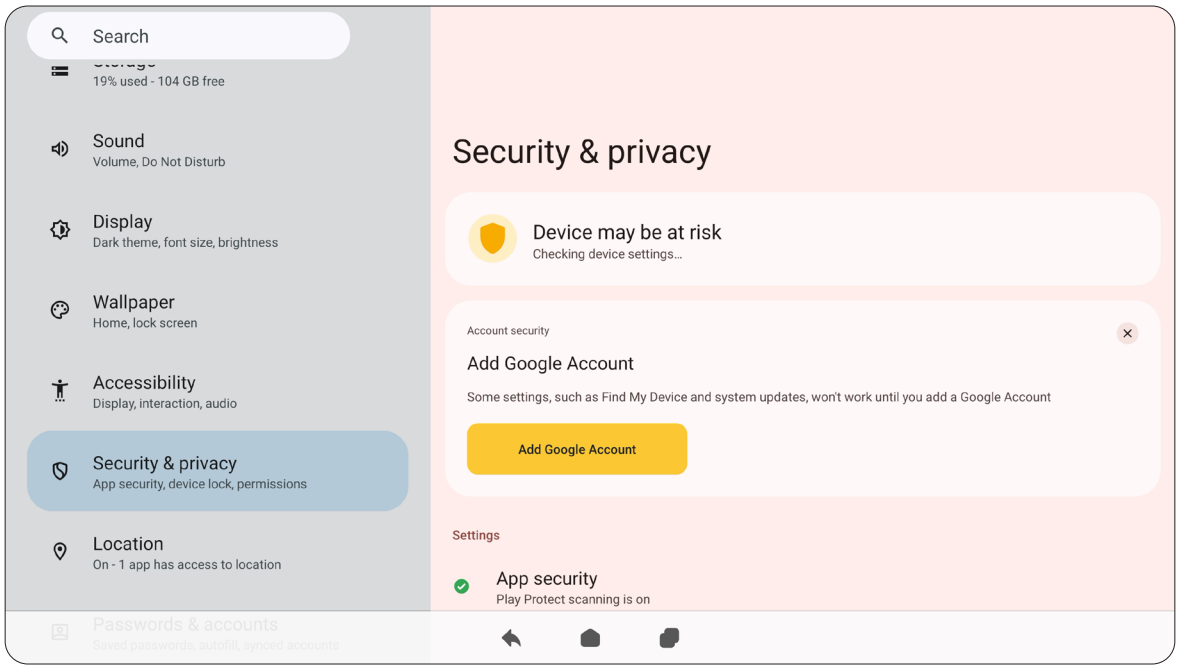


Item	Description
Select to Speak	When enabled, certain on-screen items will be read or described aloud when tapped (e.g., text or image).
Switch Access	Allows the use of one or more switches (e.g., keyboard, controller, etc.) to control the ViewBoard.
TalkBack	When enabled, device actions will be described by audio so it can be used without looking at the screen.
Display Size and Text	Adjust the overall display size or only the text size.
Color and Motion	Apply color correction and inversion and enlarge the mouse pointer.
Extra Dim	Dim the screen for a more comfortable viewing experience.
Magnification	Zoom in on the screen to enlarge the content.
Accessibility Menu	Add a shortcut for a enlarged on-screen menu to control the device.
Timing Controls	Adjust how long temporary messages that ask for an action are on screen, enable Auto click, and adjust the touch and hold delay time.
System Controls	Adjust the way to navigate the system.

Item	Description
Live Caption	Set the live caption preferences.
Caption Preferences	Enable captions and adjust the size and style.
Audio Description	When enabled, an audio description of what is happening on screen in supported movies and shows will be given.
Flash Notifications	Set the screen or camera to light up every time a notification comes in.
Audio Adjustment	Combine audio channels into a single mono channel.
Accessibility Shortcuts	Adjust the shortcut settings and availability on the lock screen.
Text-to-Speech Output	When set up, text can be read out loud.

Security & Privacy

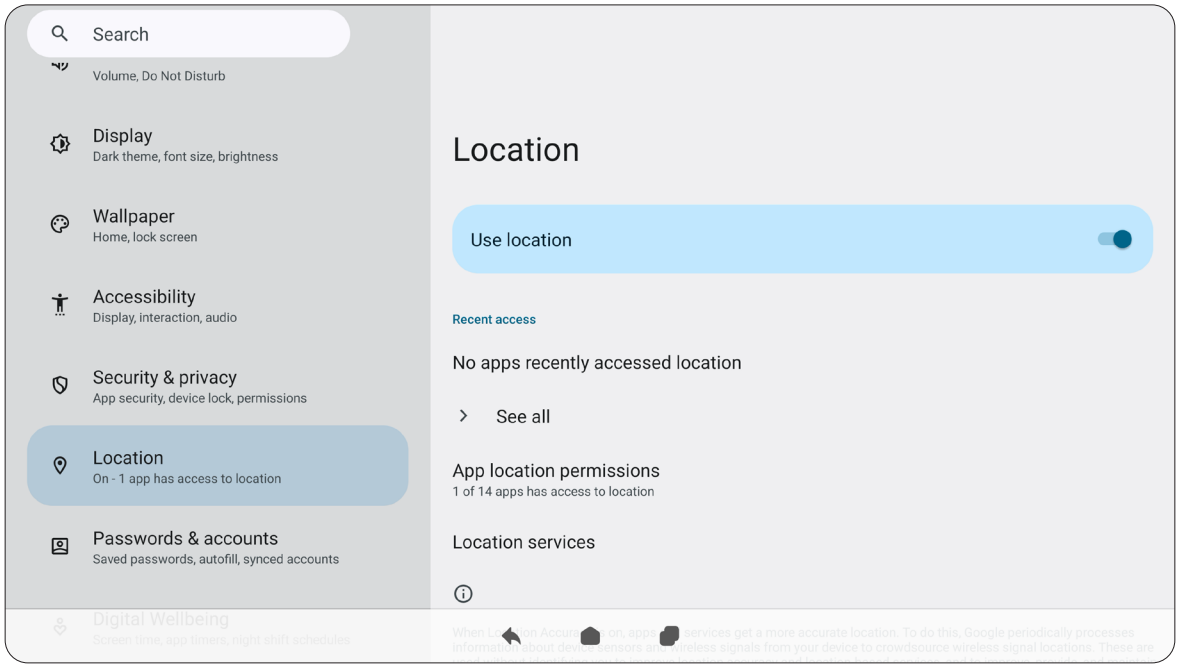
Review and adjust device security and privacy settings.



Item	Description
Device May Be at Risk	Scans regularly if the ViewBoard is safe from any harmful behaviors. Recommendations, and actions, will also be given to enhance the overall security and privacy.
Add Google Account	Add, remove, and manage your Google accounts linked to your ViewBoard.
App Security	Manage permissions for installed applications.
Device Unlock	Set the preferred options to lock/unlock the ViewBoard.
Account Security	Manage security permissions for all accounts on the ViewBoard.
Device Finders	Locate the ViewBoard remotely.
System & Updates	Check for system and security updates.
Privacy	Manage application access to your data (e.g., location or camera permissions, etc.)
More Security & Privacy	View and adjust additional security and privacy settings.
More Security Settings	View and adjust various security-related settings.

Location

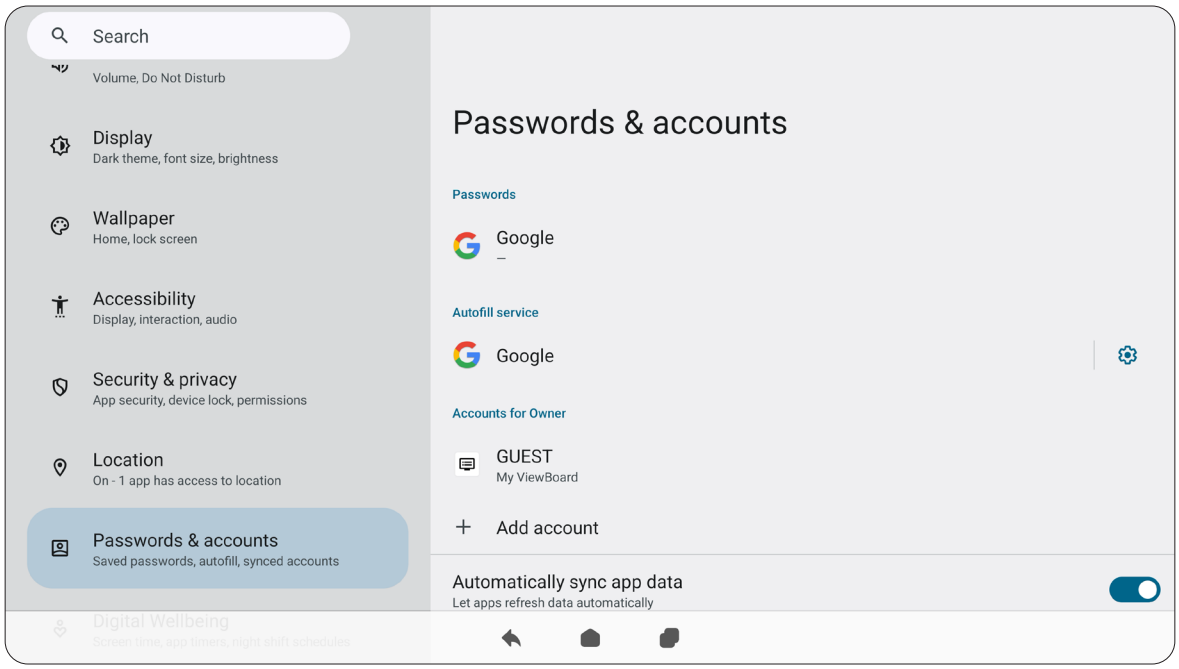
View and manage location settings.



Item	Description
Use Location	When enabled, the location of the device will be accessible to applications.
Recent Access	Review which applications recently accessed the device's location.
App Location Permissions	Review which applications have permission to access the device's location.
Location Services	Turn on or off various alerts, services, and scanning related to location and location accuracy.

Passwords & Accounts

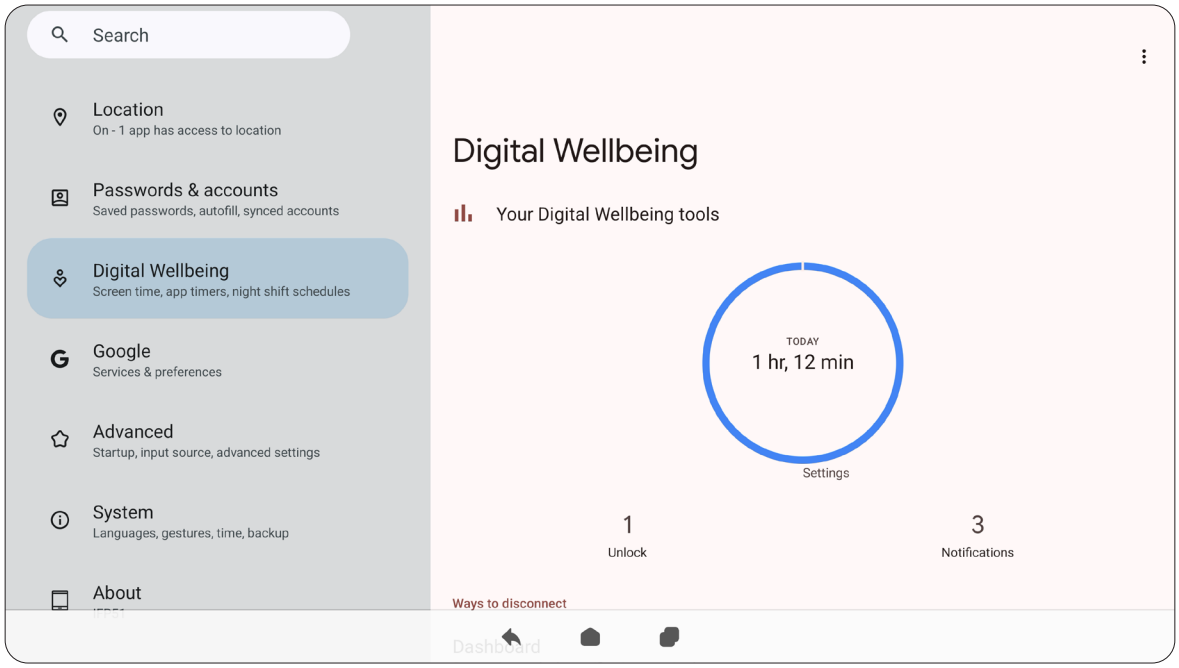
Review saved passwords, select autofill services, and add accounts.



Item	Description
Passwords	Review saved passwords.
Autofill Service	Select which autofill service to use, if any.
Accounts for Owner	Add or remove accounts.
Automatically Sync App Data	When enabled, applications can refresh data automatically.

Digital Wellbeing

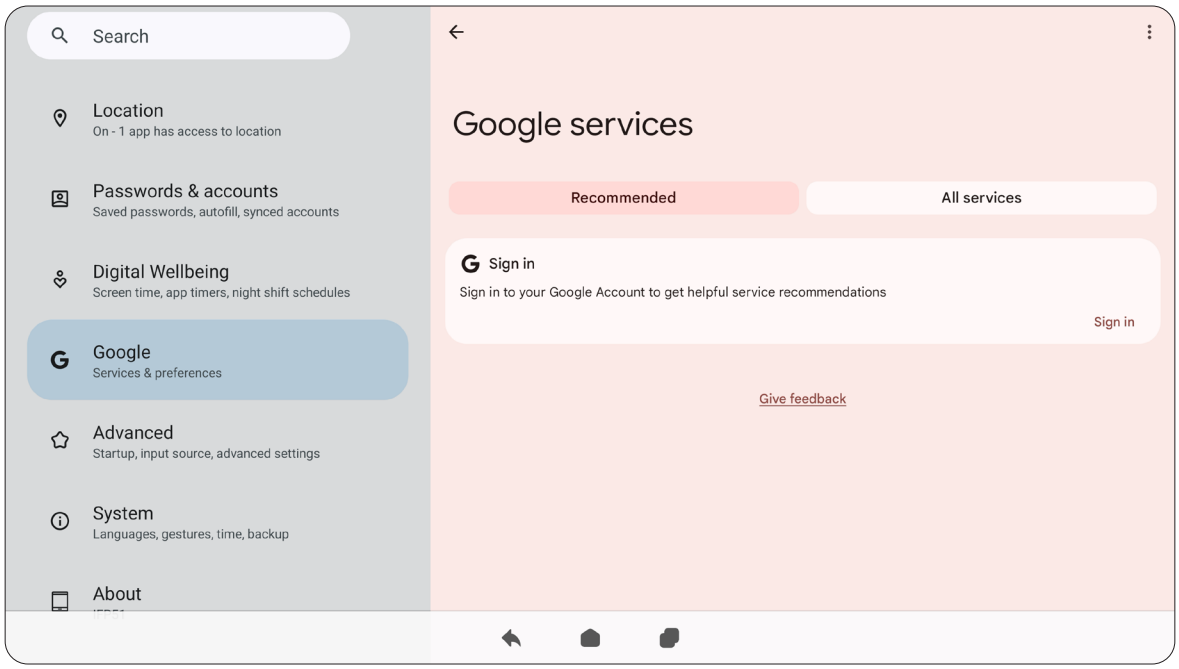
Review the ViewBoard's usage time, and set up various tools to promote a better balance with the device.



Item	Description
Your Digital Wellbeing Tools	A brief overview of device usage, unlocks, and notifications.
Dashboard	Review screen time, number of notifications, and number of device unlocks.
Night Shift	Reduce the amount of blue light emitted by the ViewBoard's screen.
Manage Notifications	Review which applications can send notifications.
Do Not Disturb	Set notification preferences for when "Do Not Disturb" mode is turned on.
Heads Up	Set notification preferences when you're moving with the ViewBoard.
Show Icon in the App List	Hide or display the Digital Wellbeing icon from your app list.

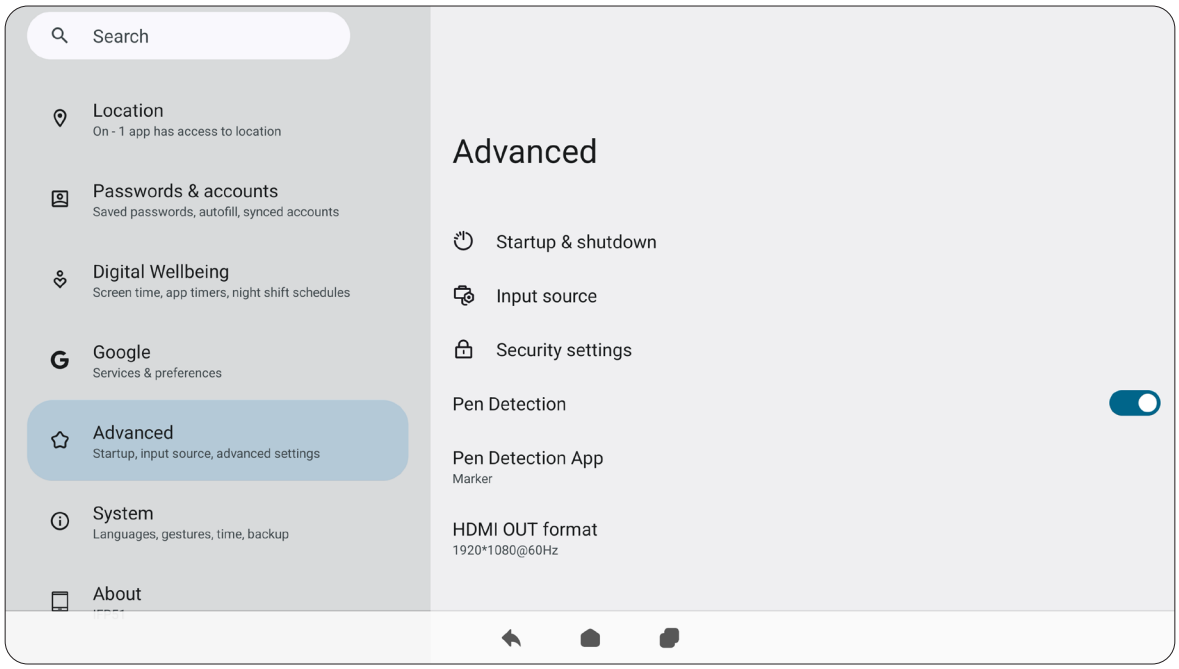
Google

Review all of Google’s services and set up preferences.



Advanced

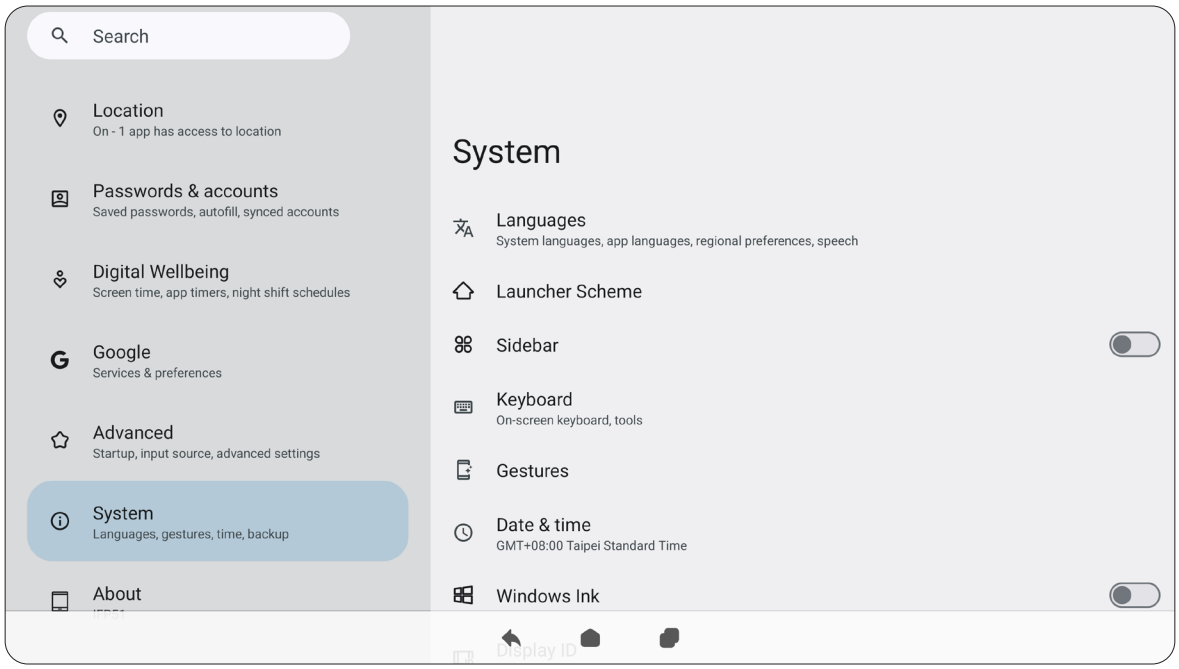
View and adjust various system settings.



Item	Description
Startup & Shutdown	Set the startup and shutdown settings.
Input Source	Adjust the input source names, HDMI CEC, and other input source settings.
Security Settings	Set a password for the ViewBoard or the advanced settings, or manage the permissions to install applications from unknown sources.
Pen Detection	Enable the Pen detection function.
Pen Detection App	Set the preferred app when the Touch Pen is detected.
HDMI Out Format	Se the preferred HDMI Out Resolution settings.

System

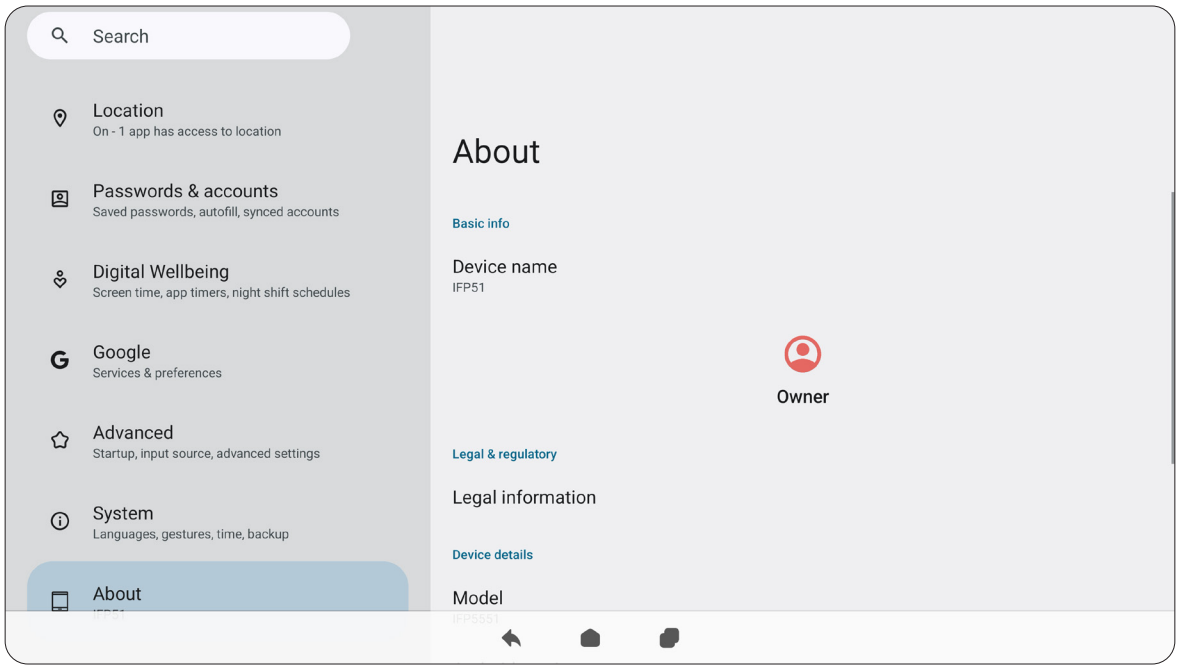
View and adjust various system settings.



