

## >IFP4320

# **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 in the upper right corner of our website. "Antes de operar su equipo lea cu idadosamente las instrucciones en este manual"

Model No. VS18454 P/N: IFP4320

## 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

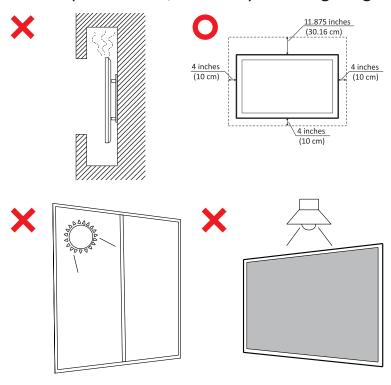
Please read the following **Safety Precautions** before you start using the device.

- 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<sup>®</sup>. It is dangerous to continue using the device.
- The device is a monitor with an LED backlight intended for general office use.
- Do not attempt to circumvent the safety provisions of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the plug does not fit into your outlet, obtain an adapter and do not attempt to force the plug into the outlet.
- When connecting to a power outlet, DO NOT remove the grounding prong. Please ensure grounding prongs are NEVER REMOVED.
- Protect the power cord from being treaded upon or pinched, particularly at the plug, and at the point where it emerges from the equipment. Ensure that the power outlet is located near the equipment so that it is easily accessible.

- Only use attachments/accessories specified by the manufacturer.
- When a cart is used, use with caution when moving the cart/equipment combination to avoid injury from tipping over.



- Disconnect the power plug from the AC outlet if the device is not being used for a long period of time.
- Place the device in a well-ventilated area. Do not place anything on the device that prevents heat dissipation. Also, avoid any direct lighting.



#### CAUTION:

Immediately unplug your device from the wall outlet and refer servicing to a qualified service personnel under the following conditions:

- » When the power supply cord or plug is damaged.
- » If liquid has been spilled onto or objects have fallen into the unit.
- » If the unit has been exposed to moisture.
- » If the unit does not operate normally or has been dropped.

Never place the device in an unstable location. The device may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- » Using cabinets or stands recommended by the manufacturer of the device.
- » Only using furniture that can safely support the device.
- » Ensuring the device is not overhanging the edge of the supporting furniture.
- » Not placing the device on tall furniture (e.g., cupboards or bookcases) without anchoring both the furniture and the device to a suitable support.
- » Not placing the device on cloth or other materials that may be located between the device and supporting furniture.
- » Educating children about the dangers of climbing on furniture to reach the device or its controls.

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

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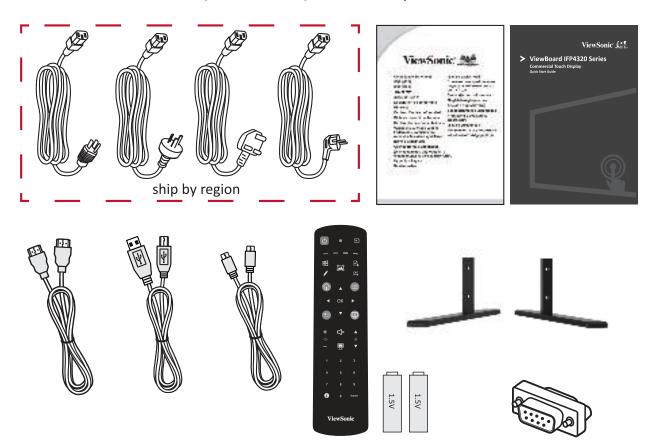
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## > Introduction

## **Package Contents**

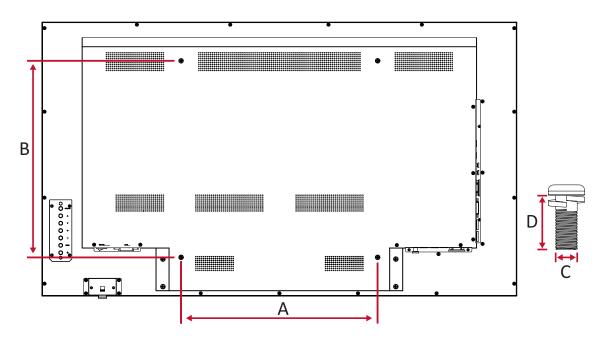
- HDMI cable (3.28 ft/1 m)
- Power cable (5.9 ft/1.8 m)
- Remote control
- AAA battery x 2
- USB cable for touch (3.28 ft /1 m)
- Quick Start Guide
- RS-232 adapter
- USB Type-C cable (3.28 ft /1 m)
- STND-056
- Compliance Statement



