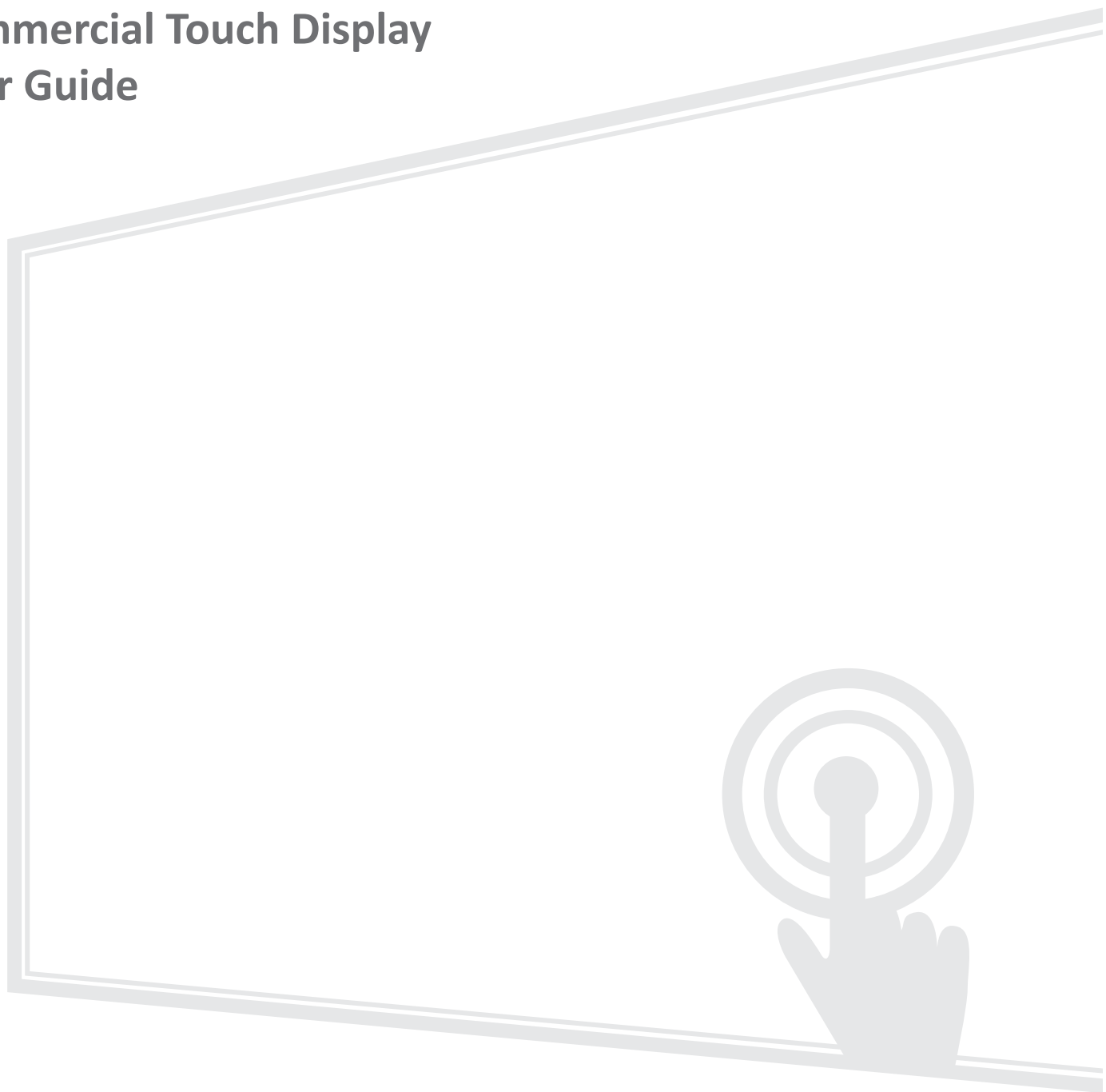


IFP33/IFP33-G Series

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. VS19493 | VS19494 | VS19495
P/N: IFP6533 | IFP7533 | IFP8633 | IFP6533-G | IFP7533-G | IFP8633-G

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.

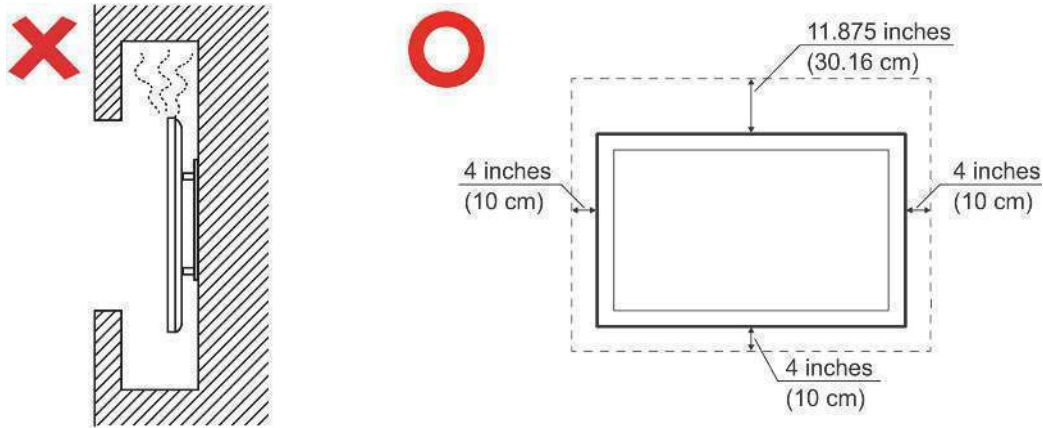
Once again, thank you for choosing ViewSonic®!

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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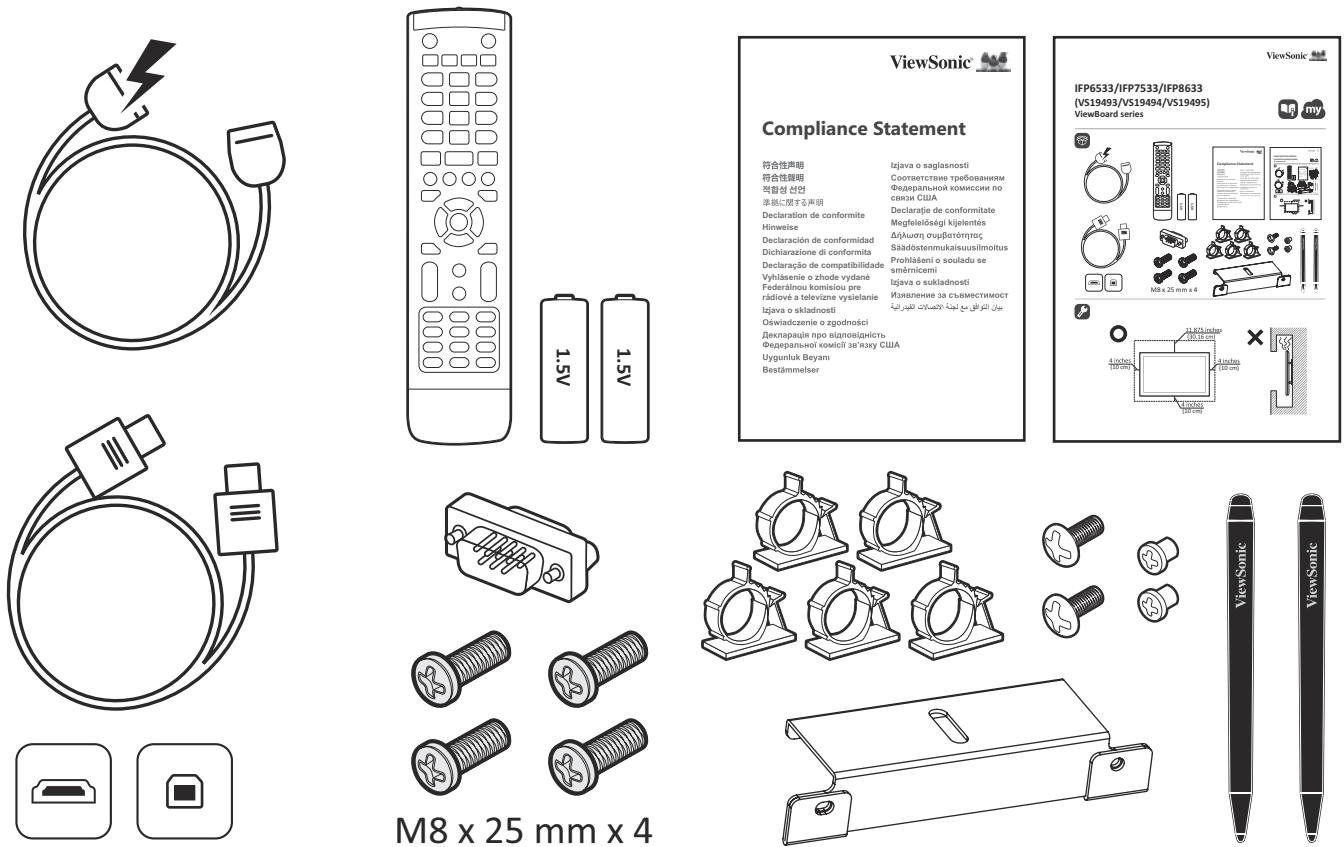
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Introduction

Package Contents



- Power Cord (3 m)
- Remote Control
- AAA Battery
- USB Touch Cable (3 m)
- Touch Pen x 2 (VP-PEN-009)
- Quick Start Guide

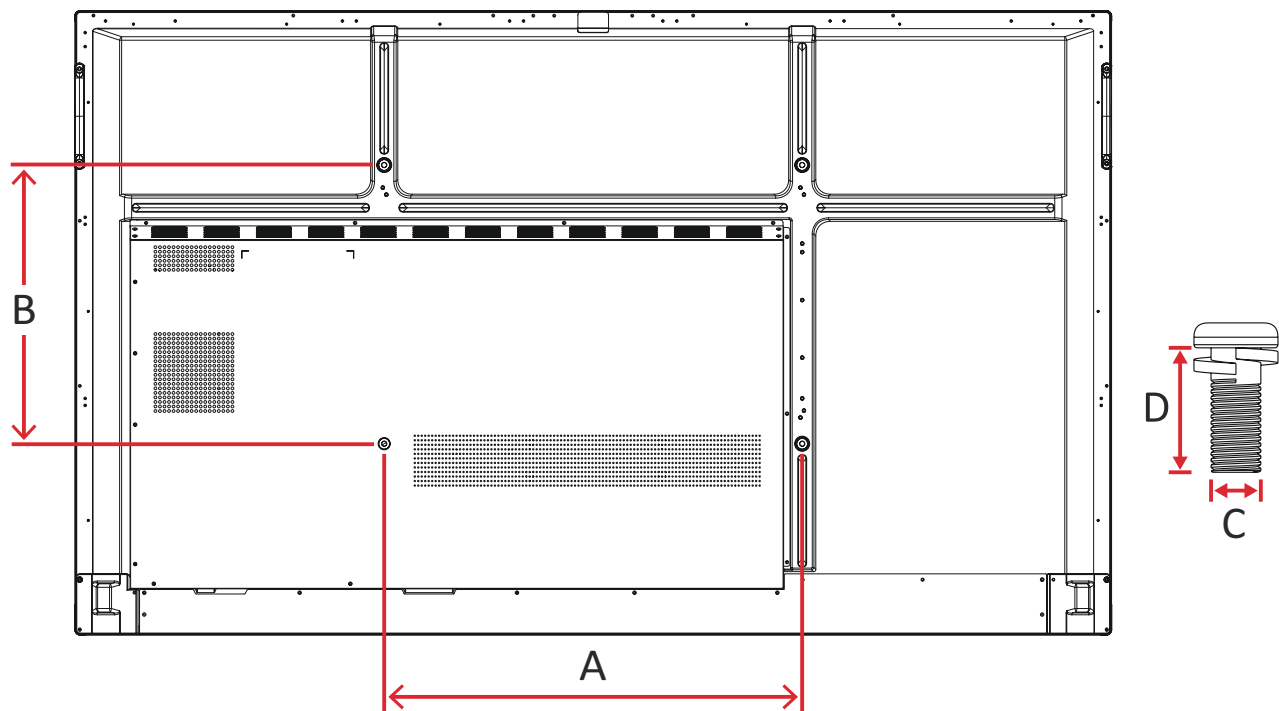
- Compliance Statement
- RS-232 Adapter
- Clamp x 5
- Camera Plate
- Screw x 8
- HDMI Cable (3 m)

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

Wall Mount Kit Specifications (VESA)

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

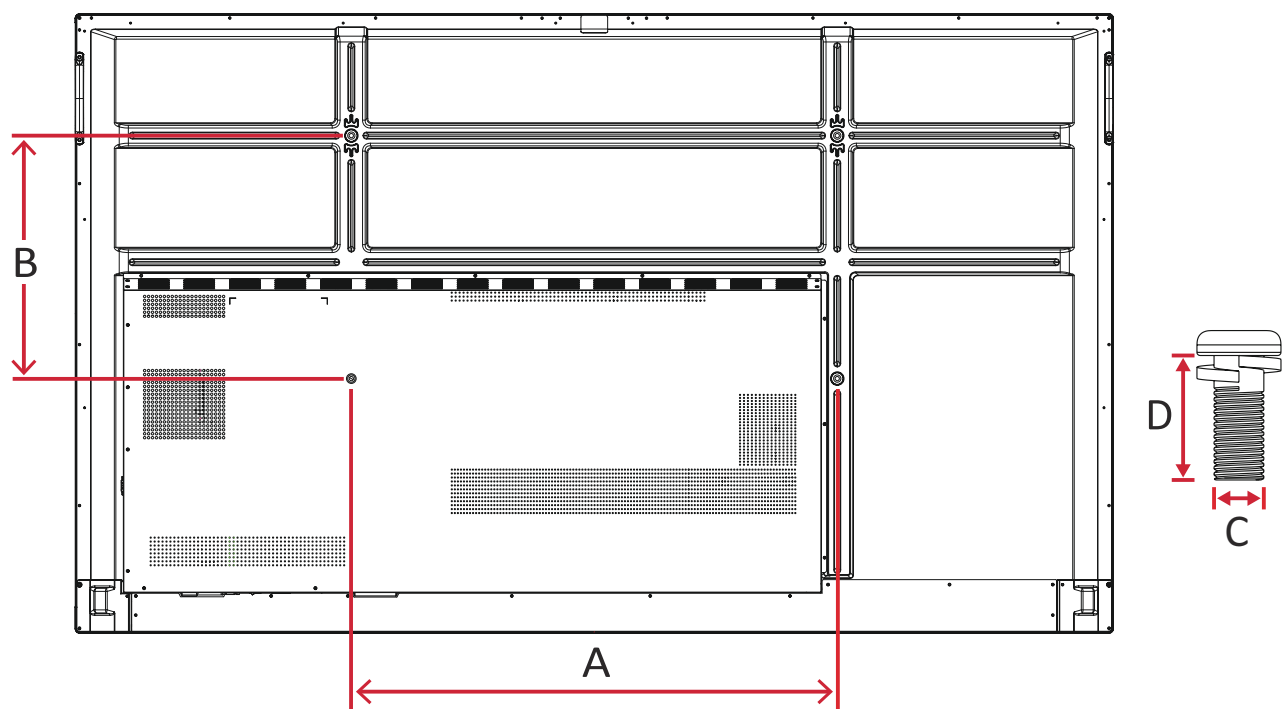
IFP6533



Model	VESA Spec. (A x B)	Standard Screw (C x D)	Quantity
IFP6533- 65"	600 x 400 mm	M8 x 25 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.

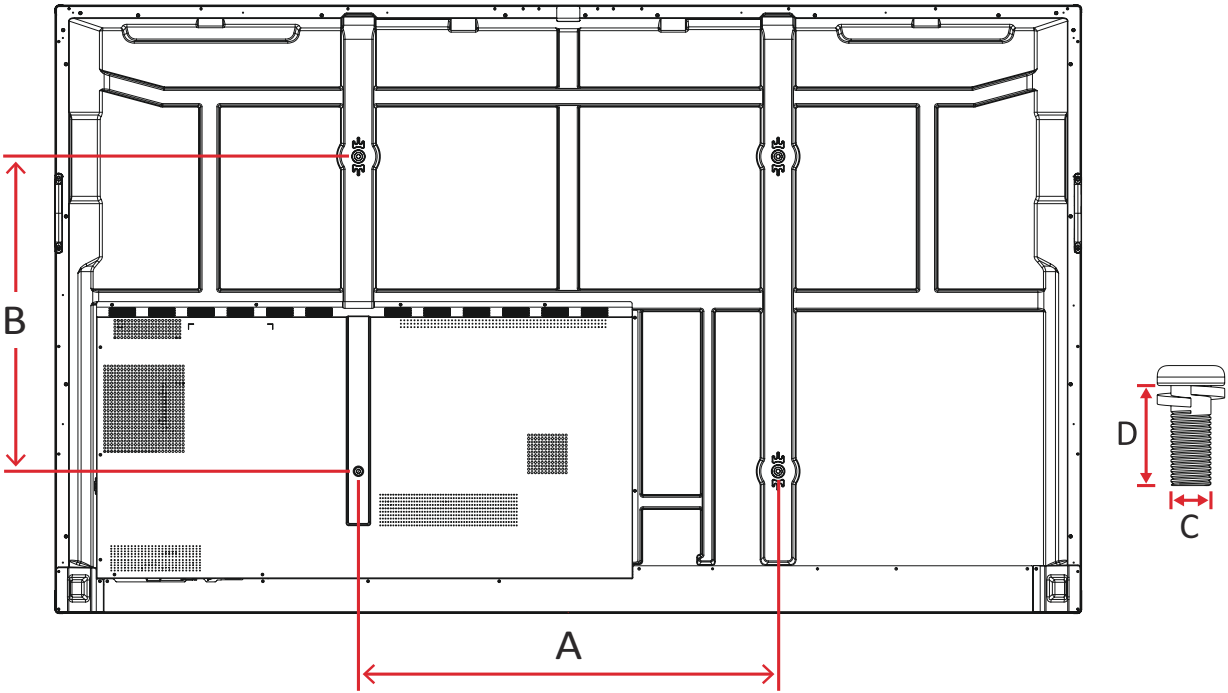
IFP7533



Model	VESA Spec. (A x B)	Standard Screw (C x D)	Quantity
IFP7533 - 75"	800 x 400 mm	M8 x 25 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.

IFP8633



Model	VESA Spec. (A x B)	Standard Screw (C x D)	Quantity
IFP8633 - 86"	800 x 600 mm	M8 x 25 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

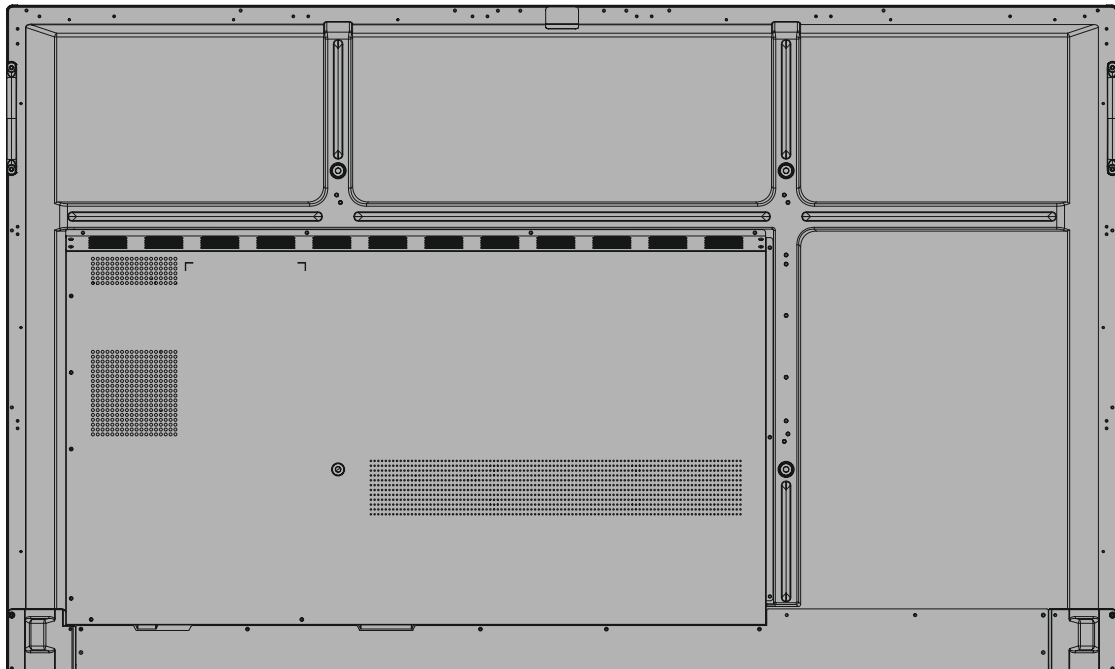
IFP6533

Front Panel



Control Panel and Front I/O

Rear Panel



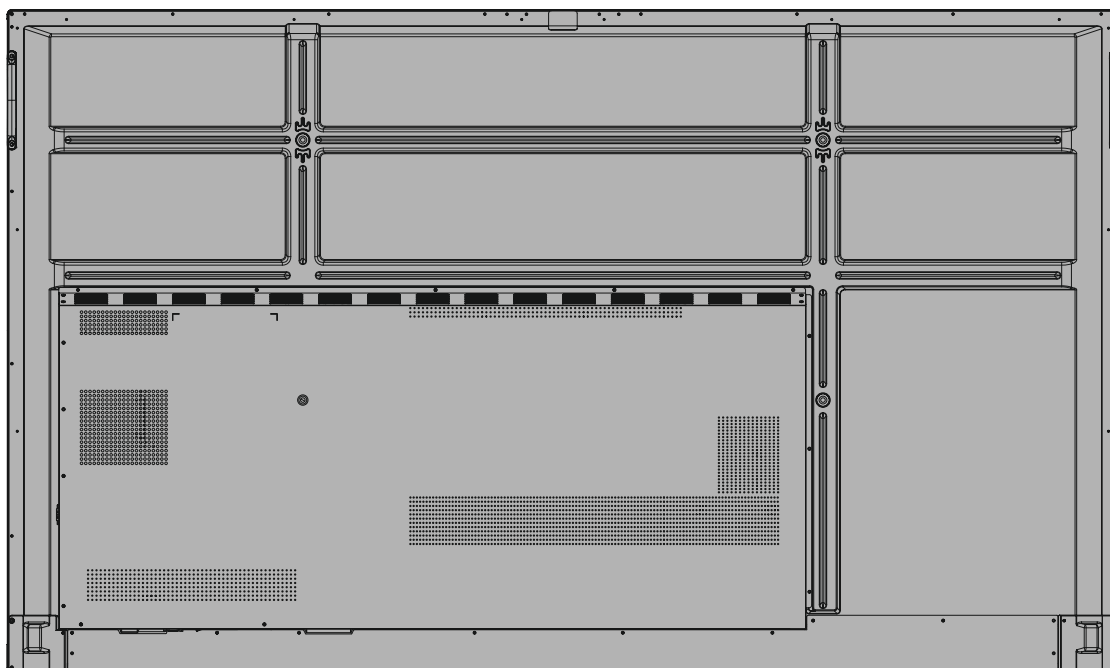
IFP7533

Front Panel



Control Panel and Front I/O

Rear Panel



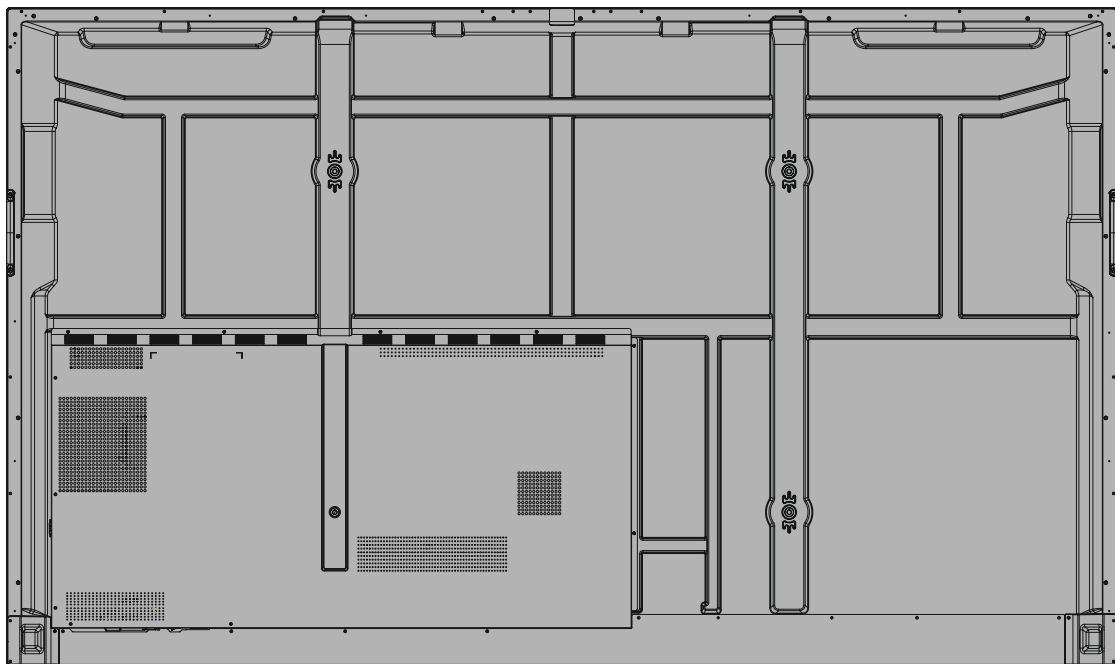
IFP8633

Front Panel

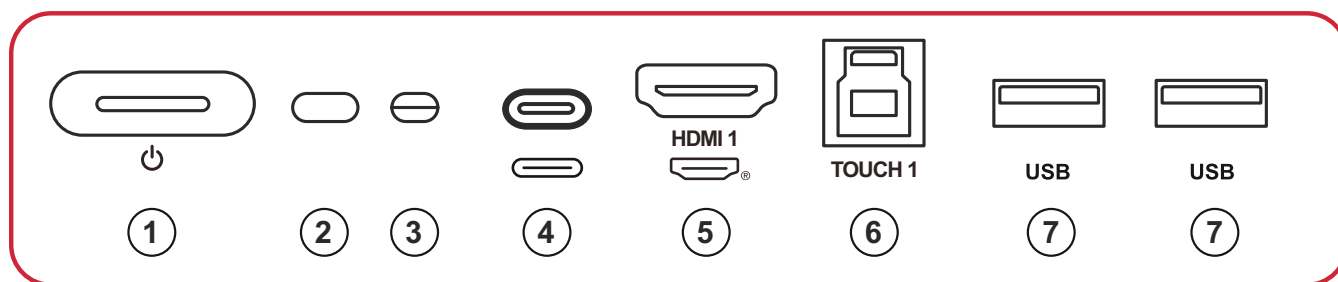


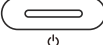
Control Panel and Front I/O

Rear Panel

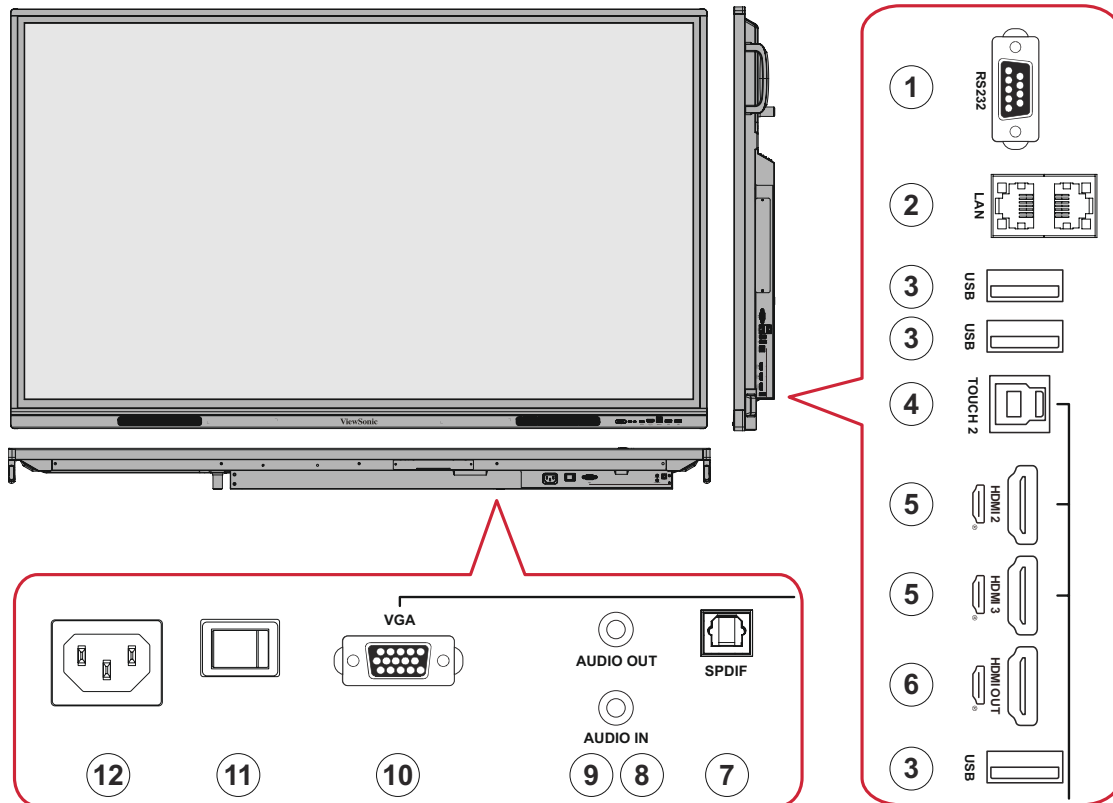


Control Panel and Front I/O



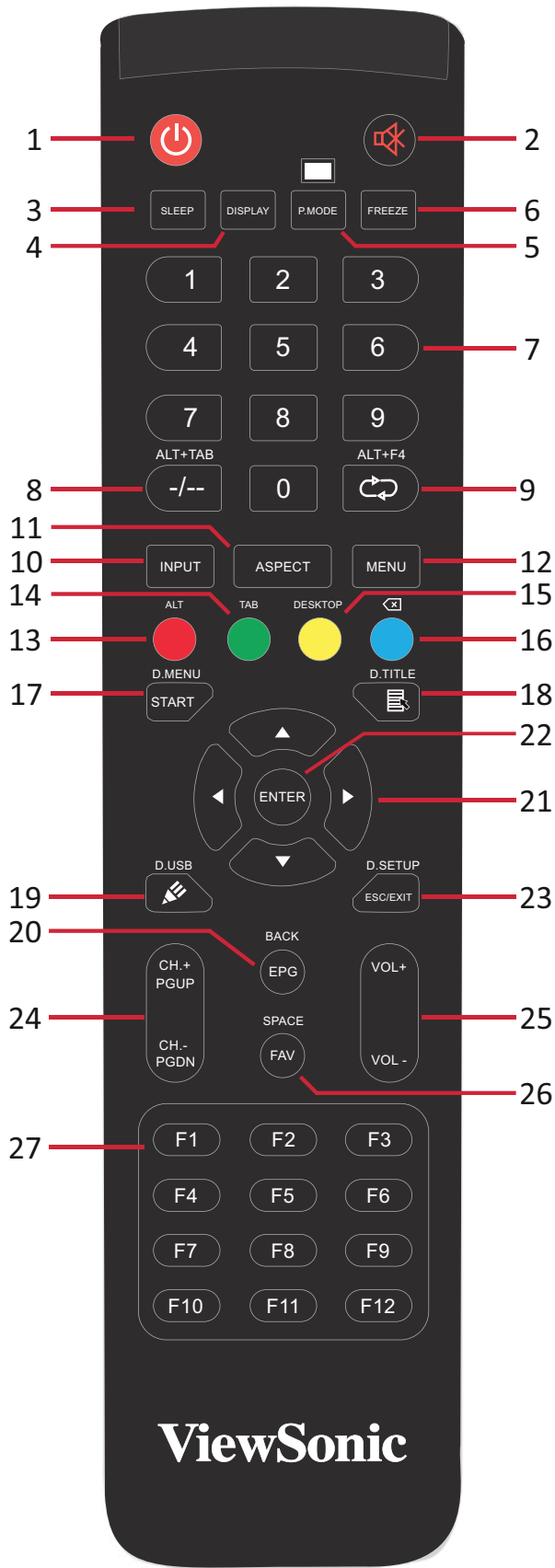
Number	Item	Description
1		- Press to turn on the device - Press to turn off/on the display backlight only - Press and hold to turn off the device
2		Remote control receiver
3		Ambient light sensor
4		- USB Type C input - Connect to a PC with USB Type C output
5		- High definition input - Connect to a PC with HDMI output, set-top box, or other video device.
6		Touch signal output to external PC NOTE: Pairs with HDMI 1 .
7		- USB Type A input - Connect USB devices such as hard disks, keyboard, mouse, etc.