Item	Description
Languages	Choose the preferred language and input method.
Launcher Scheme	Choose between Scheme A and Scheme B to set the Home Screen layout.
Sidebar	Adjust the side toolbar settings.
Keyboard	Enable/disable the visual keyboard and/or change the default input method.
Gesture	Set the preferred touch gestures when using the ViewBoard.
Date & Time	Set the date and time.
Windows Ink	Enable and set up Windows Ink support.
Display ID	Assign a number to remote control the display by RS-232/ LAN.
Backup	With a Google account, back up the device's data.
ViewSonic System Update	Check for system updates.
Multiple Users	Review who is signed in and the available user logins.
Reset Options	Reset the ViewBoard to factory default settings.

About Device

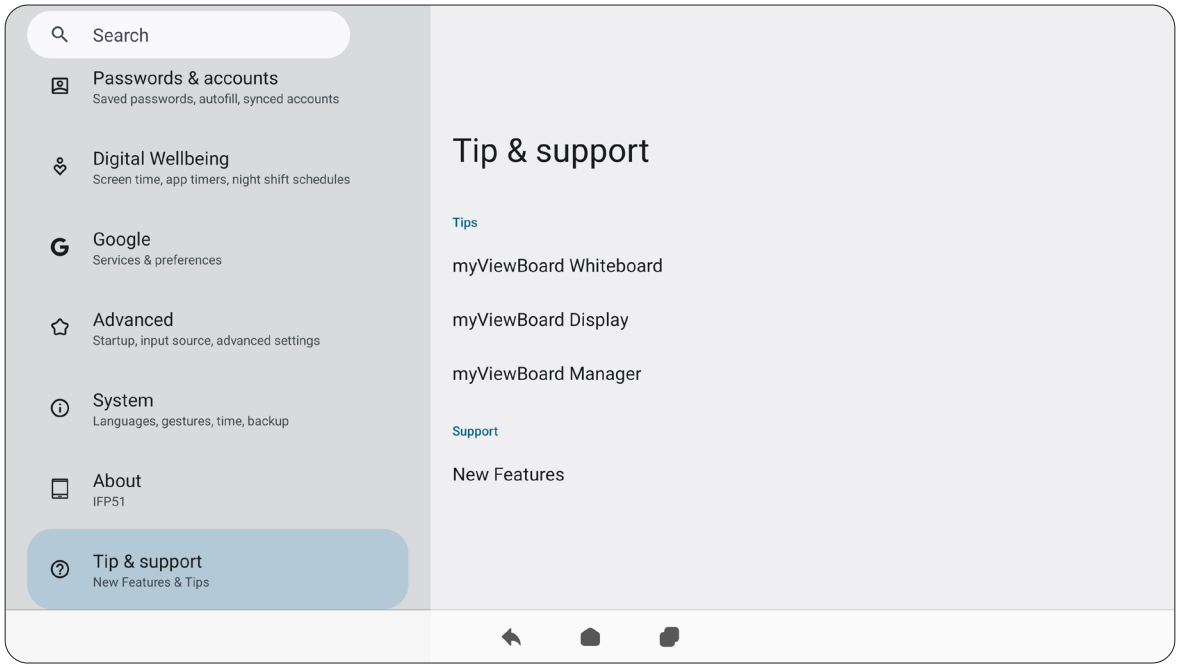
Review device information.



Item	Description
Device Name	View the name of the device.
Legal Information	View the relevant legal information.
Model	View the model of the ViewBoard.
Android Version	View the installed version of Android.
IP Address	View the IP Address.
Ethernet Address	View the Ethernet Address.
Wi-Fi MAC Address	View the Wi-Fi MAC Address.
Device Wi-Fi MAC Address	View the Device Wi-Fi MAC Address.
Bluetooth Address	View the Bluetooth Address.
Up Time	View how long the device has been in operation.
Build Number	View the build number.

Tips & Support

View new features, tips, and get support for the myViewBoard Whiteboard, myViewBoard Display, and myViewBoard Manager applications.



Android Settings Menu Tree

<table>
<tr><th>Menu</th><th>Sub-menu</th><th colspan="3">Menu Option</th></tr>
<tr><td rowspan="15">Network & Internet</td><td rowspan="8">Ethernet</td><td>DHCP</td><td rowspan="8"></td><td rowspan="13"></td></tr>
<tr><td>Static IP</td></tr>
<tr><td>IP Address</td></tr>
<tr><td>Dafault gateway</td></tr>
<tr><td>Netmask</td></tr>
<tr><td>DNS</td></tr>
<tr><td>Proxy</td></tr>
<tr><td>Mac address</td></tr>
<tr><td rowspan="7">Internet</td><td rowspan="2">Wi-Fi</td><td>Wi-Fi list</td></tr>
<tr><td>Add network</td></tr>
<tr><td rowspan="4">Network Preferences</td><td>Turn on Wi-Fi automatically</td></tr>
<tr><td>Notify for public networks</td></tr>
<tr><td>Share Wi-Fi only via a QR code</td></tr>
<tr><td>Install certificates</td><td>Recent</td></tr>
<tr><td>Wi-Fi direct</td><td rowspan="3"></td></tr>
<tr><td>Saved Networks</td><td>Other networks</td></tr>
<tr><td>Non-carrier data usage</td><td></td></tr>
</table>

Menu	Sub-menu	Menu Option		
Network & Internet	Hotspot & tethering	Wi-Fi hotspot	Use Wi-Fi hotspot	
			Hotspot name	
			Security	WPA2-Personal
			Turn off hotspot automatically	
			Extend compatibility	
		USB tethering		
		Bluetooth tethering		
	Data Saver	Unrestricted data		
	VPN	VPN+		
		VPN list		
	Shared network			
	Private DNS	Off		
		Automatically		
		Private DNS provider hostname		
		Enter hostname of DNS provider		

Menu	Sub-menu	Menu Option		
Connected Devices	USB	Connected device		
		This device		
		File transfer		
		USB tethering		
		PTP		
		No data transfer		
		Convert video to AVC		
		Charge connected device		
	Pair new device	Device name		
		Available devices		
	See all	Saved devices		
	Connection preferences	Bluetooth	Use NFC Bluetooth	
			Device name	
			Pair new device	
		NFC	Use NFC	
			Contactless payments	Default payment app
				Use default payment app
		Cast	Cast list	
		Printing	Default print Service	
			Add service	
		Quick share	Account	
			Device name	
			Who can share with you	

Menu	Sub-menu	Menu Option		
Connected Devices	Audio & video devices	Camera		
		Mic	Auto	
			Off	
			USB-audio touch device	
		Mic	Auto	
			Speaker	
			HDMI out	
		Speaker		
Apps	Recently opened apps	App list	App info	
			Notifications	
			Permissions	Location
				Phone
				Camera
				Pause app activity is unused
			Storage & cache	Clear storage/cache
				App size
				User data
				Cache
				Total
			Mobile data & Wi-Fi	Total
				Foreground
				Background
			Screen time	App timer
				Manage notifications
				App used in the background

<table>
<tr><th>Menu</th><th>Sub-menu</th><th colspan="3">Menu Option</th></tr>
<tr><td rowspan="15">Apps</td><td rowspan="9">Recently opened apps</td><td rowspan="9">App list</td><td rowspan="3">App battery usage</td><td>Unrestricted</td></tr>
<tr><td>Optimized</td></tr>
<tr><td>Restricted</td></tr>
<tr><td>Open by default</td><td>Open supported links</td></tr>
<tr><td>Pause app activity if unused</td><td rowspan="2"></td></tr>
<tr><td rowspan="2">Display over other apps</td></tr>
<tr><td>Allow display over other apps</td></tr>
<tr><td>Modify system settings</td><td>Allow modifying system settings</td></tr>
<tr><td>Version</td><td rowspan="7"></td></tr>
<tr><td rowspan="6">Default apps</td><td>Browser app</td><td>Default browser app</td></tr>
<tr><td rowspan="3">Digital assistant app</td><td>Use text from screen</td></tr>
<tr><td>Use screenshot</td></tr>
<tr><td>Flash screen</td></tr>
<tr><td>Home app</td><td>Default home app</td></tr>
<tr><td>SMS app</td><td>Default SMS app</td></tr>
<tr><td rowspan="2">Opening links</td><td>Instant apps</td></tr>
<tr><td>Instant apps preferences</td></tr>
<tr><td>Screen time</td><td>Activity details</td><td colspan="2" rowspan="3"></td></tr>
<tr><td>Cloud media app</td><td rowspan="2"></td></tr>
<tr><td>Unused apps</td></tr>
</table>

Menu	Sub-menu	Menu Option	
Apps	Special app access	All files access	
		Device admin apps	
		Display over other apps	
		Do not disturb access	
		Media management apps	
		Modify system settings	
		Device & app notification	
		Picture-In-Picture	
		Premium SMS access	
		Unrestricted data	
		Install unknown apps	
		Alarms & reminders	
		Usage access	
		VR helper services	
		Wi-Fi control	
		Turn screen on	
		Full screen notification	

Menu	Sub-menu	Menu Option		
Notifications	App notifications	App list	Screen lock	
			Google Play store	All Google Play store notification
				All “Alerts“ notifications
				Account
				App auto open
				Open app reminders
				Payments, Deals, and Recommendations
				Updates available
				Updates completed
				All "Essentials" notifications
				Maintenance
				Play Protect
				required
				Security and errors
				Setup
				All notification dot
	Notification history	Use notification history		
	Conversations			
	Bubbles	Allow apps to show bubbles		
	Device & app notifications	Allowed		
		Not allowed		

Menu	Sub-menu	Menu Option		
Notifications	Notifications on lock screen	Show conversations, default, and silent		
		Hide silent conversations and notification		
		Don't show any notifications		
	Sensitive notifications			
	Do not disturb	Turn on now		
		People	Messages	Starred contact
				Contacts
				Priority conversations
				Anyone
				None
			Calls	Starred contact
				Contacts
				Anyone
				None
				Allow repeat callers
		Apps	Apps	
			Add apps	
		Alarms & other interruptions	Alarms	
			Media sounds	
			Touch sounds	
			Reminders	
			Calendar events	

Menu	Sub-menu	Menu Option		
Notifications	Do not disturb	Schedules	Sleeping	User schedule
				Days
				Start time
				End time
				Alarm can override end time
				Do Not Disturb behavior
			Event	User schedule
				During events for
				Where reply is
				Do not disturb behavior
			Add more	
		Duration for quick settings	Until you turn off	
			For 1 hour	
			Ask every time	
		Display options for hidden notification	No sound from notification	
			No visuals or sound from notification	
			Custom	Don't turn on screen
				Don't wake for notifications
				Hide notification dots on app icons
				Hide status bar icons at top of screen
				Don't pop notifications on screen
				Hide from pull-down shade

Menu	Sub-menu	Menu Option		
Notifications	Flash notifications	Screen flash		
		Preview		
	Wireless Emergency Alerts			
	Hide Silent Notifications in Status Bar			
	Allow Notification Snoozing			
	Notification Dot on App Icon			
	Enhanced Notifications			
Storage	Storage manager	User storage manager		
		Remove photos & videos	Over 30 days old	
			Over 60 days old	
			Over 90 days old	
	Trash			
	System			
	Apps			
	Documents & other			
	Games			
	Apps			
	Audio			
	Videos			
	Images			

<table>
<tr><th>Menu</th><th>Sub-menu</th><th colspan="3">Menu Option</th></tr>
<tr><td rowspan="14">Sound</td><td>Media volume</td><td colspan="3"></td></tr>
<tr><td rowspan="13">Do not disturb</td><td rowspan="9">People</td><td rowspan="5">Messages</td><td>Starred contacts</td></tr>
<tr><td>Contacts</td></tr>
<tr><td>Priority conversations</td></tr>
<tr><td>Anyone</td></tr>
<tr><td>None</td></tr>
<tr><td rowspan="4">Calls</td><td>Starred contacts</td></tr>
<tr><td>Contacts</td></tr>
<tr><td>Anyone</td></tr>
<tr><td>None</td></tr>
<tr><td rowspan="2">Apps</td><td>Apps</td><td rowspan="7"></td></tr>
<tr><td>Add apps</td></tr>
<tr><td rowspan="5">Alarms & other interruptions</td><td>Alarms</td></tr>
<tr><td>Media sounds</td></tr>
<tr><td>Touch sounds</td></tr>
<tr><td>Reminders</td></tr>
<tr><td>Calendar events</td></tr>
</table>

Menu	Sub-menu	Menu Option		
Sound	Do not disturb	Schedules	Sleeping	User schedule
				Days
				Start time
				End time
				Alarm can override end time
				Do Not Disturb behavior
			Event	User schedule
				During events for
				Where reply is
				Do not disturb behavior
			Add more	
		Duration for quick settings	Until you turn off	
			For 1 hour	
			Ask every time	
		Display options for hidden notification	No sound from notification	
			No visuals or sound from notification	
			Custom	Don't turn on screen
				Don't wake for notifications
				Hide notification dots on app icons
				Hide status bar icons at top of screen
				Don't pop notifications on screen
				Hide from pull-down shade

Menu	Sub-menu	Menu Option		
Sound	Live caption	Use Live Cation		
		Language	(English only)	
		Hide profanity		
		Show sound labels		
		Live Caption in volume control		
		Help		
	Media	Pin media player		
		Show media on lock screen		
		Show media recommendations		
	Default notification sound	None		
		Adara/Aldebaran/ Selenium/...		
		Add notification		

Menu	Sub-menu	Menu Option	
Sound	Default alarm sound	None	
		Argon	
		Barium	
		Bee-Beep alarm	
		Beep-Beep-Beep alam	
		Buzzer alarm	
		Cabon	
		Cesium	
		Heium	
		Krypton	
		Neon	
		Neptunium	
		Osmium	
		Oxygen	
		Piezo alarm	
		Platinum	
		Platinum	
		Rooster alarm	
		Scandium	
		Add alarm	
	Tap & click sounds		

Menu	Sub-menu	Menu Option		
Display	Lock screen	Privacy	Show all notification content	
			Show sensitive content only when unlocked	
			Don't show notifications at all	
		Add users from lock screen		
		Add text on lock screen		
		Show device controls		
		Use device controls		
		Dynamic clock		
		Wake screen for notifications		
		Double-line clock		
	Screen timeout	15 seconds		
		30 seconds		
		1 minute		
		2 minutes		
		5 minutes		
		10 minutes		
		30 minutes		

Menu	Sub-menu	Menu Option		
Display	Dark theme	Use dark theme		
		Schedule	None	
			Turns on at custom time	
			Turns on from sunset to sunrise	
			Turns on bedtime	
	Display size and text	Font size		
		Display size		
		Bold text		
		High contrast text		
		Reset settings		
	Screen saver	Use Screen Saver		
		Screen saver	Never	
			15 min	
			30 min	
			60 min	
			90 min	
		Choose a screen saver	Clock	
			Colors	
			Photos frame	
			Photo table	
			Photo	

Menu	Sub-menu	Menu Option		
Wallpaper & Style	Wallpaper	Home screen		
		Lock screen		
	Change wallpaper	My Photos	Select a photo	
		On-device wallpapers	Preview	
		Cityscapes		
		Life		
		Textures		
		Landscapes		
		Art		
		Earth		
		Solid colors		
		Geometric shapes		
		Seascape		
		Wallpapers		
	Dark theme			
	Themed icons			

<table>
<tr><th>Menu</th><th>Sub-menu</th><th colspan="3">Menu Option</th></tr>
<tr><td rowspan="11">Accessibility</td><td rowspan="9">Select to speak</td><td>Select to speak shortcut</td><td colspan="2"></td></tr>
<tr><td rowspan="9">Settings</td><td rowspan="4">Text to speech settings</td><td>Preferred engine</td></tr>
<tr><td>Language</td></tr>
<tr><td>Speech rate</td></tr>
<tr><td>Pitch</td></tr>
<tr><td>Change reading voice</td><td rowspan="3"></td></tr>
<tr><td>Read in background</td></tr>
<tr><td>Read text on images</td></tr>
<tr><td>Help & feedback</td><td>Popular help resources</td></tr>
<tr><td rowspan="2">Developer settings</td><td>Enable taking snapshot</td></tr>
<tr><td>Allow snapshot to take detail information</td></tr>
<tr><td rowspan="2">Switch access</td><td>Use Switch Access</td><td>Choose a switch type</td><td rowspan="2"></td></tr>
<tr><td>Switch Access shortcut</td><td></td></tr>
</table>

Menu	Sub-menu	Menu Option		
Accessibility	Switch access	Settings	Help & feedback	Popular help resources
			Open setup guide	Choose a switch type
			Camera switch settings	Use camera switches
				Open mouth
				Smile
				Raise eyebrows
				Look left
				Look right
				Look up
				Enhanced visual feedback
				Enhanced audio feedback
				Keep screen on
				Ignore repeated camera switch triggers
			Assign switches for scanning	Pause camera Switch
				Auto-scan
				Reverse auto-scan
				Select
				Next
				Previous
				Touch & hold
				Scroll forward
				Scroll backward
			Assign switches to shortcuts	New shortcuts

Menu	Sub-menu	Menu Option		
Accessibility	Switch access	Settings	Enable menu customization	
			Revert to Default Menu	Restore default menu
			Auto-scan	Auto-scan time
				Delay on first item
				Number of scans
			Scanning method	Linear scanning
				Row-column scanning
				Group selection
			Point scan	Line speed
				Delay on first item
				Number of scans
				Vertical scans
				Horizontal scans
			Automatically start scanning	
			Auto-select	
			Scanning highlight style	Highlight color
				Highlight line style

Menu	Sub-menu	Menu Option		
Accessibility	Switch access	Settings	Speech, sound & vibration	Spoken feedback
				Speak descriptive text
				Verbosity
				TTS settings
				Finish speech before moving
				Maximum spoken time per item
				Vibration feedback
				Sound feedback
				Sound volume
				Audio ducking
			Ignore repeated presses	
			Release to perform action	
			Privacy policy	
			Developer settings	Version
				Display speech output
				Delete all shortcuts
				Log output level

Menu	Sub-menu	Menu Option		
Accessibility	TalkBack	Use TalkBack		
		TalkBack shortcut		
		Settings	New features in TalkBack	
			Text-to-speech settings	Preferred engine
				Language
				Speech rate
				Pitch
				Play/Reset
			Verbosity	Choose a preset
				Speak usage hints
				Speak list and grid info
				Always speak number of list items
				Speak element type
				Speak window names
				Speak notifications when screen is off
				Use pitch changes
				Speak letters with examples
				Keyboard echo: On-screen keyboard
				Keyboard echo: Physical keyboard
				Capital letters
				Speak all progress updates
				Speak element IDs
				Speak punctuation and symbols

Menu	Sub-menu	Menu Option		
Accessibility	TalkBack	Settings	Sound	Accessibility volume
				TalkBack speech rate
				Sound feedback
				Sound feedback volume
				Audio ducking
			Customize focus	Thick borders
				Color default
				Red
				Orange
				Yellow
				Green
				Blue
				Grey
			Customize Gestures	Practice gestures
				Reset gesture setting
				Swipe up/Swipe down/Swipe left/...
			Customize menus	Customized TalkBack menu
				Customized reading controls
			Image & icon descriptions	Detailed image descriptions
				Automatic image descriptions
				Automatic icon descriptions
				Automatic descriptions for text in image

Menu	Sub-menu	Menu Option		
Accessibility	TalkBack	Settings	Braille keyboard	Set up braille keyboard
				Review all gestures
				Languages
				Preferred typing language
				Preferred braille grade
				Layout
				Include all pressed dots
				Reverse dots
			Braille display	Use braille display
				Look for new device
				Languages
				Preferred reading language
				Preferred typing language
				Preferred braille grade
				Braille display commands
				Braille elements
				Auto-connect
				Auto-scroll

Menu	Sub-menu	Menu Option		
Accessibility	TalkBack	Settings	Advanced settings	Speak passwords
				Custom labels
				Single-tap to activate
				Element description order
				Time format
				Reduce window announcement delay
				Typing preference
				Touch and hold delay when typing
				Keyboard shortcut
				Developer settings
				Privacy policy
				Terms of service
			Open Talkback at the Play Store	
			TalkBack tutorial	
			Help & feedback	
			Contact Google disability support	
	Display size and text	Font size		
		Display size		
		Bold text		
		High contrast text		
		Reset settings		

Menu	Sub-menu	Menu Option		
Accessibility	Color and motion	Color correction	Use color correction	
			Red-green	
			Red-green	
			Blue-yellow	
			Grayscale	
			Color correction shortcut	
		Color inversion	Use color inversion	
			Color inversion shortcut	
		Dark theme	Use dark theme	
			Schedule	None
				Turns on a custom time
				Turns on from sunset ro sunrise
				Turns on at bedtime
	Large mouse pointer			
	Extra dim	Make scree extra dim		
		Intensity		
		Keep on after device restarts		
		Extra dim shortcut		

Menu	Sub-menu	Menu Option		
Accessibility	Magnification	Magnification shortcut		
		Magnification type	Magnify full screen	
			Magnify part of screen	
		Magnify typing		
		Keep on while switching apps		
	Accessibility menu	Accessibility Menu shortcut		
		Settings	Large button	
			Help & feedback	
	Time controls	Touch & hold delay	Short	
			Medium	
			Long	
		Time to take action	Default	
			10 seconds	
			30 seconds	
			1 minute	
			2 minutes	
		Autoclick	Autoclick off	
			Short	
			Medium	
			Long	
			Custom	

Menu	Sub-menu	Menu Option		
Accessibility	System controls	Navigation mode	Gesture navigation	Swipe to invoke assistant
				Left edge
				Right edge
				Hold Home for Assistant
			3-button navigation	
			Side toolbar navigation	
	Live caption	Use live caption		
		Languages		
		Hide profanity		
		Show sound labels		
		Live caption in volume control		
		Help		
	Caption preferences	Show captions		
		Caption size and style	Text size	Very small
				Small
				Medium
				Large
				Very large
			Cation style	Set by app
				White on black
				Black on white
				Yellow on black
				Yellow on blue
				Custom
		More options	Languages	