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

## **Wall Mounting Specifications (VESA)**

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



Model	VESA Spec. (A x B)	Standard Screw (C x D)	Quantity
IFP4320 Series	400 x 400 mm	M6 x 25 mm	4

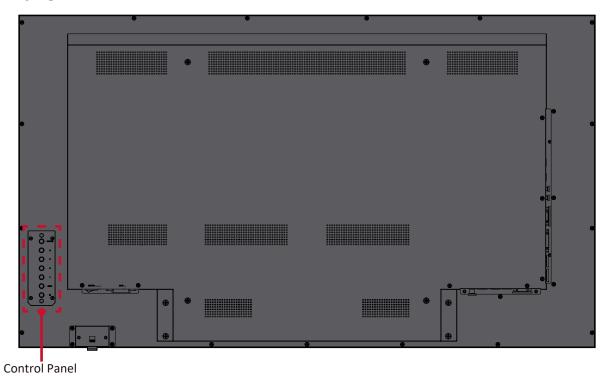
**NOTE:** Do not use screws that are longer than the standard dimension, as they may cause damage to the inside of the display.

## **Product Overview**

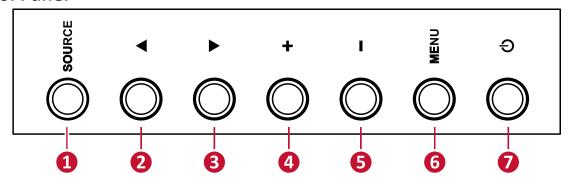
## **Front Panel**



### **Rear Panel**

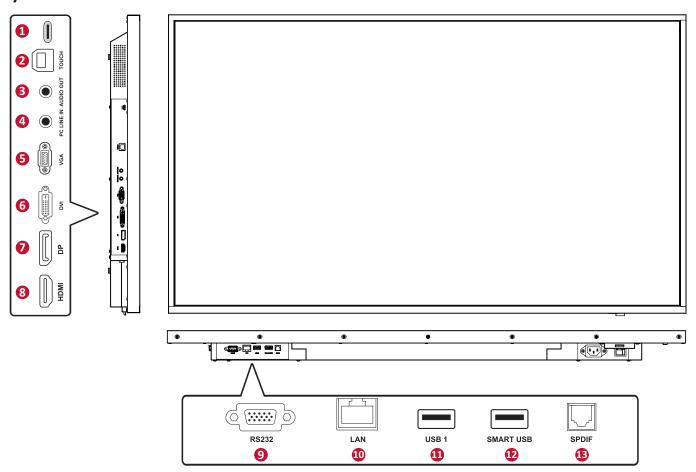


## **Control Panel**



Number	Description
	Enter the signal source selection menu.
1	Select the signal source.
	Confirm the operation under MENU.
2	In the OCD Many, proceed by leave to calcut an itam
3	In the OSD Menu, press the keys to select an item.
4	Increase the volume level.
4	<ul> <li>In the OSD Menu, adjust the value of the selected item.</li> </ul>
-	Decrease the volume level.
5	<ul> <li>In the OSD Menu, adjust the value of the selected item.</li> </ul>
	Enter the Main Menu.
6	Confirm the operation in the SOURCE menu.
7	Press to turn on/off the display's backlight.
	Press and hold to turn on/off the device.