I/O Panel



Number	Item	Description
1	RS-232	- Serial interface - For mutual transfer of data between devices
2	LAN	- Standard RJ45 (10M/100M/1G) internet - For ViewBoard and Slot-in PC use
3	USB Type A	- USB Type A input - Connect USB devices such as hard disks, keyboard, mouse, etc.
4	TOUCH 2	Touch signal output to external PC NOTE: Pairs with HDMI 2/HDMI 3/VGA .
5	HDMI 2/3	- High definition input - Connect to a PC with HDMI output, set-top box, or other video device
6	HDMI OUT	Extend content out to another display device
7	SPDIF	SPDIF output
8	AUDIO OUT	Audio out to an external speaker
9	AUDIO IN	External PC audio input
10	VGA	External PC image input
11	Power Switch	Turn On/Off AC power supply
12	AC IN	AC power input

Remote Control



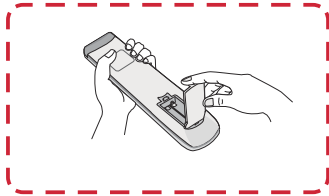
Number	Item	Description
1		Power on/off
2		Mute/Unmute
3	SLEEP	Sleep Mode
4	DISPLAY	For Non-Android sources; display current input source information
5	P.MODE	Blank Screen
6	FREEZE	Freeze Screen
7		Numeric input buttons
8	ALT+TAB -/--	Slot-in computer space bar Alt+Tab
9	ALT+F4 	Slot-in computer, close program window
10	INPUT	Input source selection
11	ASPECT	Back to slot-in system main interface
12	MENU	For Android, access Settings; for other sources, access Touch Menu settings
13	Red / ALT	Screen capture
14	Green / TAB	PC ¹ [Tab] button
15	Yellow / DESKTOP	Switch to slot-in PC desktop
16	BLUE/ 	PC ¹ [Backspace] button
17	START / D.MENU	PC ¹ [Windows] button
18	 / D.TITLE	PC ¹ [Menu] button
19	 / D.USB	Writing software setup
20	EPG/BACK	Return button
21	 /  /  / 	Scroll up, down, left, and right
22	ENTER	Confirm selection/state
23	ESC / EXIT / D.SETUP	Shortcut button to exit dialogue boxes
24	CH.+/PGUP/CH.-/ PGDN	CH+: PC previous page CH-: PC next page
25	VOL+ / VOL-	Increase/Decrease volume
26	FAV / SPACE	PC ¹ [Space] button
27	F1-F12	Built-in computer F1 - F12 function button

¹ All computer-related function keys are not available without a slot-in computer.

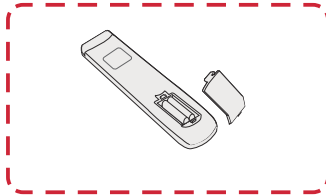
Inserting Remote Control Batteries

To insert batteries into the remote control:

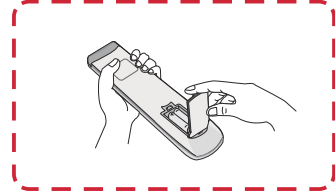
1. Remove the cover on the rear of the remote control.
2. Insert two “AAA” batteries, ensuring the “+” symbol on the battery matches the “+” on the battery post.
3. Replace the cover by aligning it with the slot on the remote control and snapping the latch shut.



(1)



(2)



(3)

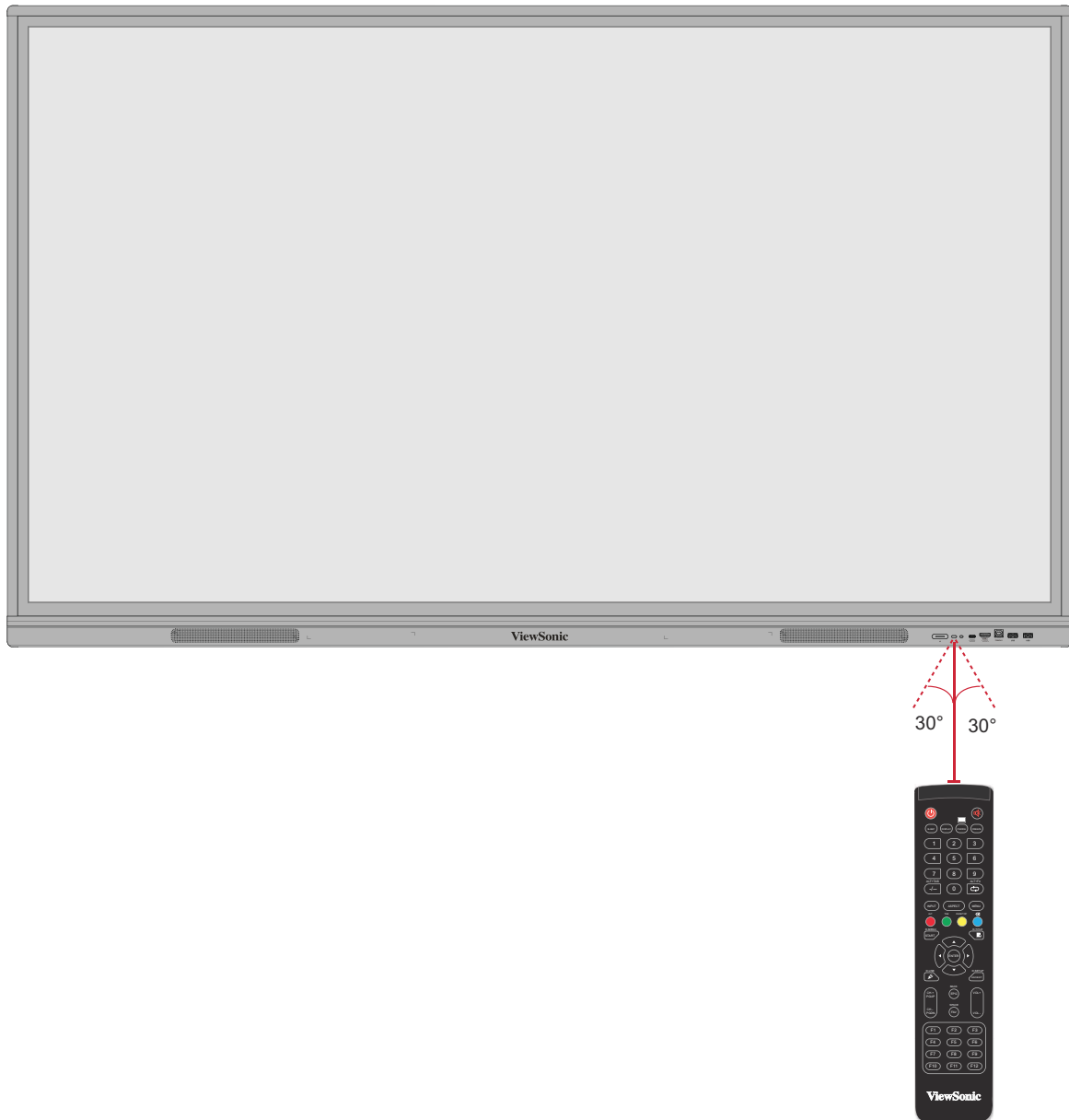
WARNING: There is a risk of explosion if batteries are replaced with the incorrect type.

NOTE:

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

Remote Control Receiver Range

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

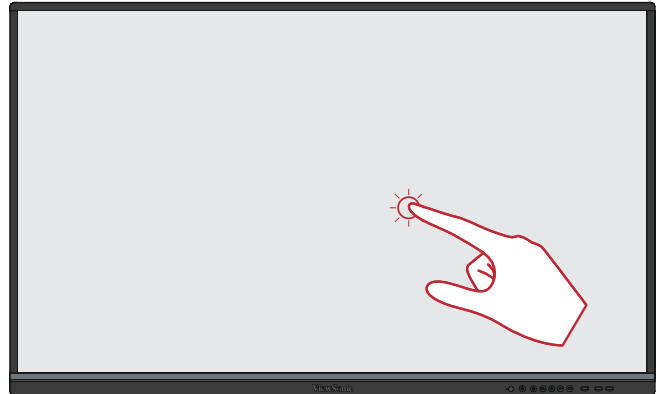


Using Gestures

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

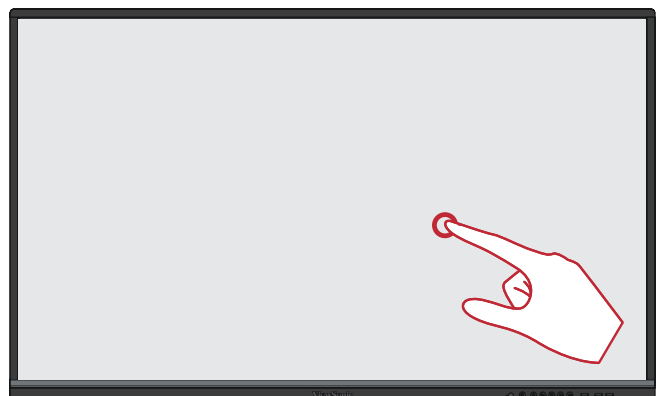
Select and Deselect an Object (Clicking)

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



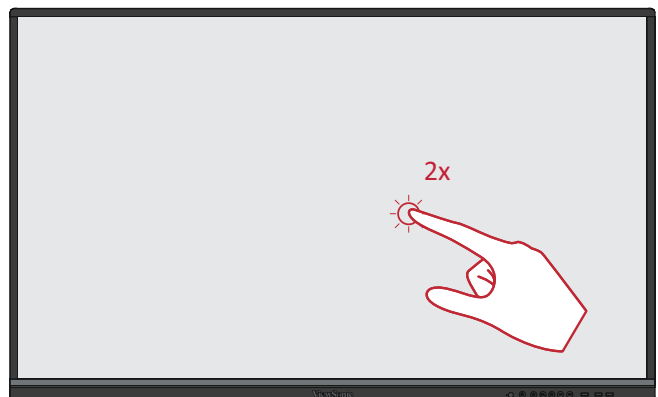
Display Menu Options (Right-Clicking)

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



Double-Clicking

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



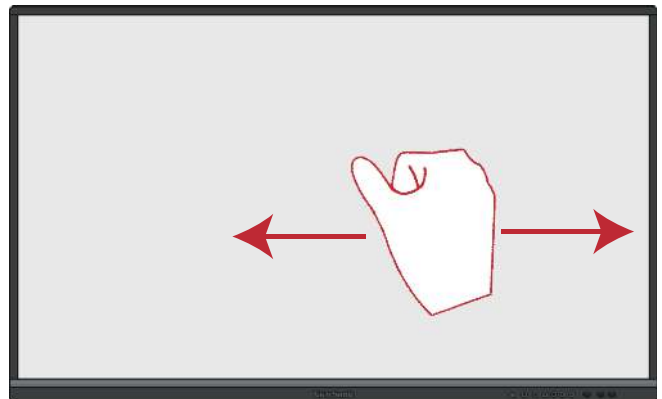
Moving an Object

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



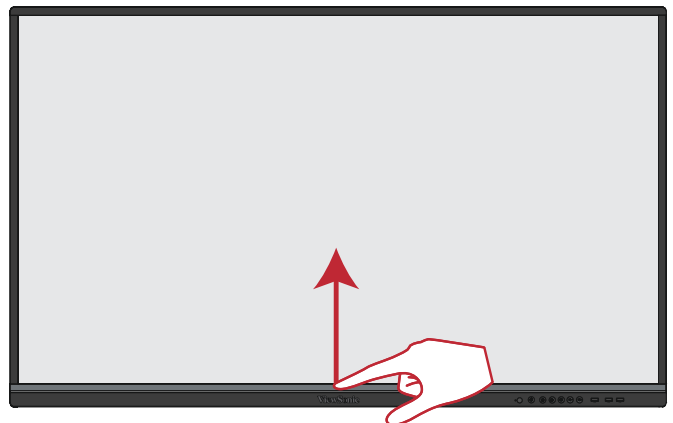
Erasing Digital Ink

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



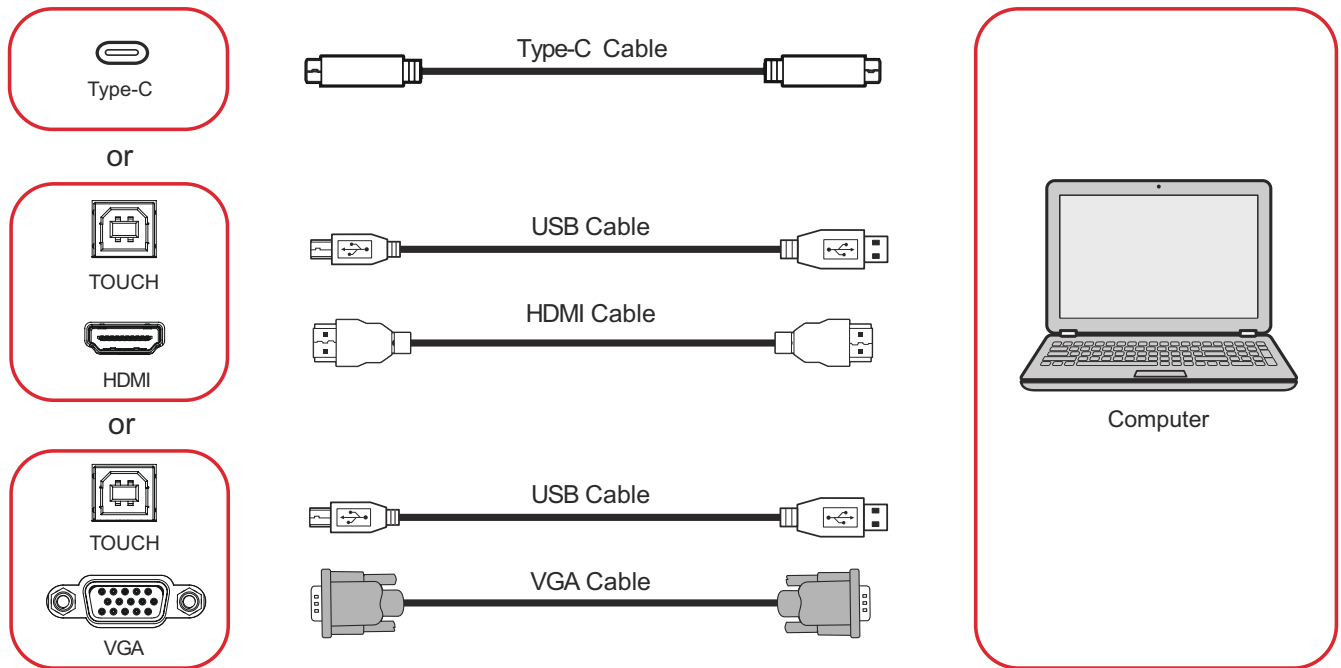
Swipe Up for General Settings

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



Making Connections

Connecting External Devices and Touch Connection



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

Type C Connection

To connect via Type C:

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

HDMI Connection

To connect via HDMI:

1. Connect an HDMI cable from your external device to the **HDMI 1/2/3** port on the ViewBoard.
2. Connect a USB cable to the external device from the **TOUCH** port of the ViewBoard.

NOTE: The **TOUCH 1** port is for the **HDMI 1** port. The **TOUCH 2** port is for the **HDMI 2** and **HDMI 3** ports.

VGA Connection

To connect via VGA:

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

NOTE: The **TOUCH 1** port is for the **HDMI 1** port. The **TOUCH 2** port is for the **HDMI 2, HDMI 3, and VGA** ports.

RS-232 Connection



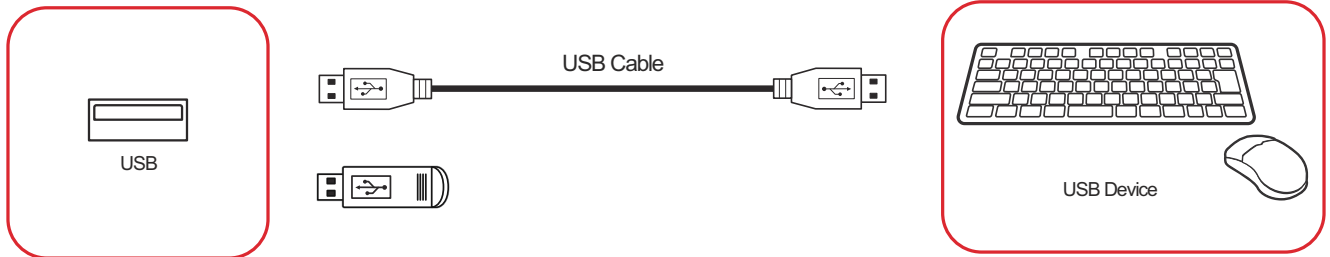
When you use a RS-232 serial port cable to connect your display to an external computer certain functions can be controlled remotely by the PC, including Power On/Off, Volume adjustment, Input select, Brightness, and more.

USB and Networking Connections

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

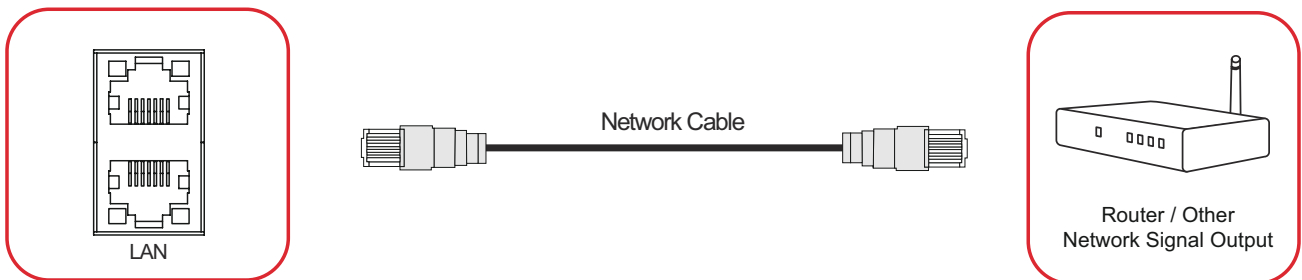
USB Peripherals

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

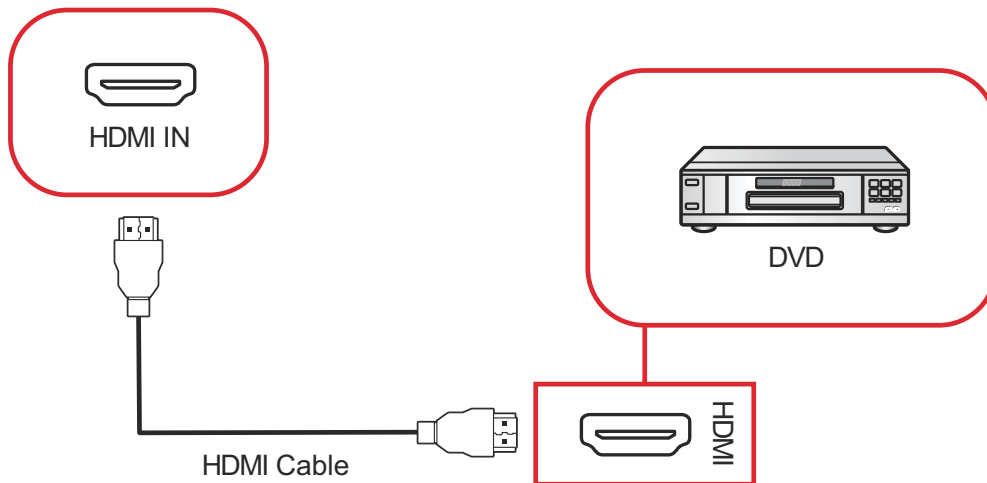


Networking and Modem cables

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



Media Player Connection



To connect to a media player:

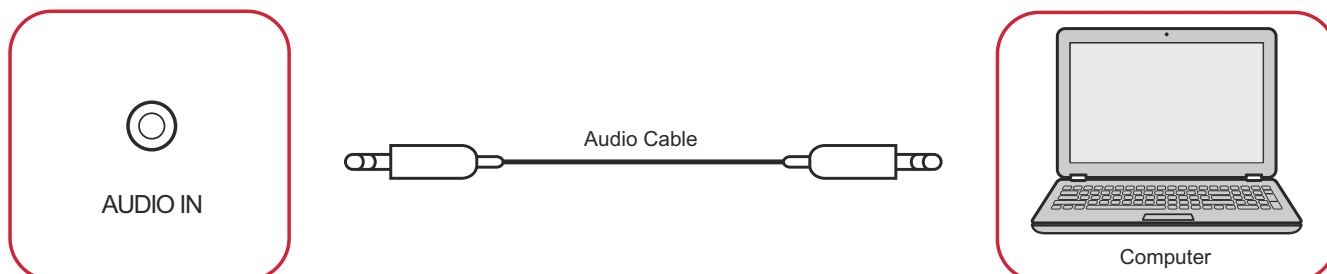
1. Connect the HDMI cable to the **HDMI IN** port on your ViewBoard and peripheral device.
2. Plug in the power cord of your ViewBoard, and turn on the power supply switch.
3. Press the **Power** button on the right-hand side of the ViewBoard to turn the screen on.
4. Press the **INPUT** button on the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

Audio Connection

The ViewBoard supports **Audio In**, **Audio Out**, and **SPDIF**.

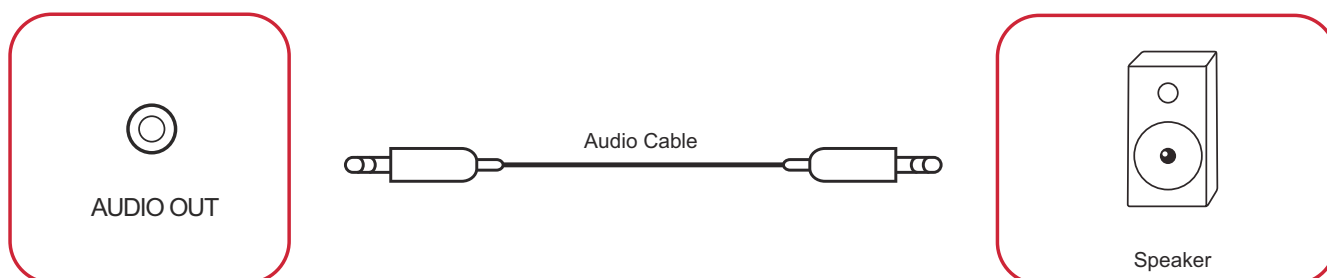
Audio In

To play audio from your external device through the ViewBoard's speakers, connect one end of an audio cable to your external device, and the other end to the ViewBoard's **AUDIO IN** port.

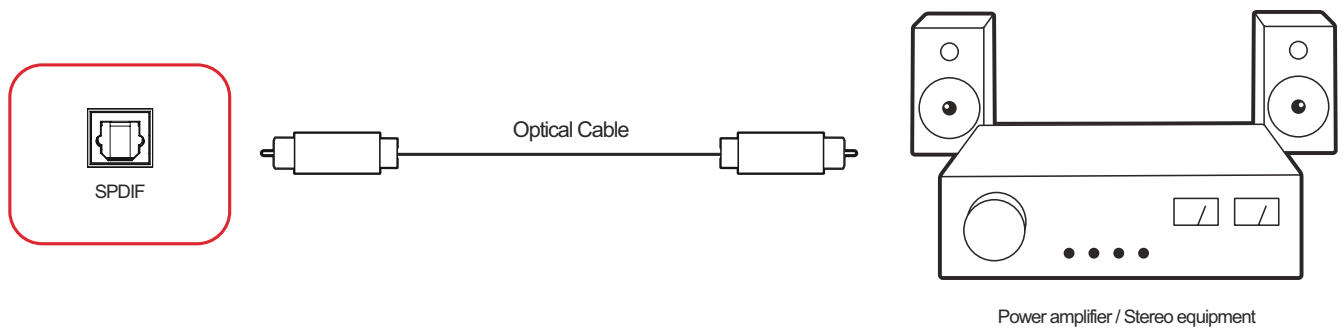


Audio Out

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



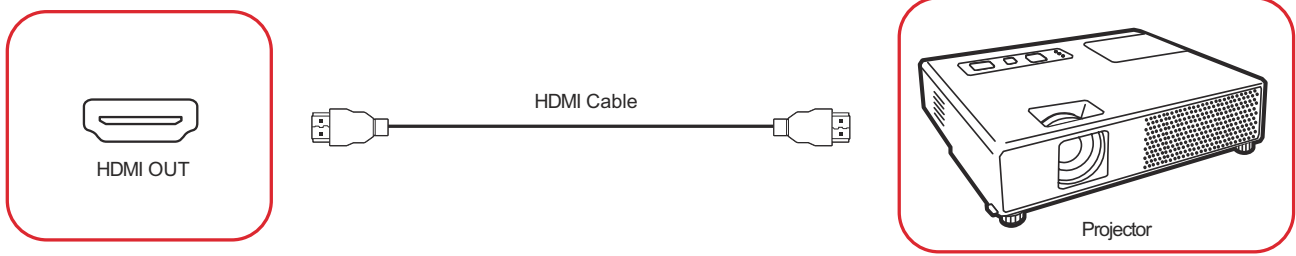
SPDIF Connection



To connect to an external sound system:

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

Video Output Connection



To output video via a display device:

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

Using Your ViewBoard

Powering On/Off your ViewBoard

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



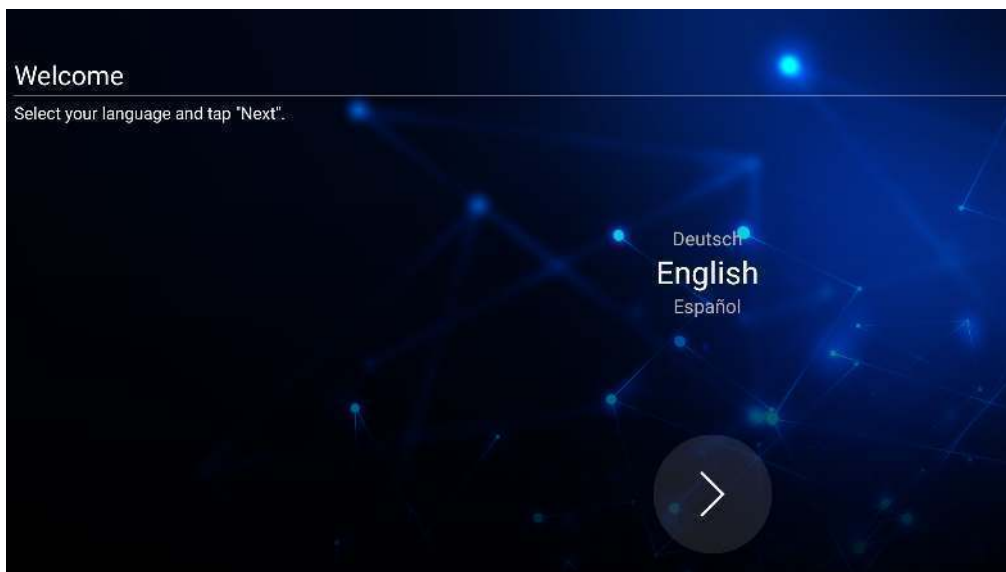
The AC Power input and switch are located at the bottom of the unit.

2. Press the **Power** button to turn on the ViewBoard.
3. To turn the ViewBoard off, press and hold the **Power** button.

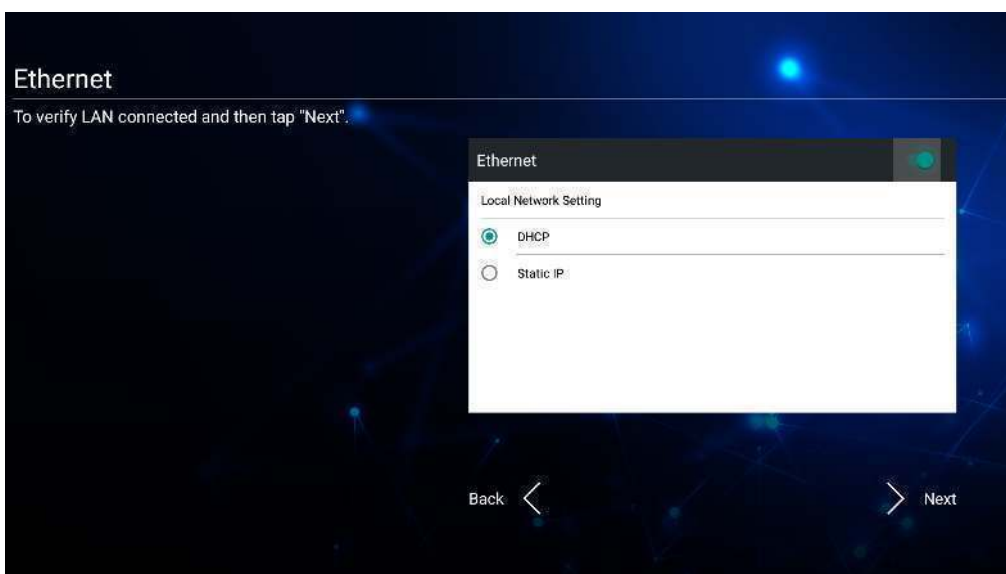
Initial Launch Setup

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

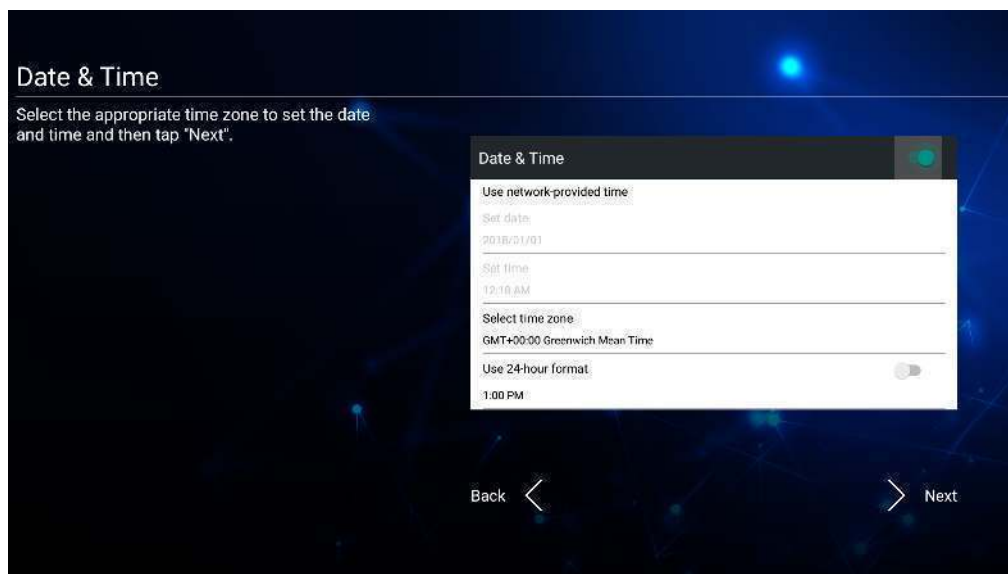
1. Select your Language.



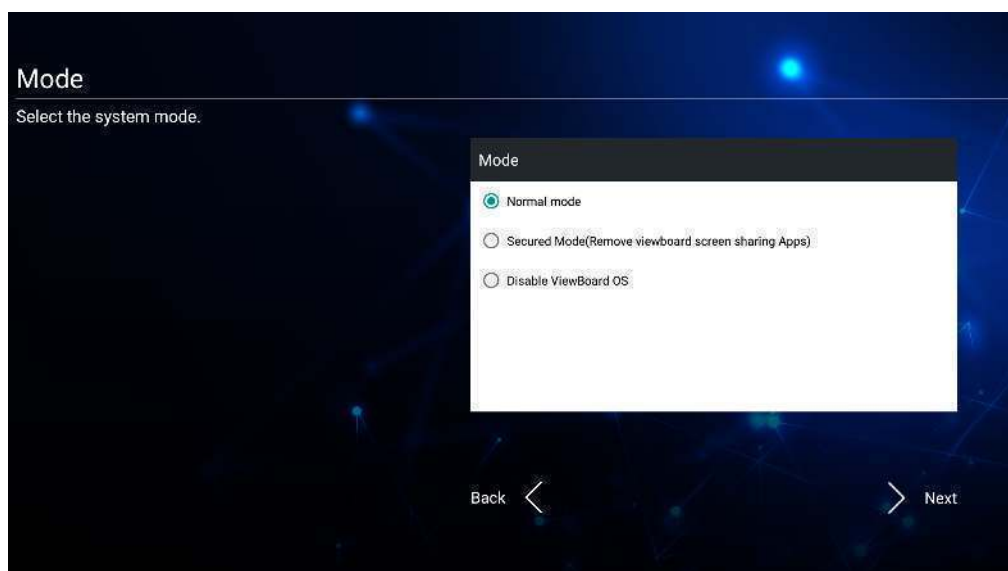
2. Setup and verify your LAN connection.