Menu	Sub-menu	Menu Option		
Accessibility	Audio description			
	Flash notifications	Screen flash		
		Preview		
	Audio adjustment	Mono audio		
	Accessibility shortcuts	Accessibility button	Location	Floating over other apps
				Navigation bar
			Size	Small
				Large
			Fade when not in use	
			Transparency when not in use	
		Shortcut from lock screen		
	Text-to-speech output	Preferred engine		
		Language		
		Speech rate		
		Pitch		
		Play/Reset		

Menu	Sub-menu	Menu Option		
Security & Privacy	Device may be at risk			
	Add Google Account			
	Check for security updates			
	Check for system updates			
	App security	Google Play protect		
	Device unlock	Screen lock PIN	Enhanced PIN privacy	
			Lock after screen timeout	Immediately
				5 seconds
				15 seconds
				30 seconds
				1 minute
				2 minute
				5 minute
				10 minute
				30 minute
				Never
	Account security	Google security Checkup		
		Password checkup		
	Device finders	Find my device	Use find my device	
		Unknow tracker alerts		

Menu	Sub-menu	Menu Option		
Security & Privacy	System & updates	Check for security updates		
		Check for system updates		
		Security update		
		Google Play system update		
		Backup		
	Privacy	Permission manager		
		Privacy dashboard		
		Ads	Ad privacy	Ad topics
				App-suggested ads
				Ad measurement
			Reset advertising ID	
			Delete advertising ID	
			Enable debug logging for ads	
		Health connect		
		Data sharing updates for location		
		Camera access		
		Microphone access		
		Show clipboard access		
		Show passwords		

Menu	Sub-menu	Menu Option		
Security & Privacy	Privacy	Location access	Use location	
			No apps recently accessed location	
			App location permissions	
			Location services	
		Activity controls		
	More security settings	Accessibility usage		
		Notifications on lock screen	Show all notification content	
			Show sensitive content only when unlocked	
			Don't show notifications at all	
		Show media on lock screen		
		App content		
		Android system Intelligence	Device learning	
			Keyboard	
			On-device recognition	
			Clear data	Last hour
				Last 24 hours
				All time

Menu	Sub-menu	Menu Option		
Security & Privacy	More security settings	Encryption & credentials	Encrypt device	
			Trusted credentials	
			User credentials	
			Install a certificate	CA certificate
				VPN & app user certificate
				Wi-Fi certificate
			Clear credentials	
			Certificate management app	
		Trust agents	Extend unlock	
		App pinning	Use app pinning	
			Lock device when unpinning	
Location	Use location			
	Recent access			
	App location permissions	App list		
	Location services	Earthquake alerts		
		Emergency location Service		
		Google location History		
		Google location Sharing		
		Location accuracy		
		Trusted places		
		Wi-Fi scanning		
		Bluetooth scanning		

Menu	Sub-menu	Menu Option		
Passwords & accounts	Passwords			
	Autofill service			
	Accounts for owner			
	Add account			
	Automatically sync app data			
Digital Wellbeing	Your Digital Wellbeing tools	Unlocks		
		Notifications		
	View activity details			
	App limits			
	Night shift	Do not disturb for night shift mode		
	Focus			
	Screen time reminders			
	Manage notifications	App notifications		
	Do Not Disturb	People	Messages	Starred contacts
				Contacts
				Priority conversations
				Anyone
				None
			Calls	Starred contacts
				Contacts
				Anyone
				None
		Apps	Apps	
			Add apps	

Menu	Sub-menu	Menu Option		
Digital Wellbeing	Do not disturb	Alarms & other interruptions	Alarms	
			Media sound	
			Touch sounds	
			Reminders	
			Calendar events	
		Schedule	Sleeping	User schedule
				Days
				Start time
				End time
				Alarm can override end time
				Do not disturb behavior
			Event	User schedule
				During events for
				Where reply is
				Do not disturb behavior
			Add more	
		Duration for quick settings	Until you turn off	
			For 1 hour	
			Ask every time	

<table>
<tr><th>Menu</th><th>Sub-menu</th><th colspan="3">Menu Option</th></tr>
<tr><td rowspan="10">Digital Wellbeing</td><td rowspan="8">Do not disturb</td><td rowspan="8">Display options for hidden notifications</td><td>No sound from notifications</td><td></td></tr>
<tr><td>No visuals or sound from notifications</td><td></td></tr>
<tr><td rowspan="6">Custom</td><td>Don't turn on screen</td></tr>
<tr><td>Don't wake for notifications</td></tr>
<tr><td>Hide notification dots on app icons</td></tr>
<tr><td>Hide status bar icons at top of screen</td></tr>
<tr><td>Don't pop notifications on screen</td></tr>
<tr><td>Hide from pull-down shade</td></tr>
<tr><td>Heads up</td><td colspan="3" rowspan="3"></td></tr>
<tr><td>Show icon in the app list</td></tr>
<tr><td>Parental controls</td></tr>
</table>

Menu	Sub-menu	Menu Option		
Google	Google services			
	Backup is off for photos & videos	Account storage		
		Backup by Google One		
		Backup details		
		Apps		
		Photo & videos		
		Device settings		
		Google account data	Calendar	
			Contacts	
			Drive	
			Gmail	
			Google Calendar	
			Google TV	
			Tasks in Calendar	
		Back up using meter Wi-Fi data		
	Find my device	Use find my devices		
		Find your offline devices	Off	
			Without network	
			With network in high-traffic areas only	
			With network in all areas	
		Find my device app		
		Find my device web		

Menu	Sub-menu	Menu Option		
Google	Autofill	Use autofill with Google		
		Google Account		
		Personal info		
		Google Password Manager		
		Google Pay		
		Preferences		
	Google Wallet			
	Cross-device services	Account		
		Device name		
		Who can share with you	Your devices	
			Contacts	
			Everyone	
	Family group	Creat a family group		
	What's new			
	Give feedback			
	Parental Controls			

Menu	Sub-menu	Menu Option		
Advanced	Startup & shutdown	Boot mode	Normal mode	
			Secure mode	
			Disable embeded OS	
		Startup input	Last shutdown channel	
			ViewBoard	
			HDMI 1	
			HDMI 2	
			HDMI 3	
			HDMI 4	
			DP	
			VGA	
			TYPE C 1	
			TYPE C 2	
		Standby Mode	Hibernate	
			Sleep	
		Energy Star mode		
		Add startup/ shutdown task	Startup task/ Shutdown task	
			Schedule settings	

Menu	Sub-menu	Menu Option		
Advanced	Input source	Label input Source	Allow input alias	
			ViewBoard	
			HDMI 1	
			HDMI 2	
			HDMI 3	
			HDMI 4	
			DP	
			VGA	
			Type-C 1	
			Type-C 2	
		Wake up by active HDMl input		
		Auto search signal		
		Auto switch input ports		
			Manual selection	
		Energy saving	1 min	
			3 mins	
			5 mins	
			10 mins	
			15 mins	
			30 mins	
			45 mins	
			60 mins	
			Off	
		HDMI CEC		
		HDR		

Menu	Sub-menu	Menu Option		
Advanced	Security settings	Unknown source security		
		Enable password for ViewBoard settings		
		Reset Advanced Settings Password		
	Pen detection			
	Pen detection app	Marker		
		myViewBoard whiteboard		
	HDMI OUT fromat	3840 x 2160 @ 60 Hz		
		1920 x 1080 @ 60 Hz		
		720 x 480 @ 60 Hz		
		Auto		
System	System languages			
	App Languages			
	Regional preferences	Regional preferences		
		Temperature	Use default	
			Celsius (°C)	
			Fahrenheit (°F)	
		First day of week	Use default	
			Sunday	
			Monday	
			Tuesday	
			Wednesday	
			Thursday	
			Friday	
			Saturday	
	Voice input			

Menu	Sub-menu	Menu Option		
System	On-device recognition	Add language		
		Auto update languages		
		Advanced		
	Text-to-speech output	Preferred engine		
		Languages		
		Speech rate		
		Pitch		
		Play/Reset		
	Launcher Scheme	Scheme A		
		Scheme B		
	Sidebar	On/Off		
	Keyboard	Gboard		
		Google Voice Typing		
		Remoting		
		Use on-screen keyboard		
		Keyboard shortcuts	Caps lock	
			Ctrl	
			Action key	
			Alt	
			Reset all	
		Spell checker	Use spell checker	
			Languages	
			Default spell checker	
		Personal dictionary		
		Pointer speed		

Menu	Sub-menu	Menu Option		
System	Gestures	Navigation mode	Gesture navigation	
			3-button navigation	
			Side toolbar navigation	
		Press & hold power button	Power menu	
			Digital assistant	
	Date & time	Set time automatically		
		Date		
		Time		
		Set automatically		
		Time zone	Region	
			Time zone	
		Use locale default		
		Use 24-hour format		
	Windows Ink			
	Display ID			
	Backup			
	System Update			
	Multiple Users	Allow multiple users		
		User		
		Add user		
		Add guest		
		Delete guest activity		
		Add users from lock screen		

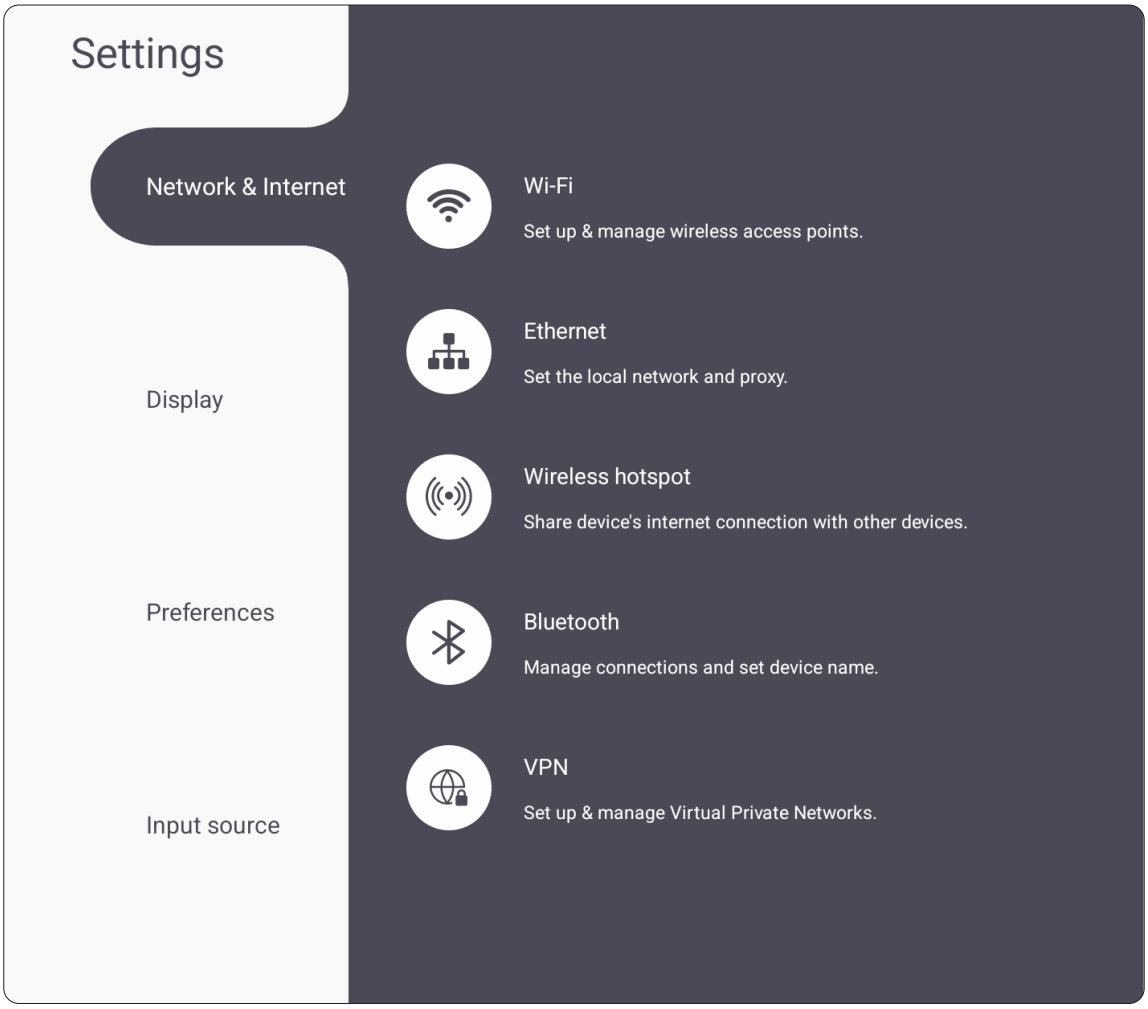
Menu	Sub-menu	Menu Option	
System	Reset options	Reset Wi-Fi & Bluetooth	
		Reset app preferences	
		Erase all data (factory rest)	
About Device	Device name		
	Legal information	Third-party license	
		Google legal	
		Google Play system update license	
		System Webview license	
		Wallpaper credits	
		Open source licenses	
	Model	Model	
		Serial number	
		Asset Tagging	
	Android version	Android version	
		Android security update	
		Kernel version	
		Build number	

Menu	Sub-menu	Menu Option
About Device	IP address	
	Ethernet address	
	Wi-Fi MAC address	
	Device Wi-Fi MAC address	
	Bluetooth address	
	Up time	
	Build number	
Tips & Support	myViewBoard Whiteboard	
	myViewBoard Display	
	myViewBoard Manager	
	New features	

ViewBoard Launcher

Network & Internet

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



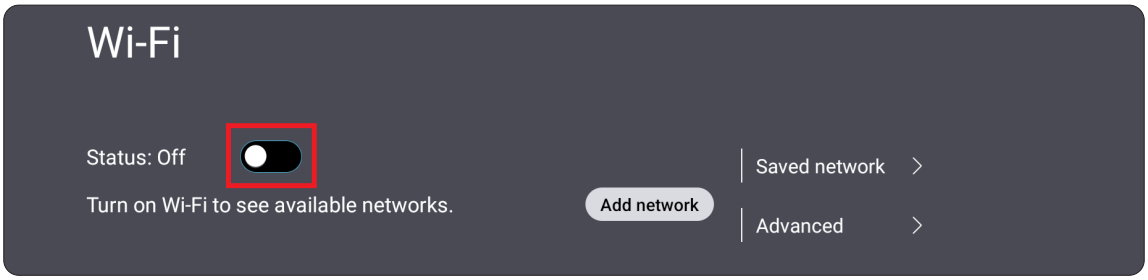
Note:

- **Wi-Fi**, **Wireless hotspot**, and **Bluetooth** settings will appear when an optional Wi-Fi card (e.g., VB-WIFI-005) 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 **Wireless hotspot** is enabled.
- The device cannot connect to the Internet when **Wireless hotspot** is enabled.

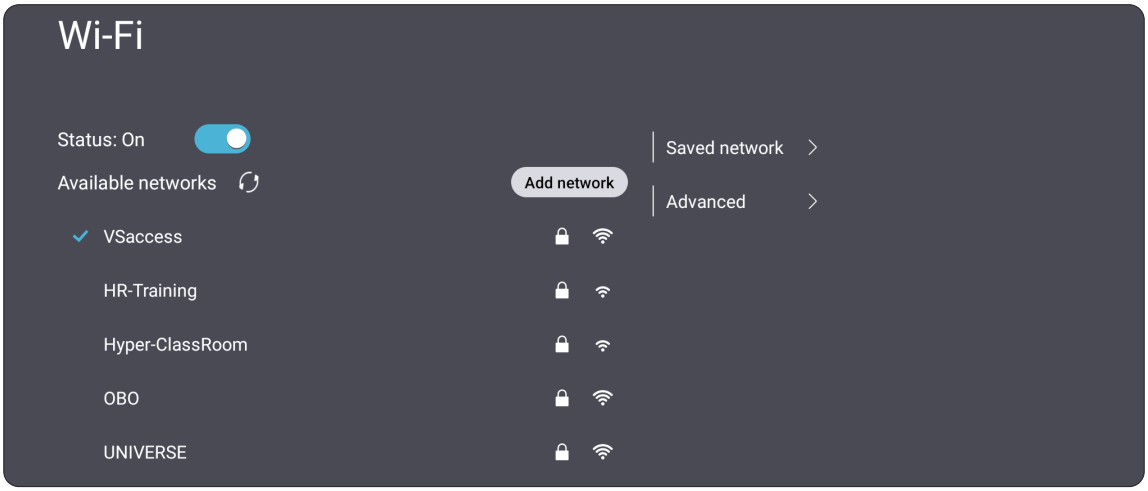
Wi-Fi

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**.



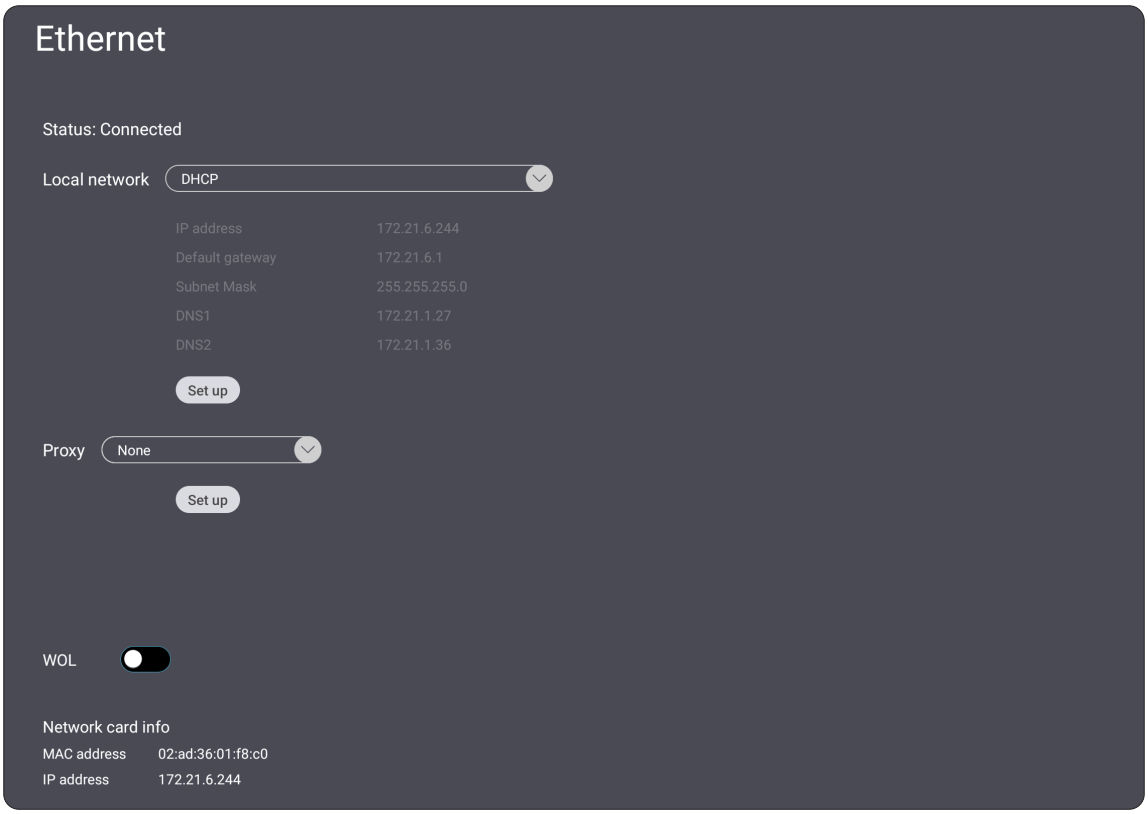
Ethernet

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.



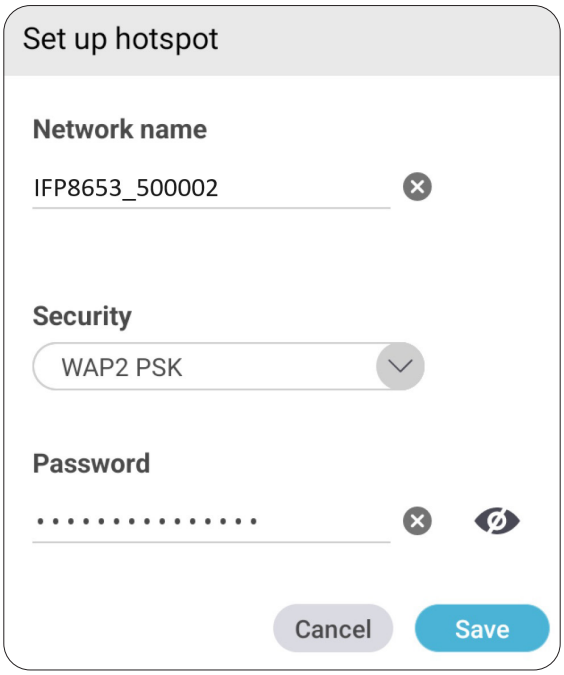
Wireless Hotspot

Share an internet connection with other devices.

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



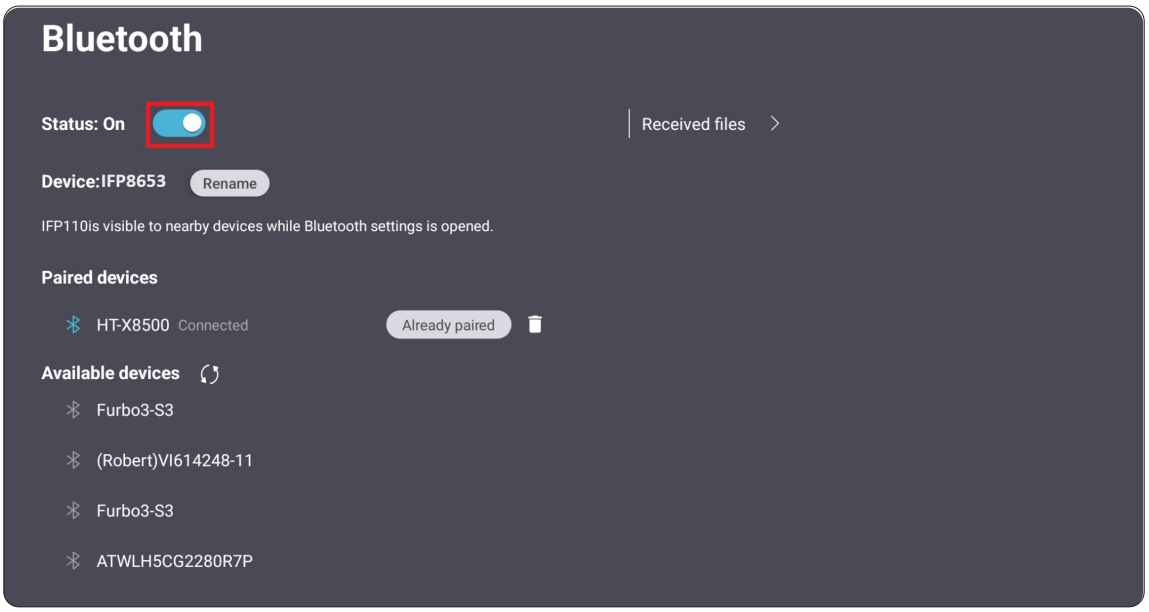
- Tap **Set up** to set the **Network name**, **Security**, and **Password**.