## I/O Panels



Number	Port	Description
1	USB Type-C	USB Type-C input; connect to a PC with USB Type-C output.
2	TOUCH	<ul> <li>Touch signal output to external PC.</li> <li>After connection (with an external PC), the device connected to the USB 3.0 port can directly be used by the external PC.</li> </ul>
3	Audio Out	Audio output to an external speaker/headset.
4	PC Line In	External computer audio input.
5	VGA	External computer video input.
6	DVI	DVI input; connect to a PC with DVI output.
7	DisplayPort	DisplayPort input; connect to a PC with DisplayPort output.
8	HDMI	High definition input; connect to a PC with HDMI output, set-top box, or other video device.
9	RS-232	Serial interface; used for mutual transfer of data between devices.
10	LAN	Standard RJ45 (10M/100M/1000M) Internet connection interface.
11	USB 1	Connect USB devices such as hard disks, keyboard, mouse, etc.
12	Smart USB	Connect USB devices such as hard disks, keyboard, mouse, etc. Automatically switches between PC and ViewBoard.
13	SPDIF	Multichannel sound via optical signals.

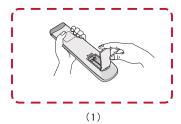
## **Remote Control**

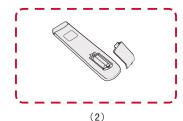
lumber	Description		
1	Power on/off		
2	Screen capture		
3	Startup writing		
4	Back to the ViewBoard player Home Screen	2	
5	Back/Return to the previous page	3 EXIT	
6	Increase/Decrease the Volume		
7	Number Keypad	4	
8	Information	OK •	
9	Input source selection		
	Media control buttons:	5	
	• Red: Play/Pause		
10	• Green: Stop	+ <\ \times \	
	Yellow: Forwards	6 —	
	Blue: Backwards		
11	Settings menu	1 2 3	
12	Up/Down/Right/Left/OK	4 5 6	
13	Freeze screen	7 4 5 6	
14	Mute/Unmute	7 8 9	
15	Increase/Decrease Brightness	8 0 Aspect	
16	Blank Screen		
17	Adjust Aspect Ratio	ViewSonic	

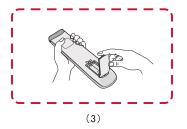
### **Inserting Remote Control Batteries**

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.







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

#### NOTE:

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

### **Remote Control Receiver Range**

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



### **Using Gestures**

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

### **Select and Deselect an Object (Clicking)**

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



### **Display Menu Options (Right-Clicking)**

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



### **Double-Clicking**

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



### **Moving an Object**

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



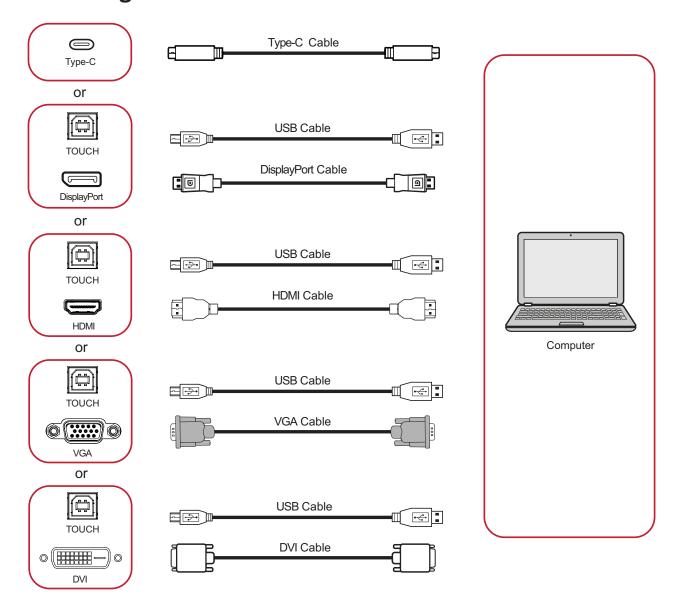
### **Erasing Digital Ink**

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



## > Making Connections

## **Connecting External Devices and Touch Connection**



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

### **USB Type-C Connection**

To connect via USB Type-C:

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

### **DisplayPort Connection**

To connect via DisplayPort:

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

#### **HDMI Connection**

To connect via HDMI:

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

#### **VGA Connection**

To connect via VGA:

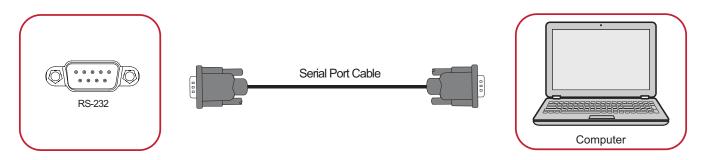
- Connect a VGA cable from your external device to the VGA port on the ViewBoard.
- **2.** Connect a USB cable to the external device from the **TOUCH** port of the ViewBoard.