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



4. Select your preferred System Mode.

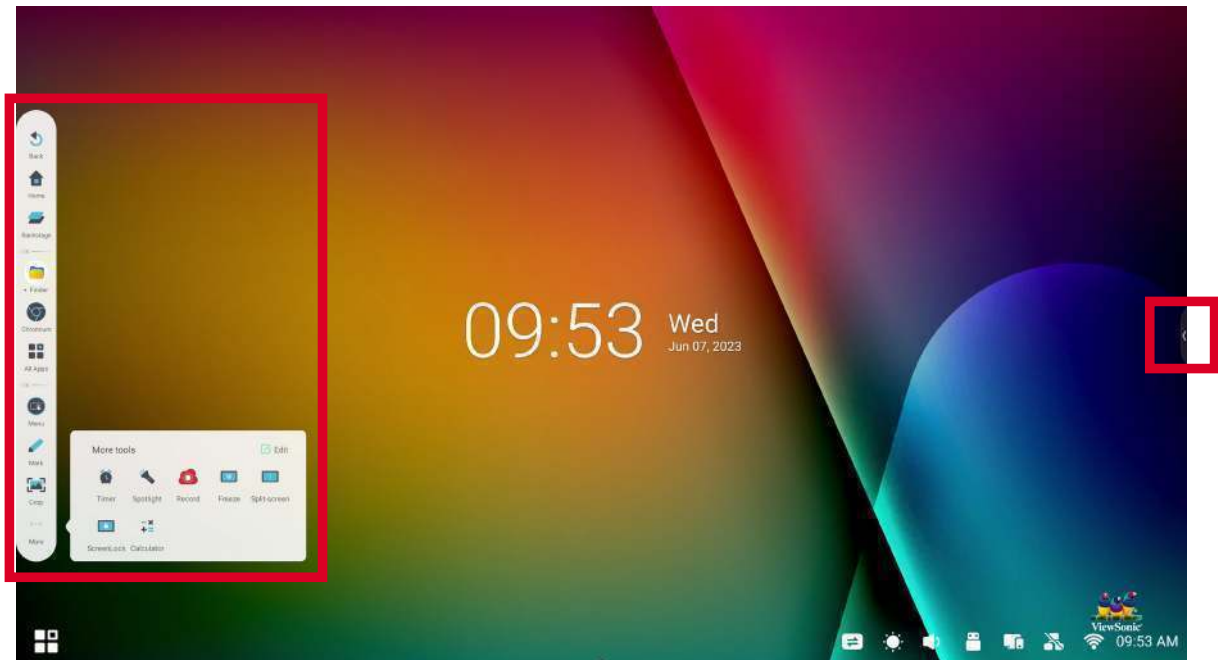


5. Accept or Decline the Privacy and Copyright Protection Terms.



Toolbar

The Toolbar is where your applications and tools can be found. Trigger icons are on the edge of the launcher for quick access.



To launch an application or tool:

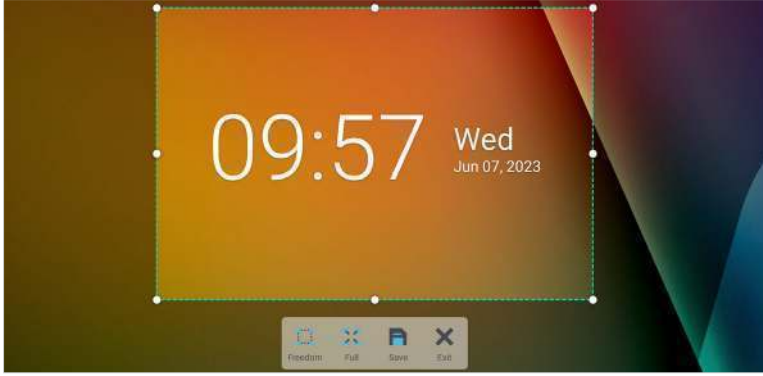
1. Tap a Toolbar trigger icon.
2. Tap on your desired application or tool icon.

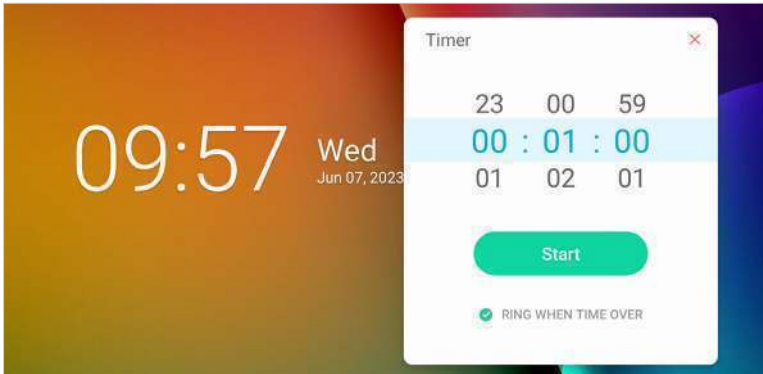


Icon	Description
 Back	Return to the previous operation screen. NOTE: Only for the Embedded Player source.
 Home	Return to the Home Screen of the Embedded Player.
 Backstage	Display all embedded applications that are currently open.

Icon	Description
 All Apps	View all installed applications.     Browser Chromium Cloud Drive myViewBoard Display     Finder Live Miracast myViewBoard Manager     myViewBoard Whiteboard Palette PIP Record    Settings Split-Screen vCastReceiver
	<u>Browser</u> Web browser for surfing the Internet.
	<u>Chromium</u> Web browser for surfing the Internet.
	<u>Cloud Drive</u> Store and retrieve files from your cloud storage service.
	<u>myViewBoard Display</u> Wirelessly mirror screens to a larger display.
	<u>Finder</u> Manage files and folders.
	<u>Live</u> Stream whiteboarding sessions.
	<u>Miracast</u> Miracast wirelessly streams content from Windows and Android devices to a ViewBoard.

Icon	Description
 All Apps	<u>myViewBoard Manager</u> Remotely manage multiple installations of ViewSonic devices.
	<u>myViewBoard Whiteboard</u> A digital whiteboarding application.
	<u>Palette</u> Select a color and adjust the saturation levels.
	<u>PIP</u> Picture-in-Picture. Split the screen into two parts, a main window and an inset window. User can specify the input source for each screen.
	<u>Record</u> Record, view, and save on-screen content.
	<u>Settings</u> Access the System Settings.
	<u>Split-Screen</u> Split the screen to display two different applications on the display.
	<u>vCastReceiver</u> Working with ViewBoard Cast software, receive vCastSender laptop screens (Windows/Mac/Chrome) and mobile (iOS/Android) users' screens, photos, videos, annotations, and camera(s).
 Menu	Access the General Settings.

Icon	Description
 Mark	Annotate the overlay of any input source with a pen or brush.  The screenshot shows a mobile application interface with a dark green background. A white toolbar is centered, containing icons for 'Select' (hand), 'Pen' (pencil), 'Brush' (brush), 'Clean' (eraser), 'Save' (floppy disk), 'More' (three dots), and 'Close' (X). Below this, a bottom navigation bar includes icons for 'Back', 'Home', 'Backstage', 'Finder', 'Chromium', 'All Apps', 'Menu', 'Mark', 'Crop', and 'More'.
 Crop	Take a screenshot of the current screen and resize.  The screenshot shows a mobile application interface with a dark green background. A white crop overlay is centered, displaying the time '09:57' and the date 'Wed Jun 07, 2023'. The overlay has a dashed green border and white corner handles for resizing. A bottom toolbar contains icons for 'Freedom', 'Full', 'Save', and 'Exit'.

Icon	Description
 More	View more applications within the toolbar.     Timer Spotlight Record Freeze    Split-Screen Screen Lock Calculator
	<u>Timer</u> A countdown timer with an optional alarm setting. Touch and swipe to adjust the numeric values, then click Start. At any time, the countdown timer can be paused, resumed, or reset. 
	<u>Spotlight</u> Highlight the focus content zone. Tap the setting icon to adjust the spotlight size and alpha blending effect.
	<u>Record</u> Record, view, and save on-screen content.
	<u>Freeze</u> Convert the currently displayed content into a still image; then you can zoom in, zoom out, go back to full screen, and exit. 

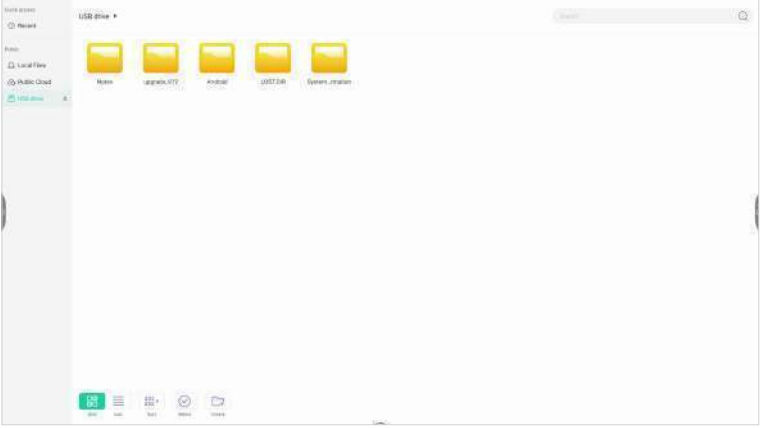
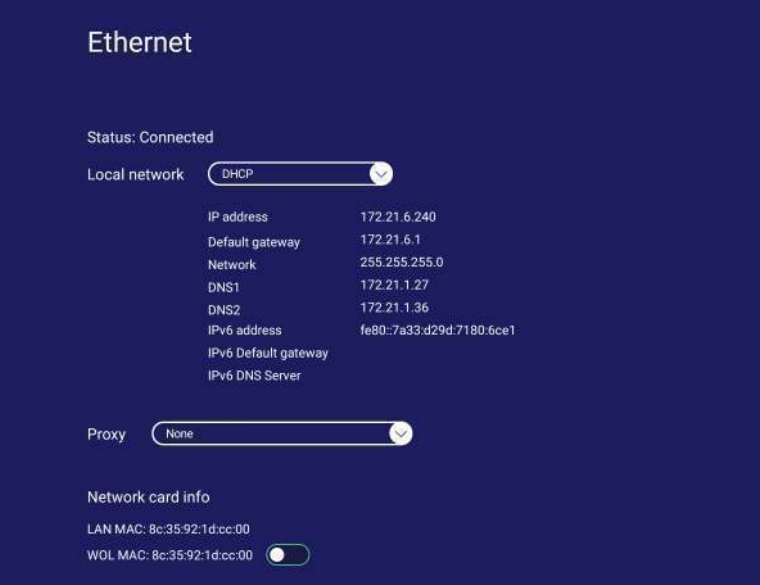
Icon	Description
● ● ● More	<u>Split-Screen</u> Split the screen to display two different applications on the display. 
	<u>Screen Lock</u> Lock the display's screen for added security.
	<u>Calculator</u> Use for mathematical calculations.

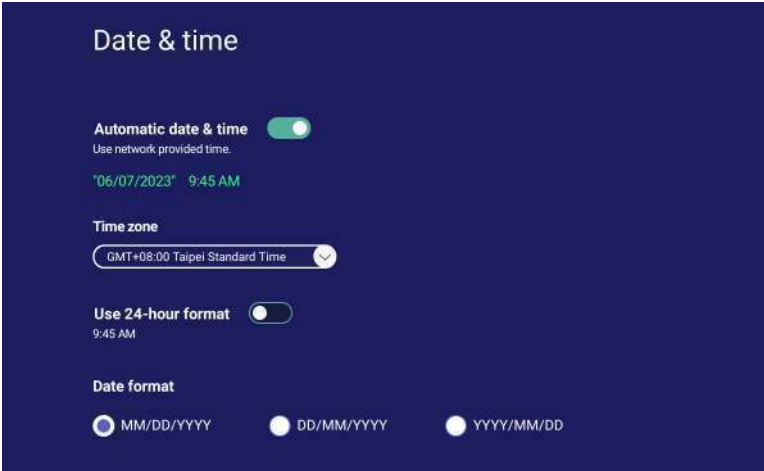
Control Bar

Frequently used settings and tools can be accessed quickly through the Control Bar.



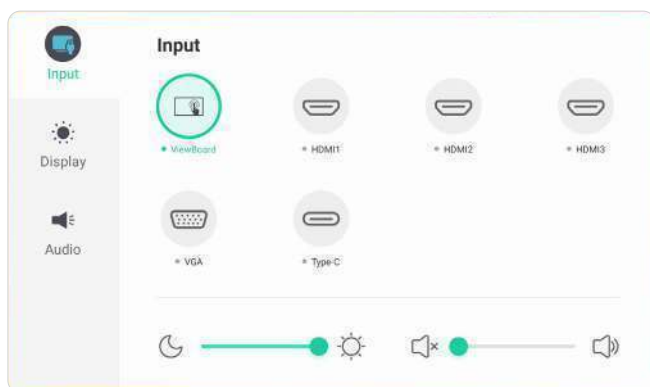
Item		Description
1	Input Source	Select the input source.
2	Brightness	Adjust the brightness level of the display.
3	Sound	Adjust the volume level of the display.

Item	Description
4 USB	If a USB storage device is connected, the USB icon will be visible. Clicking the icon will open the USB storage device's folder. 
5 Hotspot	Shortcut to Wireless Hotspot settings. Enable or disable the hotspot function. 
6 Ethernet	Shortcut to Wireless & Network LAN settings. Enable or disable LAN connection. 

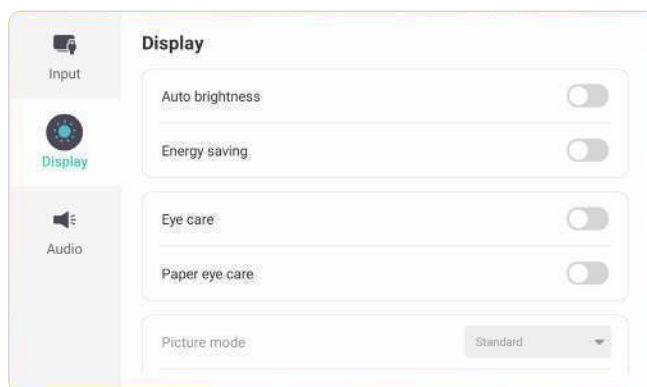
Item	Description
7 Wireless	Shortcut to Wireless & Network Wi-Fi settings. Enable or disable Wi-Fi and connect to a wireless network. 
8 Date & Time	Shortcut to Date & Time settings. Set the date and time of the display. 

On-Screen Display (OSD) Menu - General Settings

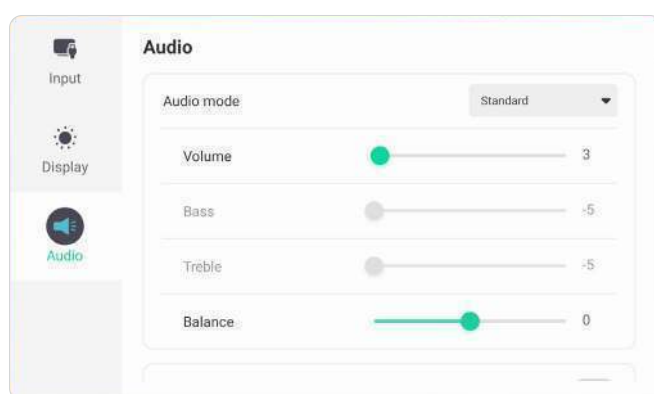
Access **Input**, **Display**, **Audio** and other general settings through the OSD Menu.



Input Menu

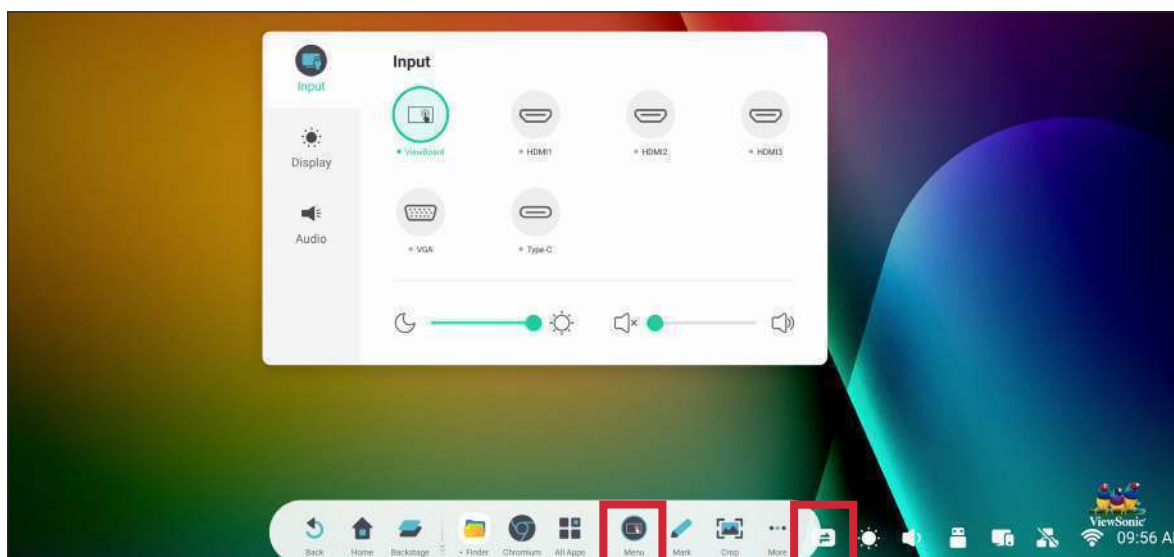


Display Menu



Audio Menu

Open the OSD Menu by touching the **Menu** icon () in the Toolbar or the **Input Source** icon () of the Control Bar.



Input Settings



To select an input source:

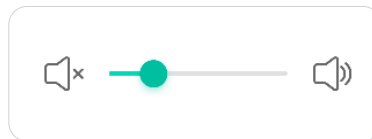
1. Press **INPUT** on the remote control or touch the **Menu** icon () from the Toolbar or the **Input Source** icon () of the Control Bar to display the **Input Settings** menu.
2. Press **▼/▲/◀/▶** on the remote control to select the input source you want.
NOTE: The PC source will only be visible when a slot-in computer is installed.
3. Press **ENTER** on the remote control, or touch the input source.
4. Press **BACK** on the remote control, or touch a blank area outside of the menu to exit.

To adjust the brightness:



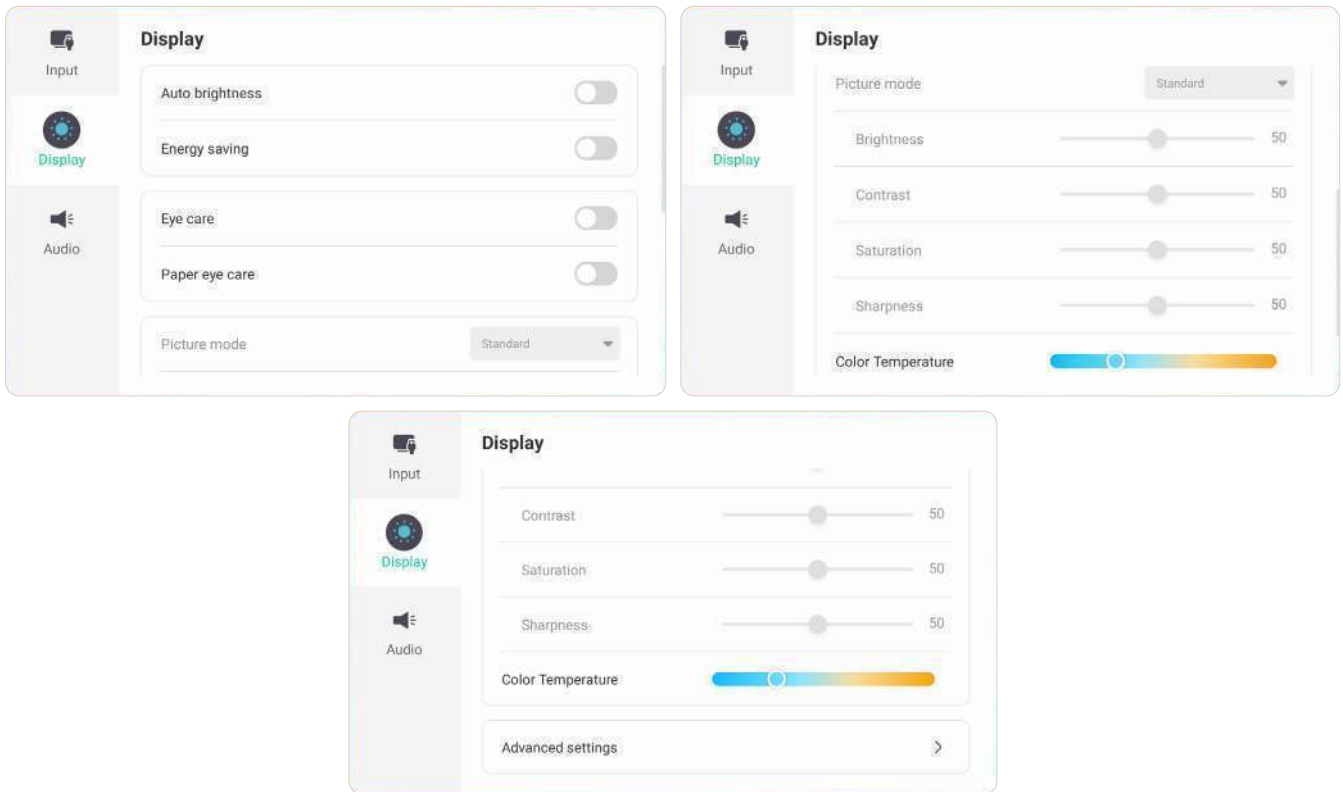
1. Press **INPUT** on the remote control or touch the **Menu** icon () from the Toolbar or the **Input Source** icon () of the Control Bar to display the **Input Settings** menu.
2. Touch and drag the brightness slider directly to adjust the backlight value.
3. Press **BACK** on the remote control, or touch a blank area outside of the menu to exit.

To adjust the volume:



1. Press **INPUT** on the remote control or touch the **Menu** icon () from the Toolbar or the **Input Source** icon () of the Control Bar to display the **Input Settings** menu.
2. Touch and drag the volume slider directly to adjust the value, or press **VOL +/VOL -** 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 touch a blank area outside of the menu to exit.

Display Settings



To adjust the display settings:

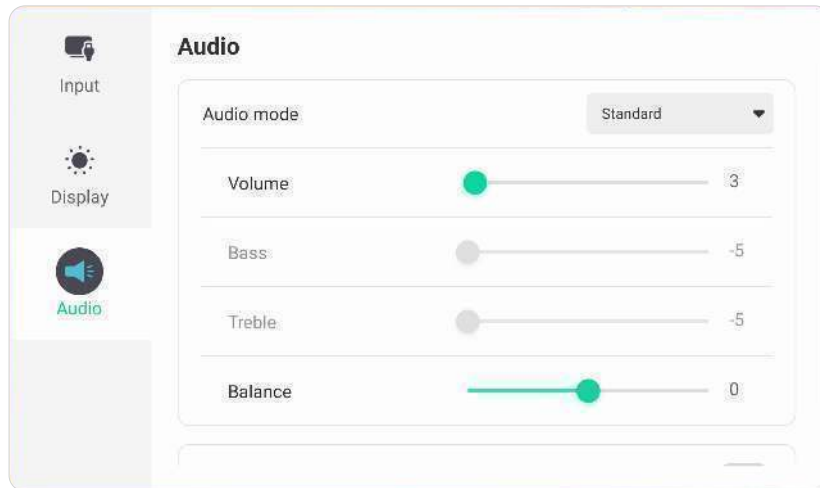
1. Press **INPUT** on the remote control or touch the **Menu** icon () from the Toolbar or the **Input Source** icon () of the Control Bar to display the **Input Settings** menu. Then select the **Display** tab.
2. Press **▼/▲/◀/▶** on the remote control to select the menu option you want.
3. Press **ENTER** on the remote control to confirm or press **◀/▶** to adjust the menu option. Additionally, touch/adjust the menu option directly.
4. Press **BACK** on the remote control, or touch a blank area outside of the menu to exit.

Display Settings - Menu Options

Item	Description	
Auto Brightness	Automatic brightness adjustment. Adjusts maximum brightness according to ambient light levels.	
Energy Saving	Enable to reduce power consumption.	
Eye Care	Adjusts the filter that blocks high-energy blue light for a more comfortable viewing experience.	
Paper Eye Care	When “Low Blue Light” is enabled, adjust the Transparency to lower the brightness and warm the color temperature.	
Picture Mode	Select a predefined picture setting.	
	Mode	Description
	Standard	Default picture mode.
	Bright	Maximizes the brightness of the display. This mode is suitable for environments where extra-high brightness is required (e.g., well-lit rooms).
	Soft	A high brightness level with lower contrast level.
	Custom	Customize the picture settings.
Brightness	Adjusts background black levels of the screen image. The higher the value, the brighter the image. Lower values will result in a darker image.	
Contrast	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.	
Saturation	The amount of color in a picture. Lower settings produce less saturated colors; in fact, a setting of “0” removes that color from the image entirely. If the saturation is too high though, that color will be overpowering and unrealistic.	
Sharpness	A high value results in a sharper picture; a low value softens the picture.	
Color Temperature	Adjust the color temperature value.	

Item	Description														
Advanced Settings	<u>Color Space</u> Choose the color space to use for color output. <table><tr><th>Mode</th><th>Description</th></tr><tr><td>Standard</td><td>Default color space standard.</td></tr><tr><td>sRGB</td><td>Precise color gamut and gamma of the sRGB standard.</td></tr><tr><td>AdobeRGB</td><td>Precise color gamut and gamma of the Adobe RGB standard.</td></tr><tr><td>Display-P3</td><td>Precise color gamut and gamma of the Display-P3 standard.</td></tr><tr><td>DCI-P3</td><td>Precise color gamut and gamma of the DCI-P3 standard.</td></tr><tr><td>BT2020</td><td>Precise color gamut and gamma of the BT2020 standard.</td></tr></table>	Mode	Description	Standard	Default color space standard.	sRGB	Precise color gamut and gamma of the sRGB standard.	AdobeRGB	Precise color gamut and gamma of the Adobe RGB standard.	Display-P3	Precise color gamut and gamma of the Display-P3 standard.	DCI-P3	Precise color gamut and gamma of the DCI-P3 standard.	BT2020	Precise color gamut and gamma of the BT2020 standard.
	Mode	Description													
	Standard	Default color space standard.													
	sRGB	Precise color gamut and gamma of the sRGB standard.													
	AdobeRGB	Precise color gamut and gamma of the Adobe RGB standard.													
	Display-P3	Precise color gamut and gamma of the Display-P3 standard.													
	DCI-P3	Precise color gamut and gamma of the DCI-P3 standard.													
	BT2020	Precise color gamut and gamma of the BT2020 standard.													
	<u>HDMI Range</u> Select a suitable color range according to the color range setting of the connected output device. <table><tr><th>Mode</th><th>Description</th></tr><tr><td>Auto</td><td>Detect the range of the input signal automatically.</td></tr><tr><td>Full</td><td>Sets the color range from 0~255</td></tr><tr><td>Limited</td><td>Sets the color range from 16~235</td></tr></table>	Mode	Description	Auto	Detect the range of the input signal automatically.	Full	Sets the color range from 0~255	Limited	Sets the color range from 16~235						
	Mode	Description													
Auto	Detect the range of the input signal automatically.														
Full	Sets the color range from 0~255														
Limited	Sets the color range from 16~235														
<u>Pixel Shift</u> Reduce the possibility of screen burn-in. This setting allows the user to program the time between movements of the picture in minutes.															
<u>AI PQ</u> Automatically set the optimal resolution of the display.															
<u>Dynamic Backlight (DCR)</u> Automatically detects the image signal and intelligently controls the backlight brightness and color to improve on the ability to make the black blacker in a dark scene, and make the white whiter in a bright environment.															

Audio Settings



To adjust the display settings:

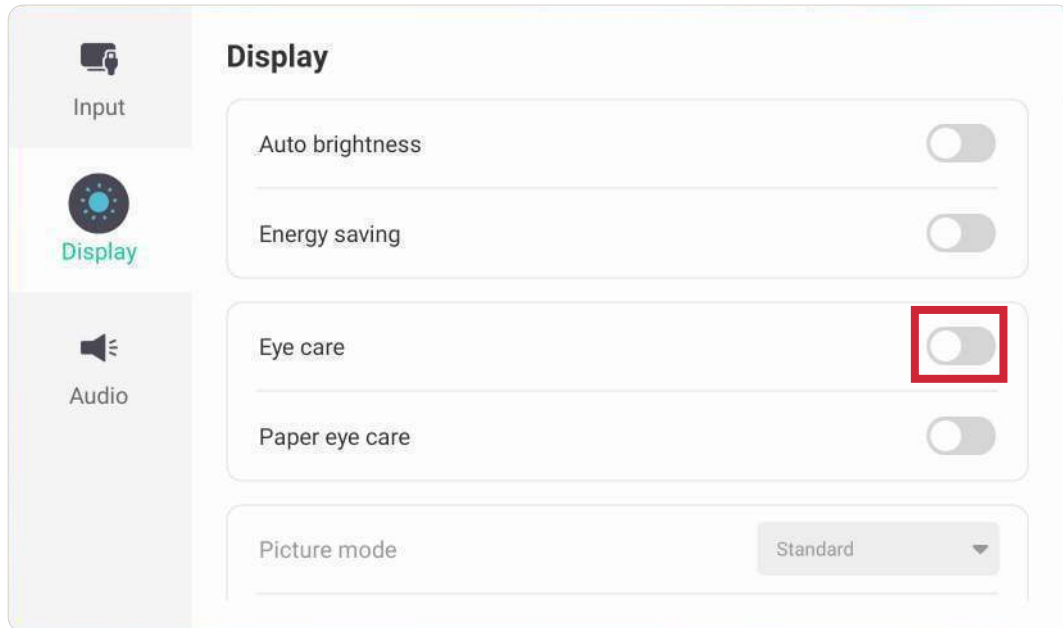
1. Press **INPUT** on the remote control or touch the **Menu** icon () from the Toolbar or the **Input Source** icon () of the Control Bar to display the **Input Settings** menu. Then select the **Audio** tab.
2. Press **▼/▲/◀/▶** on the remote control to select the menu option you want.
3. Press **ENTER** on the remote control to confirm or press **◀/▶** to adjust the menu option. Additionally, touch/adjust the menu option directly.
4. Press **BACK** on the remote control, or touch a blank area outside of the menu to exit.

Audio Settings - Menu Options

Item	Description	
Audio Mode	Select a predefined audio setting.	
	Mode	Description
	Standard	Default audio mode.
	Meeting	Ideal for meetings. Higher bass, lower treble levels.
	Class	Ideal for the classroom. Low bass and treble levels.
	Custom	Customize the audio settings.
Volume	Increase or decrease the display’s volume level.	
Bass	Increase or decrease the bass level (lower-pitched sounds).	
Treble	Increase or decrease the treble level (higher-pitched sounds).	
Balance	Adjust the left/right speaker balance.	
Mute	Toggle mute On or Off.	

Low Blue Light Filter and Eye Health

The Blue Light Filter 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 (1) hour of continuous viewing.