Bluetooth

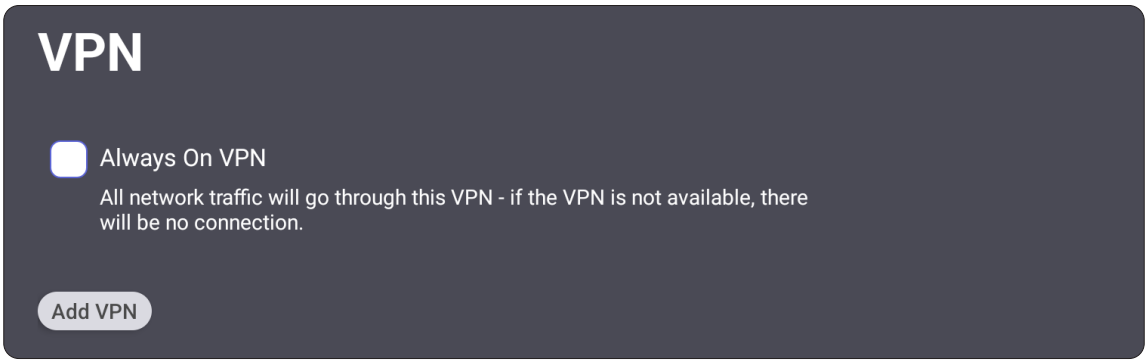
Manage connections, set the device name and discoverability.

- Tap the toggle button to turn Bluetooth **On** or **Off**. Once **On**, users can select a listed device to pair and connect to, rename their device, remove a device.



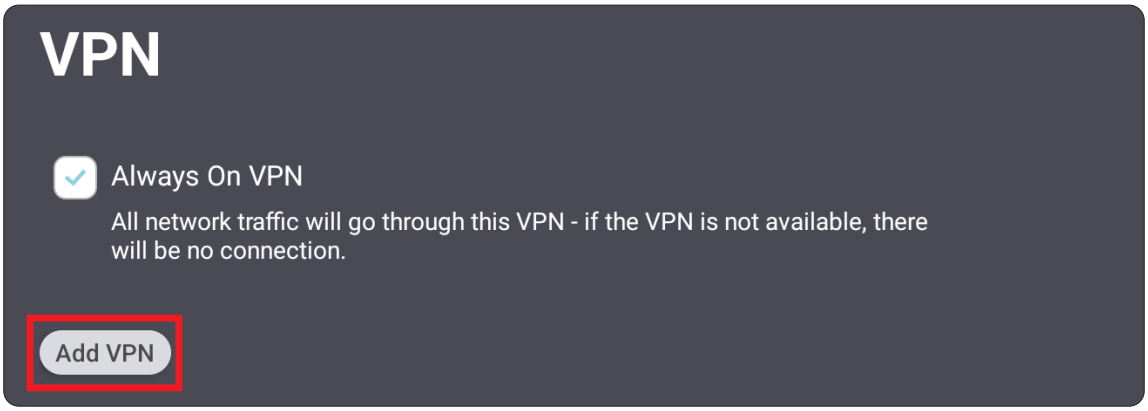
VPN

Setup and manage Virtual Private Networks.

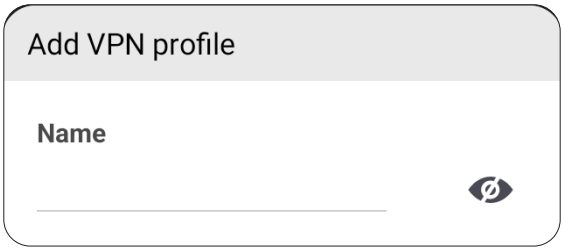


To create a VPN profile:

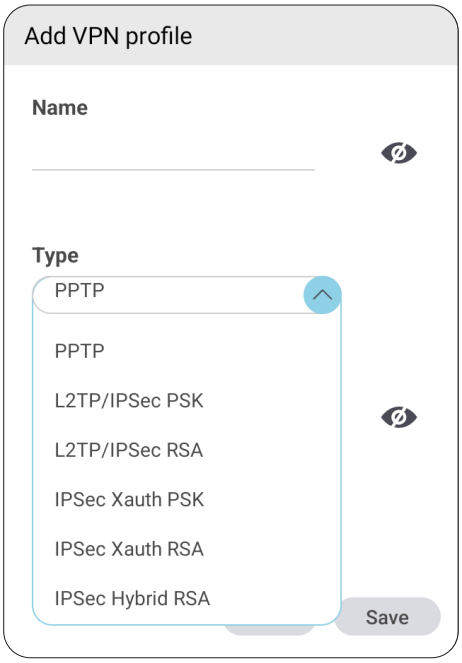
1. Go to: **Settings** > **Network & Internet** > **VPN** and tap **Add VPN**.



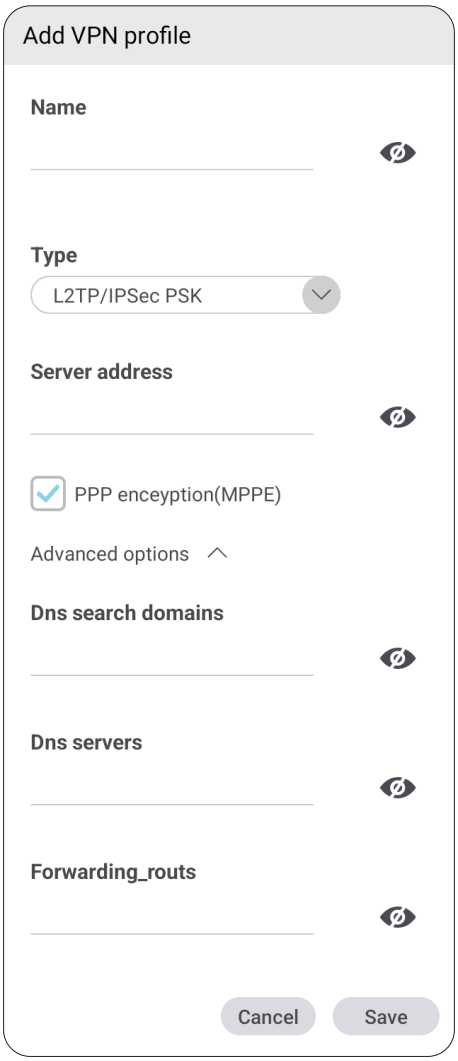
2. Key in the **Name**.



3. Select the VPN **Type**.

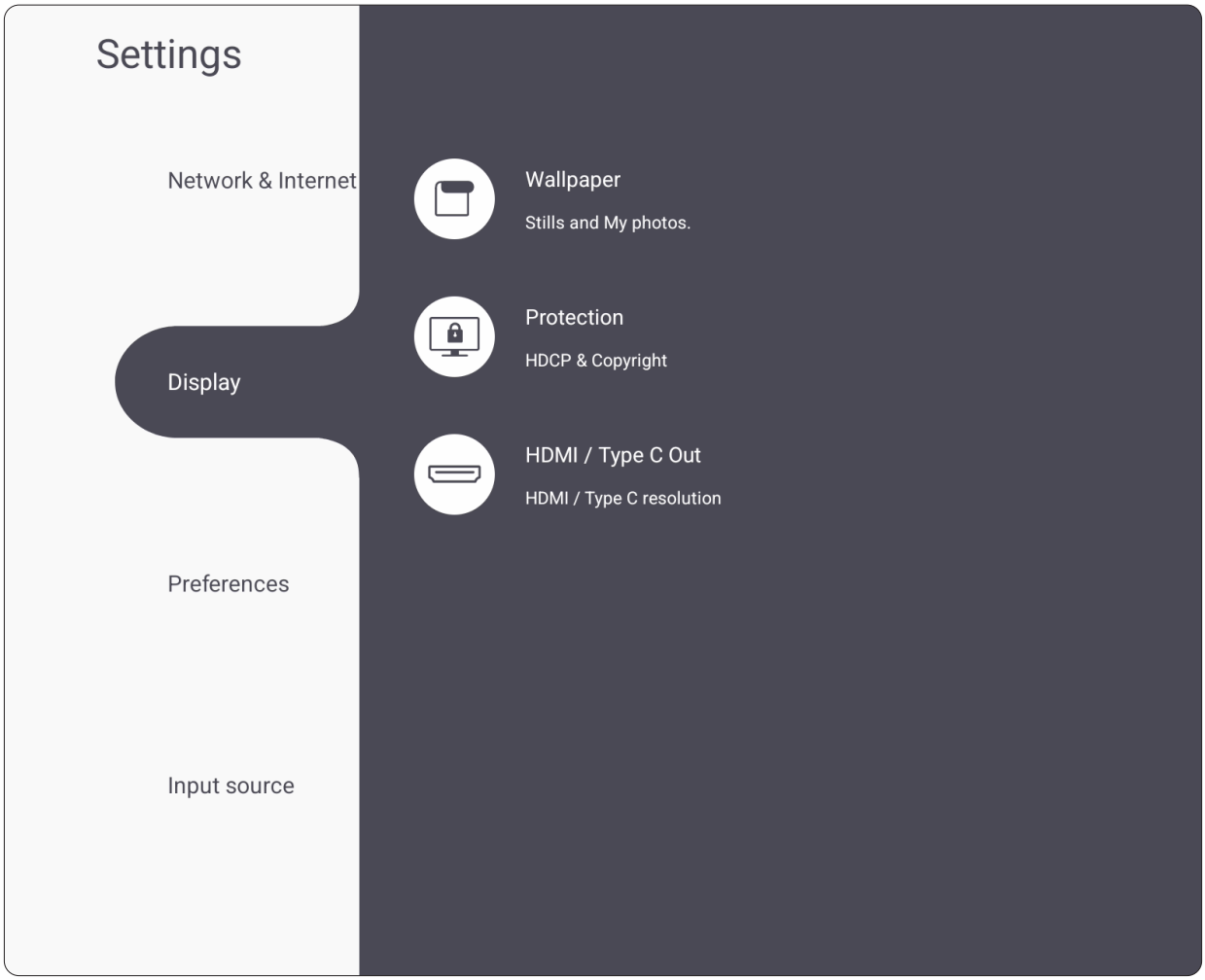


4. Choose to enable/disable **PPP encryption (MPPE)** and/or show **Advanced options**.



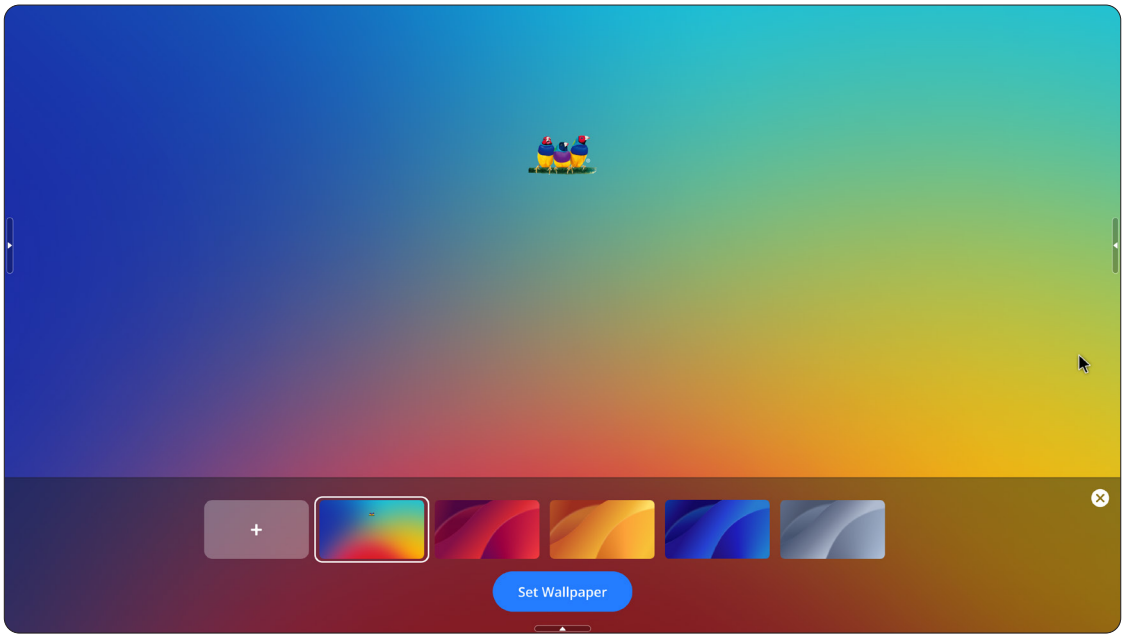
Display

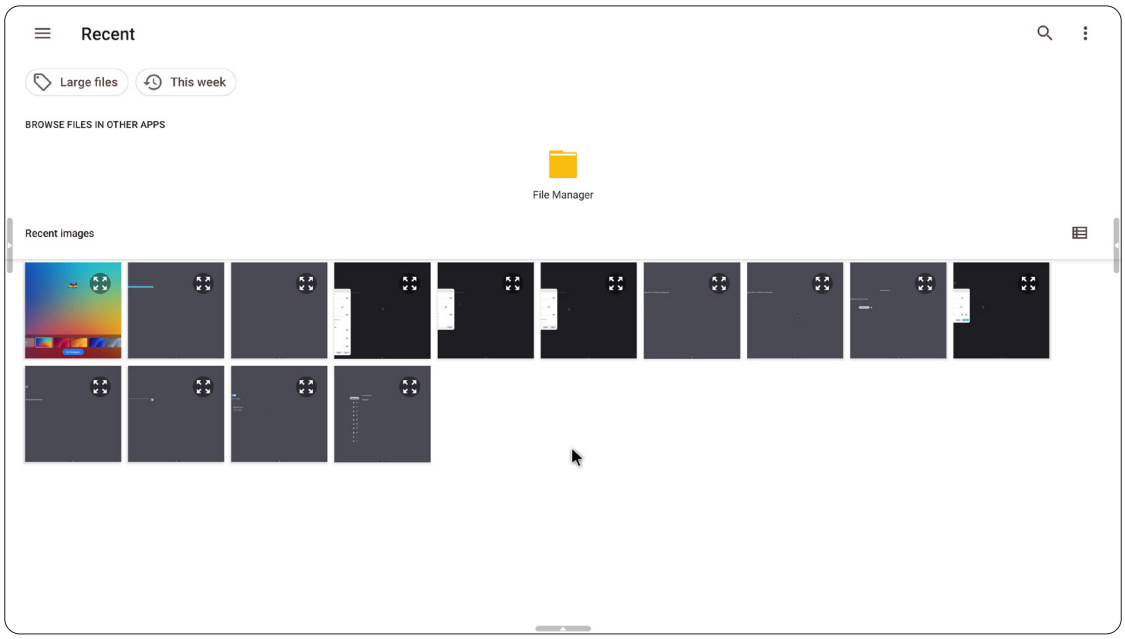
Adjust the **Wallpaper**, **Protection**, and **HDMI Out** settings.



Wallpaper

Users can change their wallpaper with default images, or use their own by tapping the add icon and selecting the image file.





Protection

Set a **HDCP & Copyright** on or off.

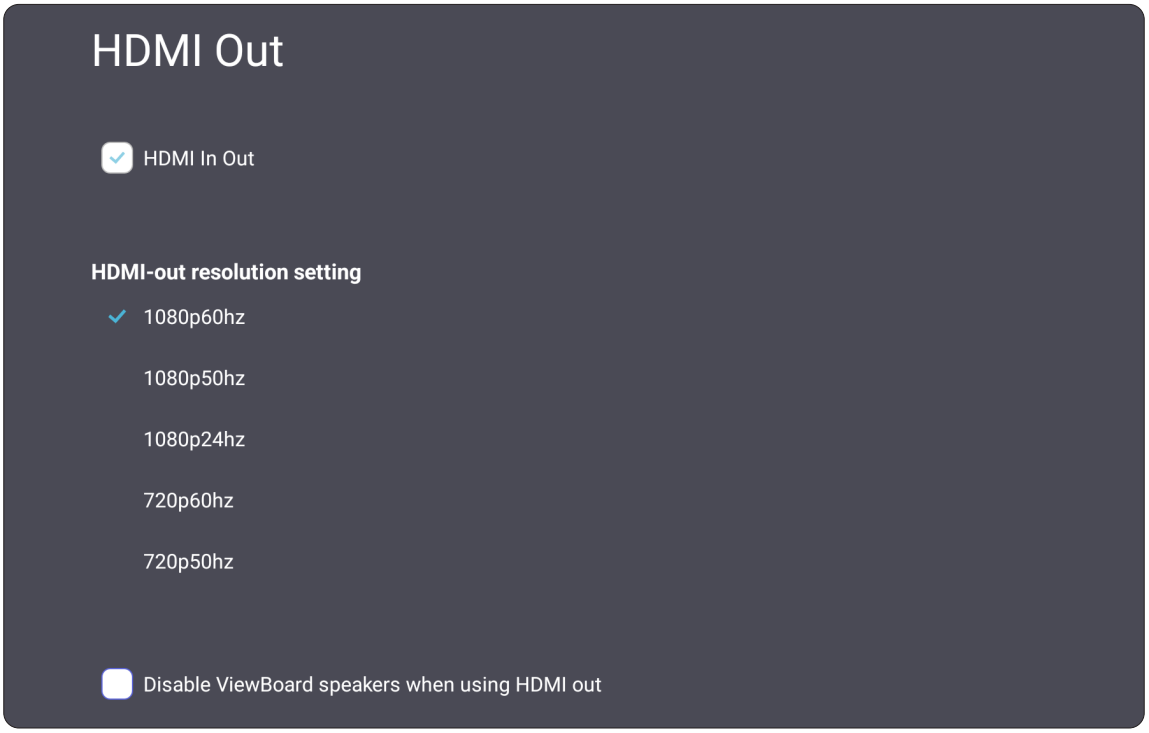


HDMI Out

Adjust the HDMI Out Resolution setting, enable video output, and mute/unmute the speakers when connected via HDMI Out.

Note:

- The **Disable ViewBoard Speakers when using HDMI Out** option box is not selected by default.
- Swipe up on the listed resolutions to see more supported resolutions.



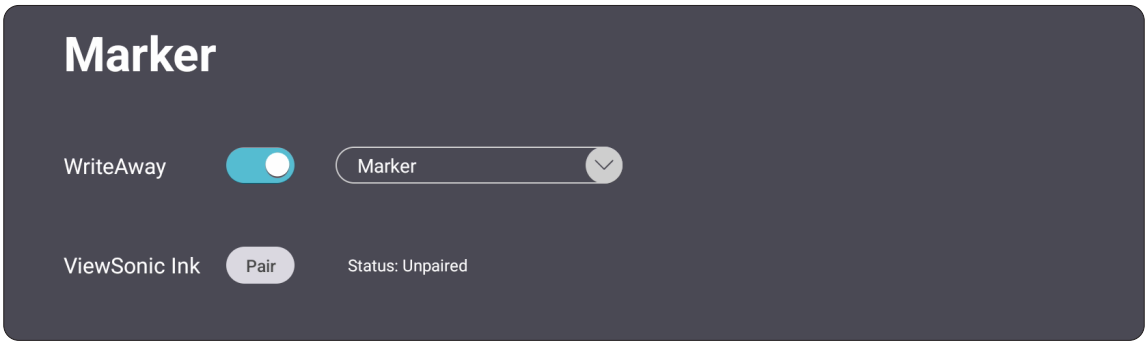
Preference

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



Marker

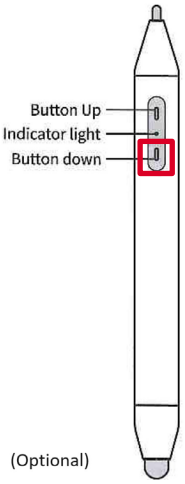
Toggle **WriteAway** on or off.



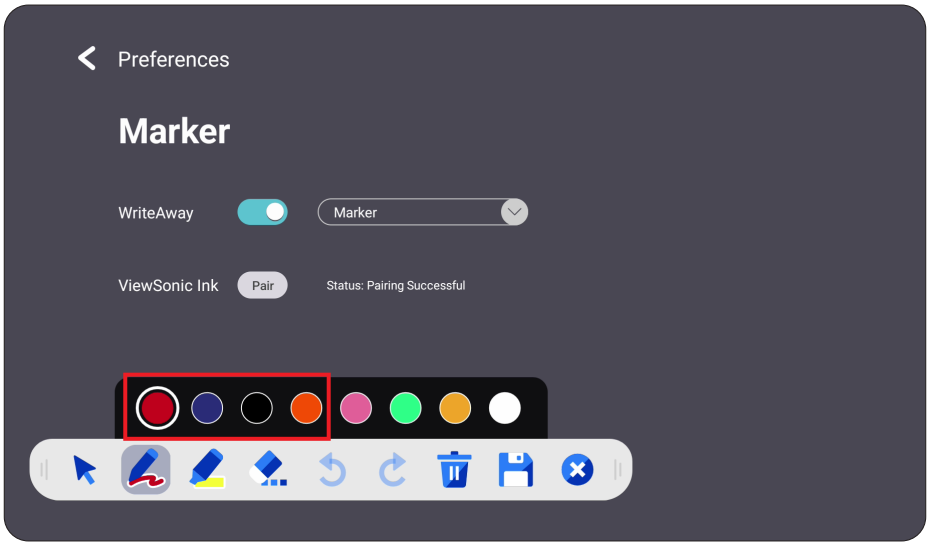
ViewSonic Ink Pairing

To pair a pen:

1. Select the Pair icon.
2. On the pen, press the down button two times then hold the button until the pen indicator light flashes one time.



3. ViewSonic Ink status will change to “Pairing Successful”.
4. Press the up or down button on the pen to change the pen color.



Touch

Adjust **Touch Settings** and toggle **Touch Sounds** and **Windows Ink** on or off.



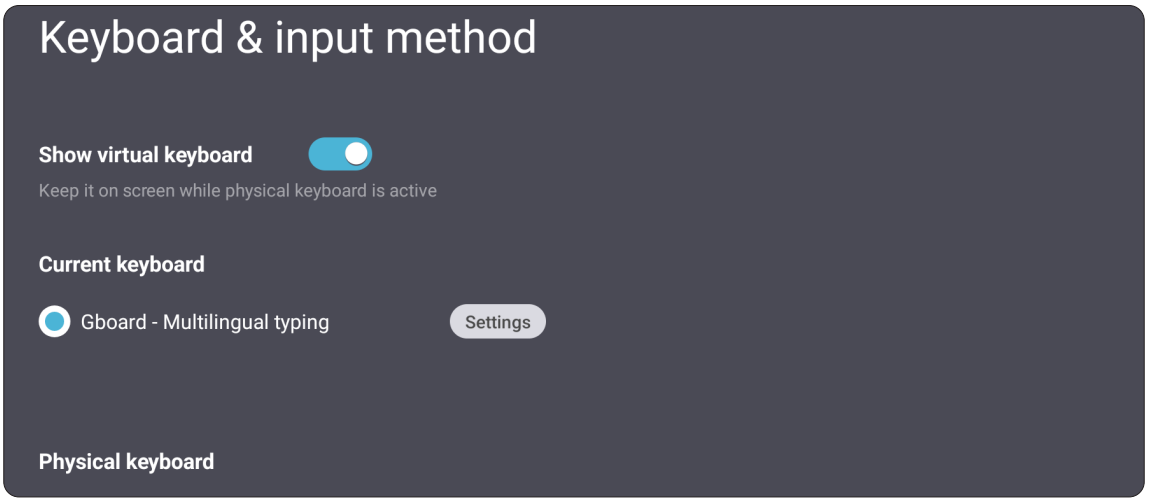
Language

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.