#### **DVI Connection**

To connect via DVI:

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

### **RS-232 Connection**



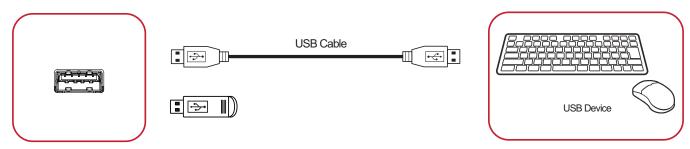
When you use a RS-232 serial port cable to connect your display to an external computer certain functions can be controlled remotely by the PC, including Power On/Off, Volume adjustment, Input select, Brightness, and more.

### **USB and Networking Connections**

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

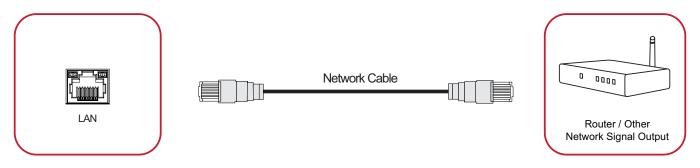
### **USB** Peripherals

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

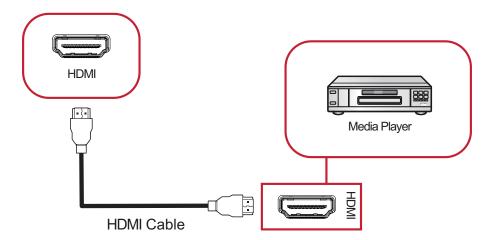


## Networking and Modem cables

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



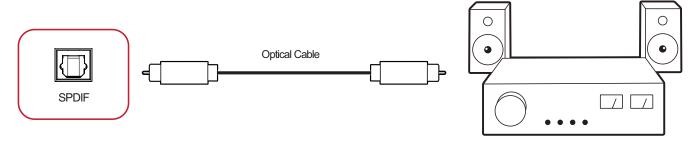
### **Media Player Connection**



To connect to a media player:

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

### **SPDIF Connection**



Power amplifier / Stereo equipment

To connect to an external sound system:

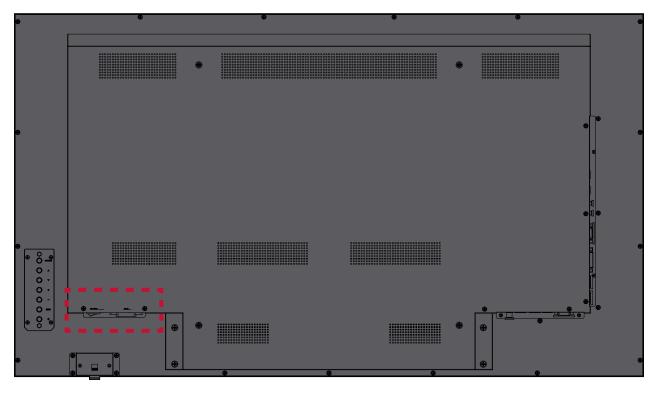
- **1.** Connect an optical cable from the **SPDIF** port to your sound system's optical connector.
- 2. Plug in the power cord of your ViewBoard, and turn on the power supply switch.
- **3.** Press the **U Power** button on the right-hand side of the ViewBoard to turn the screen on.

## Using Your ViewBoard

## Powering On/Off your ViewBoard

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

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

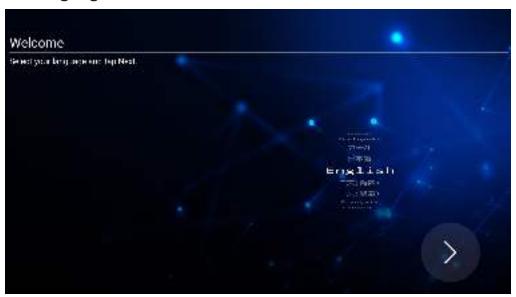


- 2. Press the U Power button to turn on the ViewBoard.
- **3.** To turn the ViewBoard off, press and hold the  $\circlearrowleft$  Power button.