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

Focus Fatigue (20-20-20 Rule)

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

Looking at Distant Objects

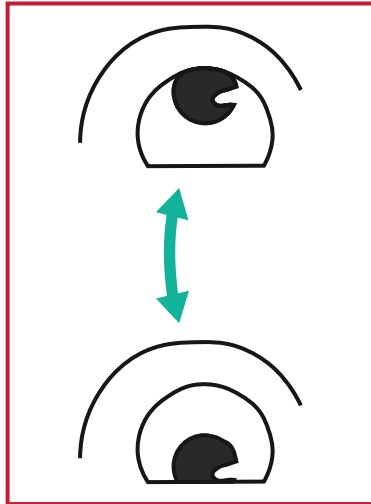
While taking breaks, users can further reduce eye strain and dryness by focusing on objects that are further away from them for 10-15 seconds, then gaze at something up close for 10-15 seconds. Repeat this up to 10 times. This exercise reduces the risk of your eyes' focusing ability to "lock up" after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

Eye and Neck Exercises

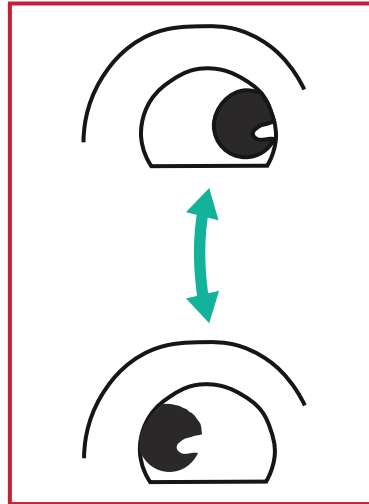
Eye Exercises

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

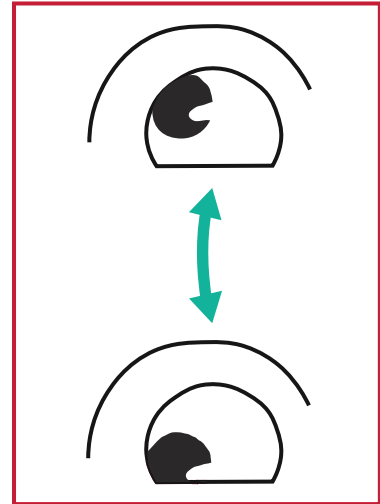
Exercises for the eyes



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



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



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

Neck Exercises

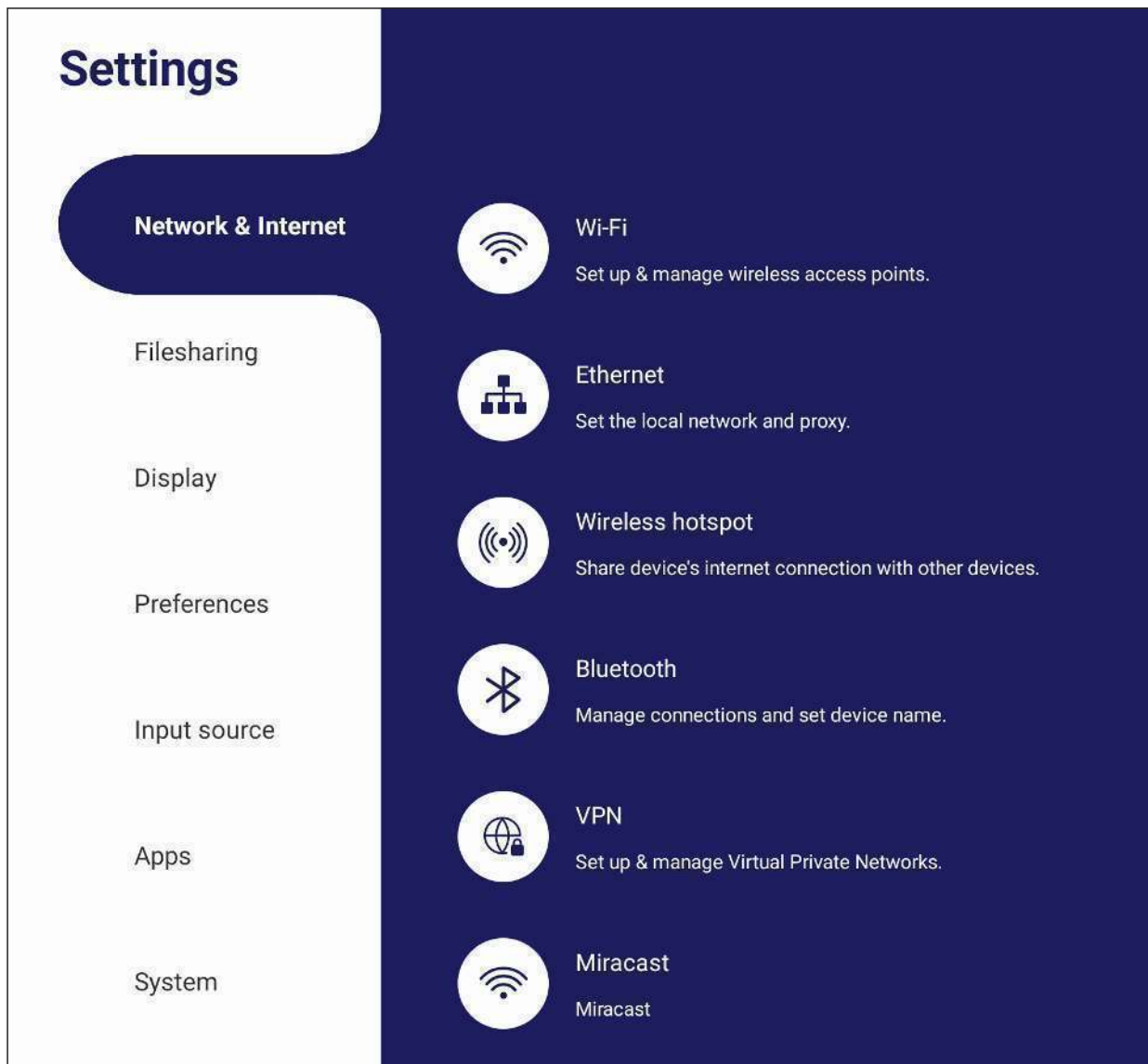
Neck exercises can also help minimize eye strain. Relax your arms and let them hang at your sides, bend forward slightly to stretch the neck, turn your head to the right and to the left. Repeat as many times as needed.

Settings - Embedded Player

When the ViewBoard is in the Embedded Player input source, press **MENU** on the remote control or tap the setting icon next to the input source in the On-Screen Display (OSD) Menu's Input Settings to enter the **Settings** menu.

Network & Internet

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



NOTE:

- Wi-Fi, Wireless hotspot and Bluetooth settings will appear when VB-WIFI-004(optional) has been installed.
- 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.

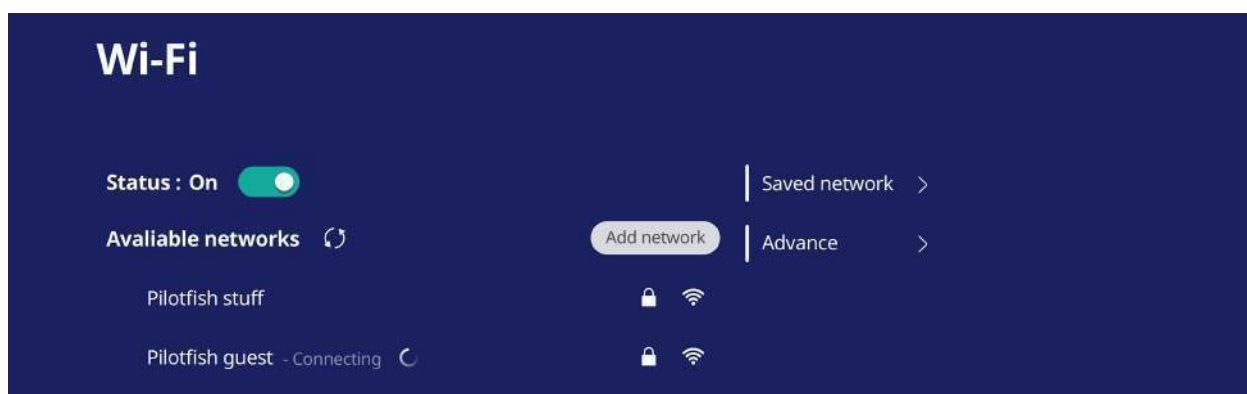
Wi-Fi

Setup and manage wireless access points.

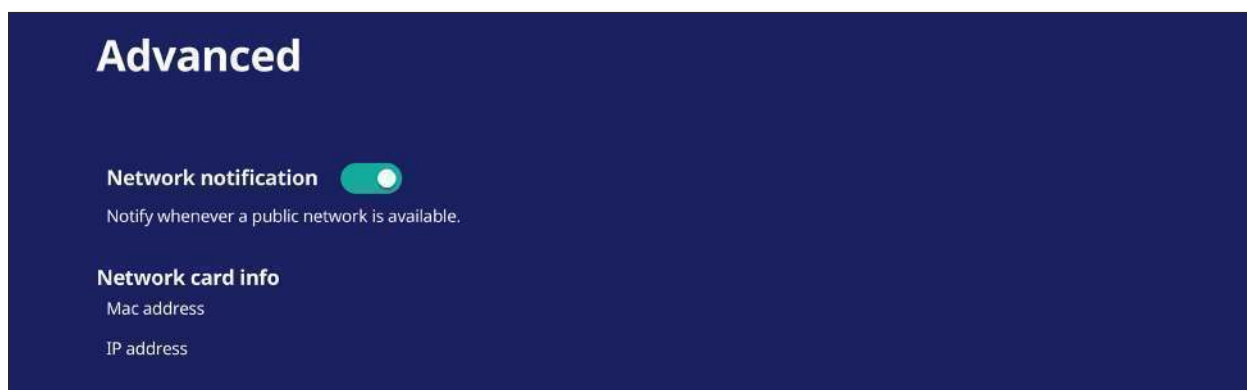
- Tap the toggle button to turn Wi-Fi **On** or **Off**.



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



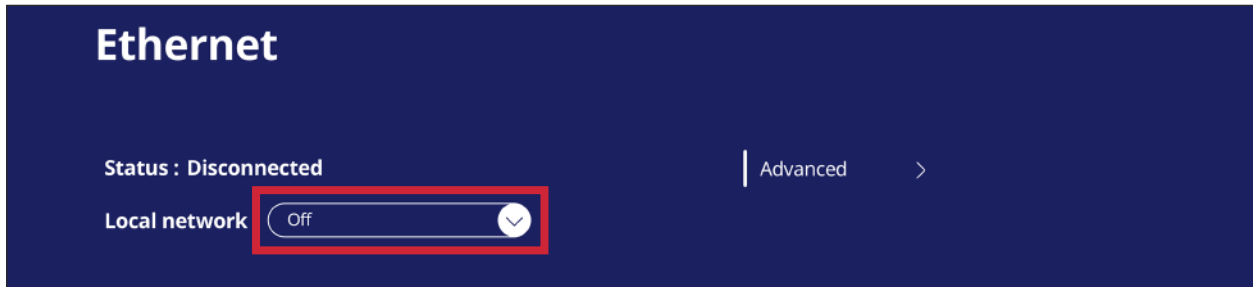
- In **Advanced** settings, you can toggle **Network notifications On** or **Off** and view **Network card info**.



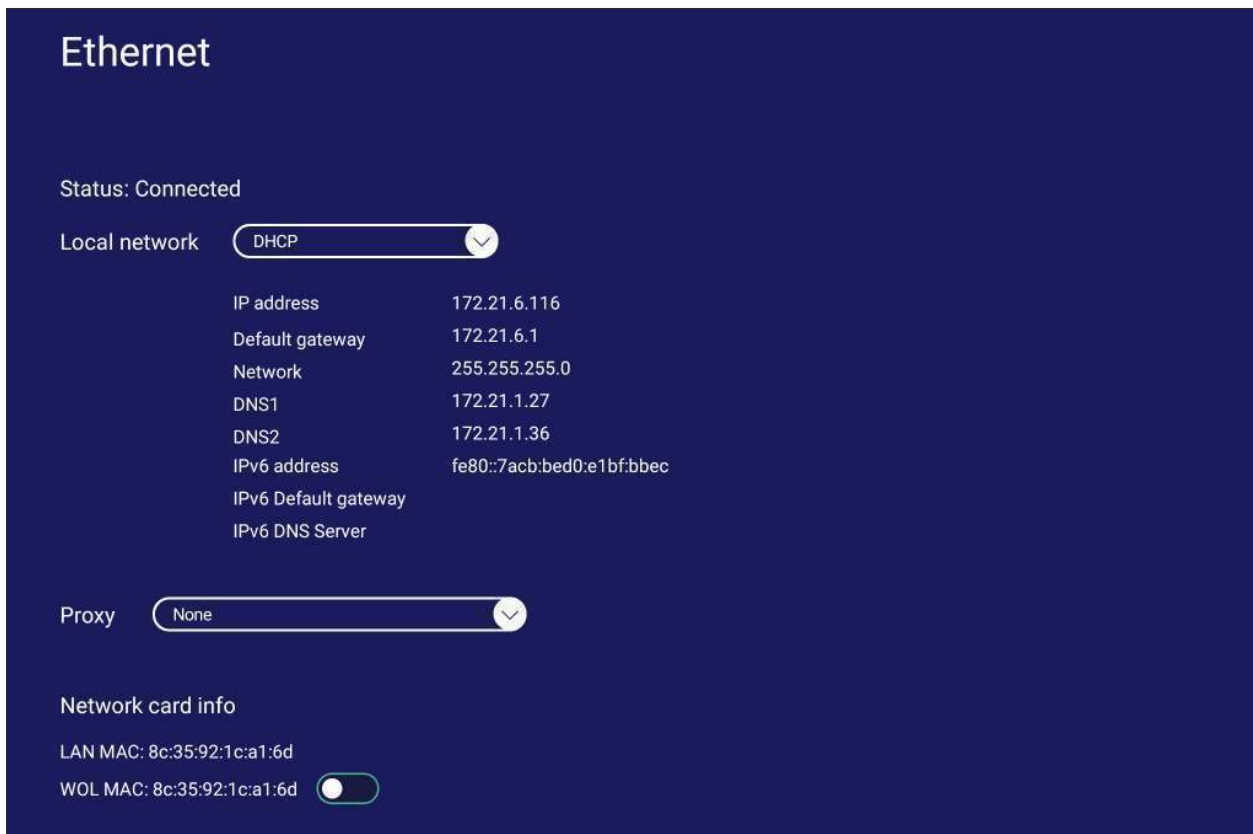
Ethernet

Set the local network and proxy.

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



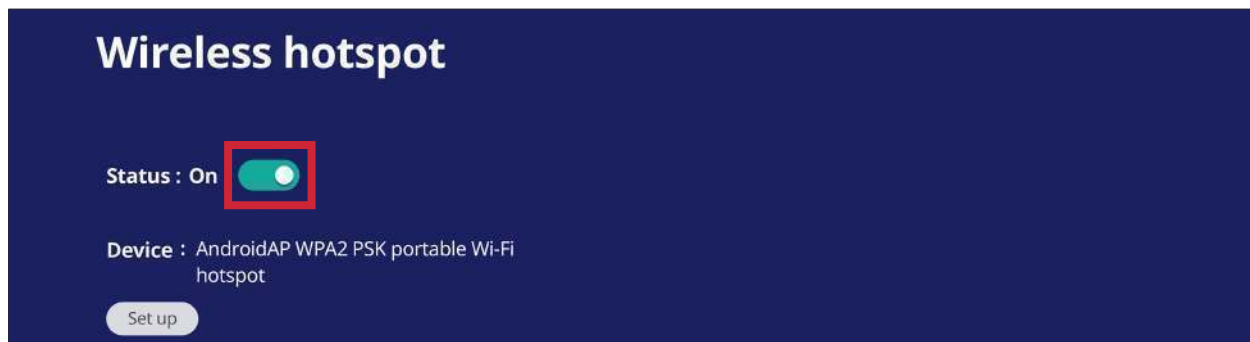
- You can adjust **Local network** and **Proxy** settings as well.



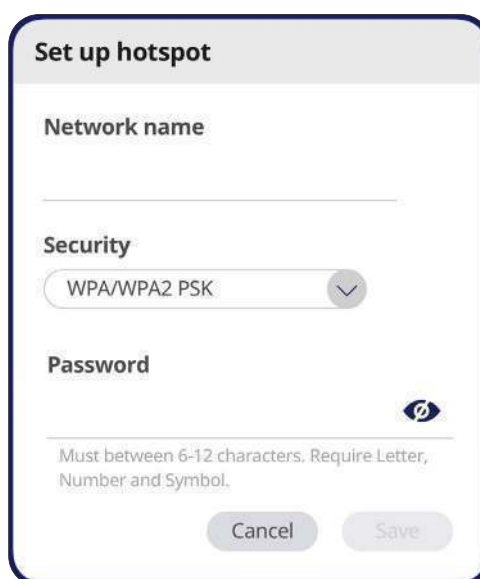
Wireless Hotspot

Set and share my internet connection with other devices.

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



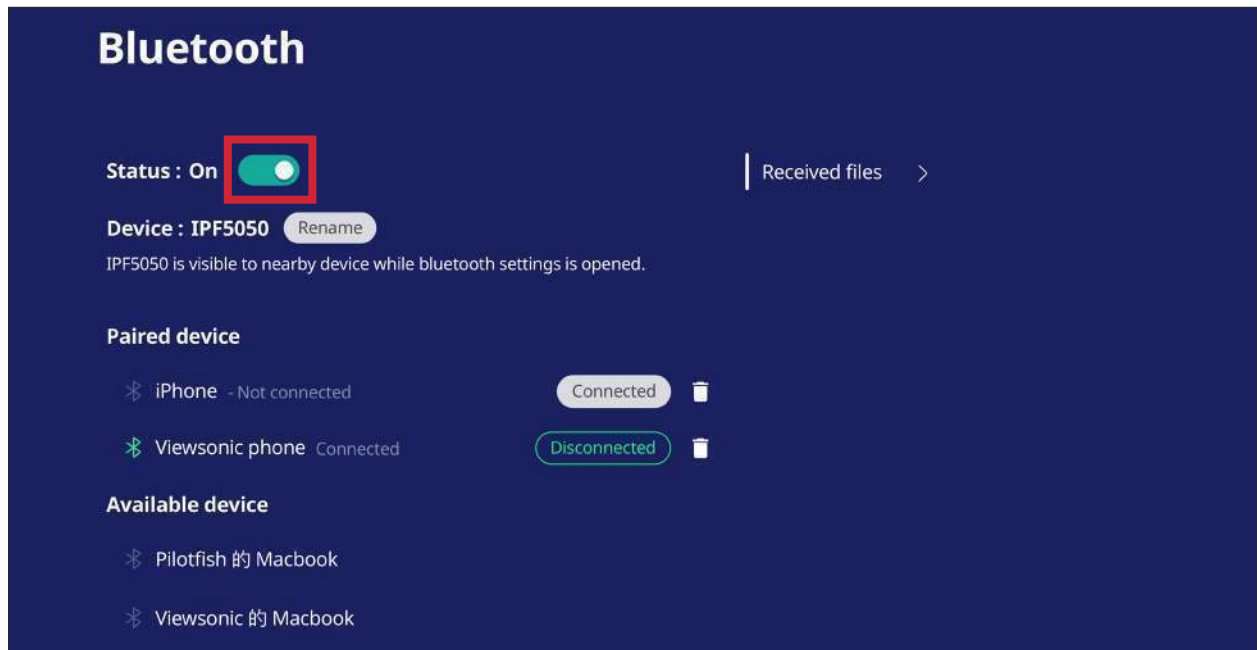
- Tap **Set up** to set the **Network name**, **Security**, and **Password**.

A screenshot of the 'Set up hotspot' dialog box. It has a title bar 'Set up hotspot'. Inside, there are three sections: 'Network name' with a text input field, 'Security' with a dropdown menu showing 'WPA/WPA2 PSK', and 'Password' with a text input field and a toggle for visibility. Below the password field is a note: 'Must between 6-12 characters. Require Letter, Number and Symbol.' At the bottom are 'Cancel' and 'Save' buttons.

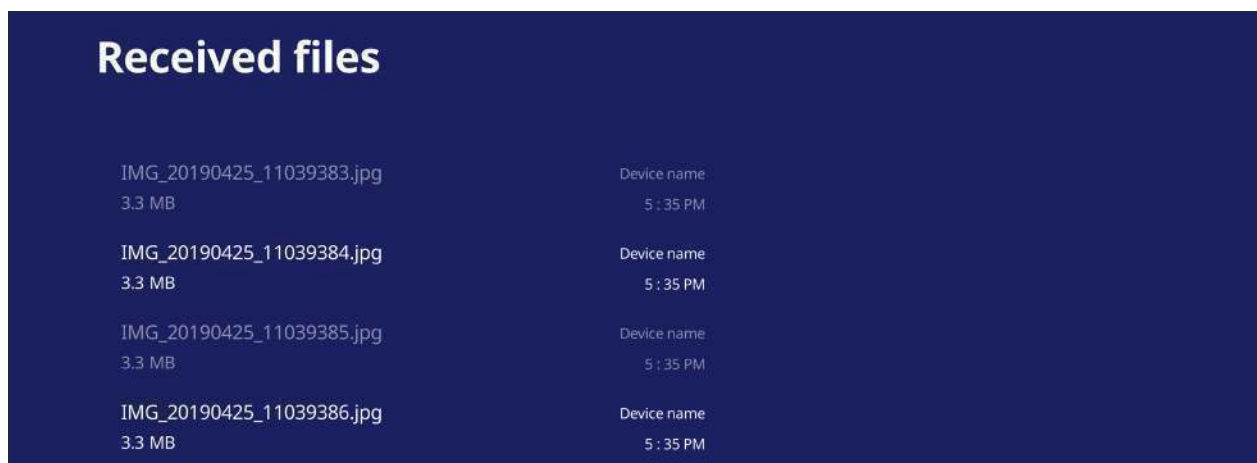
Bluetooth

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, or receive files.

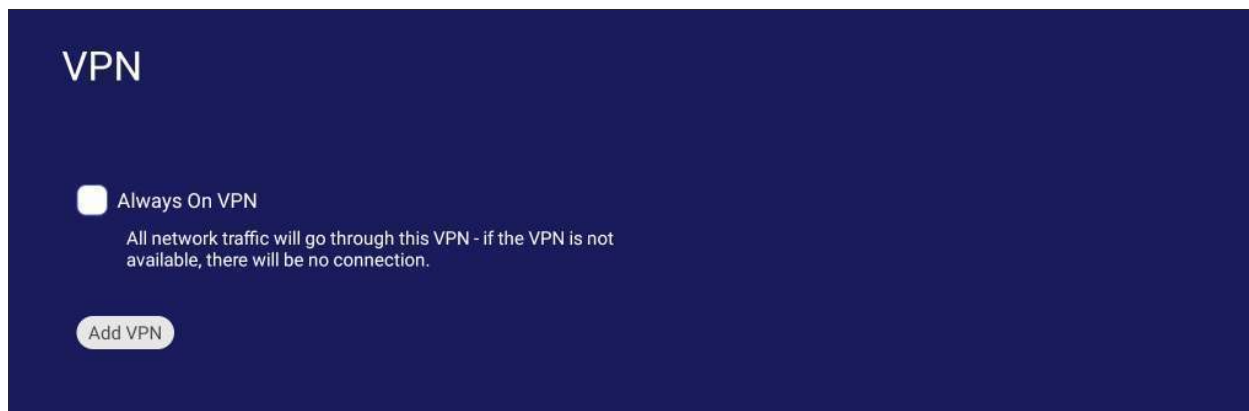


- Tap **Received files** to show all received files.



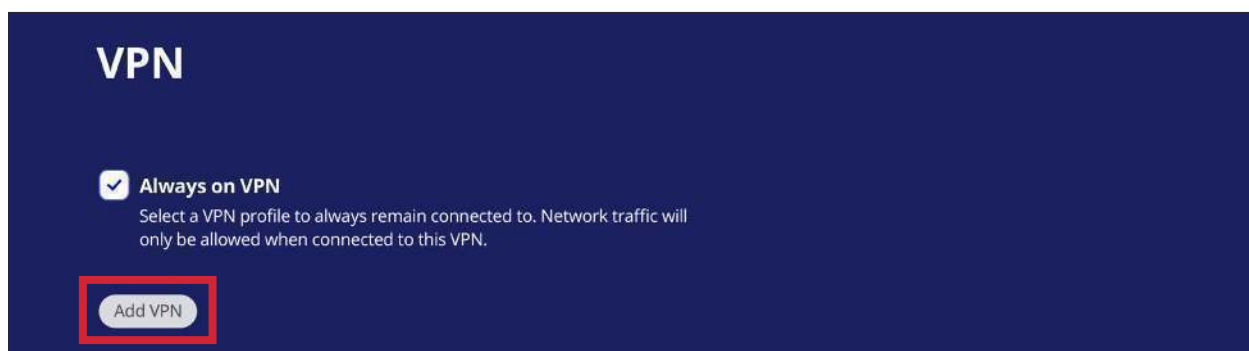
VPN

Setup and manage Virtual Private Networks.



To create a VPN profile:

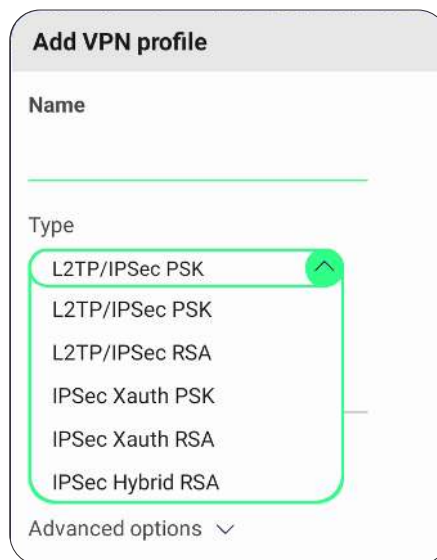
1. Go to: **Settings > Network & Internet > VPN** and tap **Add VPN**.



2. Key in the **Name**.

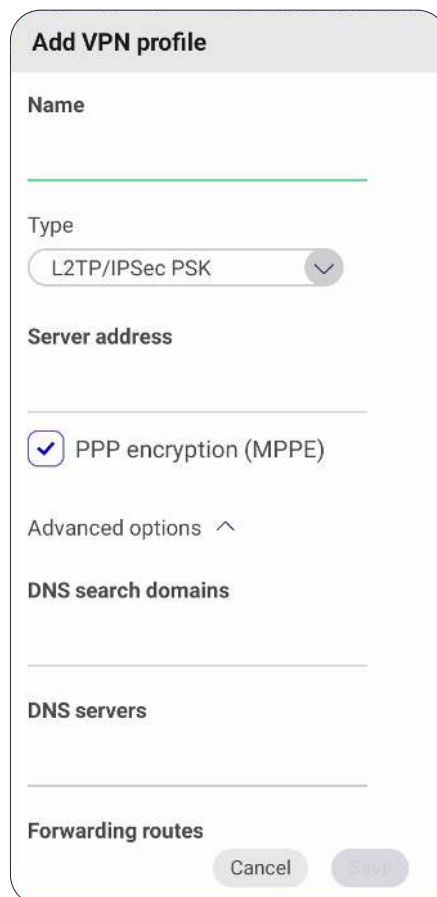
A screenshot of a dialog box titled 'Add VPN profile'. It has a light gray header. Below the header, there is a label 'Name' followed by a text input field. A green underline is visible under the input field. To the right of the input field is a small icon of an eye with a slash through it, indicating a toggle for visibility.

3. Select the VPN Type.



The screenshot shows the 'Add VPN profile' dialog. The 'Name' field is empty. The 'Type' dropdown menu is open, displaying a list of options: 'L2TP/IPSec PSK' (highlighted with a green border and an upward arrow), 'L2TP/IPSec PSK', 'L2TP/IPSec RSA', 'IPSec Xauth PSK', 'IPSec Xauth RSA', and 'IPSec Hybrid RSA'. Below the dropdown is an 'Advanced options' link with a downward arrow.

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



The screenshot shows the 'Add VPN profile' dialog. The 'Name' field is empty. The 'Type' dropdown menu is set to 'L2TP/IPSec PSK'. The 'Server address' field is empty. The 'PPP encryption (MPPE)' checkbox is checked. The 'Advanced options' link is expanded, showing 'DNS search domains', 'DNS servers', and 'Forwarding routes' fields, all of which are empty. At the bottom right are 'Cancel' and 'Save' buttons.

Miracast

Enable/disable Miracast. Miracast allows for wireless sharing of multimedia and screens of connected devices.



File Sharing

SAMBA

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

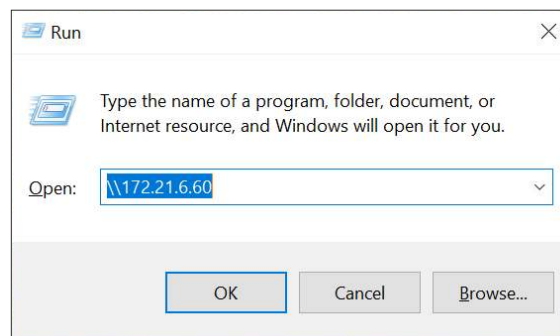
1. Go to: **Settings > File Sharing > SAMBA.**



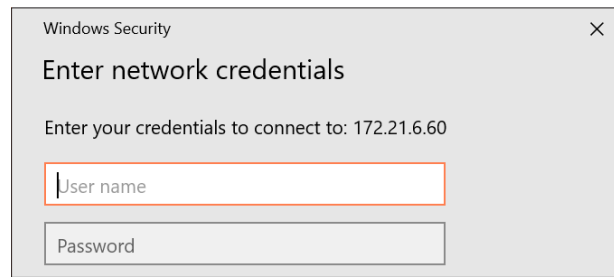
2. Tap the toggle button to enable the SAMBA Service, then set a password if needed.



3. Ensure the ViewBoard and client equipment are connected to the same network.
4. Log in to the ViewBoard with the client equipment. Input the ViewBoard's IP address.