Date & Time

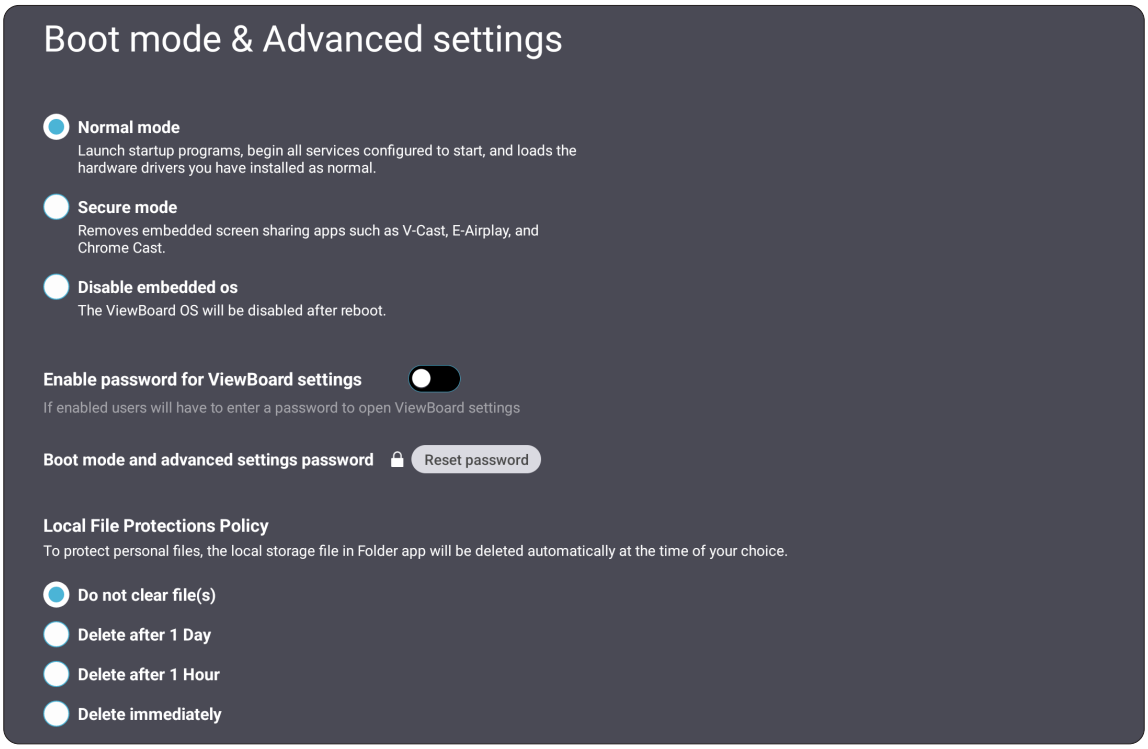
Set the system time and format.



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 or off.
Date Format	Select from the available date formats.

Boot Mode & Advanced Settings

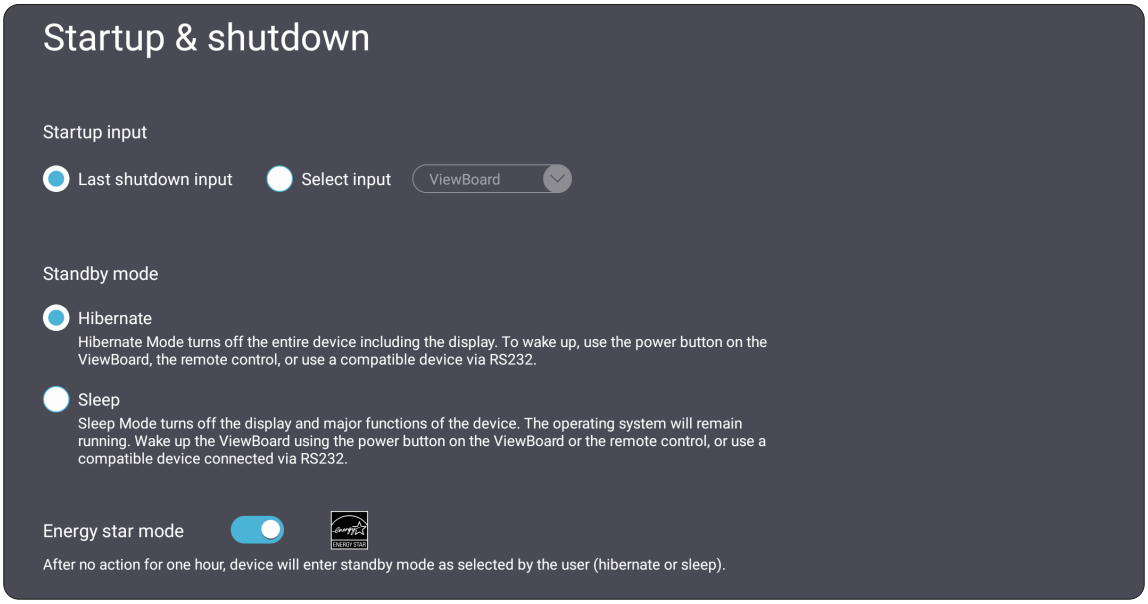
Adjust the preferred boot up mode and set/reset a password.

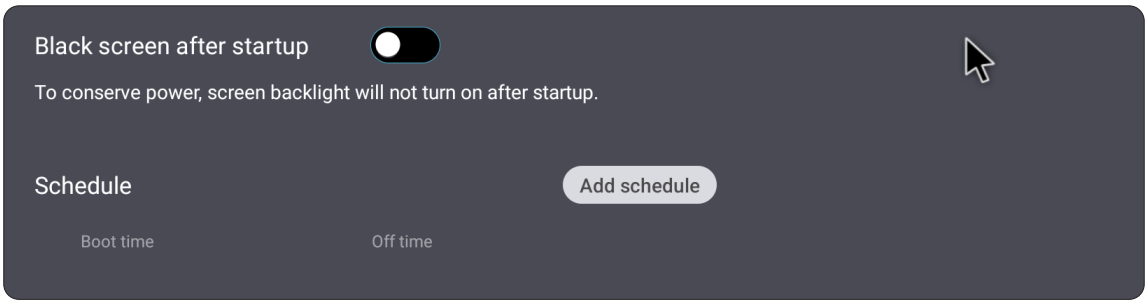


Item	Description
Normal Mode	The embedded screen sharing apps will run normally.
Secured Mode	The embedded screen sharing apps will be removed.
Disable Embedded OS	The system will automatically reboot, and then the Embedded OS will not appear.
ViewBoard Settings Access Password	Toggle to lock/unlock 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 application.
Color Correction	Color correct the ViewBoard display screen.
Reset ViewBoard	Reset 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.
Standby Mode	Decide what happens when you press the Power button while the ViewBoard is on.
Energy Star	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.
Schedule	Schedule a Boot and Shut off time.

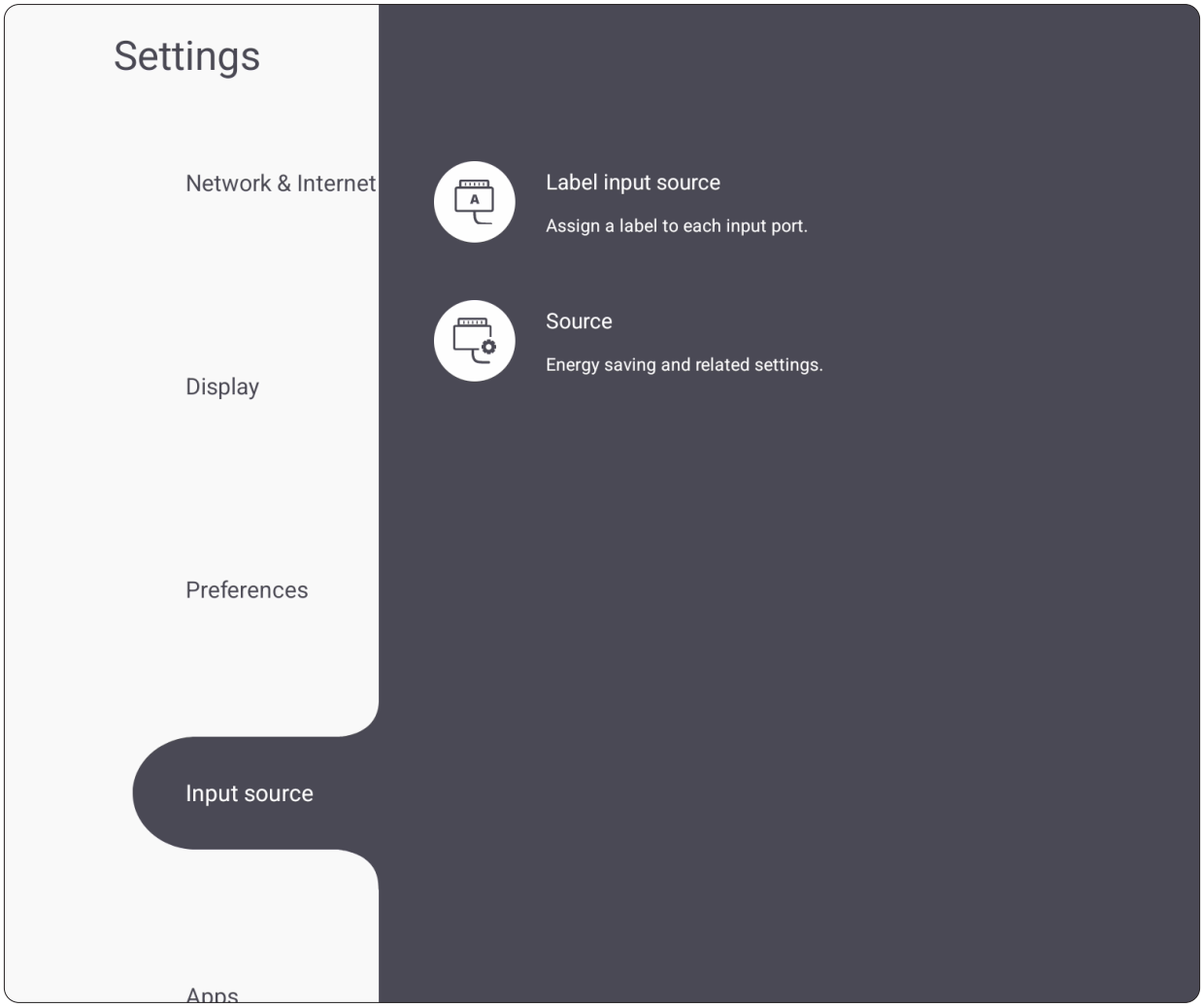
Toolbar Setting

Adjust the Side toolbar settings.



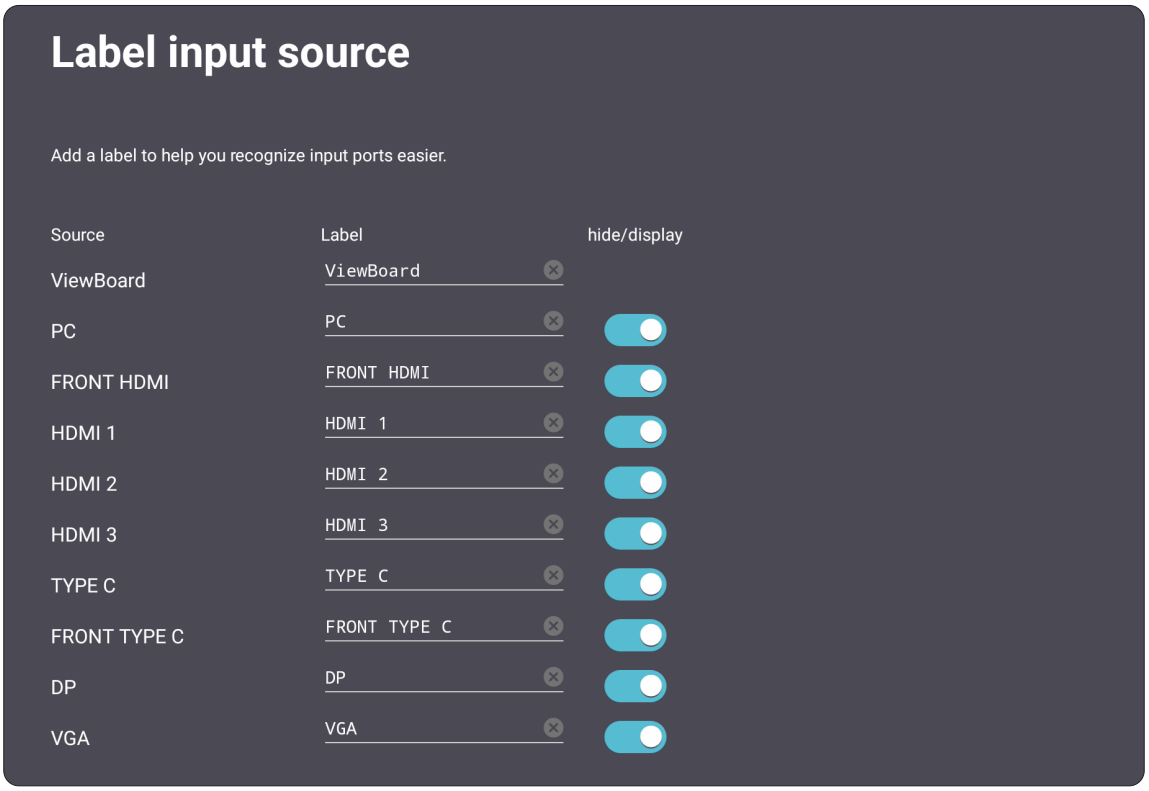
Input Source

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



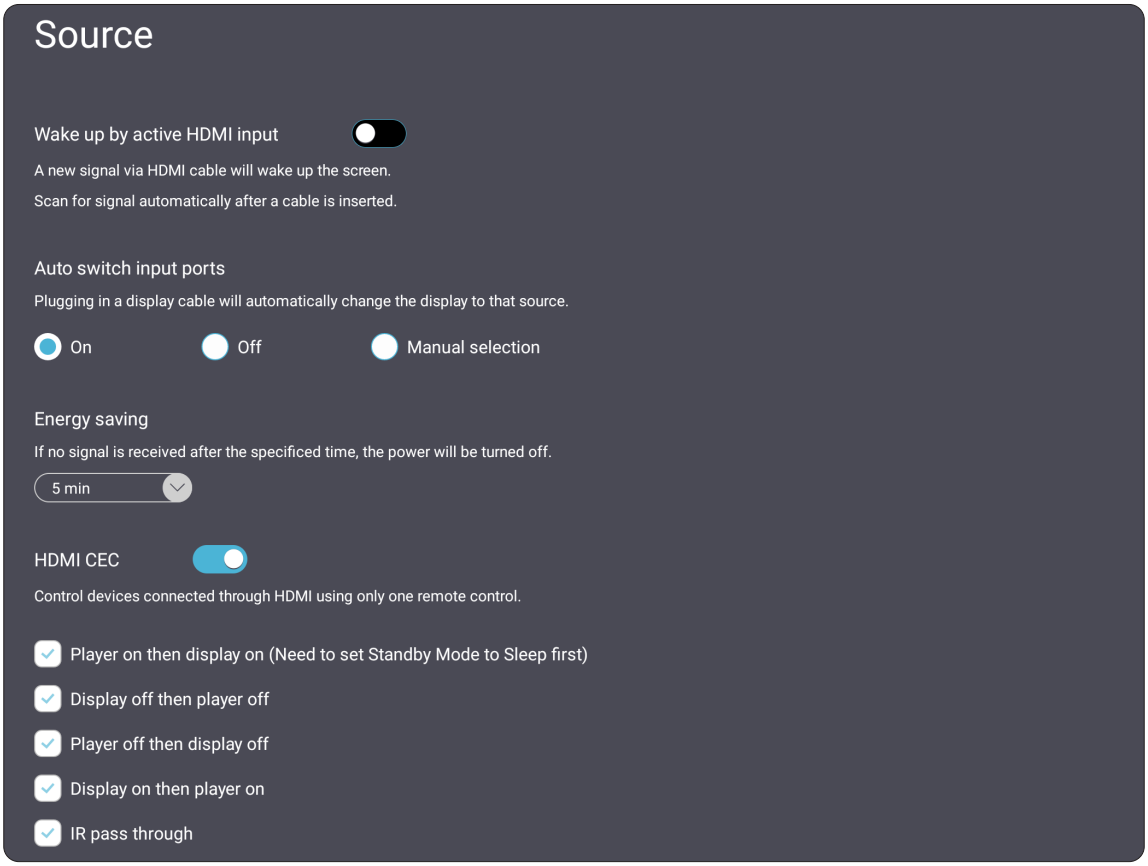
Label Input Source

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



Source

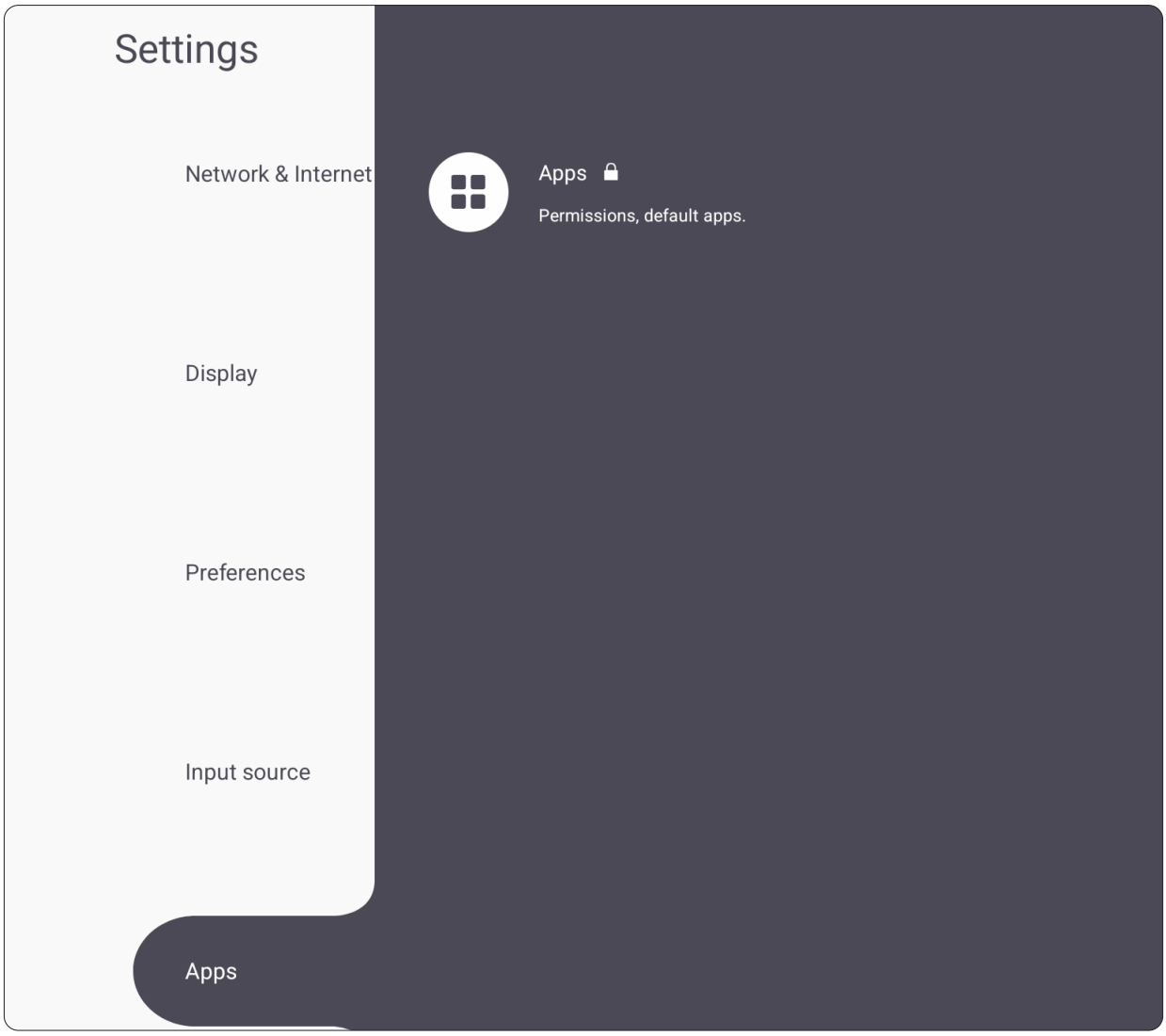
Toggle **Wake up by active HDMI input** or **HDMI CEC** on or off, and select one of the **Auto switch input ports** options.



Item	Description
Wake up by Active HDMI input	The screen will turn on automatically after plugging in an HDMI cable when the screen is off.
Auto switch input ports	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.

Apps

The user can view application information and force stop, uninstall, move to USB storage, clear data, clear cache, and clear defaults.