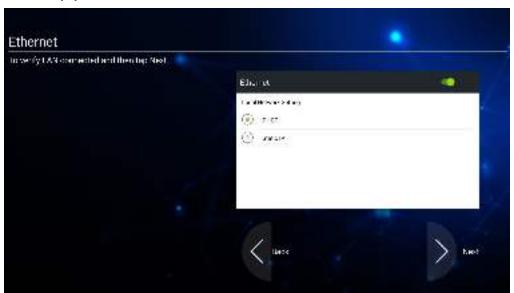
## **Initial Launch Setup**

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

1. Select your Language:



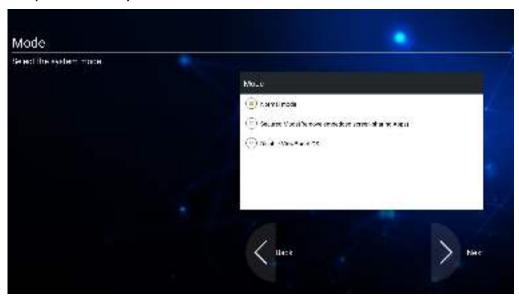
2. Setup and verify your LAN connection:



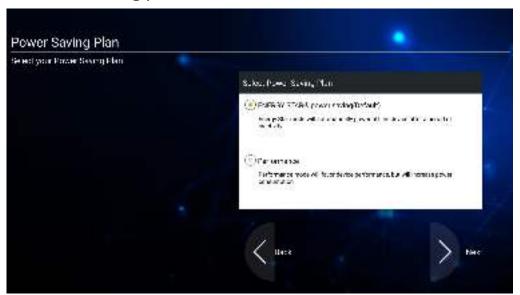
3. Select your Time Zone to set the Date and Time:



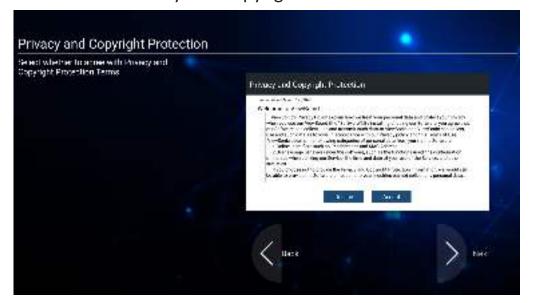
**4.** Select your preferred System Mode:



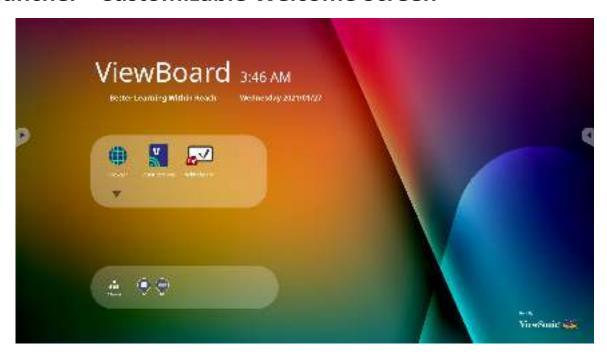
5. Select your Power Saving plan:



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

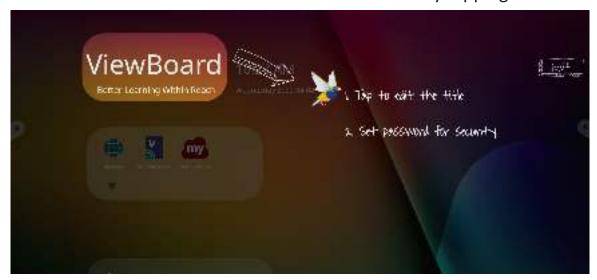


## vLauncher - Customizable Welcome Screen

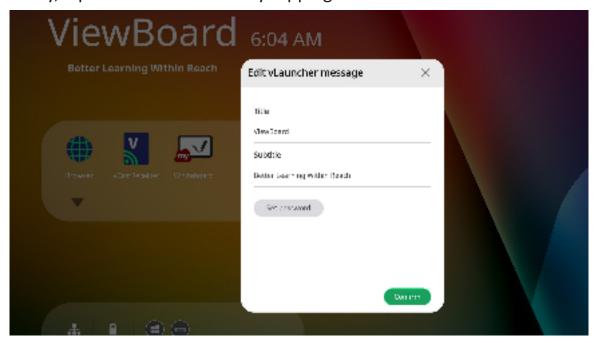


## vLauncher Message

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

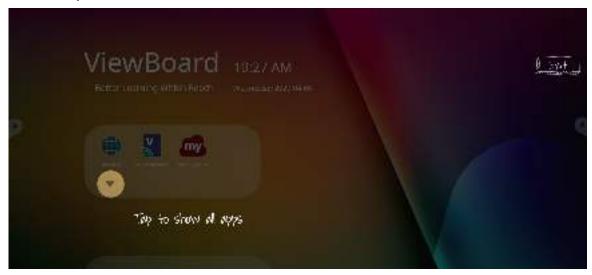


Additionally, a password can be set by tapping on **Set Password**.

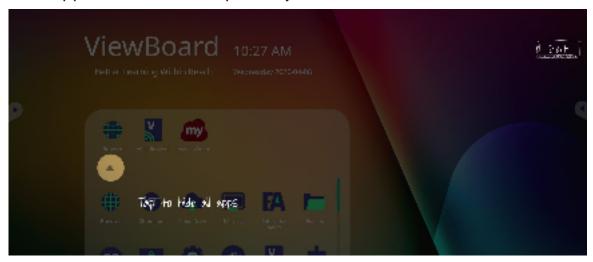


## **Applications**

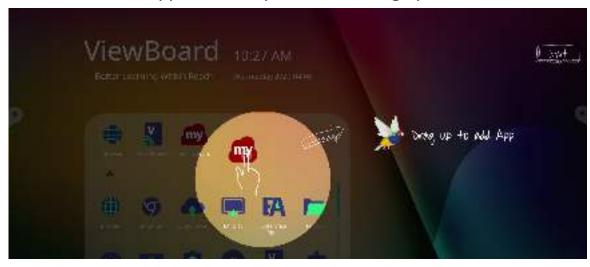
Installed applications can all be found on the welcome screen. To view all applications tap on the **Down Arrow**.



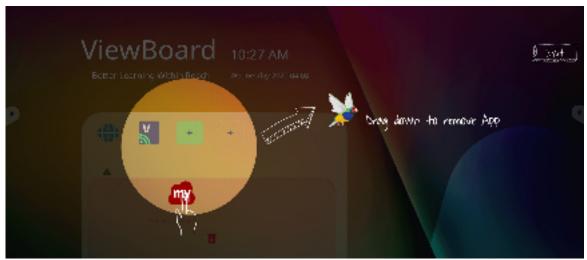
To hide the application drawer tap the **Up Arrow**.



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



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



### **Toolbar**

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



#### To launch a tool:

1. Tap a Toolbar trigger icon.

2. Tap on your desired tool icon.



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

Icon	Description
<b>5</b> Back	Return to the previous operation screen.  NOTE: Only for the Embedded Player source.
Home	Return to the Home Screen of the Embedded Player.
Recent	Display all embedded applications that are currently being used.
App	View all installed applications.
Whiteboard	Launch the Whiteboard software.
Recorder	Record, view, and save the on-screen content.

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

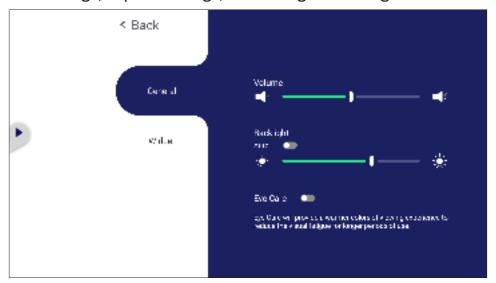
Icon	Description
	View more applications within the ViewBoard tool bar.
	Screen Freeze Spotlight Stopwatch Timer Hide/Unhide Screen Capture
	Screen Freeze  Convert the currently displayed content into a still image; then you can zoom in, zoom out, go back to full screen, and exit.
• • • More	Zoom in Zoom out Fullscreen Exit
	Spotlight Highlight the focus content zone. Tap the Setting icon to adjust the spotlight size and alpha blending effect.
	The Within Rest Tourists 25 10 1.01  X