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

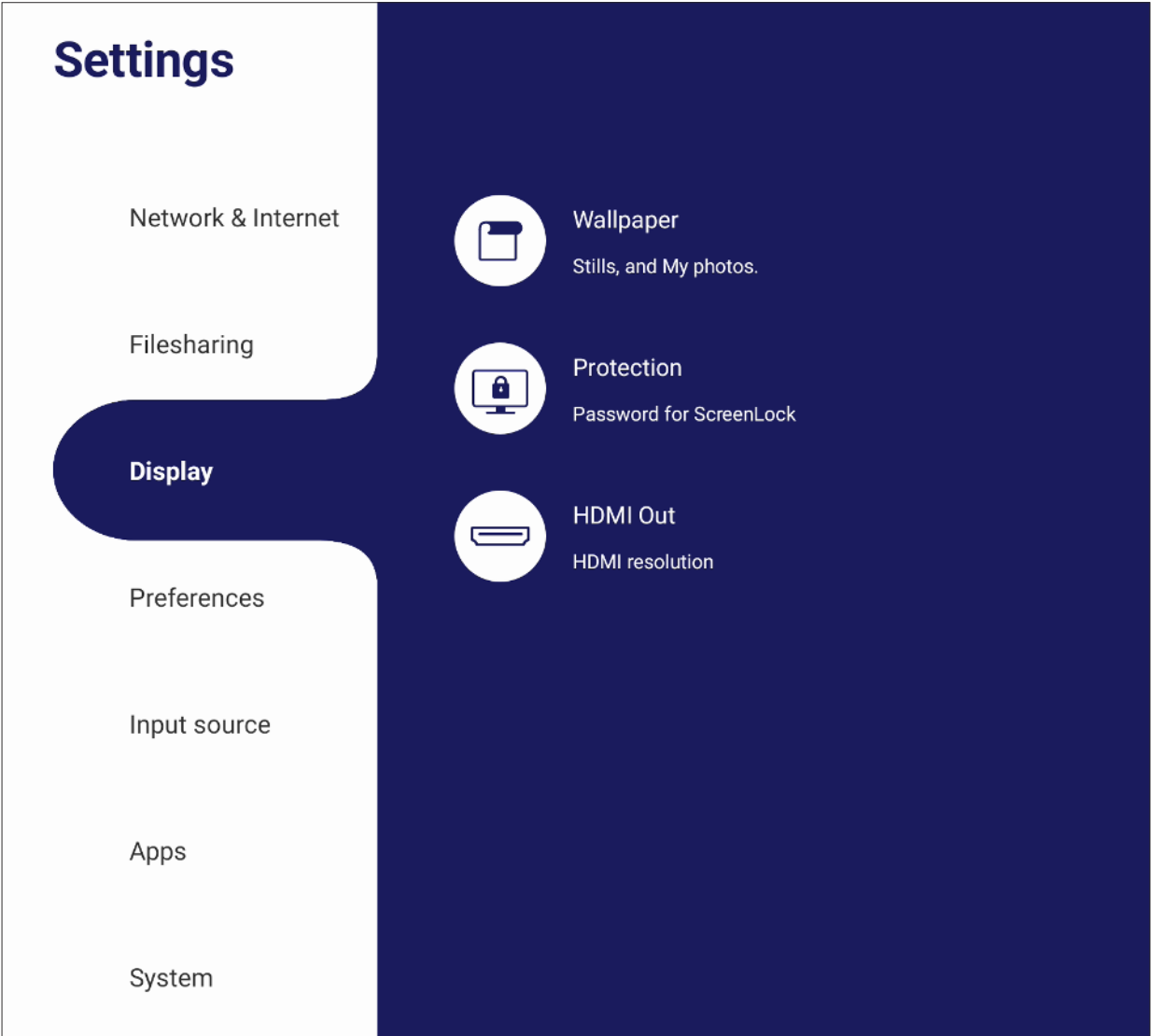


6. After a successful log in, the ViewBoard files will be available.



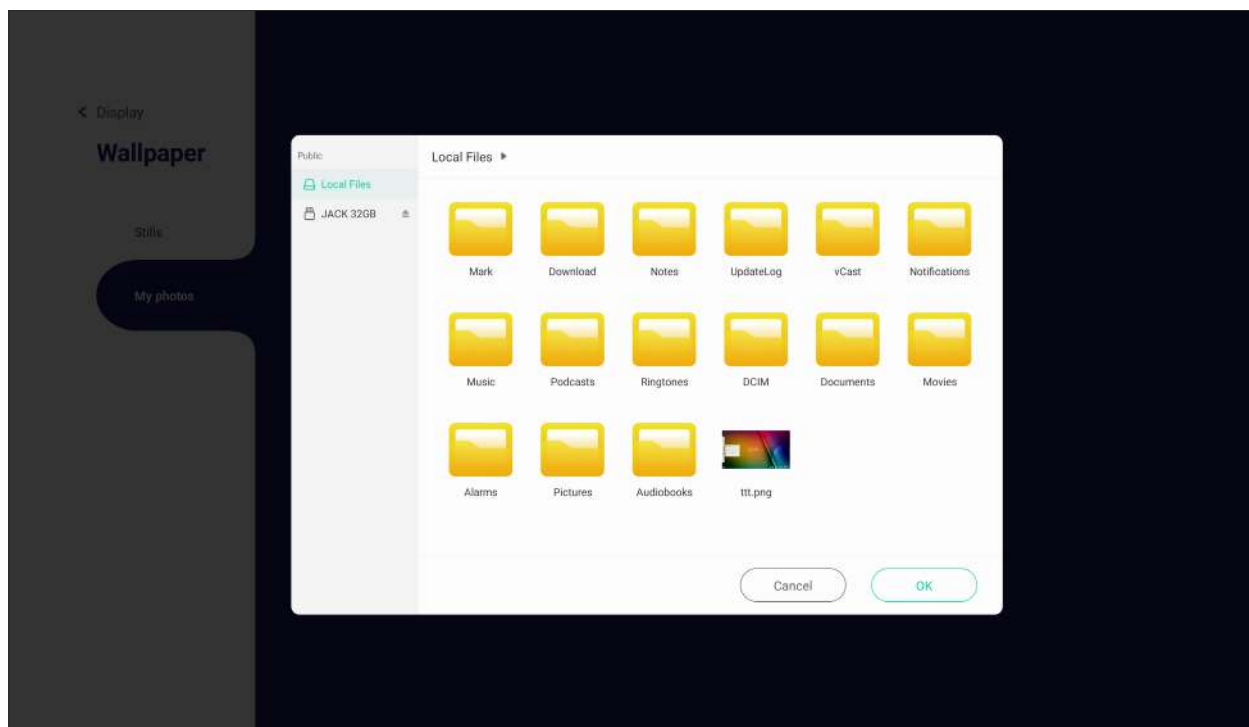
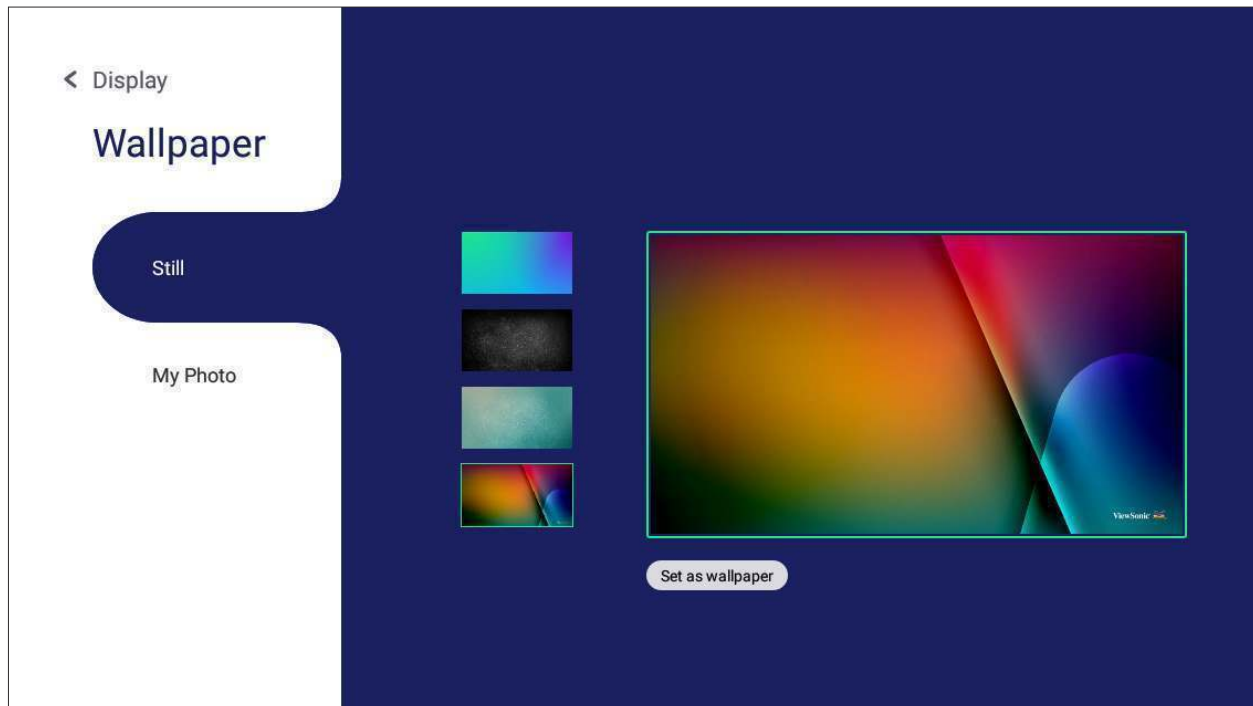
Display

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



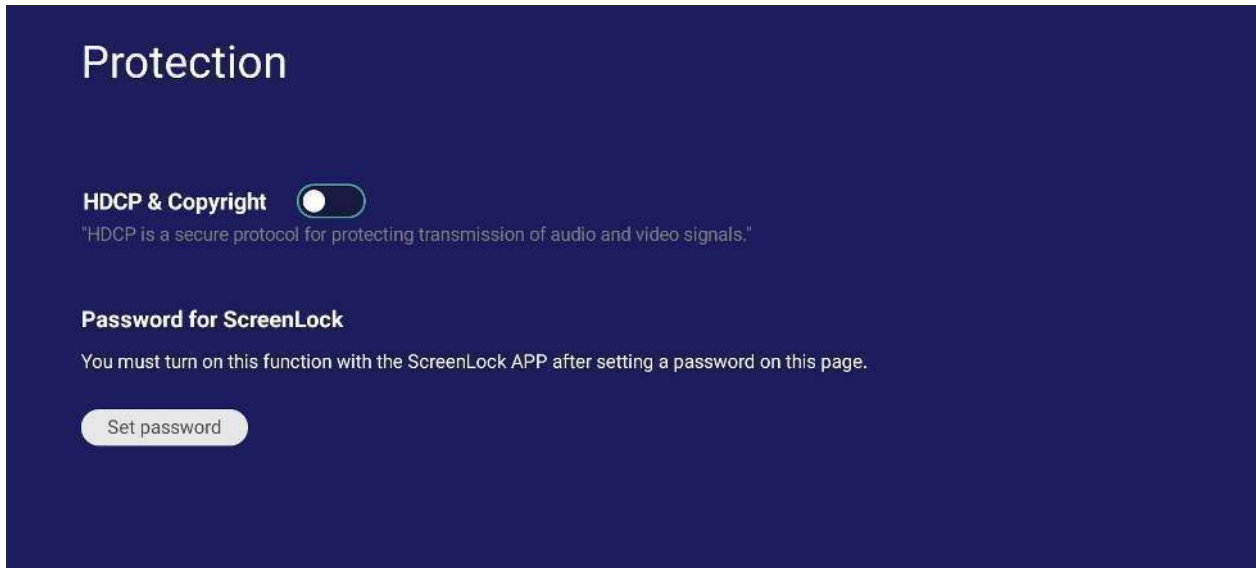
Wallpaper

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

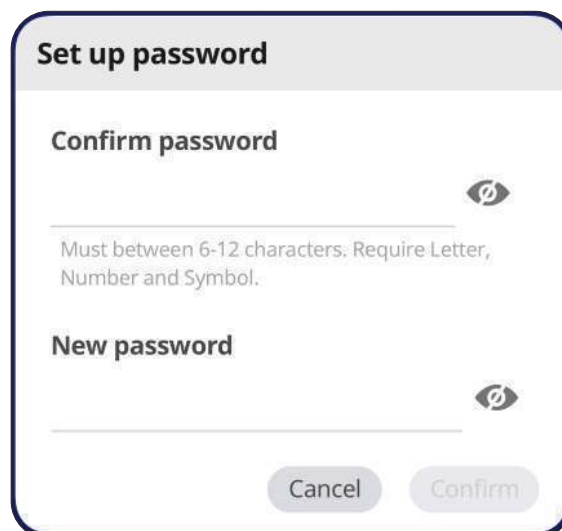


Protection

Toggle **HDCP & Copyright** On/Off, and set a **Password for Screen Lock**.



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



HDMI Out

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

NOTE: The disable ViewBoard speakers option box is unchecked by default.

HDMI Out

HDMI-out resolution setting

☒ 3840X2160_60HZ

☐ 1920X1080_60HZ

☐ 720X480_60HZ

HDMI IN OUT ☒

It is necessary to plug and unplug the HDMI interface once to take effect.

☐ Disable ViewBoard speakers when using HDMI out

Preference

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



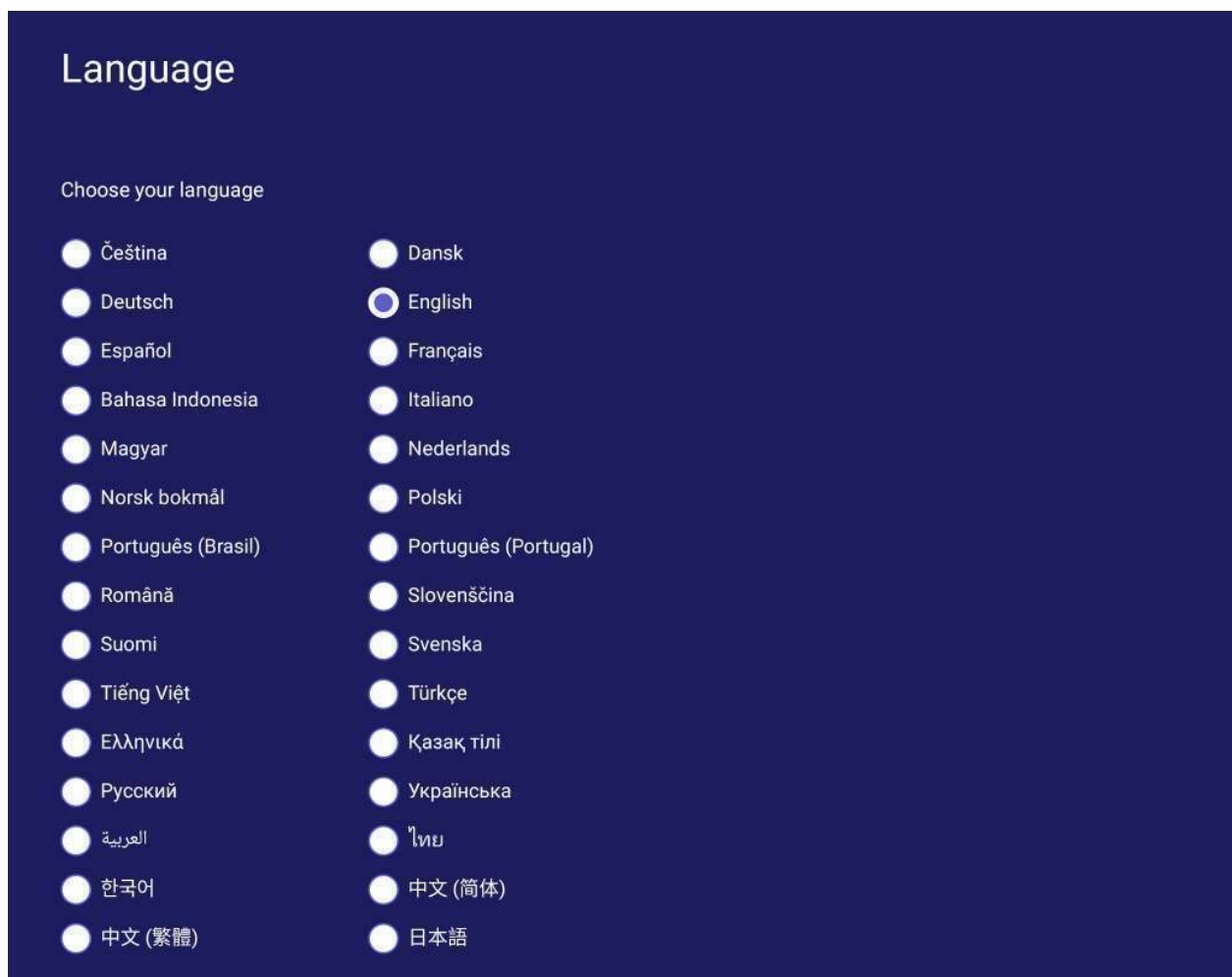
Touch

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



Language

Adjust and choose the preferred language from the available languages.

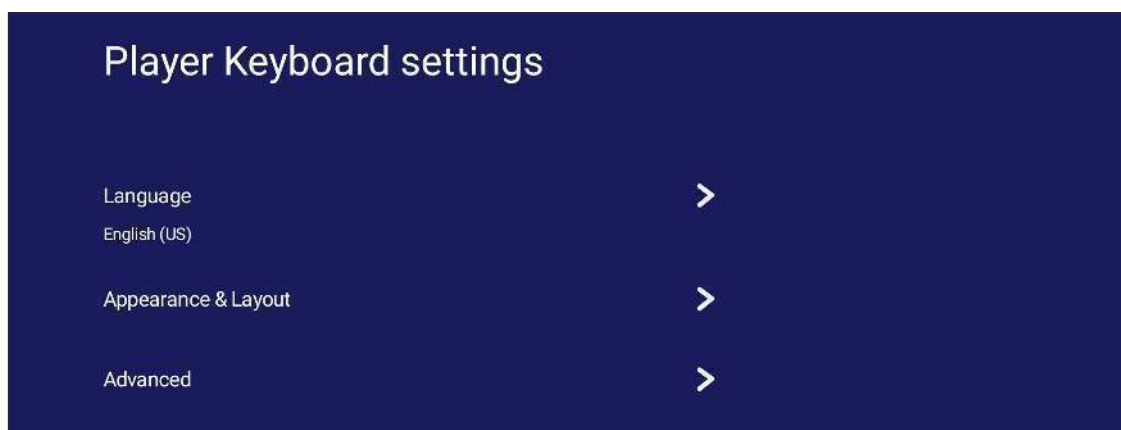
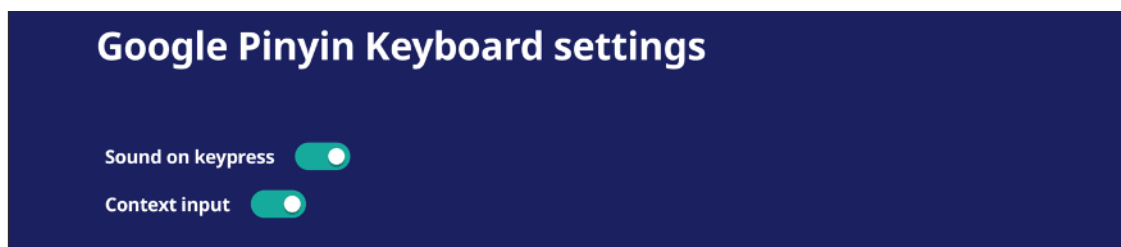


Keyboard & Input Method

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

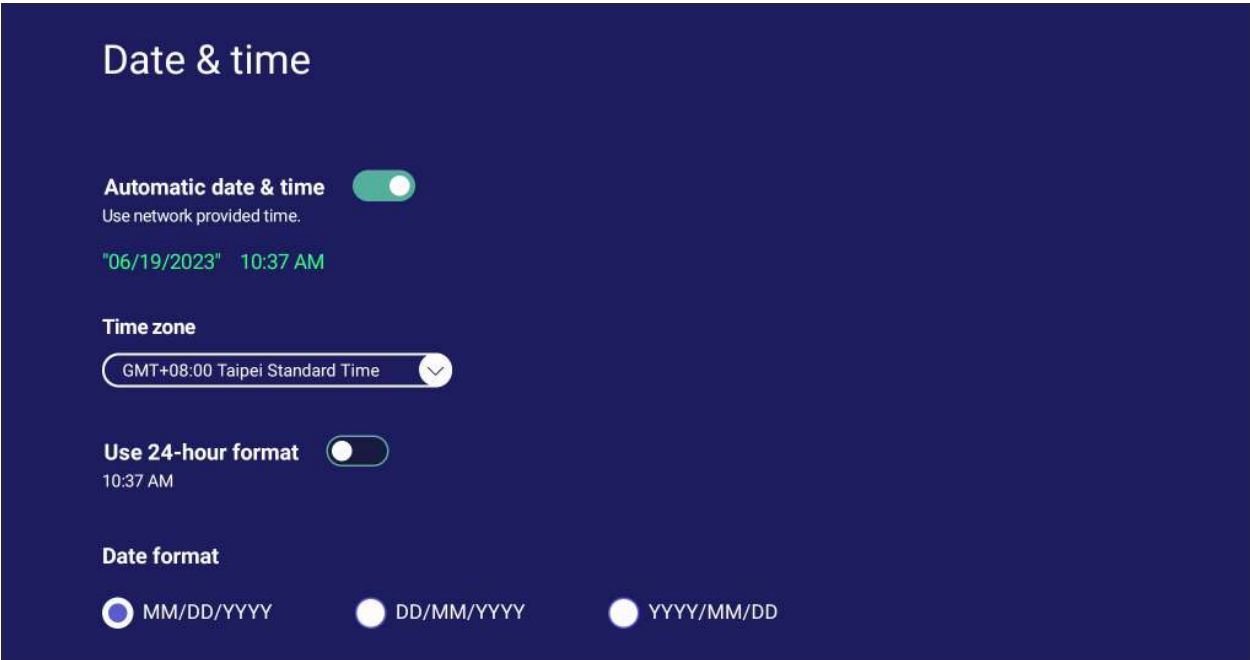


- Tap on **Settings** to adjust the advanced keyboard settings.



Date & Time

Set the system time and format.



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

Boot Mode

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

Boot mode & Advanced settings

☒ **Normal mode**
Launch startup programs, begin all services configured to start, and loads the hardware drivers you have installed as normal.

☐ **Secure mode**
Removes embedded screen sharing apps such as V-Cast, E-Airplay, and Chrome Cast.

☐ **Disable embedded OS**
The embedded OS will be disabled after reboot.

Enable password for ViewBoard settings ☒
If enabled users will have to enter a password to open ViewBoard settings

Boot mode and advanced settings password [Reset password](#)

Local File Protections Policy
To protect personal files, the local storage file in Folder app will be deleted automatically at the time of your choice.

☒ **Do not clear file(s)**

☐ **Delete after 1 Day**

☐ **Delete after 1 Hour**

☐ **Delete immediately**

Color correction ☒

☐ **Monochromacy**

☐ **Deuteranomaly (red-green)**

☐ **Protanomaly (red-green)**

☐ **Tritanomaly (blue-yellow)**

Non-ViewBoard OS mode side toolbar settings ☒
Set side toolbar on/off for non-ViewBoard OS mode

[Reset ViewBoard](#)

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.
Non-ViewBoard OS Mode Side Toolbar Setting	Enable the side toolbar for non-ViewBoard OS.
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.

Startup & shutdown

Startup input

☒ Last shutdown input

☐ Select input

ViewBoard

Display settings when NO SIGNAL

☒ Power off display

☐ Turn off panel backlight

Standby mode

☒ Hibernates

Hibernate Mode turns off the entire device including the display. To wake up, use the power button on the ViewBoard, the remote control, or use a compatible device via RS232.

☐ Sleep

Sleep Mode turns off the display and major functions of the device. The operating system will remain running. Wake up the ViewBoard using the power button on the ViewBoard or the remote control, or use a compatible device connected via RS232.

Energy Star ☒ 

After no action for one hour, device will enter standby mode as selected by the user (hibernate or sleep).

Body detection ☐

When nobody detected, device will sleep in the minutes customised

Black screen after startup ☐

To conserve power, screen backlight will not turn on after startup.

Time switch

Power off reminder ☒

Toggle Power off reminder

Schedule

Boot time

Off time

Add schedule

Item	Description
Startup Input	Adjust the Startup Input preference.
Display Setting when No Signal	Decide what happens to the display when there is no signal for HDMI, PC, or VGA sources.
Standby Mode	Decide what happens when you press the Power button while the ViewBoard is On.
Energy Star	Enable to automatically initiate Sleep Mode when the screen is idle for one hour.
Body Detection	If no body is detected, the display will enter sleep mode based on the minutes set.

Item	Description
Black Screen After Startup	When enabled, the ViewBoard will turn off the backlight automatically after booting up.
Time Switch Power Off Reminder	When enabled, the ViewBoard will turn off without any reminder after the scheduled off time.
Schedule	Schedule a Boot and Shut off time.

Toolbar Setting

Adjust the Side toolbar settings.

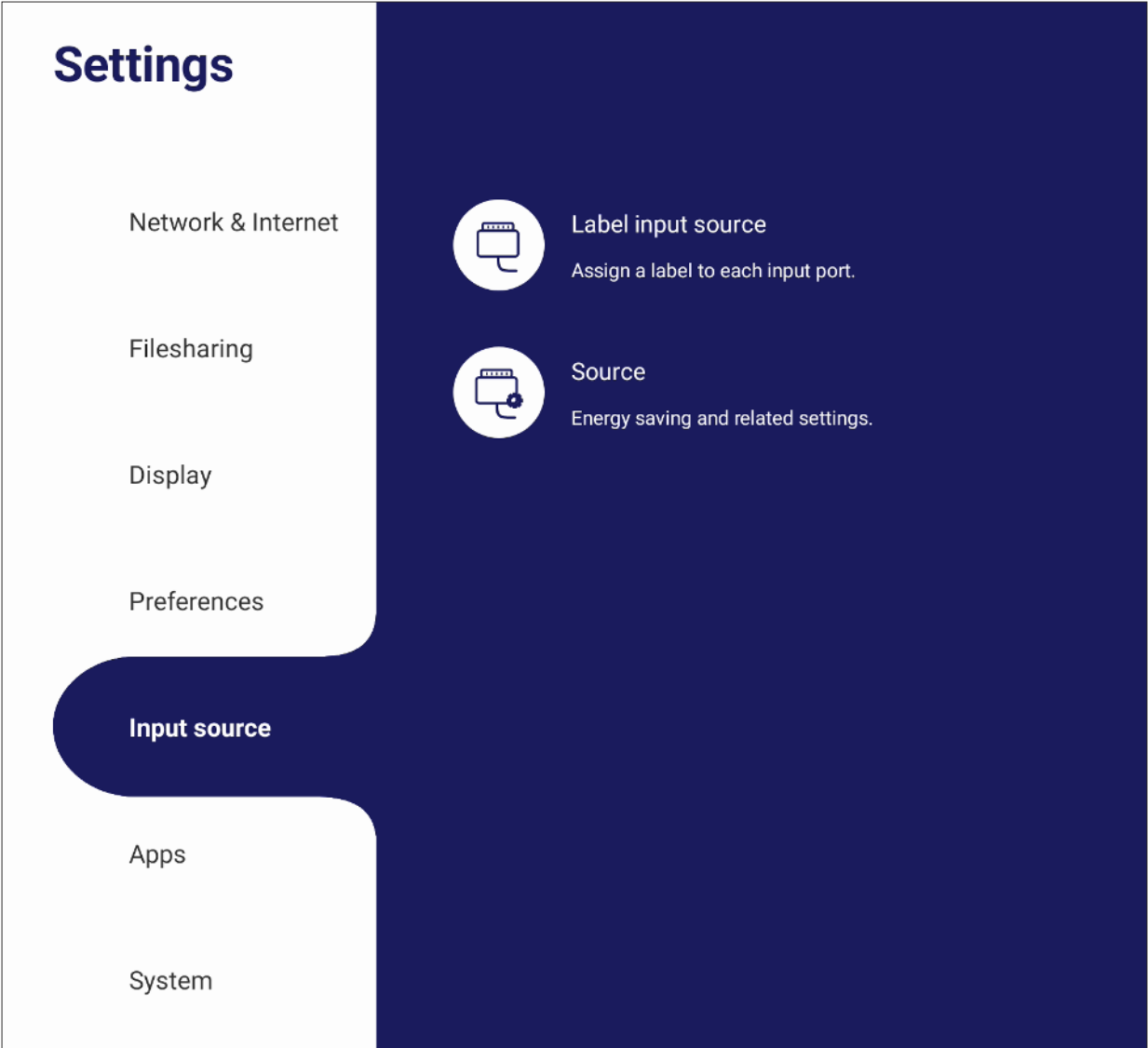
Toolbar settings

Side toolbar settings

- ☒ Show side toolbar
- ☐ Hide side toolbar
- ☐ Disable in all input port sources

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.

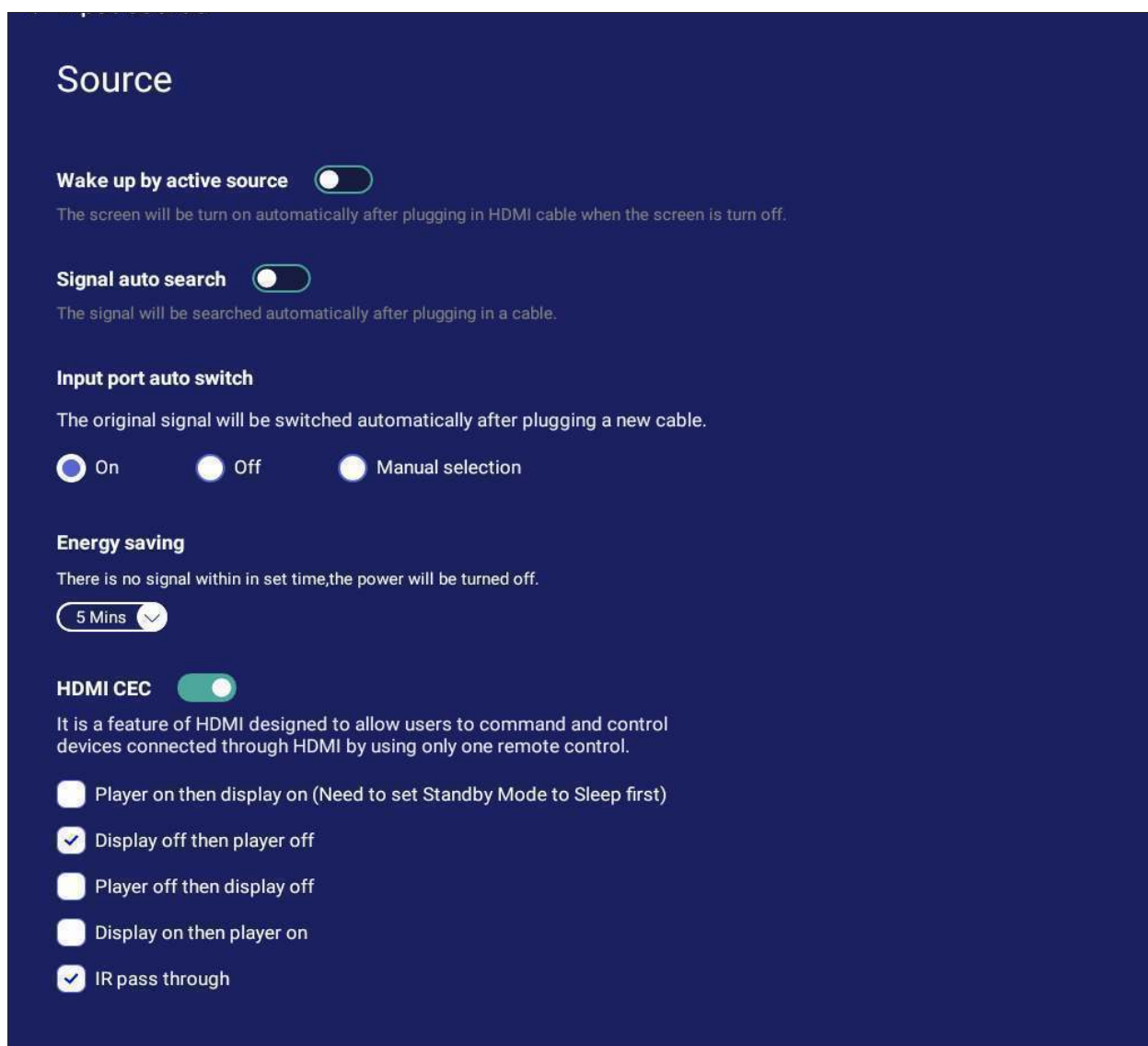
Label input source

Add a label to help you recognize input ports easier.

Source	Label	
ViewBoard	ViewBoard	
HDMI1	HDMI1	
HDMI2	HDMI2	
HDMI3	HDMI3	
Type-C	Type-C	
VGA	VGA	

Source

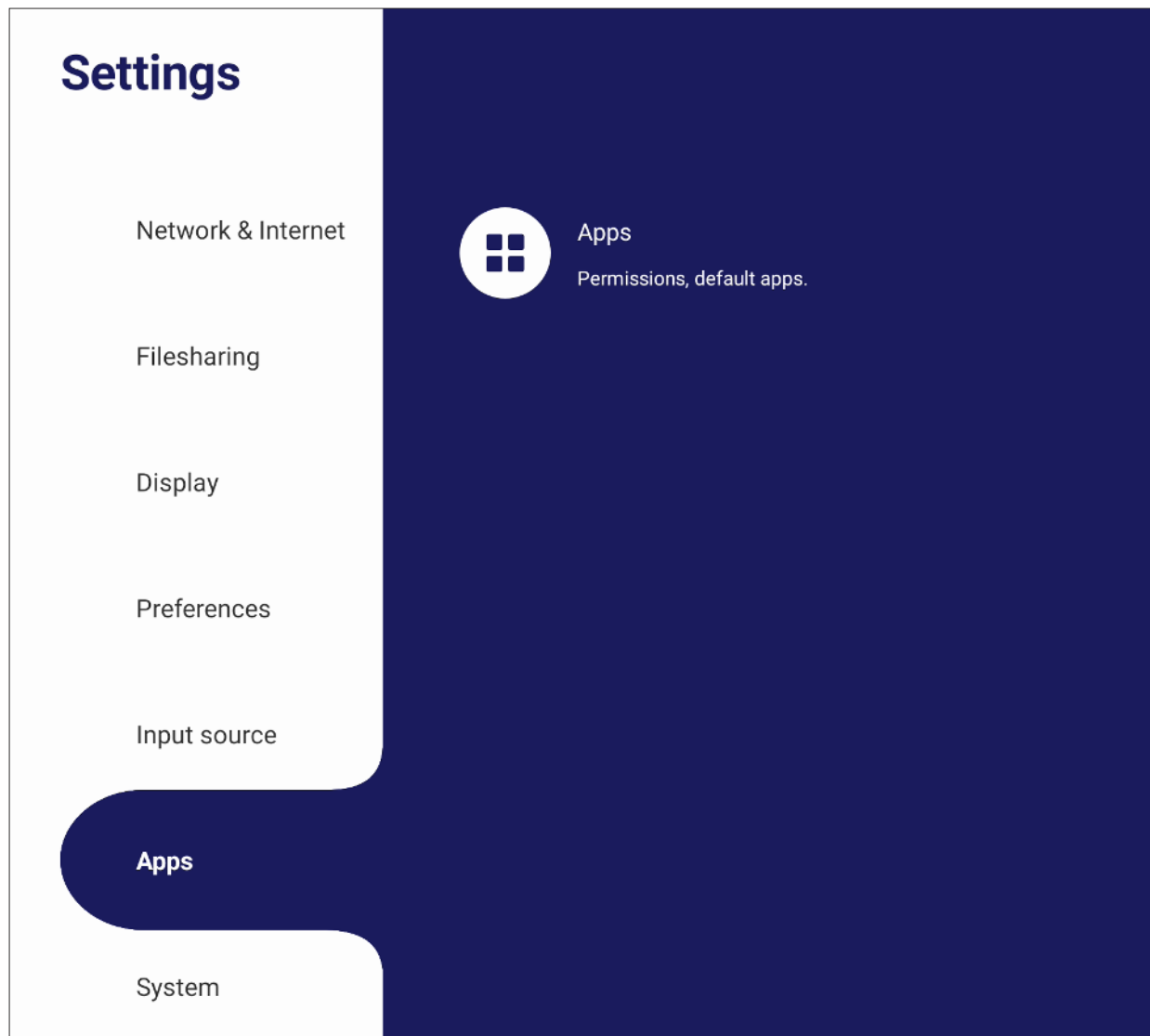
Toggle Wake up by active source, Signal auto search, and HDMI CEC and select Input port auto switch.