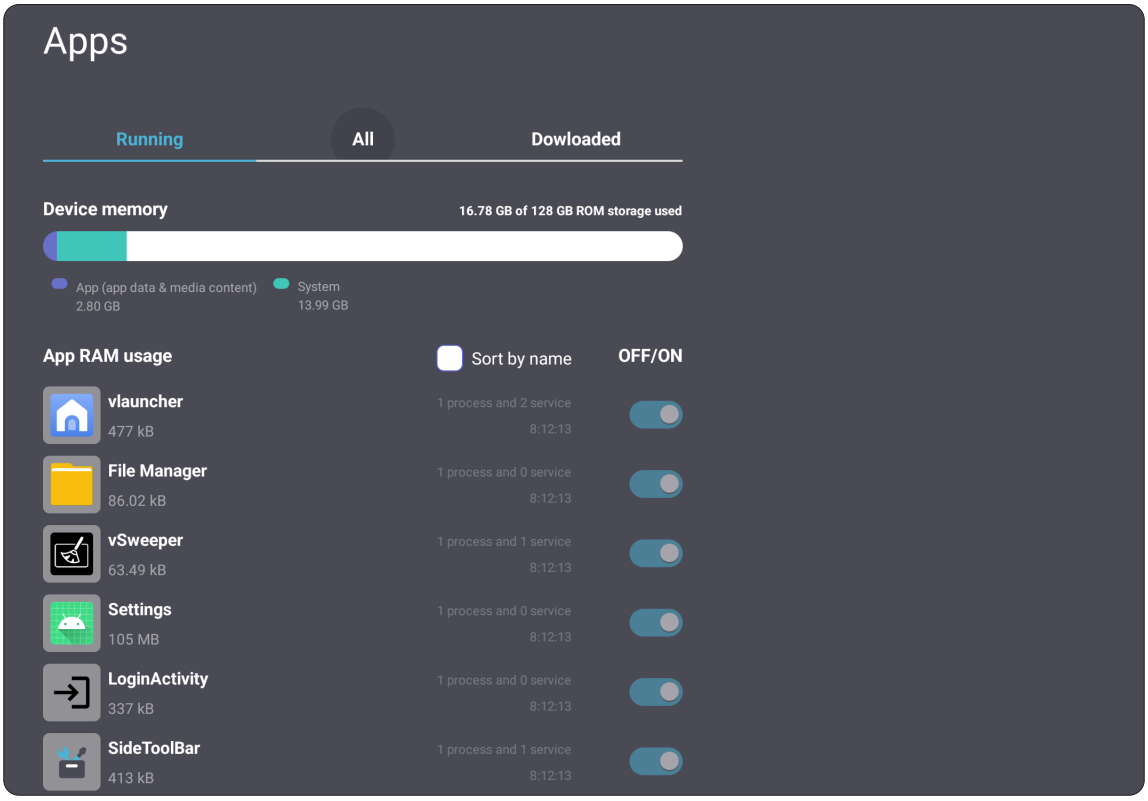


Note:

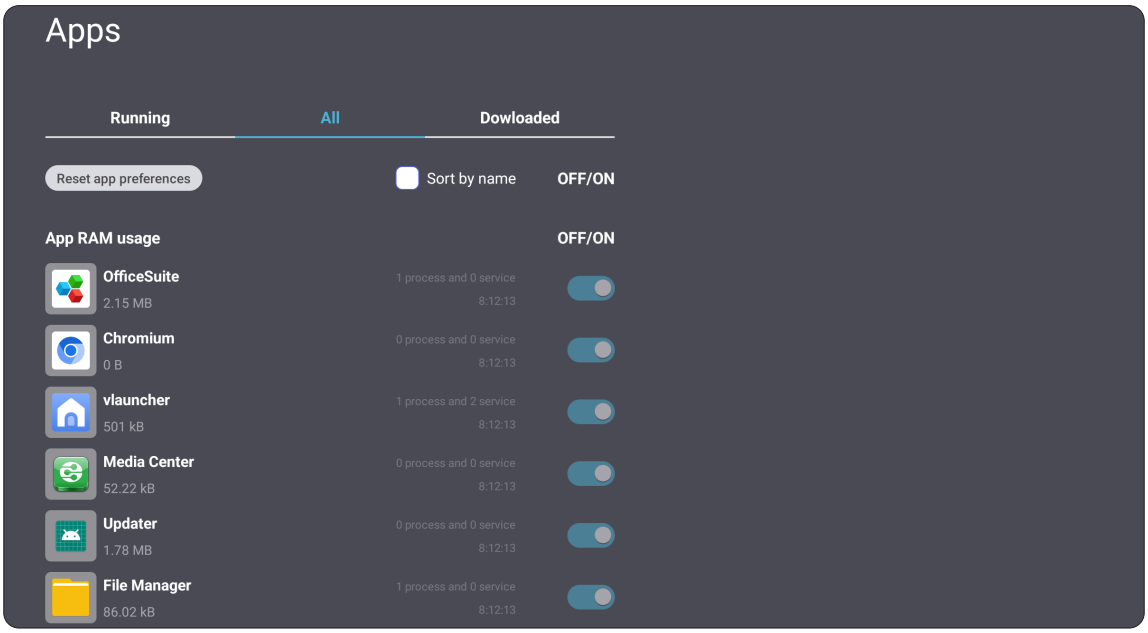
- Pre-loaded apps cannot be uninstalled.
- Not all apps support the move to USB storage feature.
- Not all apps support Clear Defaults.

Apps

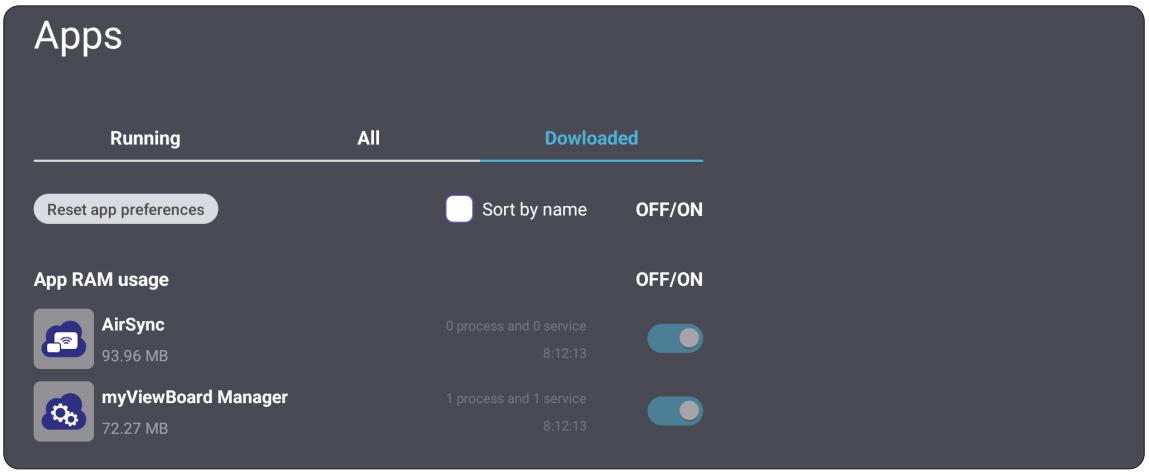
View any running or installed applications. Tap on them for more detailed information and options.



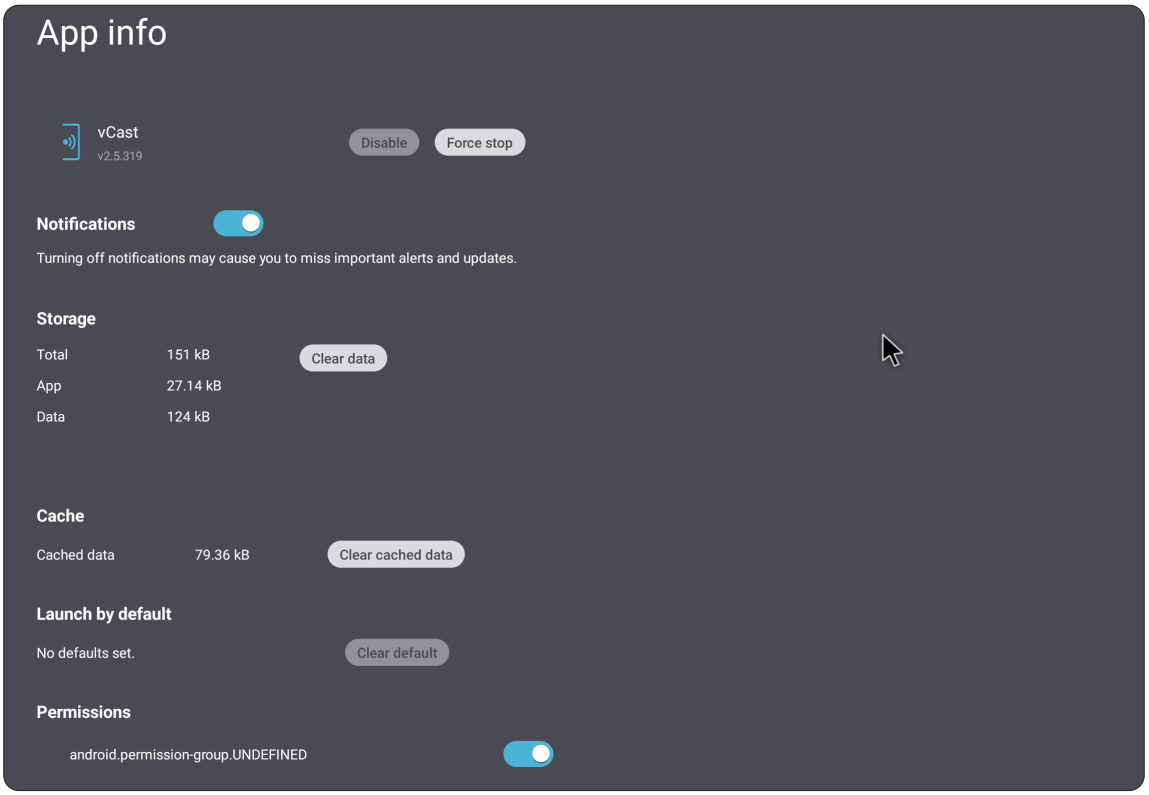
- Selecting **All** will list all installed applications.



- Selecting **Download** will list all installed applications that can be uninstalled.

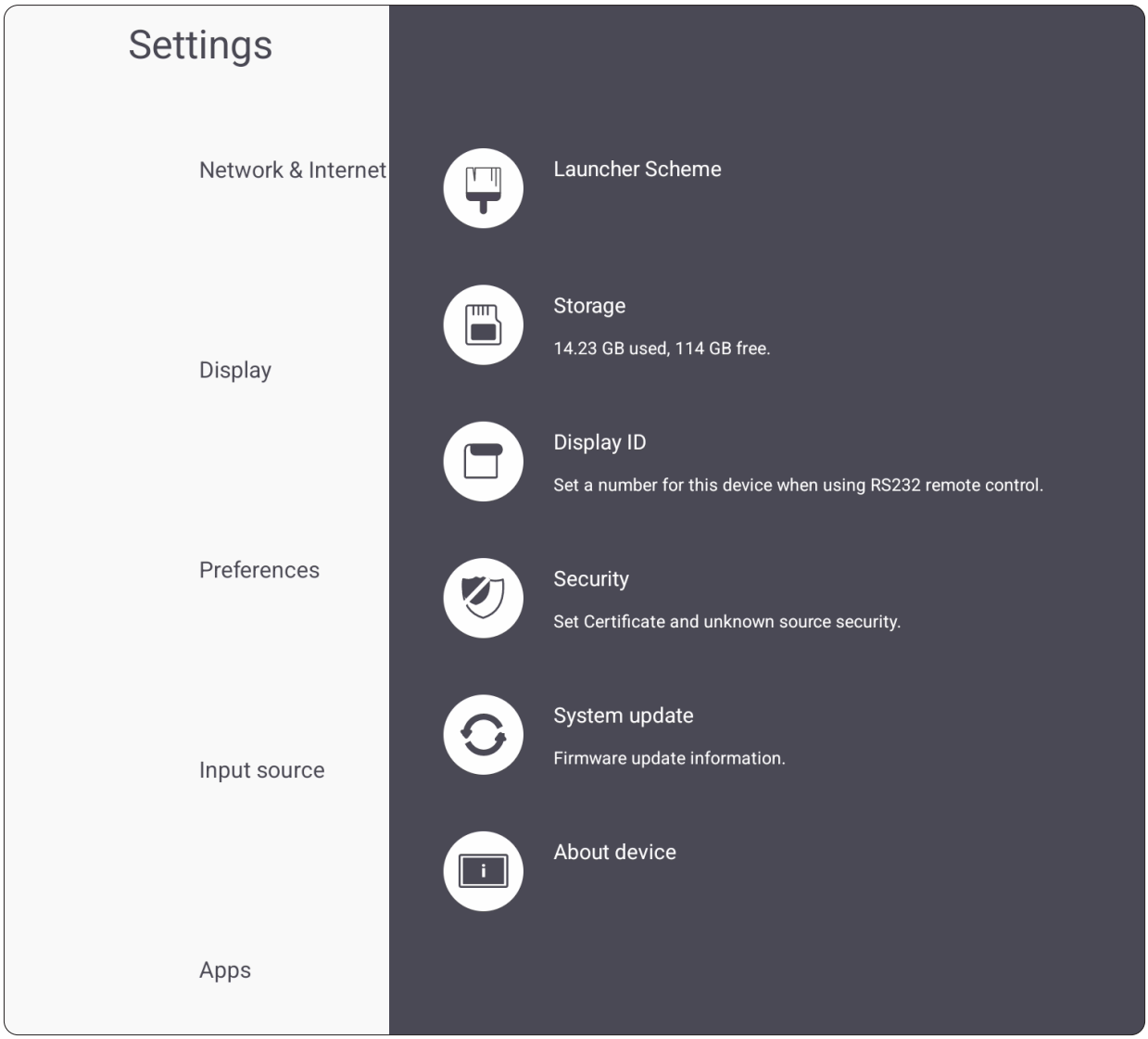


- Tapping on any application will display further information and options.



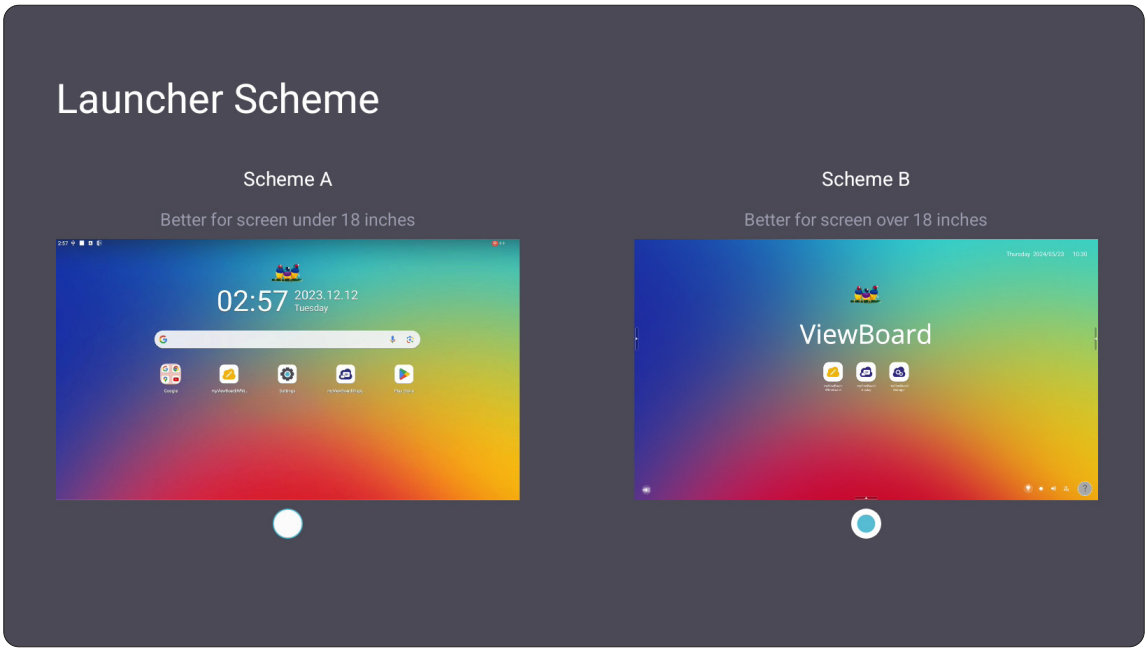
System

View and adjust **Storage**, **Clone to USB**, **Display ID**, **Security**, **System Update**, and **About device** settings.



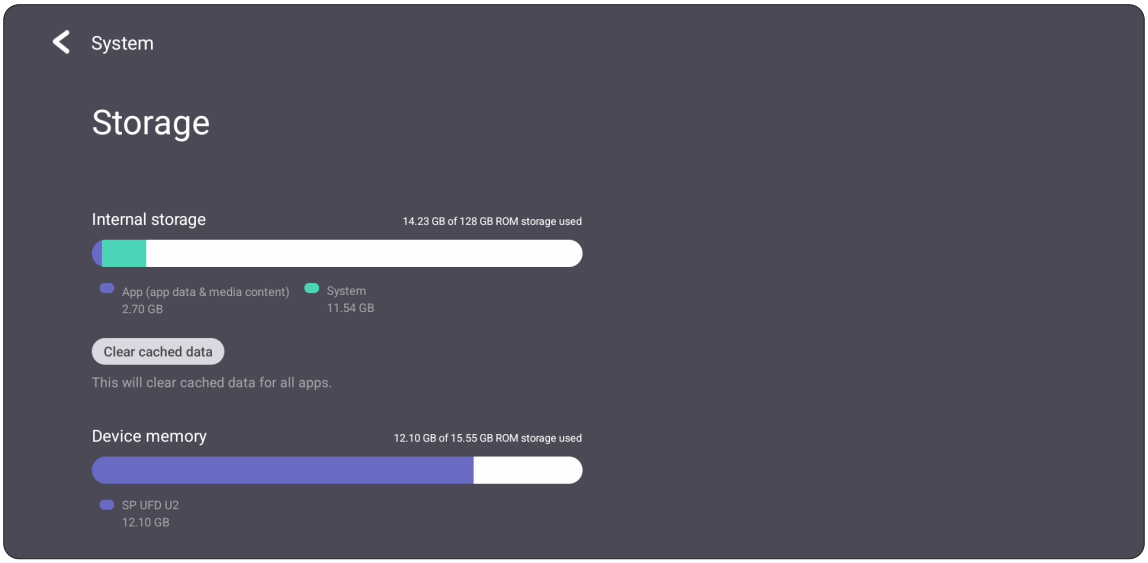
Launcher Scheme

Choose between Scheme A (Android Launcher) and Scheme B (ViewBoard Launcher) to set the Home Screen layout.



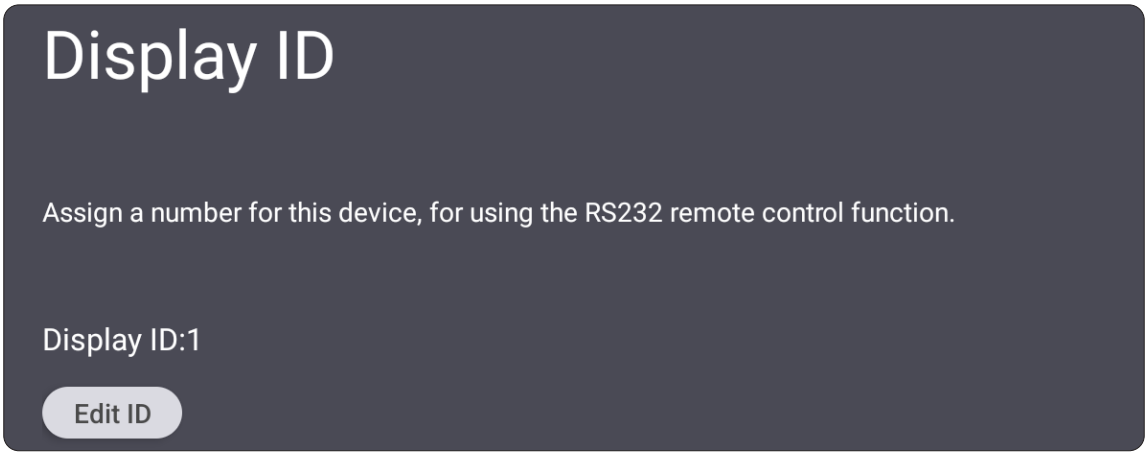
Storage

Displays all internal and external storage capacities.

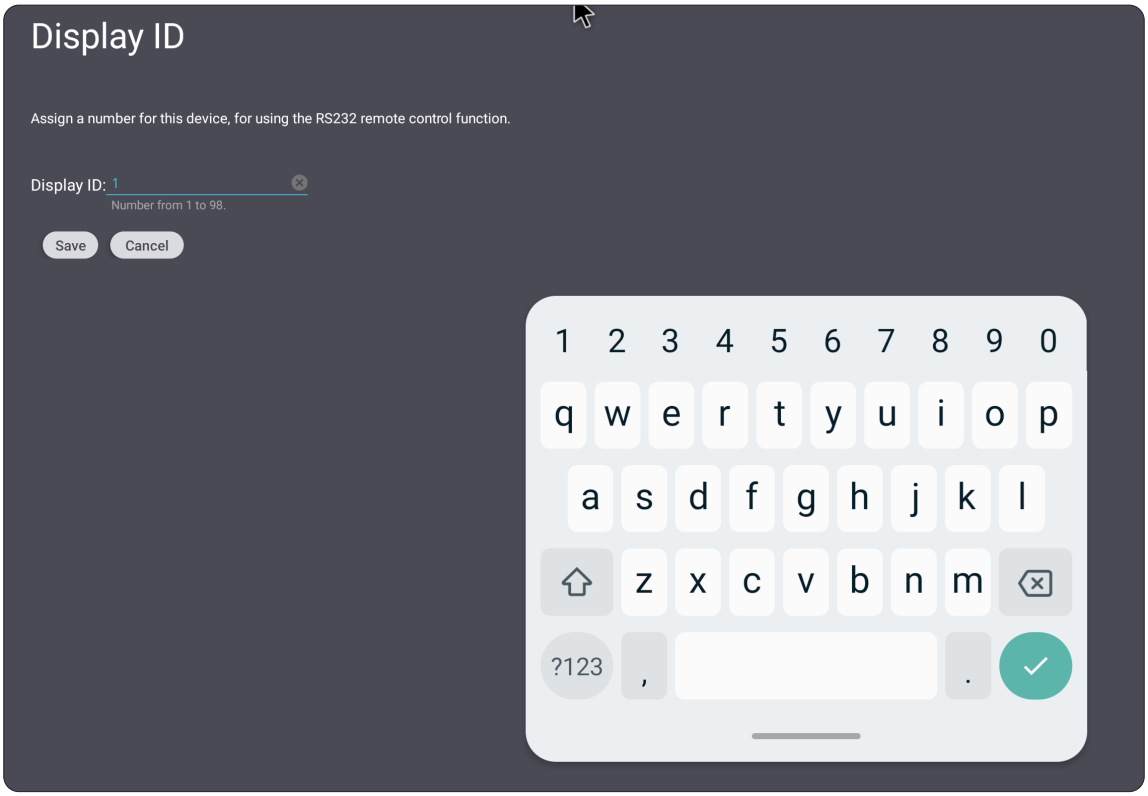


Display ID

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



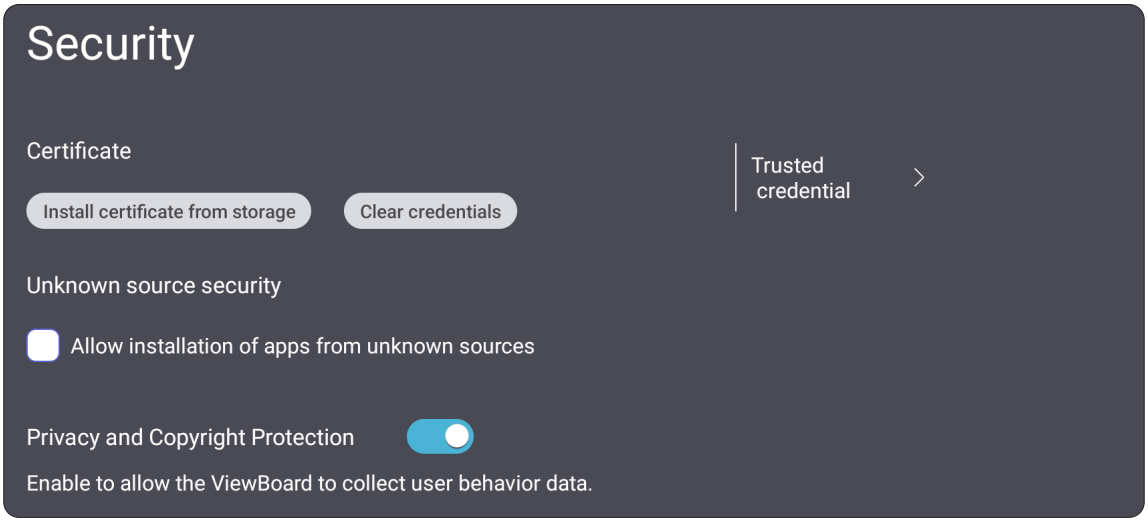
- To assign or change the Display ID, tap **Change** and input a number.