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

Apps

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

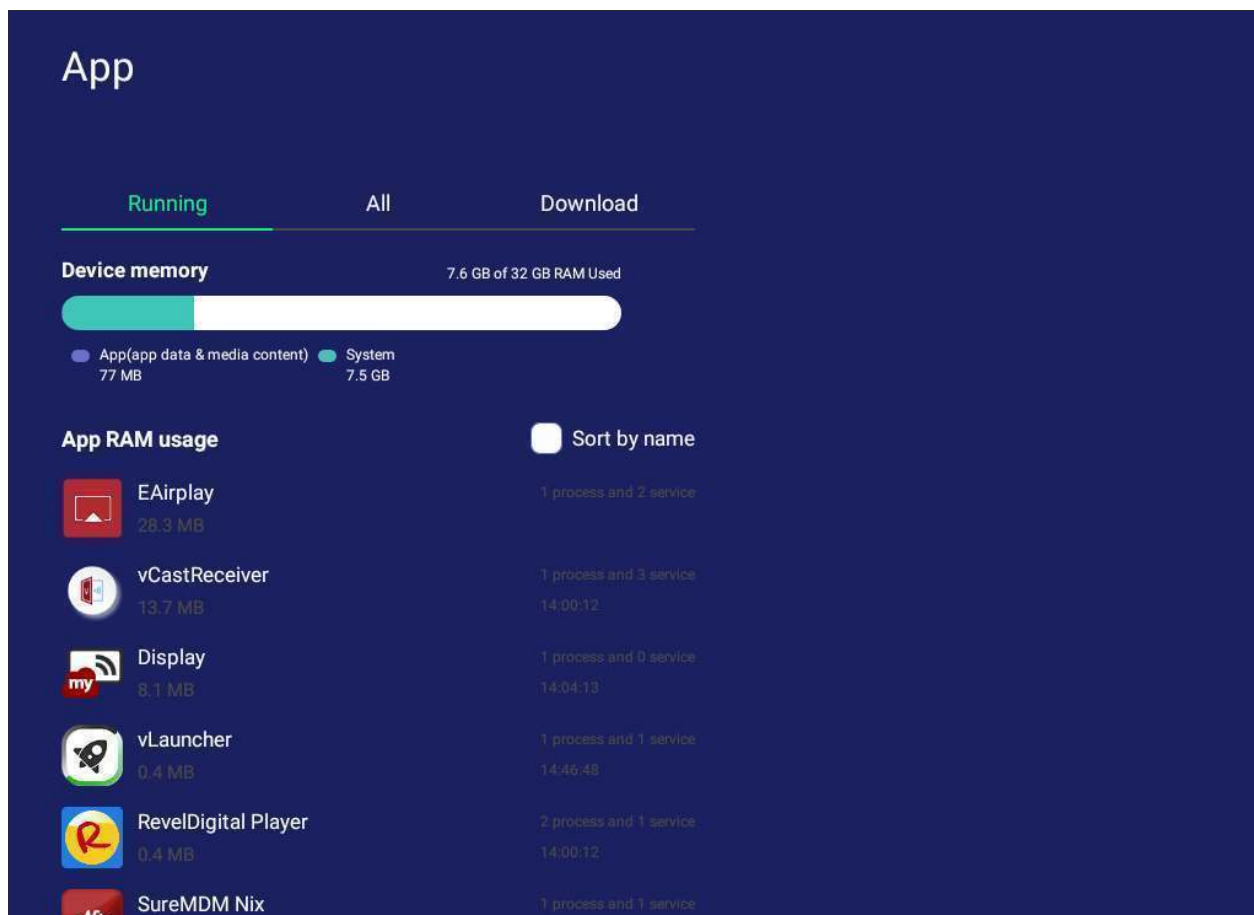


NOTE:

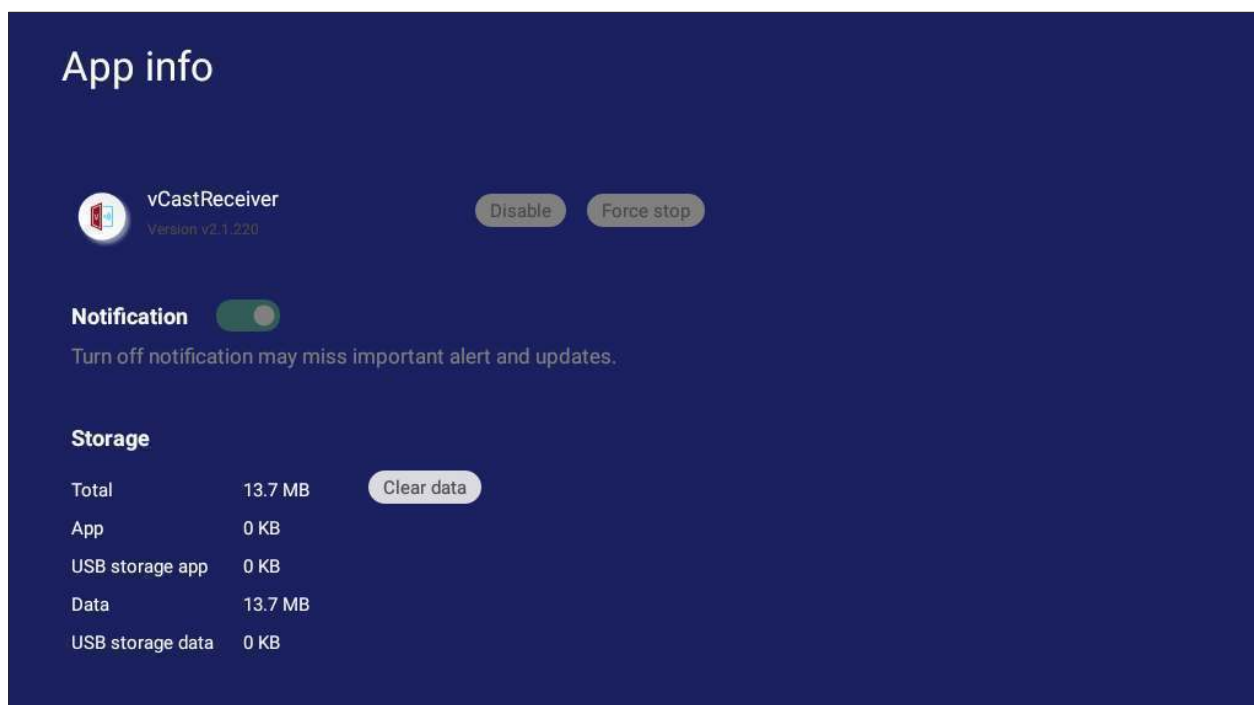
- Pre-loaded apps cannot be uninstalled.
- Not all apps support the move to USB storage feature.
- Not all apps support Clear Defaults.

Apps

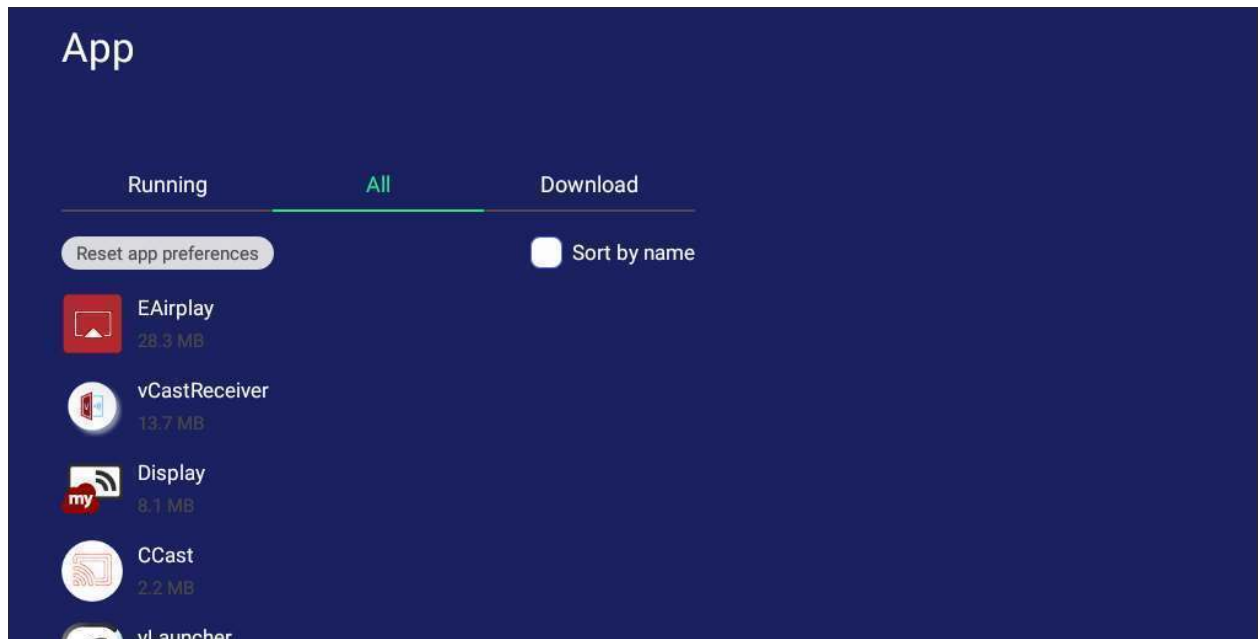
View any running or installed applications. Tap on them for more detailed information and options.



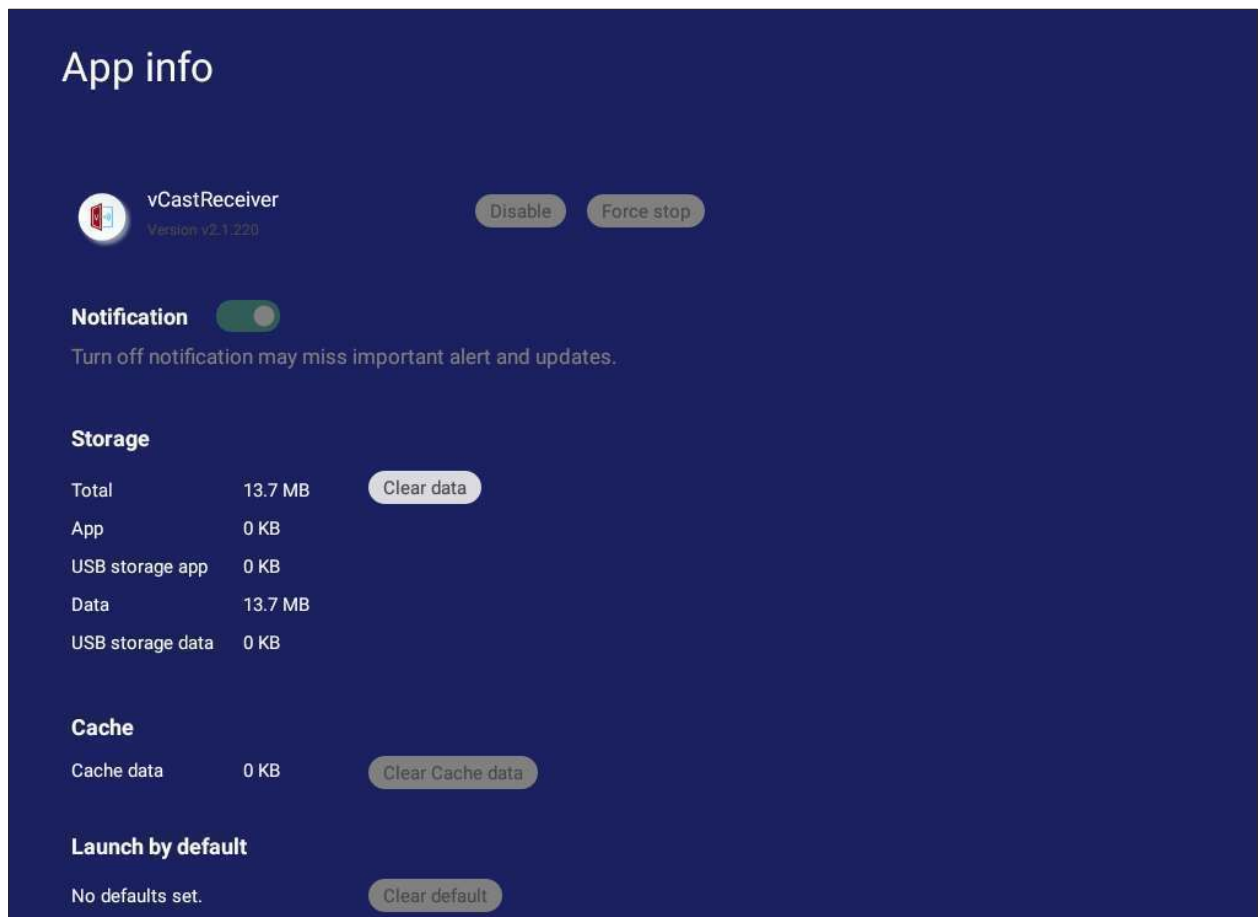
- By tapping on a running application, you can see more information, stop, or report the application.



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

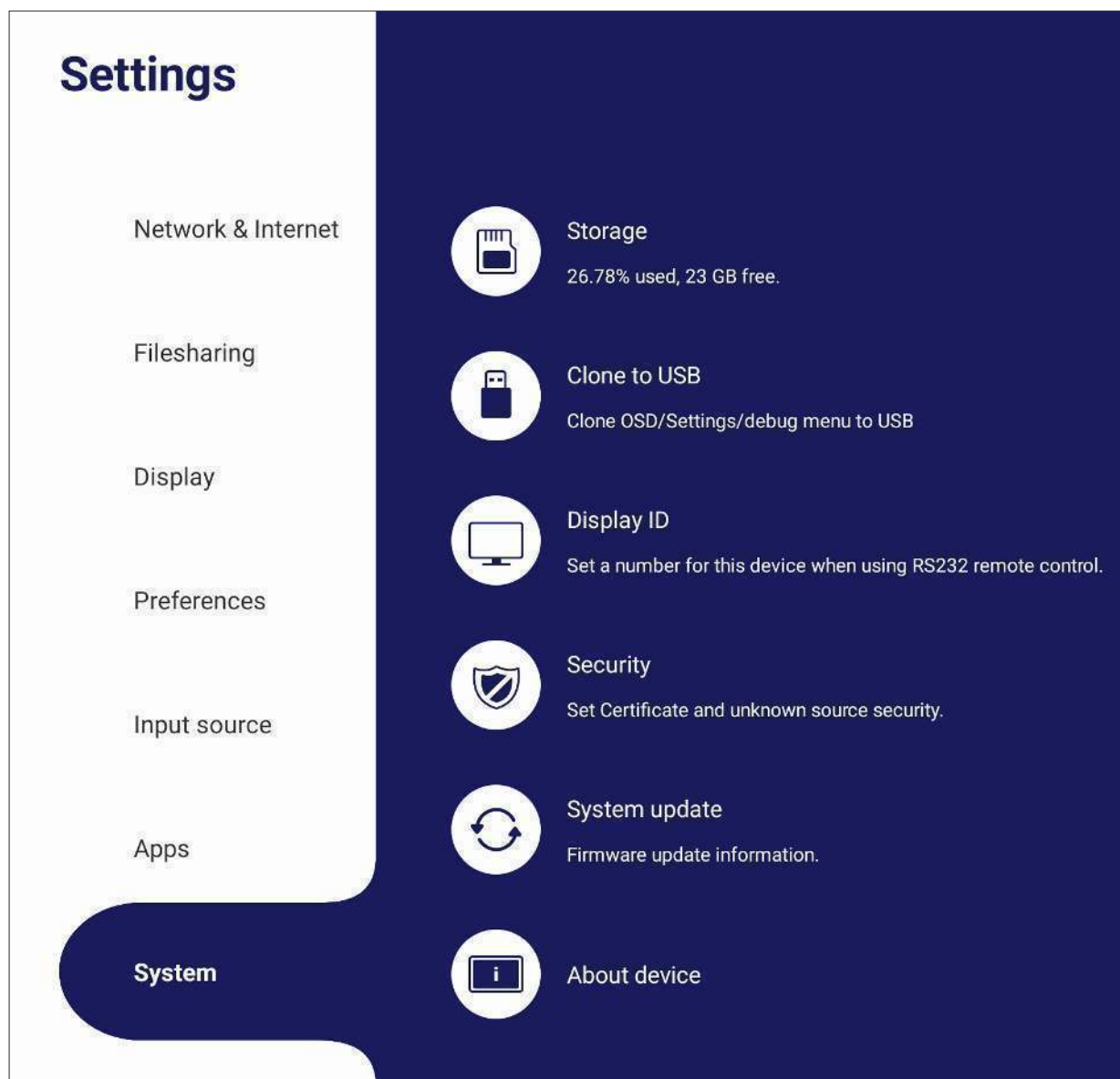


- Tapping on any application will display further information and options.



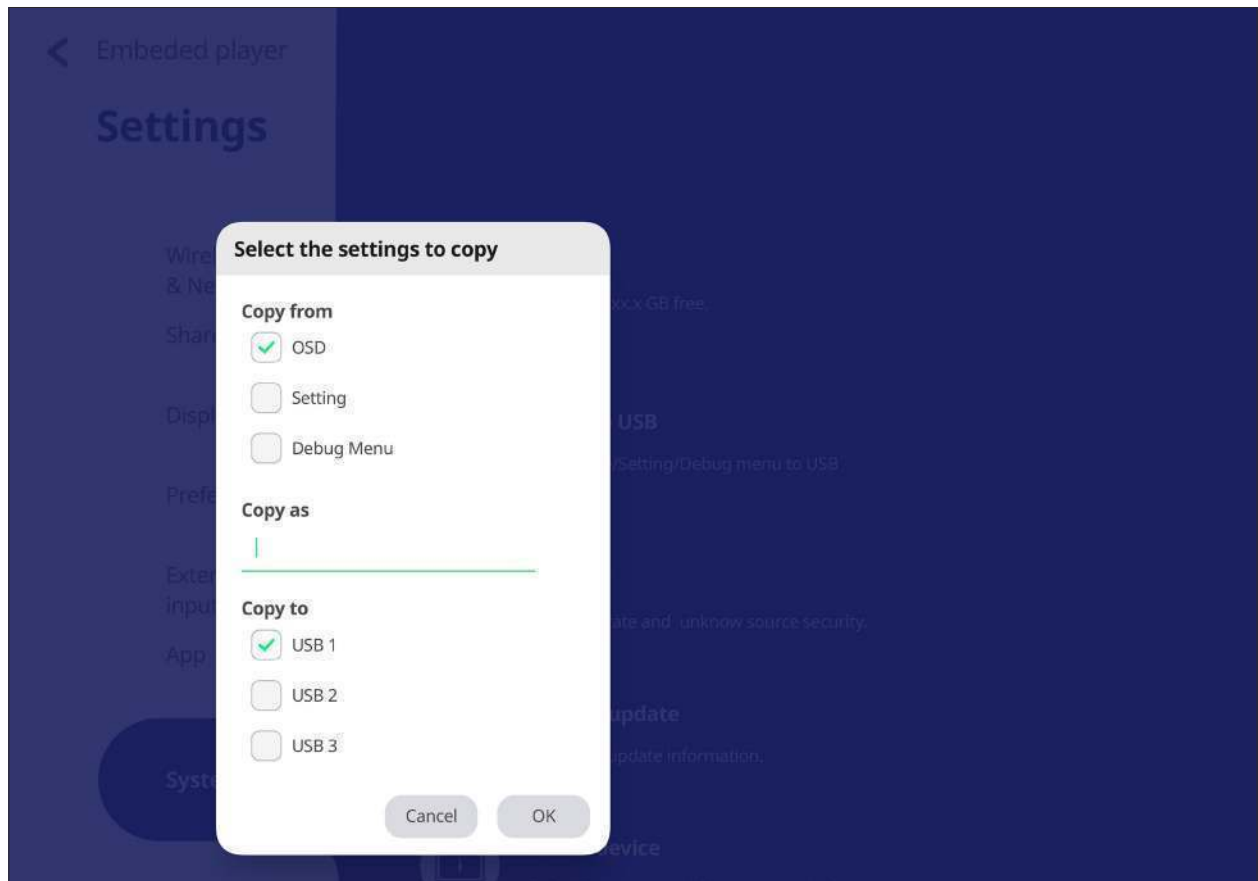
System

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



Clone to USB

Copy settings to an external USB drive.

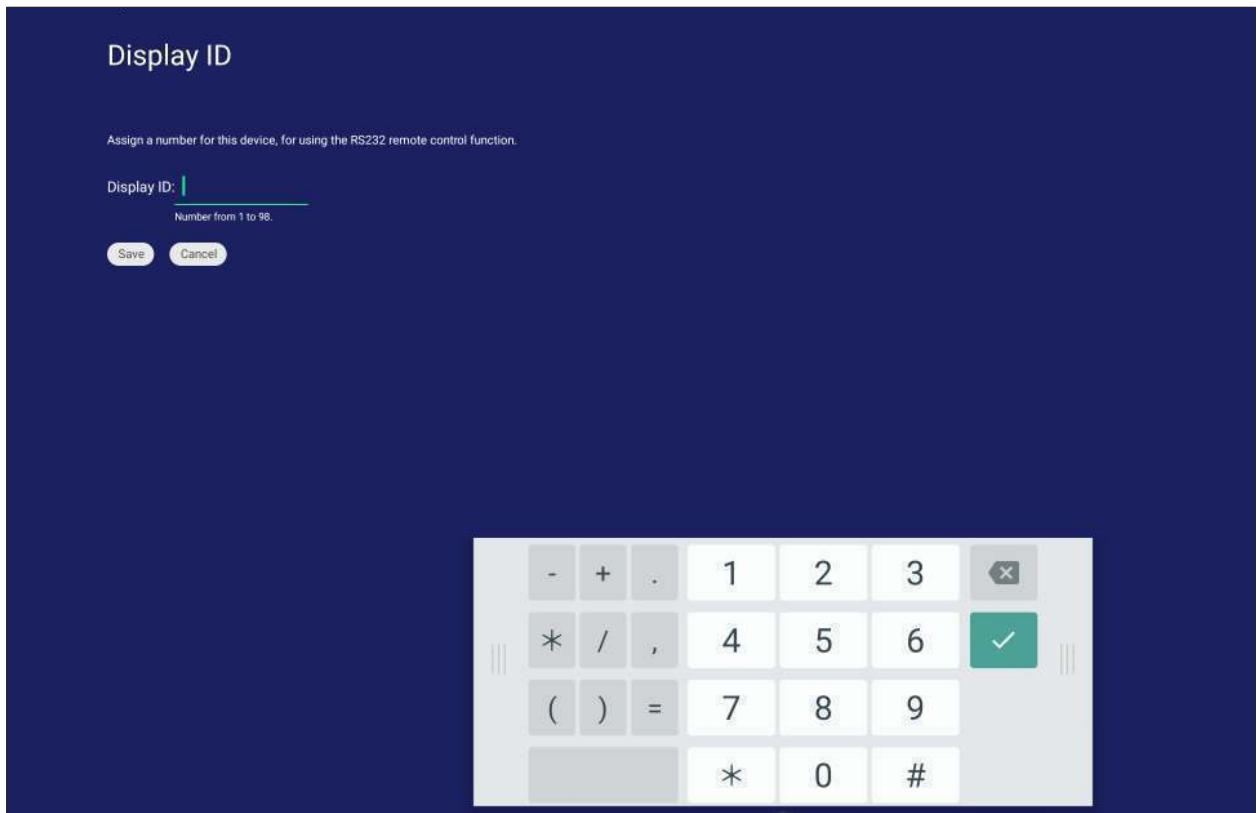


Display ID

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



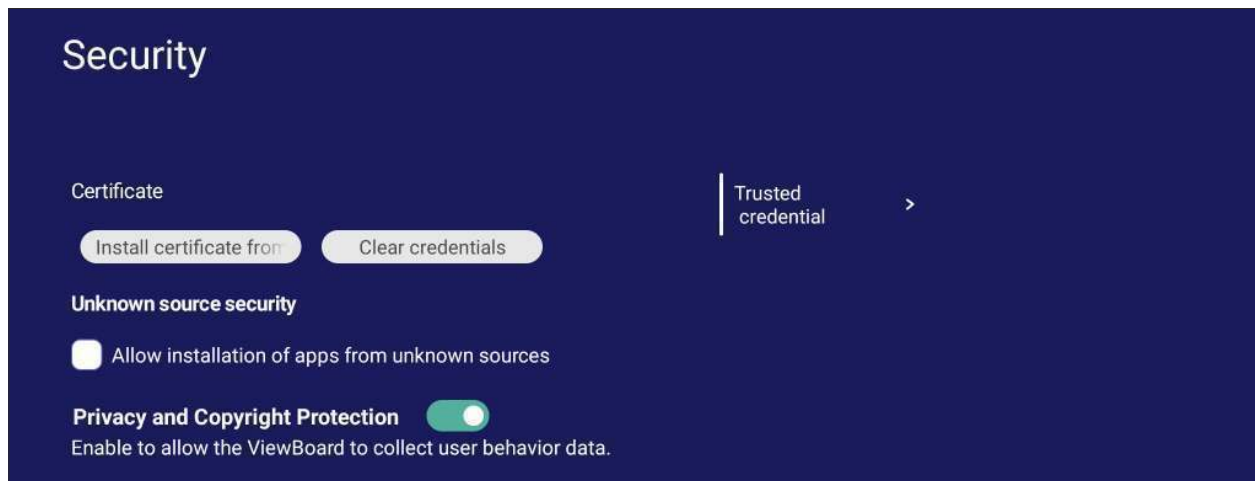
- To assign or change the Display ID, tap **Change** and input a number.



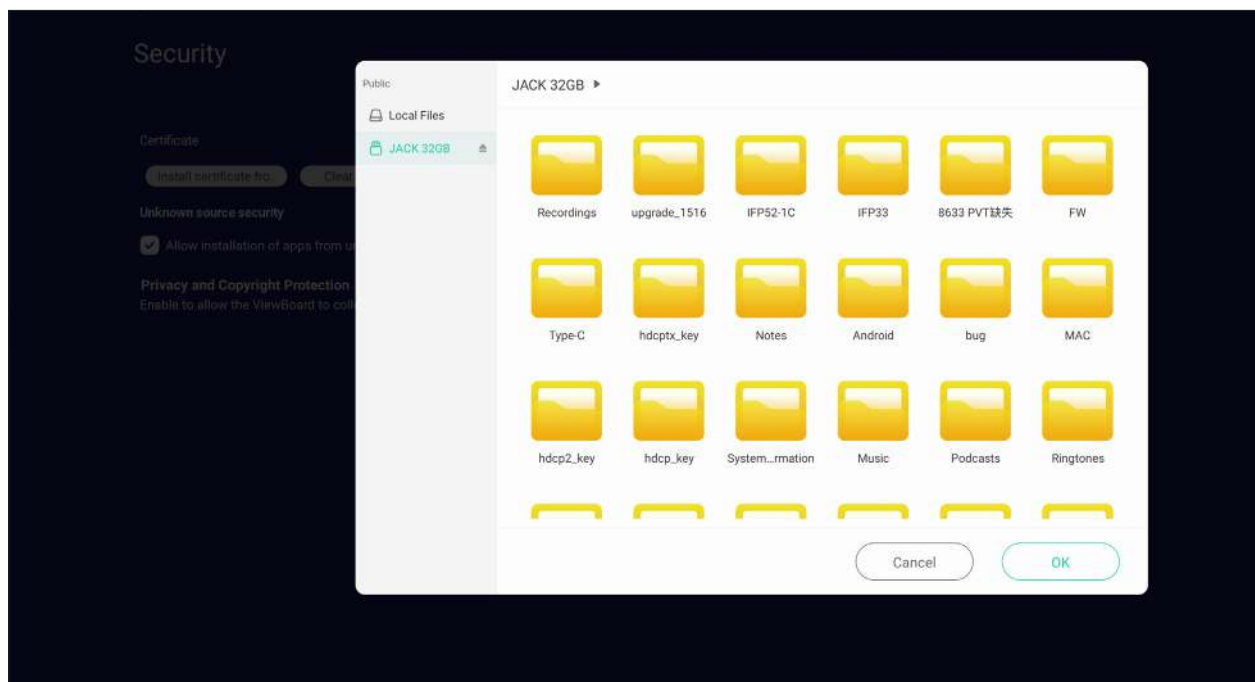
NOTE: The Display ID is for RS-232 users, and the range is 01~99.

Security

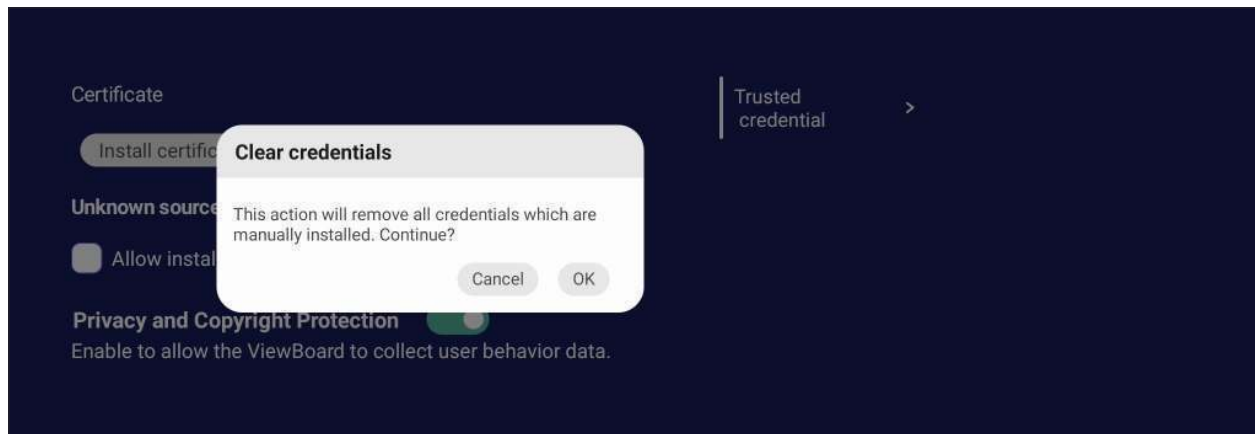
Review **Certificate**, **Trusted Credential** storage, and **Unknown sources** install settings.



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

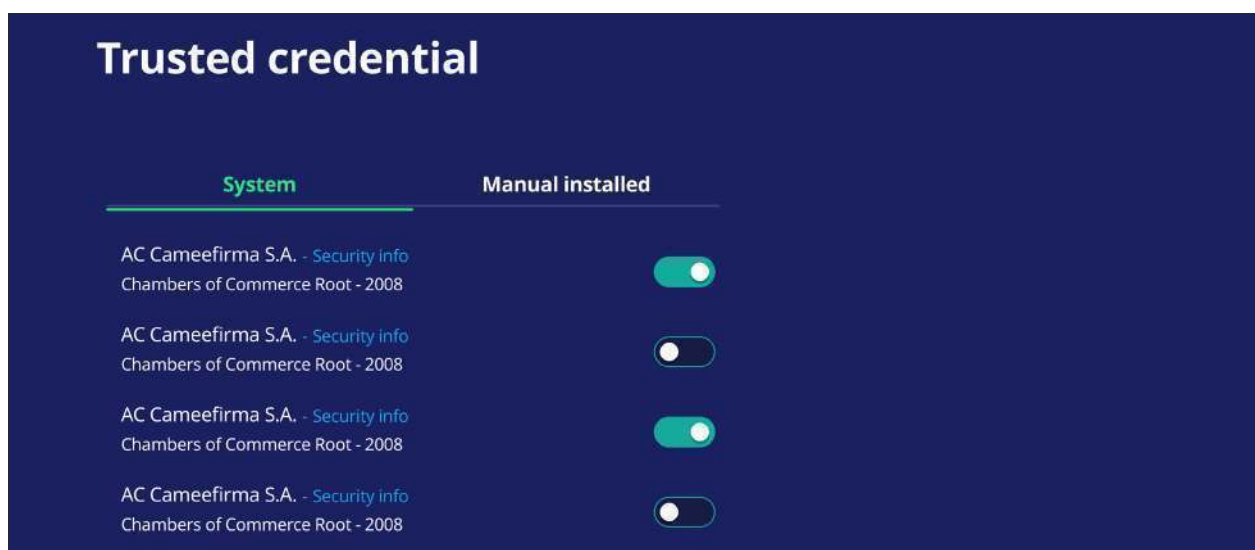


- Selecting **Clear Credentials** will remove all manually installed credentials.



NOTE: Pre-loaded credentials cannot be cleared.

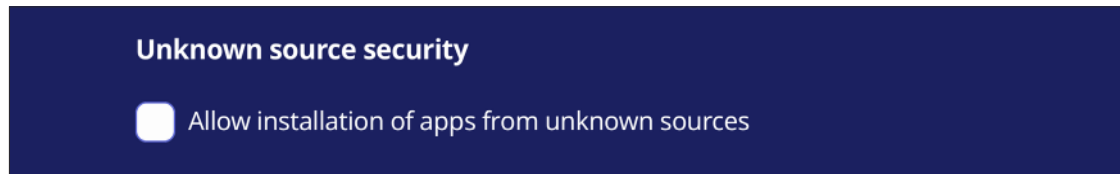
- Under **Trusted Credentials** view and edit all trusted and installed CA certificates.



- Tapping on a credential will provide more detailed information.



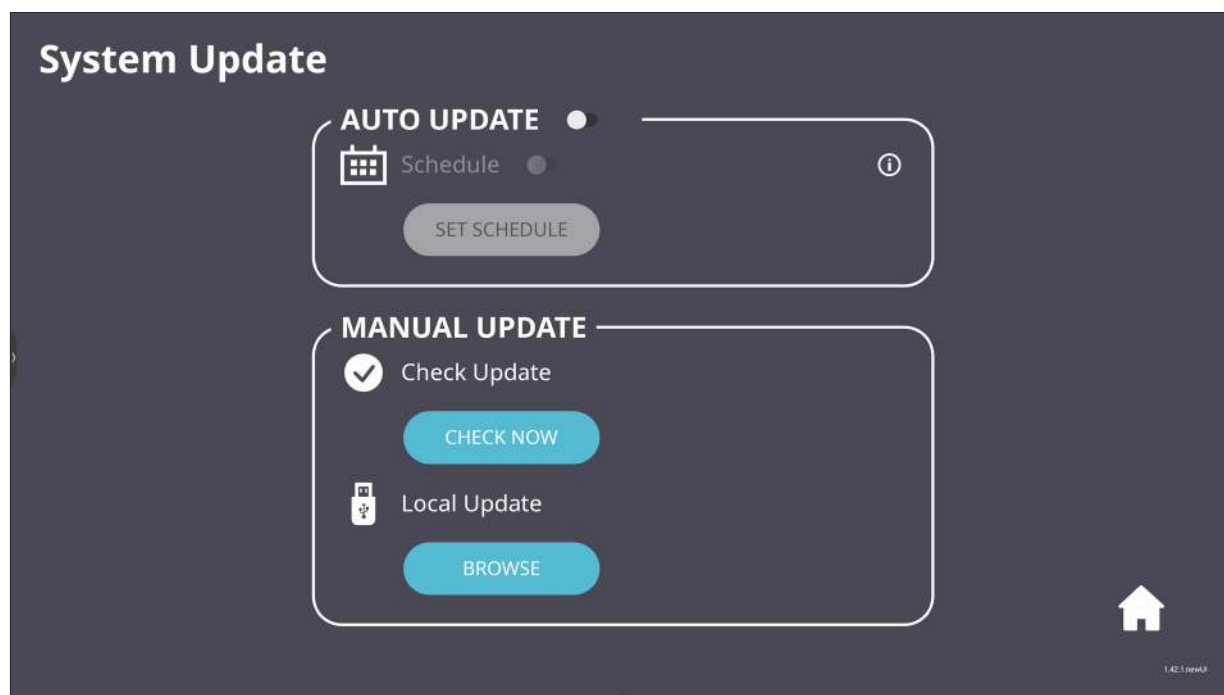
- Allow the installation of applications from unknown sources by selecting the box under **Unknown source security**.



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

System Update

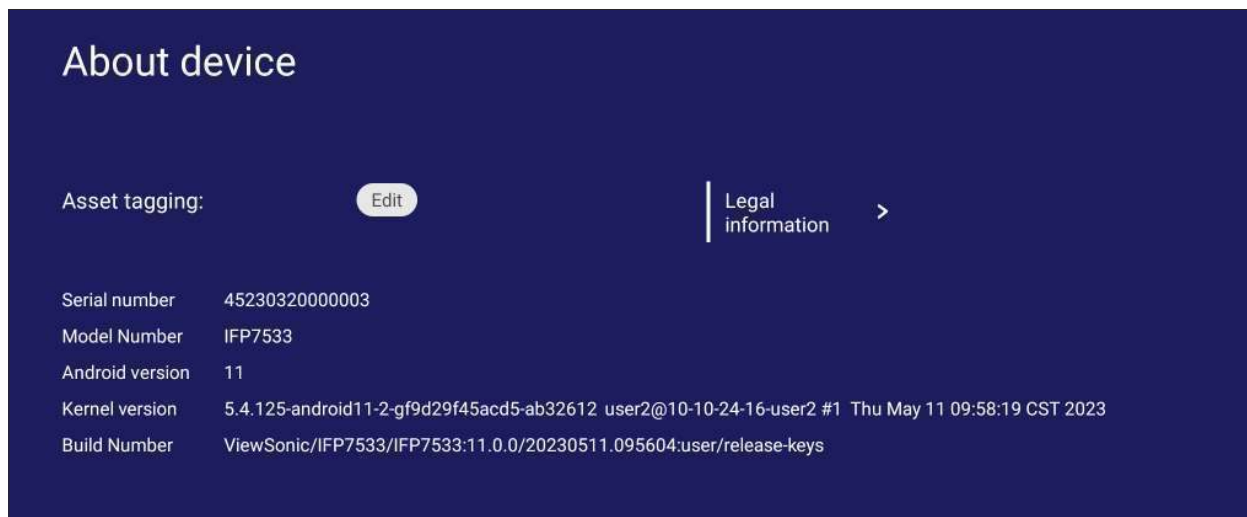
The ViewBoard automatically searches for software updates whenever connected to the Internet (OTA). With just one click, users can update their version of ViewBoard software.



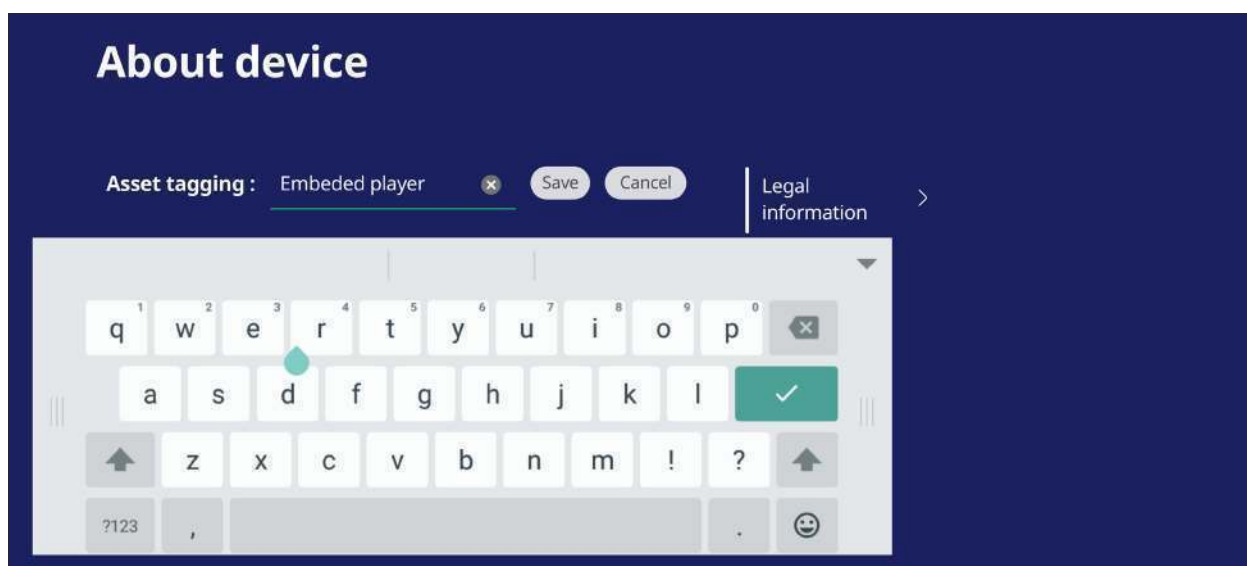
Item	Description
Auto Update	When the display is off, the system will automatically check for a new version. If a new version is found, the system will automatically update. After the update is complete, the system will turn off.
Schedule	Set the update time.
Manual Update	Update the software manually.

About Device

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



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



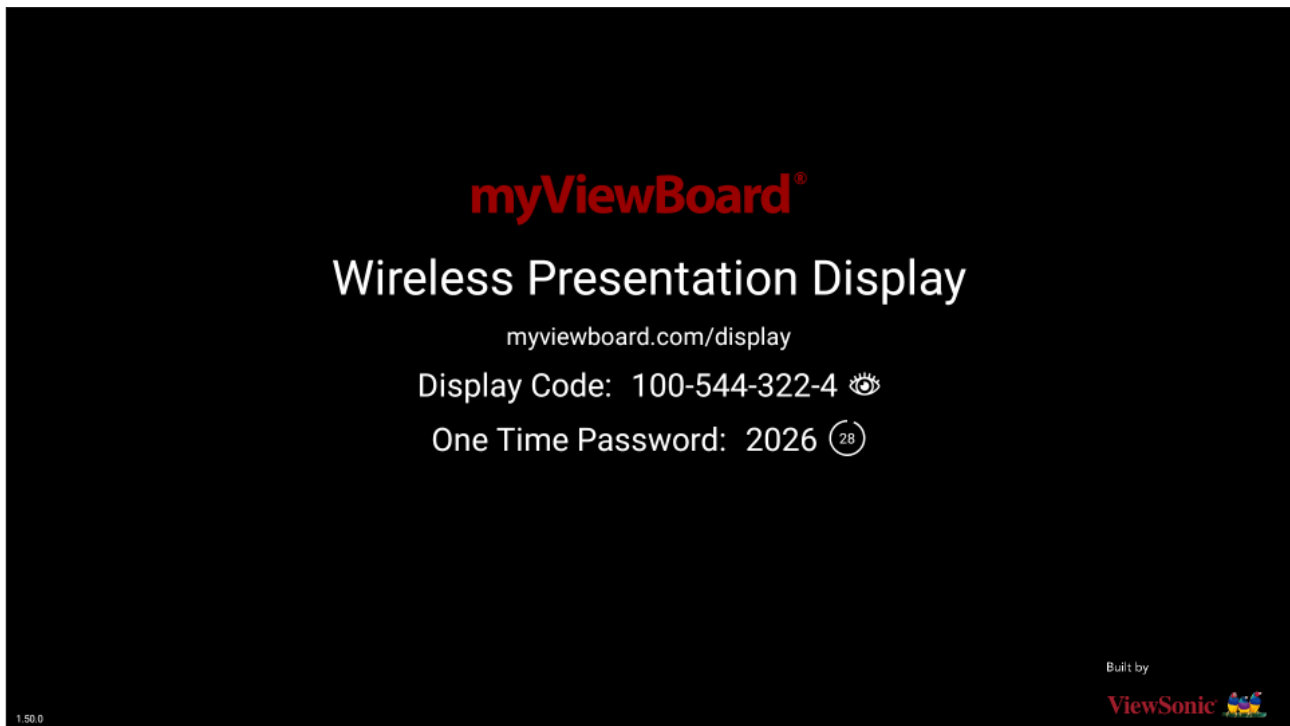
- Tap on **Legal information** to check open source licenses.



Embedded Applications and Settings

myViewBoard Display

Wirelessly mirror screens to a larger display.



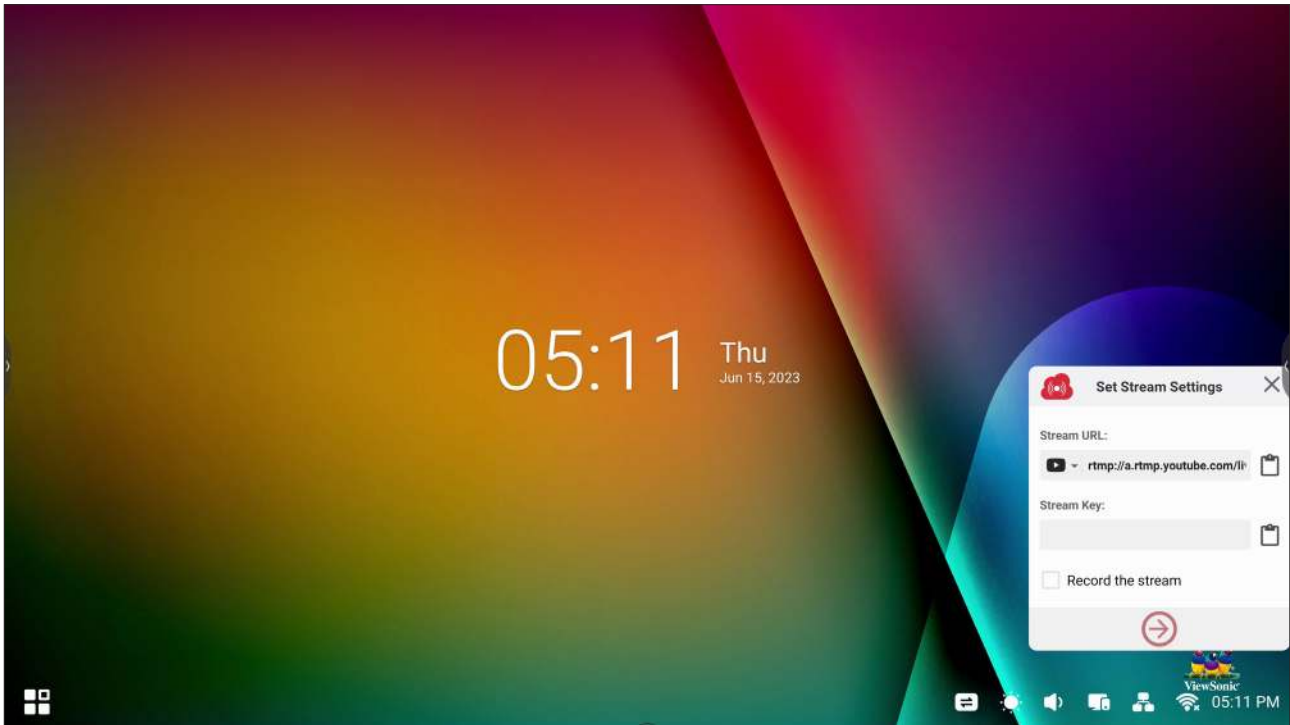
To share a screen to a ViewBoard with myViewBoard Display:

1. Open myViewBoard Display on the ViewBoard you want to share your screen to.
2. On the device you want to share the screen from, go to: <https://myviewboard.com/display>.
3. Enter the **Display Code** and **One Time Password** for the ViewBoard you wish to share to.

NOTE: Note that the password refreshes every 30 seconds.

myViewBoard Live

Stream whiteboarding sessions.



A **Stream URL** and a **Stream Key** are needed to begin live streaming. The **Stream URL** is automatically shown after selecting the streaming service in myViewBoard Live.

NOTE: The **Stream Key** will come from the streaming service chosen.

On myViewBoard Live:

1. Launch myViewBoard Live.
2. Input the required information.
3. Select the **Record the stream** checkbox to record a copy of the stream to the ViewBoard (if applicable).
4. Tap the arrow icon to start the stream.

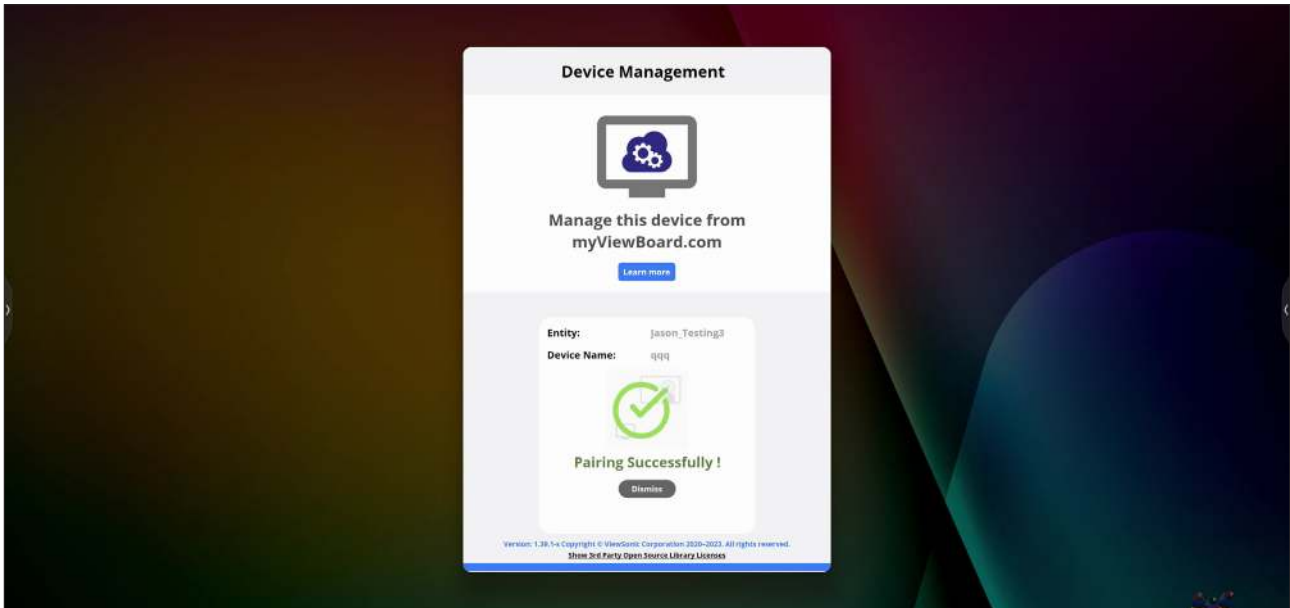
On the dashboard of the chosen streaming service:

1. Verify that it is able to successfully receive the stream.
2. To stop the stream, locate and click the 'End Stream' button on the chosen service's dashboard.

NOTE: To learn more about myViewBoard Live, visit: https://wiki.myviewboard.com/MyViewBoard_Live.

myViewBoard Manager

Remotely manage multiple installations of ViewSonic devices.



Once devices are set up and have myViewBoard Manager installed, they can be added to the entity and managed remotely from the Manager web application.

NOTE: Only available to Entity Admins from myviewboard.com after signing in.

Add a Device

On the device to manage:

1. Download and install myViewBoard Manager.
2. Open myViewBoard Manager and note the 6-digit PIN displayed.

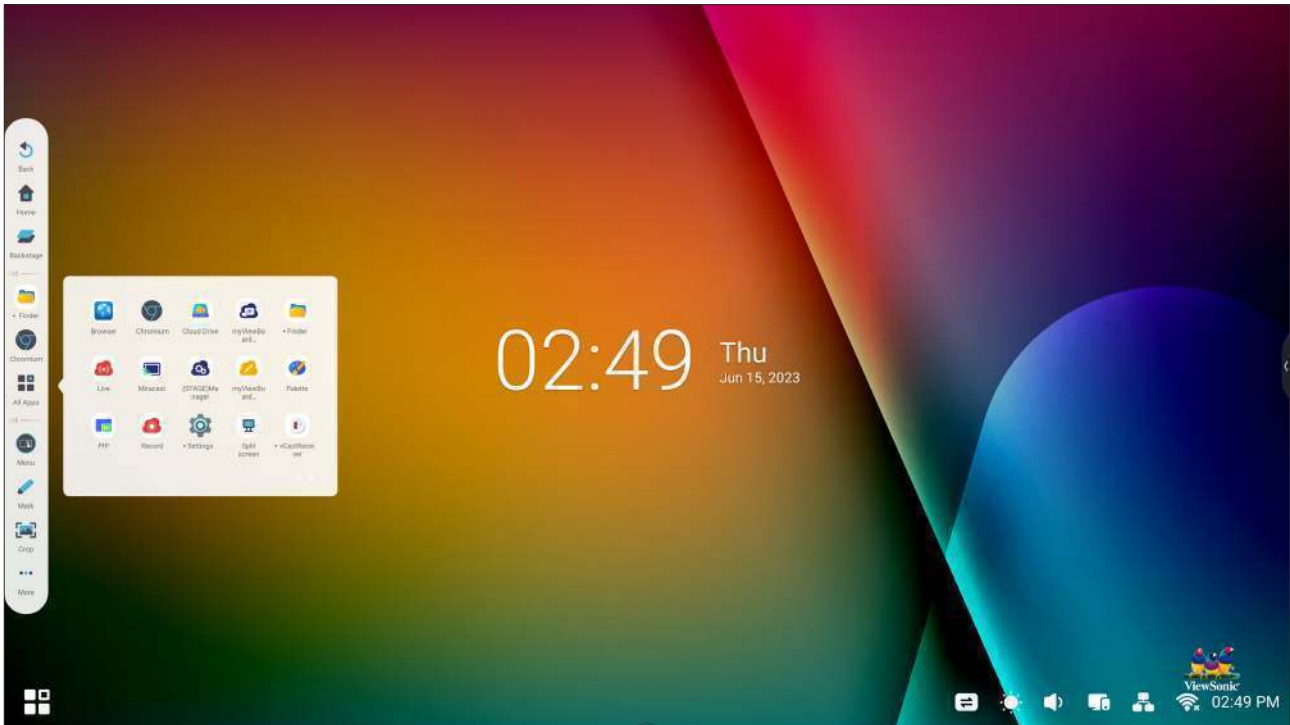
In the myViewBoard Manager web application on myviewboard.com:

1. Click **Add Device**.
2. Input the 6-digit PIN obtained earlier.
3. Name the device (if applicable).
4. Click **Add**.

NOTE: To learn more about myViewBoard Manager, visit: https://wiki.myviewboard.com/MyViewBoard_Manager.

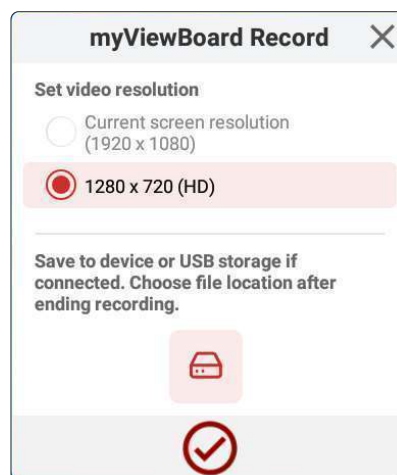
myViewBoard Record

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



To launch the screen recording application:

1. Select the myViewBoard Record icon in the application drawer.
2. Select the preferred recording configurations.

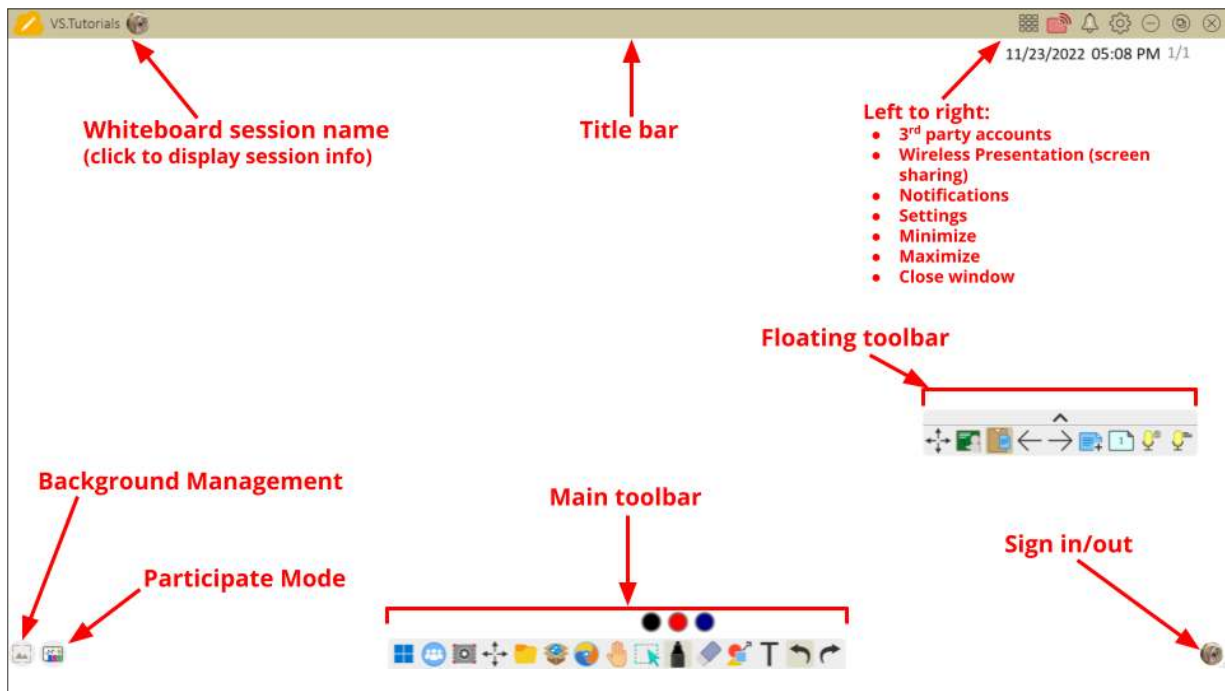


3. Tap the check mark and a three (3) second countdown will begin. Screen recording will begin immediately after the countdown.
4. After stopping the recording, you will be able to preview the video, save it, or discard it.

myViewBoard Whiteboard

A digital whiteboarding application.

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



Floating Toolbar

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

Main Toolbar

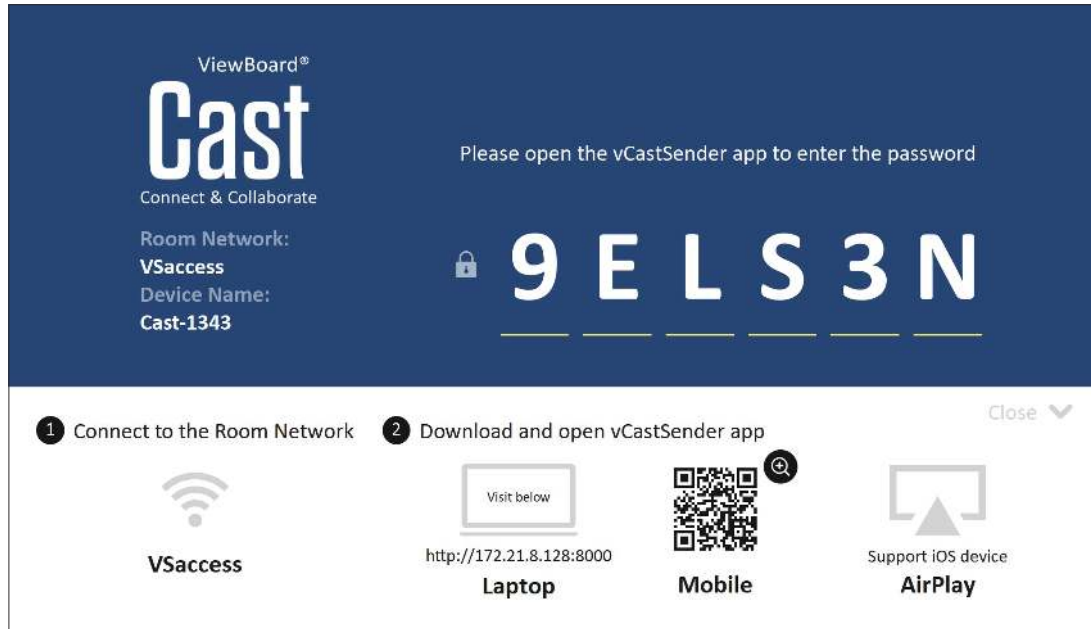
Item		Description
	Screen Capture	Screenshot, video, and audio recording.
	Move	Select and hold to move the toolbar to the left side, right side, or bottom of the screen.
	File	Open, save, export, and print whiteboard files.
	Magic Box	Import resources (image, video, audio, etc.) to the whiteboard.
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

Background Management

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

ViewBoard Cast

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



Network Information

- ViewBoard® Cast software, laptops, and mobile devices can connect to both the same subnet and across the subnet network.
- Connected devices will show up under “Device List” on the same subnet connection.
- If the device does not show up under “Device List”, users will need to key-in the on-screen PIN-code.

ViewBoard Cast is a wireless peer to peer data communication, therefore the below port settings are required:

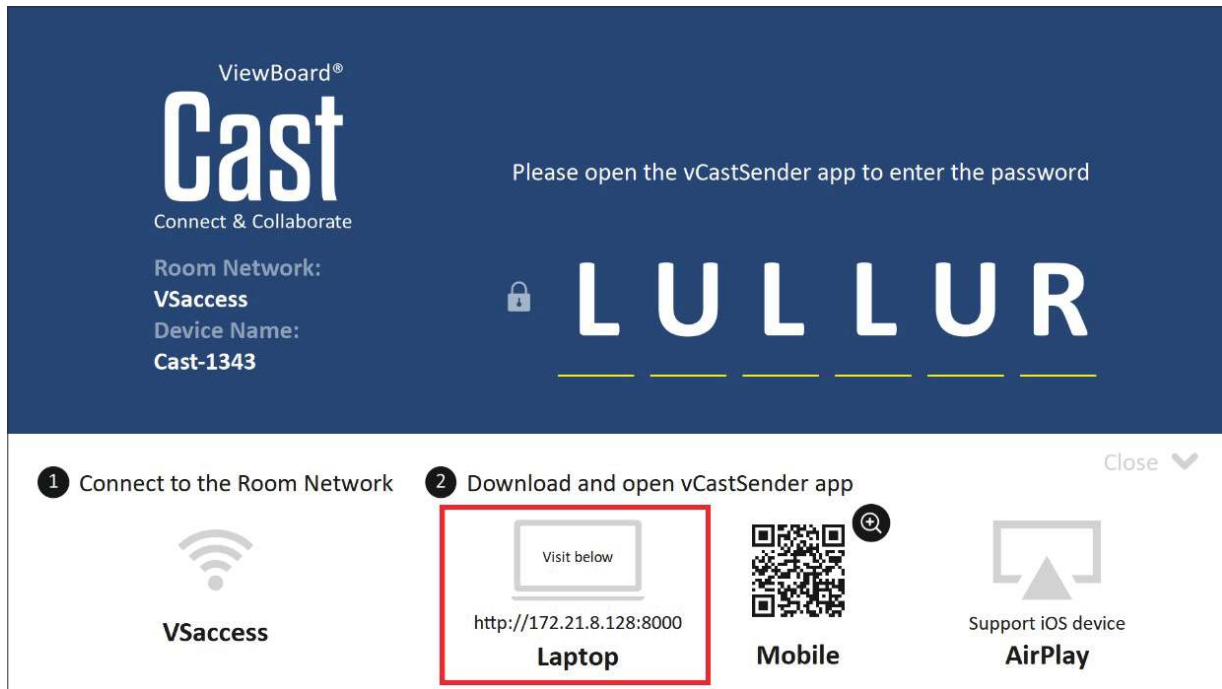
Ports:

- CP: 56789, 25123, 8121, and 8000
- UDP: 48689 and 25123

Port and DNS activation:

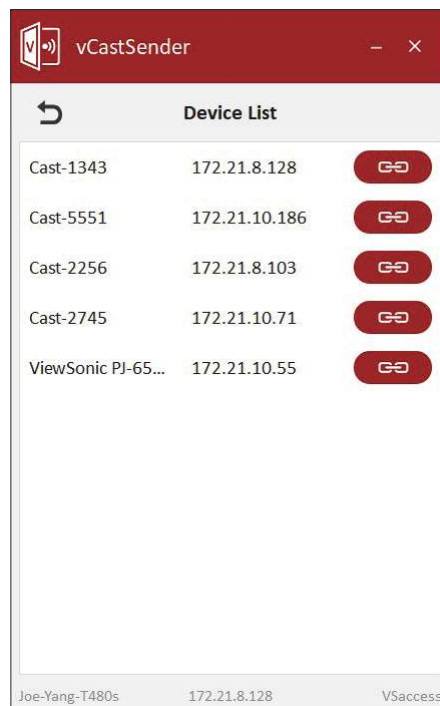
- Port: 8001
- DNS: h1.ee-share.com

Cast Sender from Windows-based, Macbook, and Chrome devices.