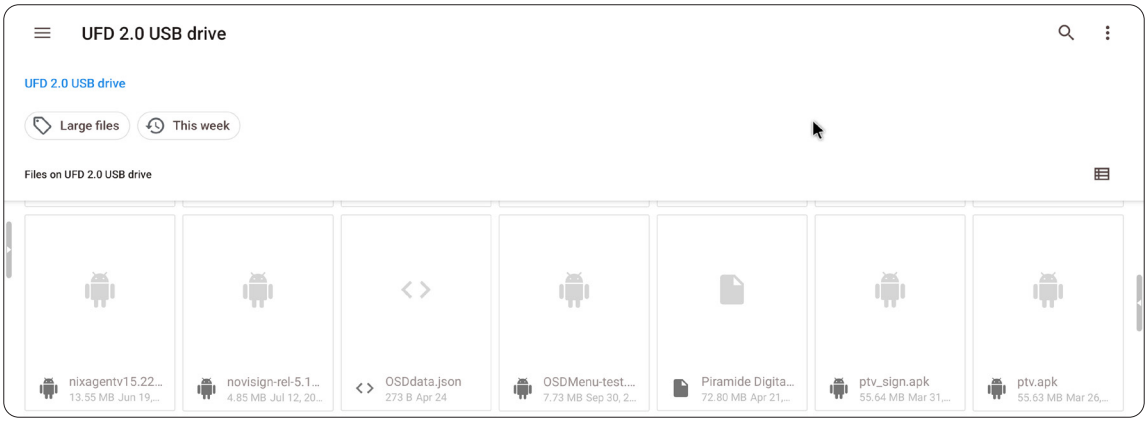
Note: The Display ID is for RS-232 users, and the range is 01~99.

Security

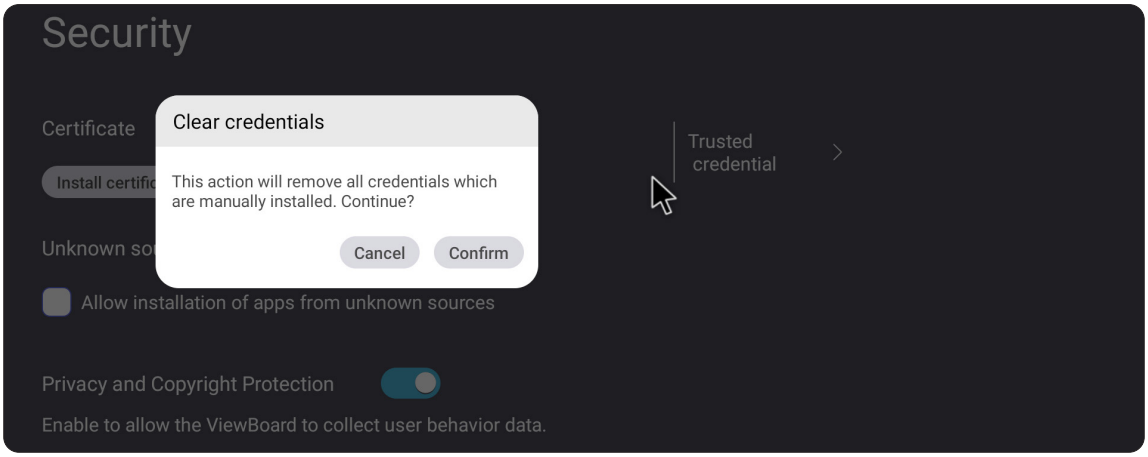
Review **Certificate**, **Trusted Credential** storage, and **Unknown sources** install settings.



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

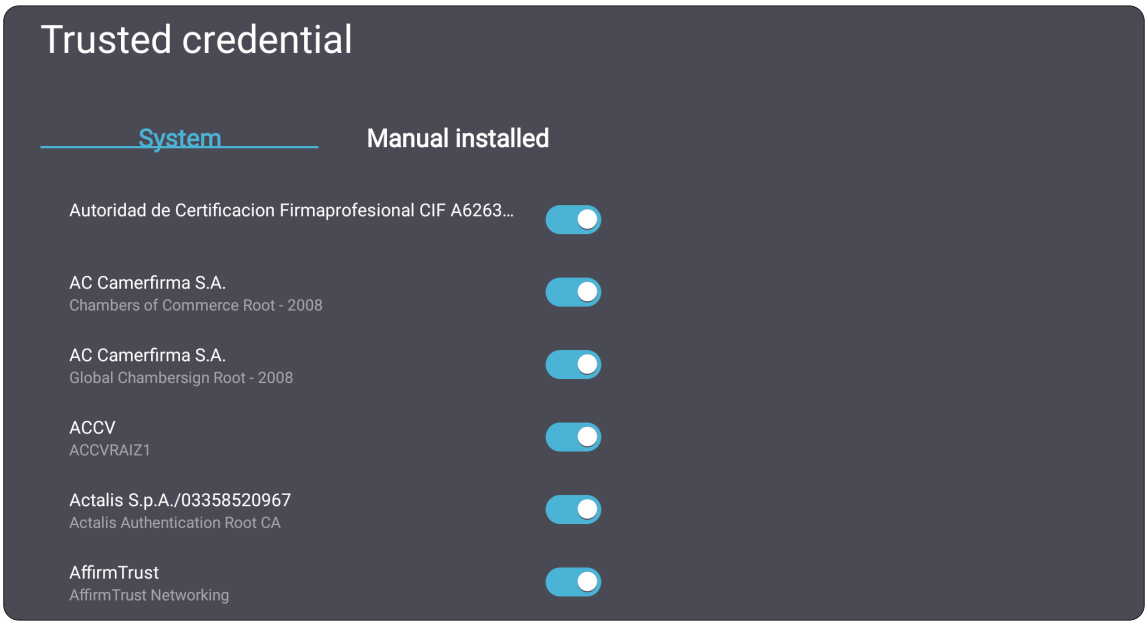


- Selecting **Clear Credentials** will remove all manually installed credentials.

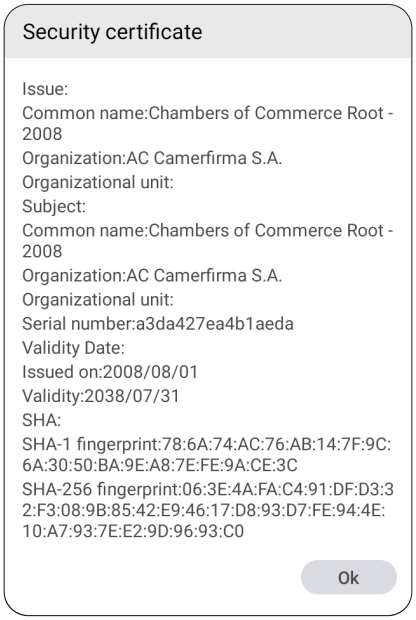


Note: Pre-loaded credentials cannot be cleared.

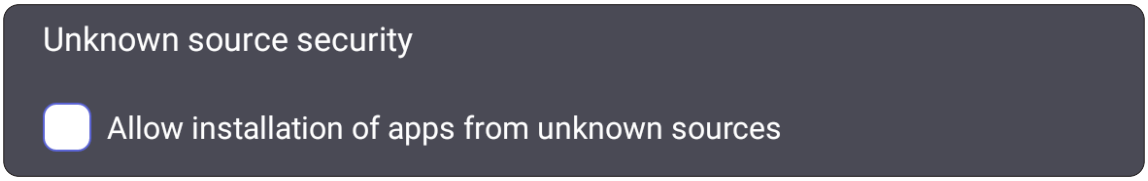
- Under **Trusted Credentials** view and edit all trusted and installed CA certificates.



- Tapping on a credential will provide more detailed information.



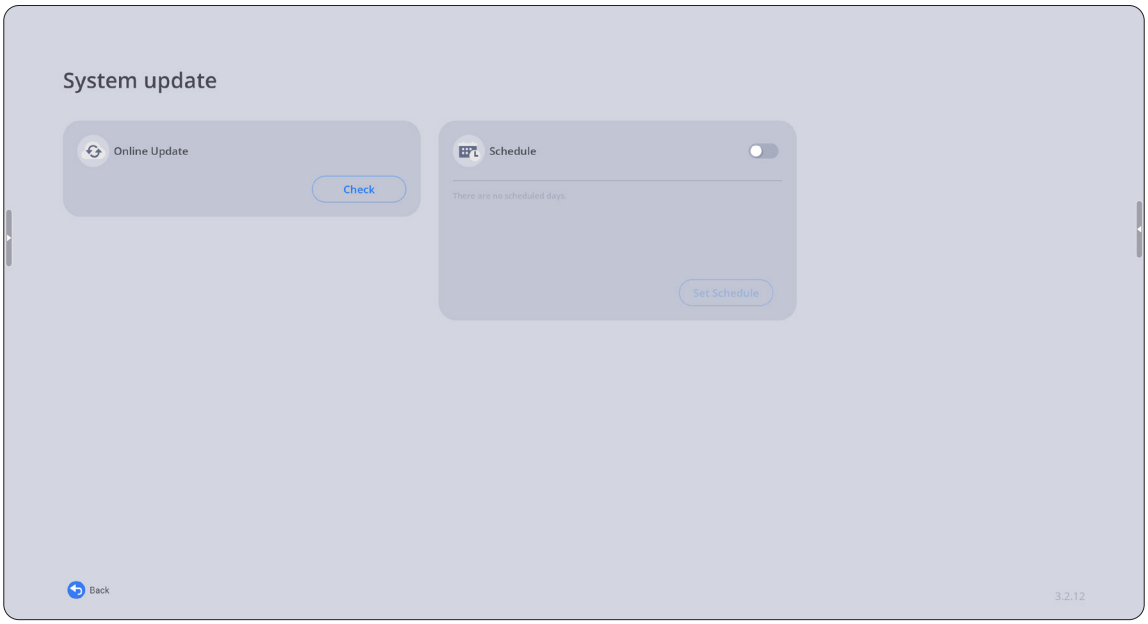
- Allow the installation of applications from unknown sources by selecting the box under **Unknown source security**.



Note: Applications from unknown sources may not be compatible or work properly.

System Update

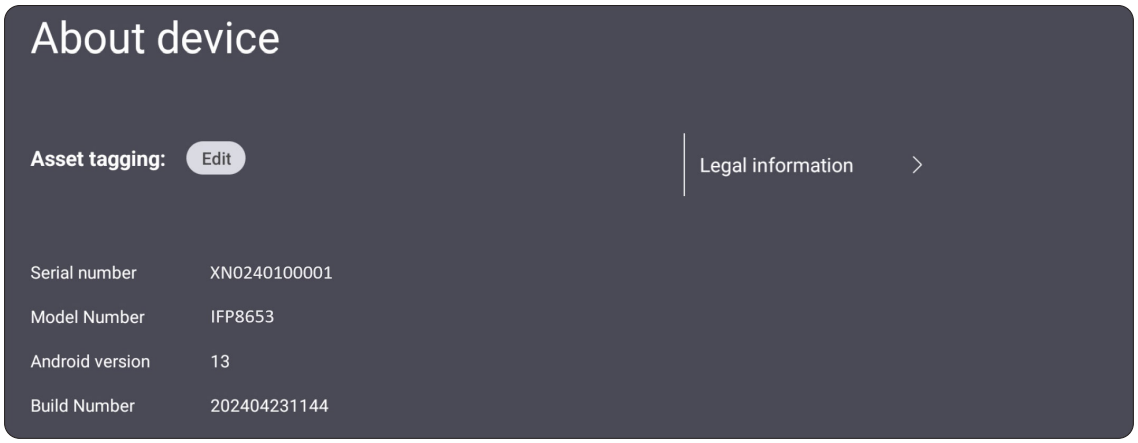
The ViewBoard automatically searches for software updates whenever connected to the Internet (OTA). With just one click, users can update their version of ViewBoard software.



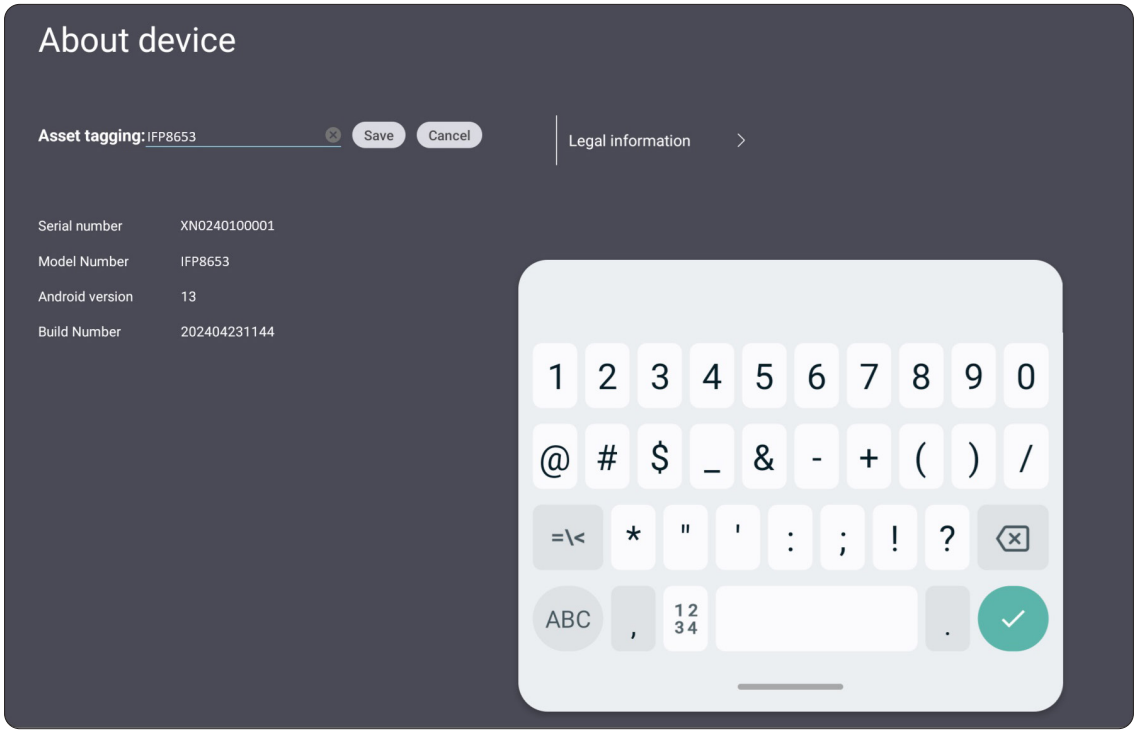
Item	Description
Online Update	Manually check online for a new software version.
Schedule	Set the update time.

About Device

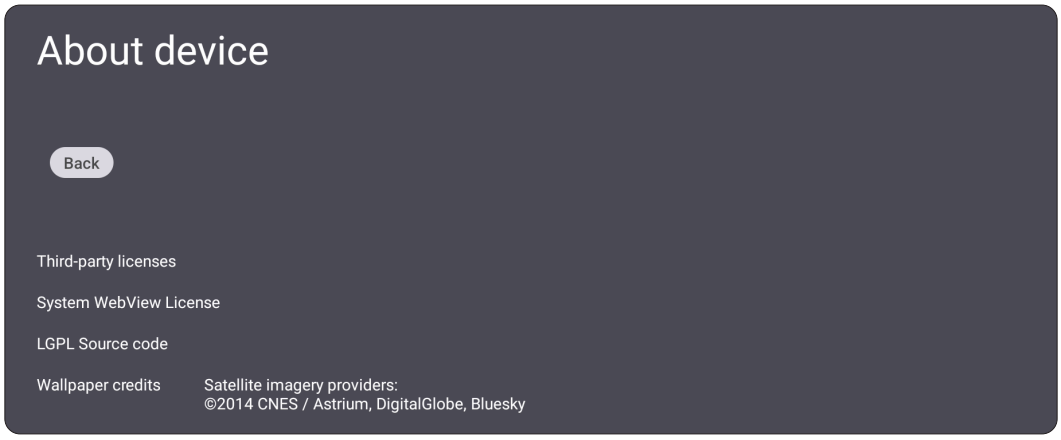
Display Embedded Player information, **Legal information**, and **Asset Tagging**.



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



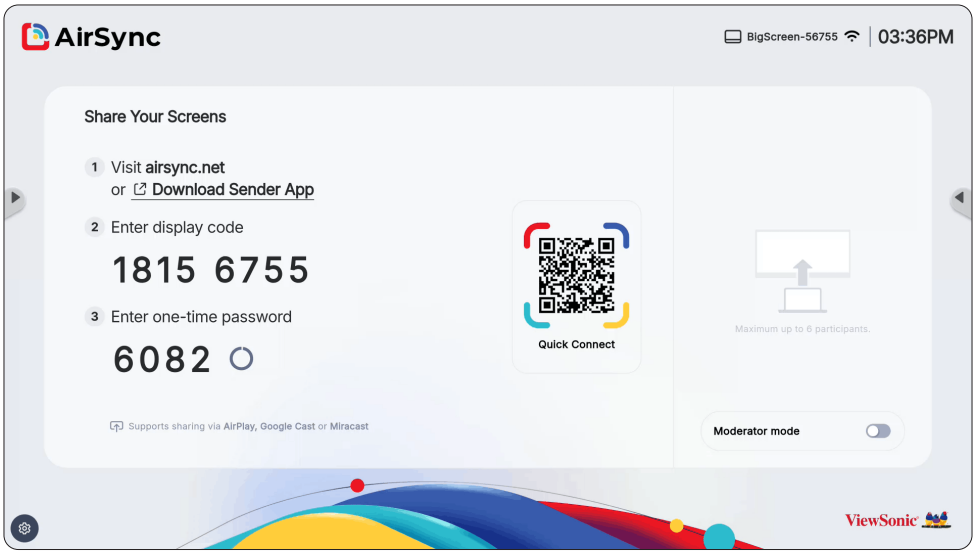
- Tap on **Legal information** to check open source licenses.



Pre-installed Applications and Settings

AirSync

Wirelessly share a device's screen to a large display.

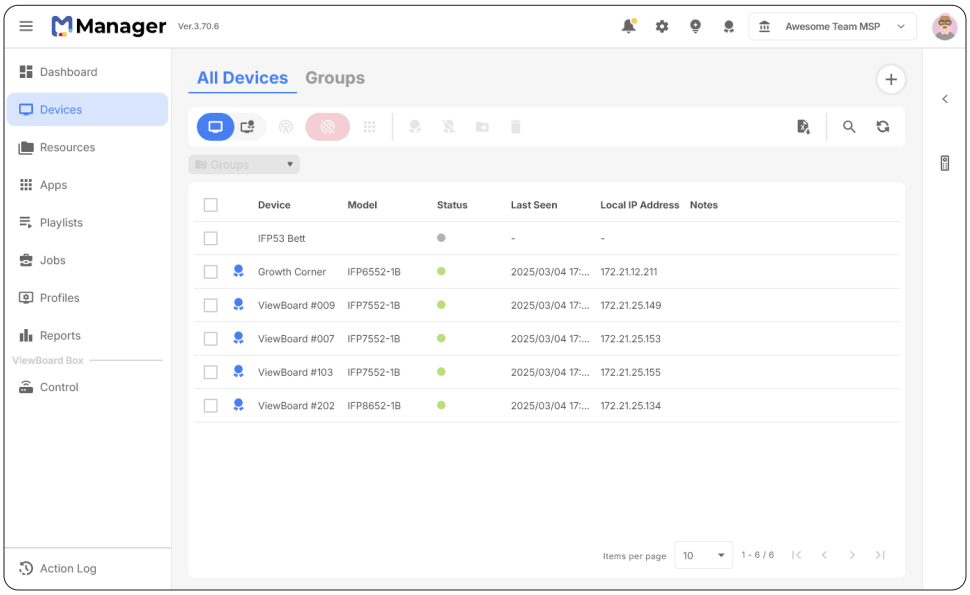


Note: To learn more about AirSync, visit the ViewSonic Apps and ViewBoard Knowledge Base.

Manager

Remotely manage multiple ViewSonic device installations.

Note: Only Entity Admins, after logging into myviewboard.com, have access to this feature.

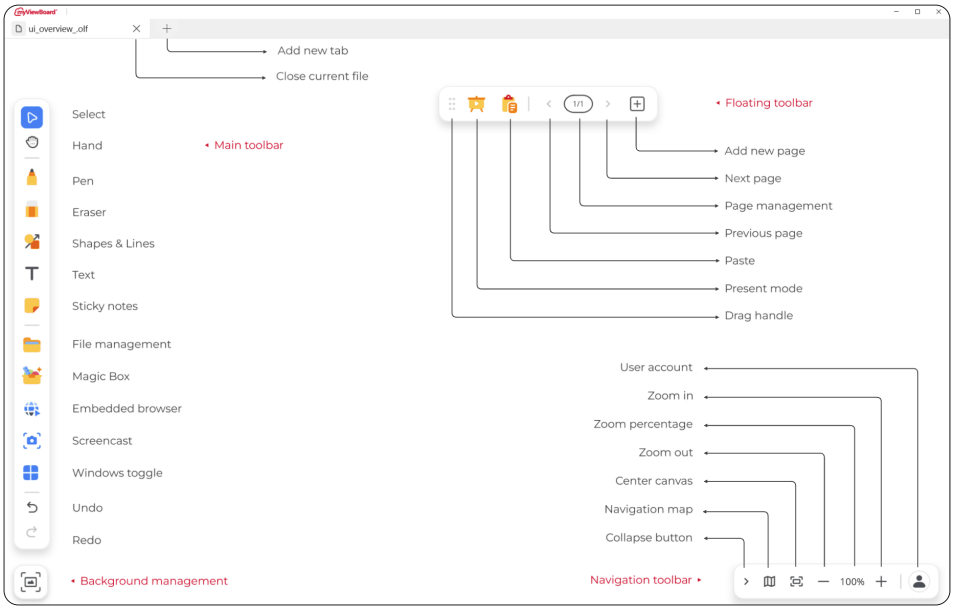


After setting up devices and installing Manager, you can add them to an entity and manage them remotely from the Manager web application.

Note: To learn more about Manager, visit the ViewSonic Apps and ViewBoard Knowledge Base.

myViewBoard

A digital whiteboarding application.



Note: To learn more about myViewBoard, visit the ViewSonic Apps and ViewBoard Knowledge Base.