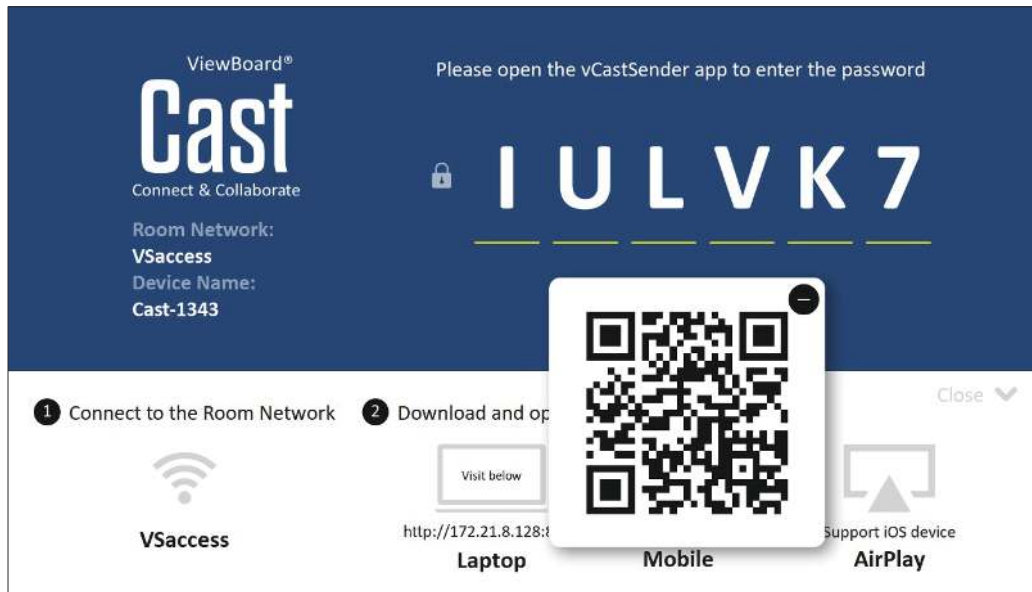
Mac, Windows, Chrome Devices:

1. Make sure your device is connected to the same network as the ViewBoard.
2. Visit the address that is shown on the ViewBoard to download the application.
3. Launch the application and click the connect icon next to the Device Name.



NOTE: If the device is not listed, click **Connect with PIN-Code** and input the pin-code displayed on the ViewBoard.

Cast Sender from Mobile Devices: iOS-based (iPhone, iPad) and Android OS based phone/tablet.

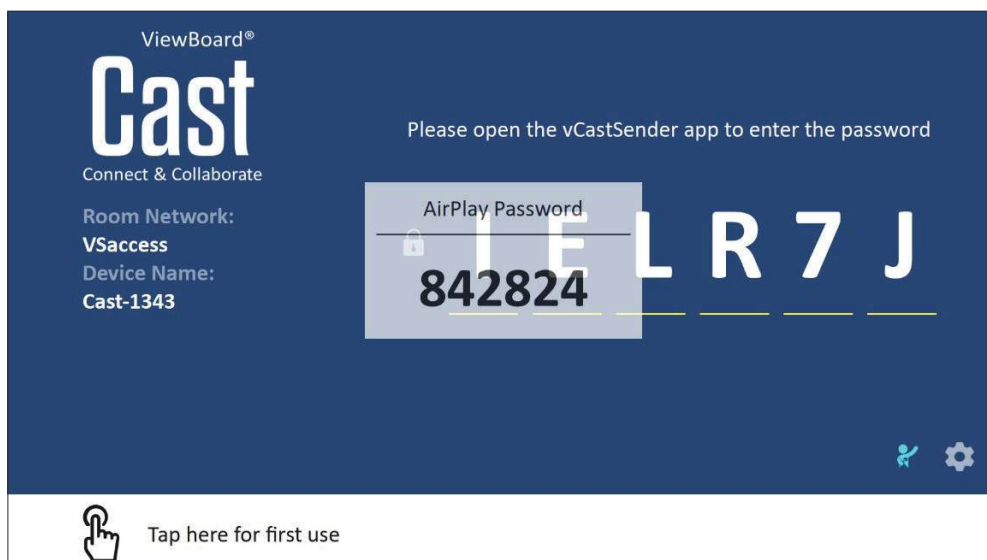


Android/iOS:

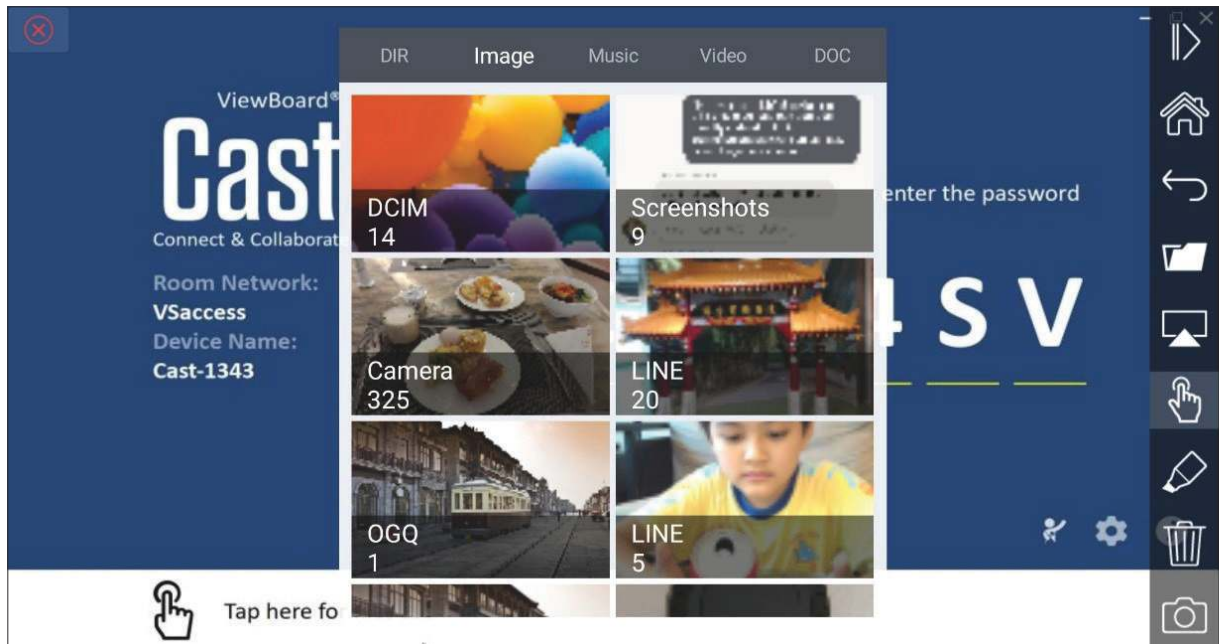
1. Make sure your device is connected to the same network as the ViewBoard.
2. Scan the QR Code that is shown on the ViewBoard to download directly from the server, or download from the Google Play Store or the Apple Store.
3. Launch the application and select the correct Device Name and input the pin to connect. You can also directly input the pin-code displayed on the ViewBoard to connect.

Apple AirPlay®:

1. Make sure your device is connected to the same network as the ViewBoard.
2. Directly open AirPlay and select the Device Name to connect.
3. Another "AirPlay Password" will be generated on-screen for connection.



Cast Out from a Mobile Device that Supports Annotation

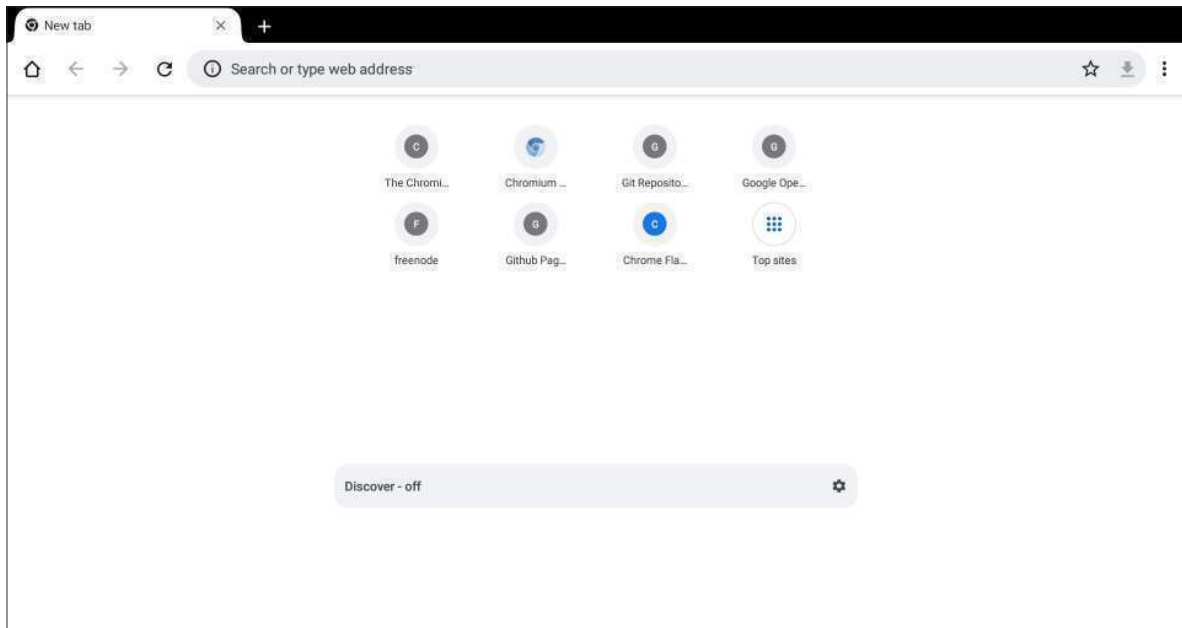


Item	Description	
	Toggle	Hide or display the toolbar.
	Home	Return to the Home interface.
	Return	Return to the previous operation interface.
	Folder	View or open the mobile device's internal file.
	Screen sharing	Share the screen. NOTE: Android 5.0 and above supported.
	Touch	Change to touch mode.
	Pen	Make annotations, and change the color and thickness.
	Clear	Clear everything on the screen.
	Camera	Use the camera and send the image to the ViewBoard.

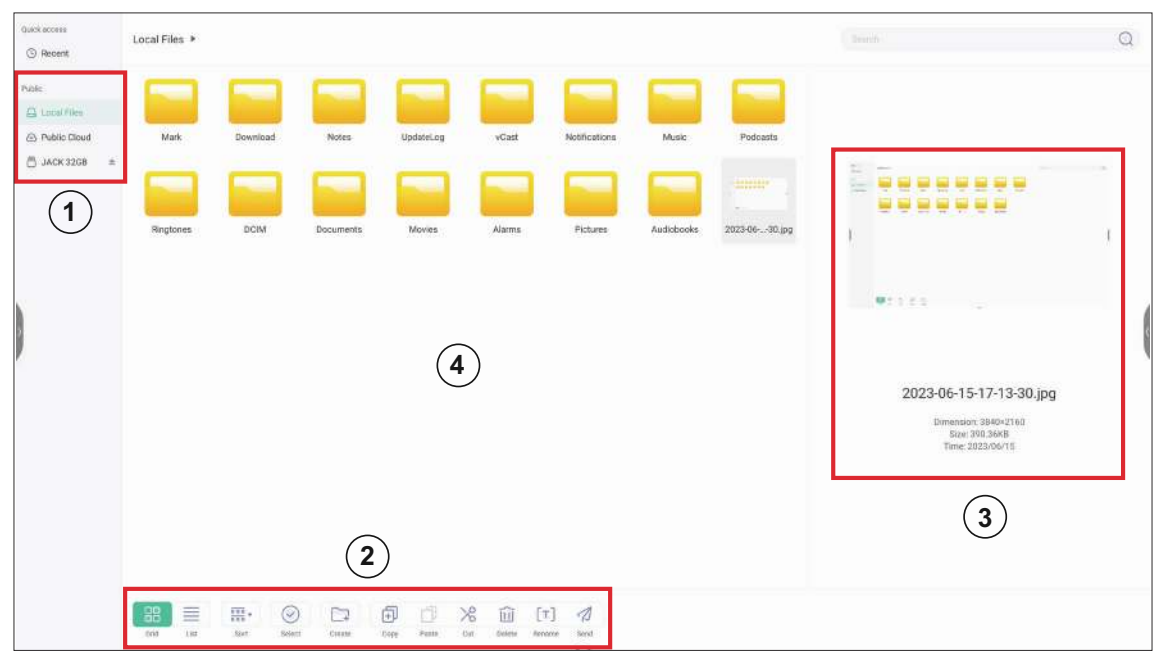
Other Default Applications

Chromium

Web browser for surfing the Internet.



Folders



1. Storage Device Display

Select the appropriate storage device.

2. Icons

Item		Description
	Grid	Display files by thumbnail view
	List	Display files by list view
	Sort	Sort the files
	Select	Select a file
	Create	Create a new folder
	Copy	Copy a file
	Paste	Paste a file
	Cut	Cut a file
	Delete	Delete a file
	Rename	Rename a file

	Send	Share a file
--	-------------	--------------

3. File Information

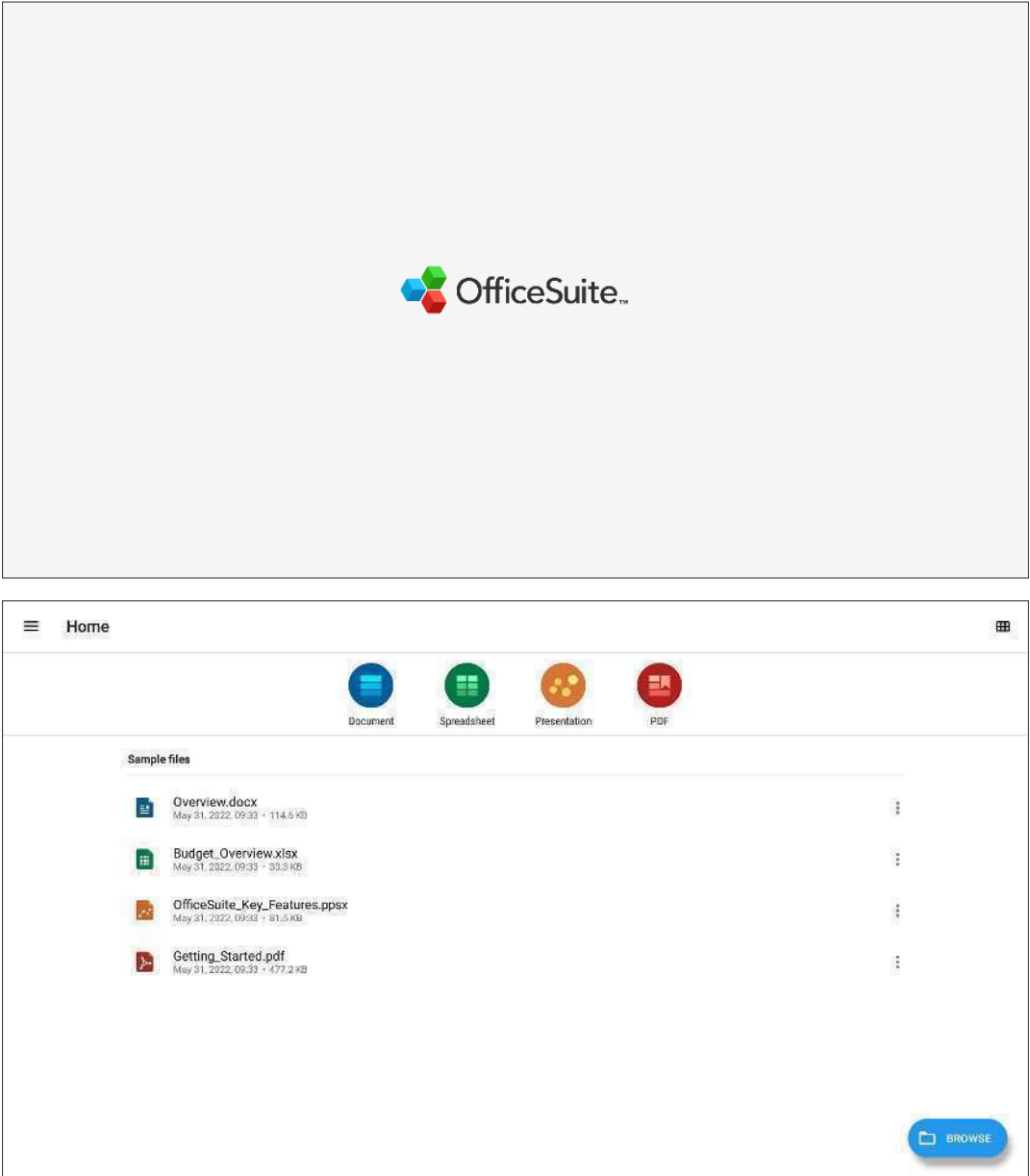
Preview the file, show the file's name, size, resolution, and creation date.

4. Main Display Area

Display files of corresponding type.

OfficeSuite

Create, edit, and view Documents, Spreadsheets, Presentations, and PDFs.



Screen Lock

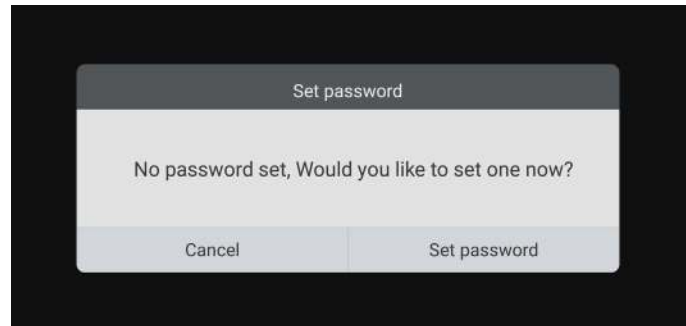
Set a screen lock password and enable screen lock.

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

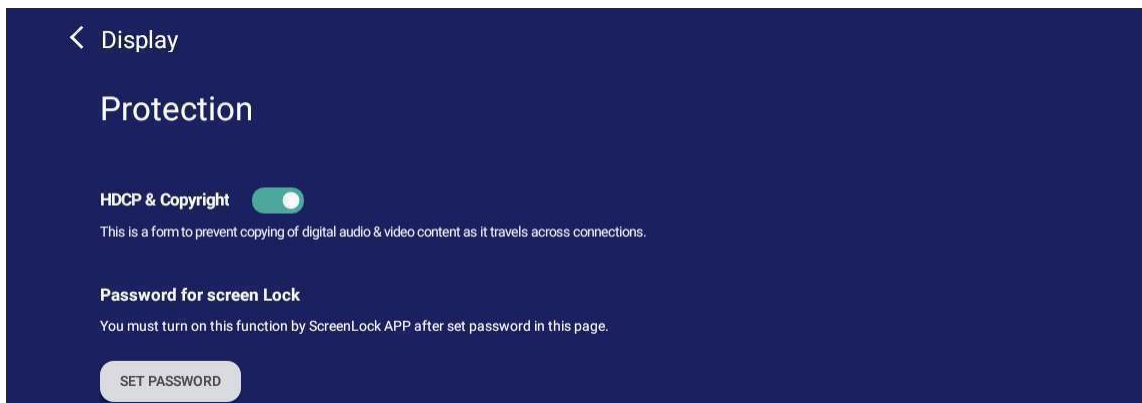
To set a screen lock password:

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

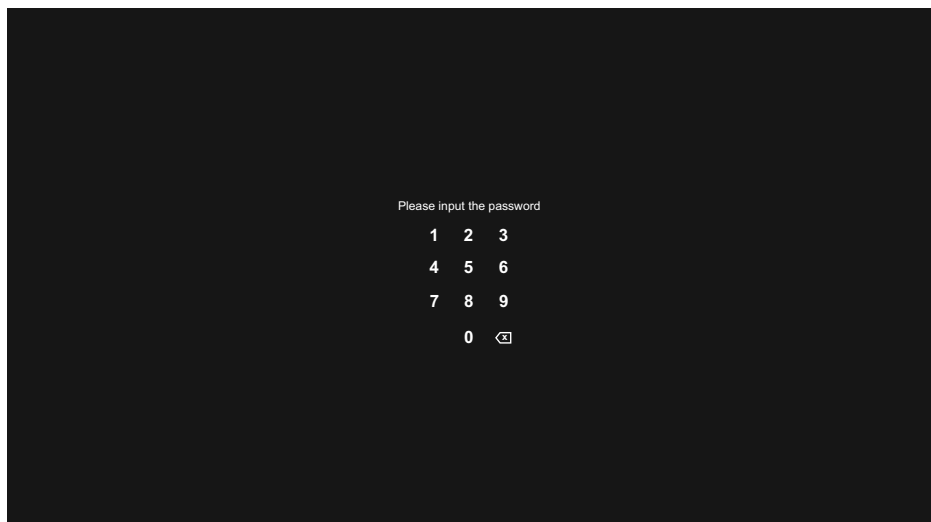
NOTE: If you select the Screen Lock icon and no password has been set, the below prompt will appear:



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

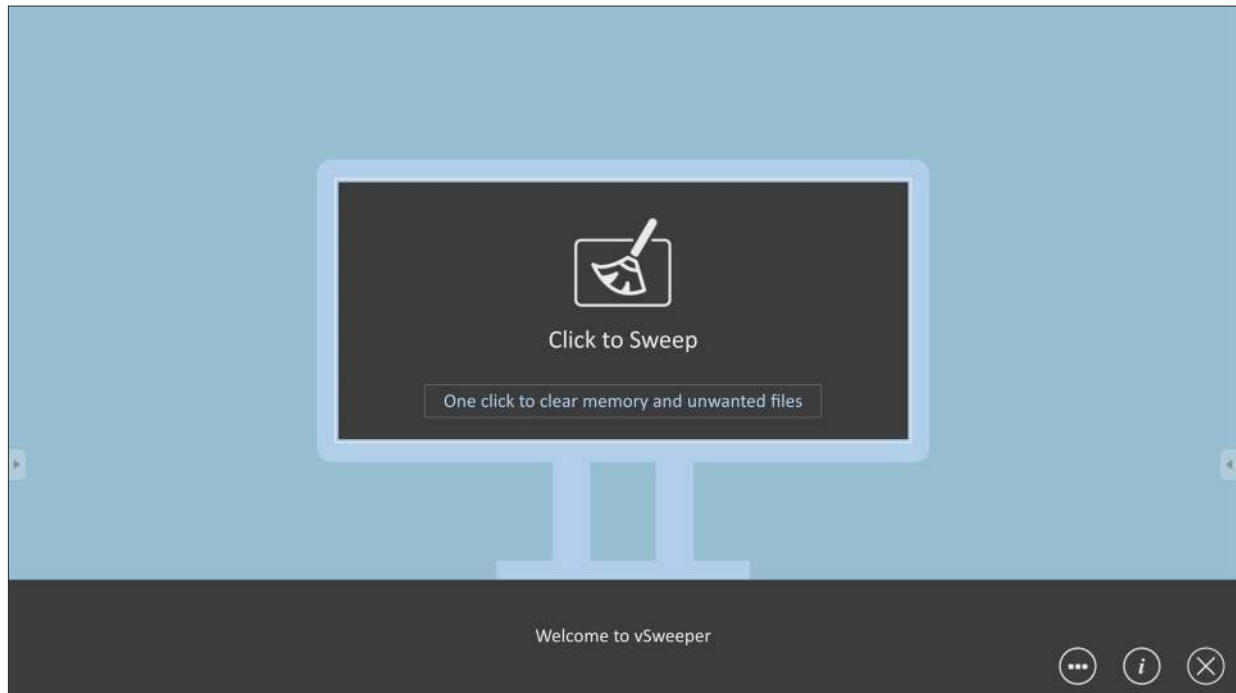


3. Now when selecting the Screen Lock icon, the screen will be locked.

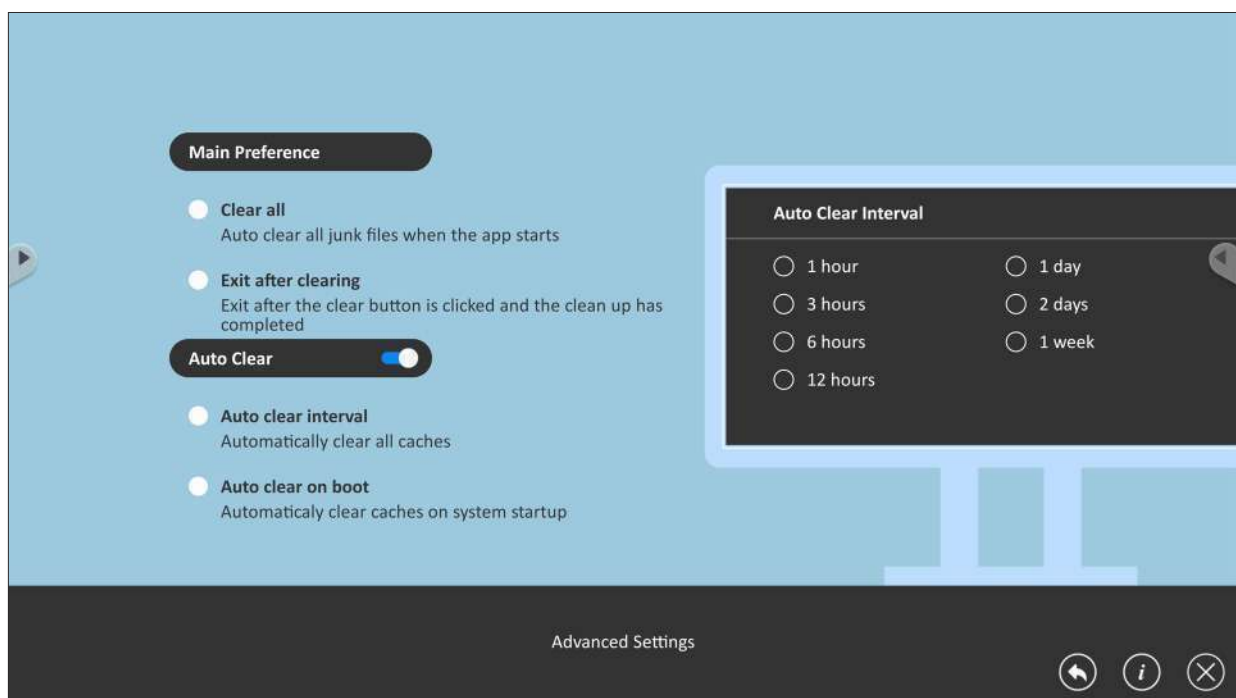


vSweeper

Clear unnecessary data and unwanted files.



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



RS-232 Protocol

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

The protocol contains three command sections:

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

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

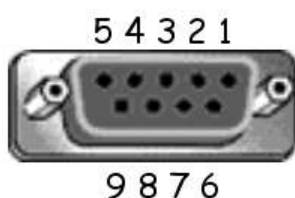
Description

RS-232 Hardware Specification

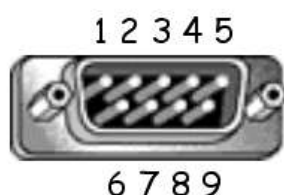
ViewSonic LFD communication port on the rear side:

1. Connector type: DSUB 9-Pin Male (or 3.5 mm barrel connector)
2. Use of crossover (null modem) cable for connection
3. Pin Assignment:

Female DSUB 9-Pin



Male DSUB 9-Pin



3.5 mm barrel connector (alternative for limited space)



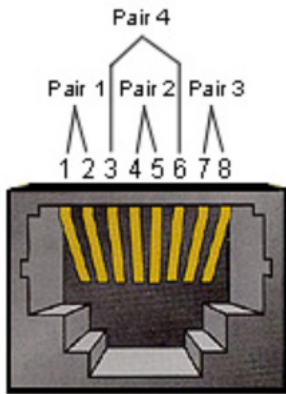
Pin #	Signal	Remark
1	NC	
2	RXD	Input to Display
3	TXD	Output from Display
4	NC	
5	GND	
6	NC	
7	NC	
8	NC	
9	NC	Provide +5V/2A power for external specific dongle *3.0
frame	GND	

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	

RS232 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)
- Cross subnet: No
- Logon Credentials: No

Command Message Reference

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

1. If the message is received correctly it will send "+" (02Bh) followed by "CR" (00Dh)
2. If the message is received incorrectly it will send "-" (02Dh) followed by "CR" (00Dh)

Protocol

Set-Function Listing

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

Set-Function Description:

Length:	Total Byte of Message excluding "CR"
LFD ID	Identification for each of Display (01~98; default is 01) ID "99" means to apply the set command for all connected displays. Under such circumstances, only ID#1 display has to reply. The LFD ID can be set via the OSD menu for each Display.
Command Type	Identify command type, "s" (0x73h): Set Command "+" (0x2Bh): Valid command Reply "- " (0x2Dh): Invalid command Reply
Command:	Function command code: One byte ASCII code.
Value[1~3]:	Three bytes ASCII that defines the value.
CR	0x0D

Set-Function Format

Send: (Command Type="s")

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

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

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

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

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

Send (Hex Format)

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

Reply (Hex Format)

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

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

Send (Hex Format)

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

Reply (Hex Format)

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

Set-Function Table

A. Basic Function

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

Set Function	Length	ID	Command	Command		Value Range	Comments
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
Number *3.1.1	8		s	@	40	000~009	
Key Pad *3.1.1	8		s	A	41	000: UP 001: DOWN 002: LEFT 003: RIGHT 004: ENTER 005: INPUT 006: MENU/(EXIT) 007: EXIT	
Remote Control	8		s	B	42	000: Disable 001: Enable 002: Pass through	Disable: RCU will be no function Enabled: RCU controls normally Pass through: Display will bypass the RC code to connected device via the RS232 port, but not react itself.
Restore default	8		s	~	7E	000	Recover to factory setting

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 "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 "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 not 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 004: HDMI2 004: HDMI3 004: HDMI4 005: DVI 006: VGA1 006: VGA2 006: VGA3 007: Slot-in PC (OPS/SDM)/HDBT 008: Internal memory 009: DP 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

H MONITORS					Position
V MONITORS	1	2	3	4	
	6	7	8	9	
	11	12	13	14	
	16	17	18	19	
	21	22	23	24	

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 time ^{*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 model with LAN) Reply in new 32-byte format*3.2.0
Get-IP address *3.2.0	8		g	6	36	000	(for the model 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 getting a 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 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 remote control shall have no effect on the Display function. For example: “Volume+” will not change the volume of the Display, but instead only sends 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	

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

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

VGA Mode

Resolution	Refresh Rate (@)
640 x 480	60Hz, 72Hz, 75Hz
720 x 400	70Hz
800 x 600	56Hz, 60Hz, 72Hz, 75Hz
832 x 624	75Hz
1024 x 768	60Hz, 70Hz, 75Hz
1152 x 864	60Hz, 75Hz
1152 x 870	75Hz
1280 x 768	60Hz, 75Hz
1280 x 960	60Hz
1280 x 1024	60Hz, 75Hz
1360 x 768	60Hz
1366 x 768	60Hz
1440 x 900	60Hz, 75Hz
1400 x 1050	60Hz, 75Hz
1600 x 1200	60Hz
1680 x 1050	60Hz
1920 x 1080	60Hz
1920 x 1200	60Hz

HDMI Mode

Resolution	Refresh Rate (@)
640 x 480	60Hz, 72Hz
720 x 400	70Hz
800 x 600	60Hz, 72Hz
1024x768	60Hz, 70Hz, 75Hz
1280x800	60Hz
1280x1024	60Hz
1360x768	60Hz
1440x900	60Hz
1680x1050	60Hz
1920x1080	60Hz
3840x2160	30Hz, 60Hz
480i	60Hz
480p	59Hz, 60Hz
576i	50Hz
720p	50Hz, 60Hz
576p	50Hz
1080i	50Hz, 60Hz
1080p	50Hz, 60Hz

Troubleshooting

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

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

PC Mode

Problem or Issue	Possible Solutions
No PC signal	1. Check the display settings. 2. Check the display resolution. 3. Adjust the Hs & Vs (synchronization) settings using the OSD menu.
Background streaking	1. Choose auto adjust. 2. Adjust clock and phase.
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.

FCC Compliance Statement

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

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

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

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

Industry Canada Statement

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

CE Conformity for European Countries



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

The following information is only for EU-member states:

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



Declaration of RoHS2 Compliance

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

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

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

- 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/go-green-with-viewsonic>

Taiwan:

<https://recycle.epa.gov.tw/>

Copyright Information

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Macintosh and Power Macintosh are registered trademarks of Apple Inc.

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

ViewSonic®, 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.

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 Juárez 284 local 2 Col. Bugambillas C.P: 83140 Tel: 01-66-22-14-9005 E-Mail: disc2@hmo.megared.net.mx	Villahermosa: Compumantenimientos 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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