RS-232 Protocol

This document describes the hardware interface and software protocols of RS-232 interface communication between the ViewSonic LED Display and computers 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

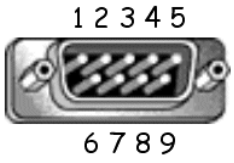
ViewSonic LFD communication port on the rear side:

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

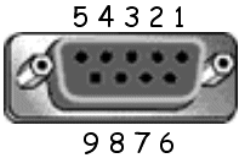
2. Use of crossover (null modem) cable for connection

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)



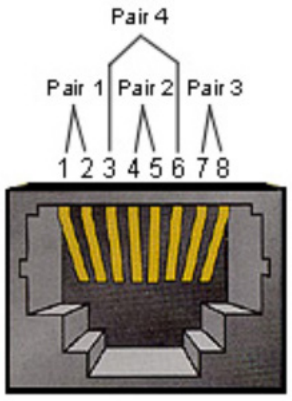
Item	Signal	Remark
Tip	TXD	Output from Display
Ring	RXD	Input to Display
Sleeve	GND	

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 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 at 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 at 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 work only under specific modes. See display UG for details. *3.1.1 2. “WOL by MAC address” maybe available as an alternative.*3.2.1
Input Select	8		s	“	22	000: TV 001: AV 002: S-Video 003: YPbPr 004: HDMI1 014: HDMI2 024: HDMI3 034: HDMI4 005: DVI 006: VGA1 016: VGA2 026: VGA3 007: Slot-in PC (OPS/ SDM)/HDBT 008: Internal memory 009: DP1 *3.2.4 023: DP2 019: Type-C 1 *3.3.2 039: Type-C 2 00A: Embedded/Main (Android)	1. No need for USB 2. For the case of two or more same sources, the 2nd digital is used to indicate the extension. 3. The HEX of 00A is 30 30 41. 4. 00Z is reserved for cycle mode *3.3.1 5. Using 2nd digi to identify DP or Type C. 0 and even numbers stand for DP; odd numbers stand for Type C *3.3.2
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 have 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 settings

Note:

1. Behavior at Lock Modes

Lock Mode	Behavior
Button Lock	1. Lock all buttons on the front panel and RCU, except for “Power” 2. All the SET functions should be workable via RS-232, even the ones with according hot key in RCU like Mute,…etc.
MENU Lock	1. Lock the “MENU’ key of front panel and RCU 2. The Factory and Hospitality modes should not be blocked for the model using MENU-combined key to enter these two modes. Alternative approach will be indicated separately if any limitation by model.
POWER Lock	1. Lock the “POWER” key on the front and RCU. 2. The SET_POWER ON/OFF should be workable via RS-232, but does not mean the POWER lock will be released under this case. 3. Can not be unlocked by reset in OSD setting 4. Will auto AC power-on in power-lock 5. Under power-lock, the set will not enter power saving when no PC signal and neither turn off when no other video signals after 15 minutes.
Remote Control Disable	Lock the RCU keys, but keep the front panel buttons workable.

2. Wake-on-LAN by MAC address as alternative for SET Power on

(Length=126 Bytes)

6 Bytes	6 Bytes (#1)	6 Bytes (#2)	...	6 Bytes (#16)	24 Bytes
0xFF FF ... FF	MAC address	MAC address	...	MAC address	0x00 00 ... 00

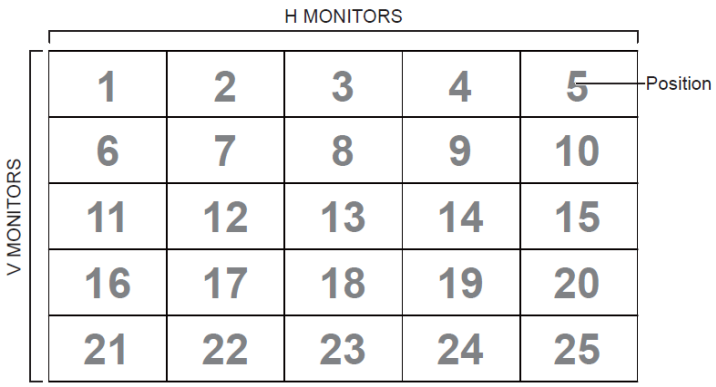
B. Optional Function

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	8		s	(	29	000: OFF 001: ON	
Color mode	8		s	)	29	000: Normal 001: Warm 002: Cold 003: Personal	
Surround sound	8		s	-	2D	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
PIP-Mode	8		s	9	39	000: OFF 001: PIP(POP) 002: PBP	
PIP-Sound select	8		s	:	3A	000: Main 001: Sub	
PIP-Position	8		s	;	3B	000: Up 001: Down 002: Left 003: Right	
PIP-Input	8		s	7	37 *2.9	000: TV 001: AV 002: S-Video 003: YPbPr 004: HDMI1 014: HDMI2 024: HDMI3 034: HDMI4 005: DVI 006: VGA1 016: VGA2 026: VGA3 007: Slot-in PC (OPS/SDM)/HDBT 008: Internal memory 009: DP/Type-C *3.2.4 00A: Embedded/ Main (Android)	Value range is same as SET-Input select

Set Function	Length	ID	Command	Command		Value Range	Comments
Tiling-Mode	8		s	P	50	000: OFF 001: ON	(for video wall)
Tiling-Compensation	8		s	Q	51	000: OFF 001: ON	(for video wall) Bezel width compensation
Tiling-H by V Monitors	8		s	R	52	01x~09x: H 0x1~0x9: V	(for video wall) 1. 2nd digital for H monitors 2. 3rd digital for V monitors
Tiling-Position	8		s	S	53	001~025	(for Video wall) Copy the screen of Position# to identified display
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

Note:

1. Tiling definition of H Monitors, V Monitors, and Position



2. Set Date example

Date: 2017-3/15

Send: 0x 38 30 31 73 56 59 31 37 0D (“Y17”)

Send: 0x 38 30 31 73 56 4D 30 33 0D (“M03”)

Send: 0x 38 30 31 73 56 44 31 35 0D (“D15”)

3. Set Time example

Time: 16:27:59

Send: 0x 38 30 31 73 57 48 31 36 0D (“H16”)

Send: 0x 38 30 31 73 57 4D 32 37 0D (“M27”)

Send: 0x 38 30 31 73 57 53 35 39 0D (“S59”)

Get-Function Listing

The PC can interrogate the LFD for specific information. The Get-Function packet format consists of 9 bytes which is similar to the Set-Function packet structure. Note that the “Value” byte is always = 000.

Get-Function Description:

Length:	Total Byte of Message excluding “CR”.
TV/DS ID	Identification for each of TV/DS (01~98; default is 01).
Command Type	Identify command type, “g” (0x67h) : Get Command “r” (0x72h) : 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

Get-Function Format

Send: (Command Type=“g”)

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=“r” or “-”)

If the Command is valid, Command Type = “r”

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

If the Command is NOT valid, Command Type = “-”

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

Example 1: Get Brightness from TV-05 and this command is valid. The Brightness value is 67.

Send (Hex Format)

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x35	0x67	0x62	0x30	0x30	0x30	0x0D

Reply (Hex Format)

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x35	0x72	0x62	0x30	0x36	0x37	0x0D

Example 2: Get Color from Display (#05), but the Color command is not supported by this model.

Send (Hex Format)

Name	Length	ID	Command Type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x35	0x67	0x26	0x30	0x30	0x30	0x0D

Reply (Hex Format)

Name	Length	ID	Command Type	CR
Hex	0x34	0x30 0x35	0x2D	0x0D

Get-Function Table

A. Basic Function

Get Function	Length	ID	Command	Command		Response Range	Comments
			Type (ASCII)	Code (ASCII)	Code (Hex)	(Three ASCII bytes)	
Get-Brightness	8		g	b	62	000 ~ 100	
Get-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
Get-Volume	8		g	f	66	000 ~ 100	
Get-Mute	8		g	g	67	000: OFF 001: ON (muted)	
Get-Input select	8		g	j	6A	000~ 100~	1. 1st digit for signal detection: 0 means “no signal”; 1 means “signal detected” 2. 2nd & 3rd digit: See Set-function table
Get-Power status: ON/ STBY	8		g	l	6C	001: ON 000: STBY	
Get-Remote control	S		g	n	6E	000: Disable 001: Enable 002: Pass through	Get RCU mode status
Get-Power lock	8		g	o	6F	000: Unlock 001: Lock	
Get-Button lock	8		g	p	70	000: Unlock 001: Lock	
Get-Menu lock	8		g	l	6C	000: Unlock 001: Lock	
Get-ACK	8		g	z	7A	000	This command is used to test the communication link
Get-Thermal	8		g	0	30	000~100: 0~+100 deg C -01~-99: -1~-99 deg C	
Get-Operation hour *3.2.0	8		g	1	31	000	1. Accumulated hours in 6-digit integer (000,001~ 999,999) *3.2.0 2. Can not be reset when FW update and Factory initiation *3.2.2 3. Reply in new 32-byte format *3.2.0
Get-Device name	8		g	4	34	000	Reply in new 32-byte format *3.2.0

Get Function	Length	ID	Command	Command		Response Range	Comments
Get-MAC address	8		g	5	35	000	(for the models with LAN) Reply in new 32-byte format *3.2.0
Get-IP address *3.2.0	8		g	6	36	000	(for the models with LAN) Reply in new 32-byte format *3.2.0
Get-Serial number *3.2.0	8		g	7	37	000	Reply in new 32-byte format *3.2.0
Get-FW version *3.2.0	8		g	8	38	000	Reply in new 32-byte format *3.2.0

Note:

1. Get Operation Hour example

Assumed the accumulated operation hour is 123,456 hrs

Send: 0x 38 30 31 67 31 30 30 30 0D (Get Operation hour)

Reply: 0x 32 30 31 72 31 31 32 33 34 35 36 00 00 … 00 00 0D

2. Get Device Name example

Assumed the device name is CDE-5500

Send: 0x 38 30 31 67 34 30 30 30 0D (Get Device Name)

Reply: 0x 32 30 31 72 34 43 44 45 2D 35 35 30 30 00 00 … 00 00 0D

Assumed the device name is “NMP-302#1”

Send: 0x 38 30 31 67 34 30 30 30 0D (Get Device Name)

Reply: 0x 32 30 31 72 34 4E 4D 50 2D 33 30 32 23 31 00 00 …00 00 0D

3. Get MAC address example

Assumed the MAC address is 00:11:22:aa:bb:cc

Send: 0x 38 30 31 67 35 30 30 30 0D (Get MAC add)

Reply: 0x 32 30 31 72 35 30 30 31 31 32 32 61 61 62 62 63 63 00 00…00 00 0D

4. Get IP address example

Assumed the IP address is 192.168.100.2

Send: 0x 38 30 31 67 36 30 30 30 0D (Get IP address)

Reply: 0x 32 30 31 72 36 31 39 32 2E 31 36 38 2E 31 30 30 2E 32 00 00…00 00 0D

5. Get Serial number example

Assumed the Serial number is ABC180212345

Send: 0x 38 30 31 67 37 30 30 30 0D (Get Serial number)

Reply: 0x 32 30 31 72 37 41 42 43 31 38 30 32 31 32 33 34 35 00 00…00 00 0D

6. Get FW version example

Assumed the FW version is 3.02.001

Send: 0x 38 30 31 67 38 30 30 30 0D (Get FW version)

Reply: 0x 32 30 31 72 38 33 2E 30 32 2E 30 30 31 00 00…00 00 0D

B. Optional Function

Get Function	Length	ID	Command	Command		Response Range	Comments
			Type (ASCII)	Code (ASCII)	Code (Hex)	(Three ASCII bytes)	
Get-Contrast	8		g	a	61	000 ~ 100	
Get-Sharpness	8		g	c	63	000 ~ 100	
Get-Color	8		g	d	64	000 ~ 100	
Get-Tint	8		g	e	65	000 ~ 100	
Get-Backlight On_Off	8		g	h	68	000: OFF 001: ON	
Get-PIP mode	8		g	t	74	000: OFF 001: PIP (POP) 002: PBP	
Get-PIP input	8		g	u	75	000 ~	See Set-input select
Get-Tiling Mode	8		g	v	76	000: OFF 001: ON	(for Video wall)
Get-Tiling Compensation	8		g	w	77	000: OFF 001: ON	(for Video wall) Bezel width compensation
Get-Tiling H by V monitors	8		g	x	78	01x~09x: H monitors 0x1~0x9: V monitors	(for Video wall) 1. 2nd digital for H monitors 2. 3rd digital for V monitors
Get-Tiling position	8		g	y	79	000: OFF 001~025	(for Video wall) Copy the screen of Position# to identified display
Get-Date: Year	8		g	2	32	Y00~Y00	Last 2 digits (20)17~(20)99
Get-Date: Month	8		g	2	32	M00~M00	2 digits
Get-Date: Day	8		g	2	32	D00~M00	2 digits
Get-Time: Hour	8		g	3	33	H00~H00	24-hr format. 2 digits
Get-Time: Min	8		g	3	33	M00~M00	2 digits
Get-Time: Sec	8		g	3	33	S00~S00	2 digits

Note:

1. Get Date example

Assumed the current date of display#01 as below:

Date: 2017-3/15

Send: 0x 38 30 31 67 32 59 30 30 0D (Get Date:Year)
Reply: 0x 38 30 31 72 32 59 31 37 0D (“Y17”)

Send: 0x 38 30 31 67 32 4D 30 30 0D (Get Date:Month)
Reply: 0x 38 30 31 72 32 4D 30 33 0D (“M03”)

Send: 0x 38 30 31 67 32 44 30 30 0D (Get Date:Day)
Reply: 0x 38 30 31 72 32 44 31 35 0D (“D15”)

2. Get Time example

Assumed the current time of display#01 as below:

Time: 16:27:59

Send: 0x 38 30 31 67 33 48 30 30 0D (Get Time:Hour)
Reply: 0x 38 30 31 72 33 48 31 36 0D (“H16”)

Send: 0x 38 30 31 67 33 4D 30 30 0D (Get Time:Min)
Reply: 0x 38 30 31 72 33 4D 32 37 0D (“M27”)

Send: 0x 38 30 31 67 33 53 30 30 0D (Get Time:Sec)
Reply: 0x 38 30 31 72 33 53 35 39 0D (“S59”)

3. Get RS232 version example

Assumed the version is 3.0.1

Send: 0x 38 30 31 67 36 30 30 30 0D (Get RS232 version)
Reply: 0x 38 30 31 72 36 33 30 31 0D (“301”)

C. Auto Reply *3.2.1

The display will send out the updated data/status automatically without GET query from the host whenever the following data/status is changed by the user through any of the available ways like: remote control unit, front control panel keys, or touch screen.

- Power On/Off
- Input Select
- Brightness
- Backlight
- Volume
- Mute On/Off

Remote Control Pass-through Mode

When the PC sets the Display to Remote Control Pass through mode, the Display will send a 7-byte packet (followed by “CR”) in response to remote control unit (RCU) button activation.

In this mode the RCU will have no effect on the Display function. For example: “Volume+” will not change the volume of the Display, but instead only send the “Volume+” code to the PC over the RS-232 port.

IR Pass Through-Function format

Reply: (Command Type=“p”)

Name	Length	ID	Command Type	RCU Code1 (MSB)	RCU Code2 (LSB)	CR
Byte Count	1 Byte	2 Byte	1 Byte	1 Byte	1 Byte	1 Byte
Bytes order	1	2~3	4	5	6	7

Example 1: Remote Control Pass-through when “VOL+” key is pressed for Display (#5)

Send (Hex Format)

Name	Length	ID	Command Type	RCU Code1 (MSB)	RCU Code2 (LSB)	CR
Hex	0x36	0x30 0x35	0x70	0x31	0x30	0x0D

Key	Code (HEX)	Basic *3.1.1	Optional *3.1.1
1	01	V	
2	02	V	
3	03	V	
4	04	V	
5	05	V	
6	06	V	
7	07	V	
8	08	V	
9	09	V	
0	0A	V	
-	0B		V
RECALL (LAST)	0C		V
INFO (DISPLAY)	0D		V
	0E		
ASPECT (ZOOM, SIZE)	0F		V
VOLUME UP (+)	10	V	
VOLUME DOWN (-)	11	V	
MUTE	12	V	
CHANNEL/PAGE UP (+)/ BRIGHTNESS+	13		V
CHANNEL/PAGE DOWN (-)/ BRIGHTNESS-	14		V
POWER	15	V	
SOURCES (INPUTS)	16	V	
	17		
	18		
SLEEP	19		V
MENU	1A	V	
UP	1B	V	
DOWN	1C	V	
LEFT (-)	1D	V	
RIGHT (+)	1E	V	
OK (ENTER, SET)	1F	V	
EXIT	20	V	
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		

Key	Code (HEX)	Basic *3.1.1	Optional *3.1.1
	2A		
	2B		
RED (F1)	2C		V
GREEN (F2)	2D		V
YELLOW (F3)	2E		V
BLUE (F4)	2F		V

Note:

1. This IR-pass-through code is different from the RCU key code.

2. Special control sequence for POWER key under IR-pass through mode.

2-1. When Display is OFF and receives the IR POWER code: Display will turn itself ON, then forward the POWER code to the host via RS-232.

2-2. When Display is ON and receives the IR POWER code: Display will forward the POWER code to the host via RS-232, then turn OFF itself.

2-3. When SET-POWER LOCK is enabled, the Display will not respond to POWER key pressing.

3. The VOLUME UP and VOLUME DOWN code will repeatedly output when you press and hold the keys.

Appendix

Display Modes

DisplayPort

Resolution	Refresh Rate (@)
640 x 480	60, 67, 72 Hz
800 x 600	56, 60, 72, 75 Hz
832 x 624	75 Hz
1024 x 768	60, 70, 75 Hz
1152 x 864	75 Hz
1152 x 870	75 Hz
1280 x 720	60 Hz
1280 x 960	60 Hz
1280 x 1024	60, 75 Hz
1360 x 768	60, 85 Hz
1366 x 768	60 Hz
1440 x 900	60 Hz
1600 x 1200	60 Hz
1680 x 1050	60 Hz
1920 x 1080	60 Hz
1920 x 1200	60 Hz
3840 x 2160	25, 30, 50, 60 Hz

HDMI

Resolution	Refresh Rate (@)
640 x 480	60, 67, 72, 75 Hz
800 x 600	56, 60, 72, 75 Hz
832 x 624	75 Hz
1024 x 768	60, 70, 75 Hz
1152 x 864	75 Hz
1152 x 870	75 Hz
1280 x 720	60 Hz
1280 x 960	60 Hz
1280 x 1024	60, 75 Hz
1360 x 768	60, 85 Hz
1366 x 768	60 Hz
1440 x 900	60 Hz
1600 x 1200	60 Hz
1680 x 1050	60 Hz
1920 x 1080	60 Hz
1920 x 1200	60 Hz
3840 x 2160	25, 30, 50, 60 Hz

USB Type C

Resolution	Refresh Rate (@)
640 x 480	60, 67, 72 Hz
800 x 600	56, 60, 72, 75 Hz
832 x 624	75 Hz
1024 x 768	60, 70, 75 Hz
1152 x 864	75 Hz
1152 x 870	75 Hz
1280 x 720	60 Hz
1280 x 960	60 Hz
1280 x 1024	60, 75 Hz
1360 x 768	60, 85 Hz
1366 x 768	60 Hz
1440 x 900	60 Hz
1600 x 1200	60 Hz
1680 x 1050	60 Hz
1920 x 1080	60 Hz
1920 x 1200	60 Hz
3840 x 2160	25, 30, 50, 60 Hz

VGA

Resolution	Refresh Rate (@)
640 x 480	60, 67, 72 Hz
800 x 600	56, 60, 72, 75 Hz
832 x 624	75 Hz
1024 x 768	60, 70, 75 Hz
1152 x 864	75 Hz
1152 x 870	75 Hz
1280 x 720	60 Hz
1280 x 960	60 Hz
1280 x 1024	60, 75 Hz
1360 x 768	60, 85 Hz
1366 x 768	60 Hz
1440 x 900	60 Hz
1600 x 1200	60 Hz
1680 x 1050	60 Hz
1920 x 1080	60 Hz
1920 x 1200	60 Hz

HDMI Out

Resolution	Refresh Rate (@)
720 x 480	60 Hz
1920 x 1080	60 Hz
3840 x 2160	60 Hz

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.
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.

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

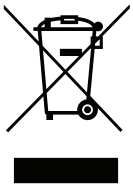
This section addresses all connected requirements and statements regarding regulations. Confirmed corresponding applications shall refer to nameplate labels and relevant markings on the unit.

CE Conformity for European Countries

CE The device complies with the EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU, Radio Equipment Directive 2014/53/EU and RoHS2 Directive 2011/65/EU & Annex II EU/2015/863.

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:

- 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.
- Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher.

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:

ViewSonic Europe Limited
Haaksbergweg 75
1101 BR Amsterdam
Netherlands

+31 (0) 650608655

EPREL@viewsoniceurope.com

https://www.viewsonic.com/eu/

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Microsoft, Windows, and the Windows logo are registered trademarks of Microsoft Corporation in the United States and other countries.

ViewSonic® and the three birds logo are registered trademarks of ViewSonic® Corporation.

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.

No part of this document may be copied, reproduced, or transmitted by any means, for any purpose without prior written permission from ViewSonic® Corporation.

IFP53-ED_Series_UG_ENG_1b_20251209

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.
- 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®.

Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico:	
Name, address, of manufacturer and importers: México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, Estado de México Tel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htm	
NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004	
Hermosillo: Distribuciones y Servicios Computacionales SA de CV. Calle Juarez 284 local 2 Col. Bugambilias C.P: 83140 Tel: 01-66-22-14-9005 E-Mail: disc2@hmo.megared.net.mx	***Villahermosa:*** Compumantenimietnos Garantizados, S.A. de C.V. AV. GREGORIO MENDEZ #1504 COL, FLORIDA C.P. 86040 Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09 E-Mail: compumantenimientos@prodigy.net.mx
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Chihuahua: Soluciones Globales en Computación C. Magisterio # 3321 Col. Magisterial Chihuahua, Chih. Tel: 4136954 E-Mail: Cefeo@soluglobales.com	***Cuernavaca:*** Compusupport de Cuernavaca SA de CV Francisco Leyva # 178 Col. Miguel Hidalgo C.P. 62040, Cuernavaca Morelos Tel: 01 777 3180579 / 01 777 3124014 E-Mail: aquevedo@compusupportcva.com
Distrito Federal: QPLUS, S.A. de C.V. Av. Coyoacán 931 Col. Del Valle 03100, México, D.F. Tel: 01(52)55-50-00-27-35 E-Mail : gacosta@qplus.com.mx	***Guadalajara, Jal.:*** SERVICRECE, S.A. de C.V. Av. Niños Héroes # 2281 Col. Arcos Sur, Sector Juárez 44170, Guadalajara, Jalisco Tel: 01(52)33-36-15-15-43 E-Mail: mmiranda@servicrece.com
Guerrero Acapulco: GS Computación (Grupo Sesicomp) Progreso #6-A, Colo Centro 39300 Acapulco, Guerrero Tel: 744-48-32627	***Monterrey:*** Global Product Services Mar Caribe # 1987, Esquina con Golfo Pérsico Fracc. Bernardo Reyes, CP 64280 Monterrey N.L. México Tel: 8129-5103 E-Mail: aydeem@gps1.com.mx
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