# **Description** Icon <u>Stopwatch</u> Tapping **Start** will initiate the stopwatch. × 00:00.00 At any time, the stopwatch can be paused, resumed, split, or reset. 00:10.74 00:09.09 J 00:09.00 <u>Timer</u> More Access the countdown timer with an optional alarm setting. Touch and swipe to adjust the numeric values, then click **Start**. 23 00 00:01:00 Engelter (melbus) At any time, the countdown timer can be paused, resumed, or reset. 00:00:41 00:00:56 Hide/Unhide 🖛 🧀 Hide or unhide the Tool bar trigger icons.

lcon	Description
More	Screen Capture Take a screenshot of the current screen.
Settings	Access the General Settings.

## **On-Screen Display (OSD) Menu**

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



ViewBoard has two options for opening the OSD Menu:

**Option 1**Long press anywhere in the vLauncher background.



Option 2
Press the INPUT button on the remote control.



## **General Settings**







## To adjust the Backlight and enable/disable Eye Care:

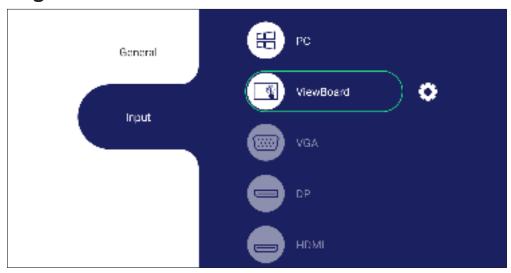
- **1.** Press **INPUT** on the remote control or long press the vLauncher background and touch **General** on-screen (if needed) to display the **General Settings** menu.
- **2.** Drag the brightness slider directly to adjust the backlight value, and/or touch On or Off to enable/disable the function.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



### To adjust the Volume:

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

## **Input Settings**



#### To select an Input Source:

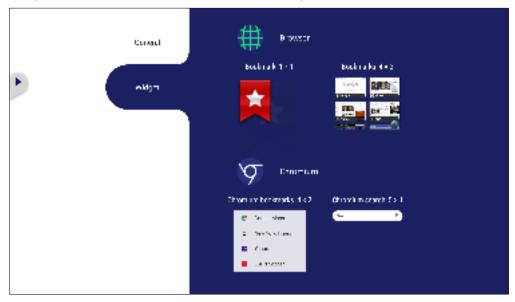
- **1.** Press **INPUT** on the remote control, press the setting button and on the front panel, or press the setting icon from the toolbar to display the **Input Settings** menu.
- 2. Press ▼/▲/◀/▶ to select the input source you want.NOTE: PC source will only display when the slot-in computer is connected.
- **3.** Press (a) on the remote control, or touch the input source.
- **4.** Press on the remote control, or touch a blank area outside of the menu to exit.

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



## Widget

**NOTE:** Only available for the ViewBoard Player source.



## To add a widget to the vLauncher welcome screen:

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



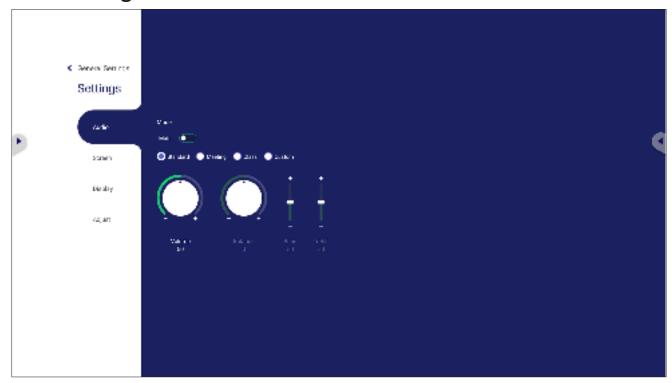
- 2. Select Widget.
- **3.** Touch and hold the desired widget.
- **4.** Drag the widget onto the vLauncher background.



## **Settings - HDMI & VGA Input Source**

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

## **Audio Settings**



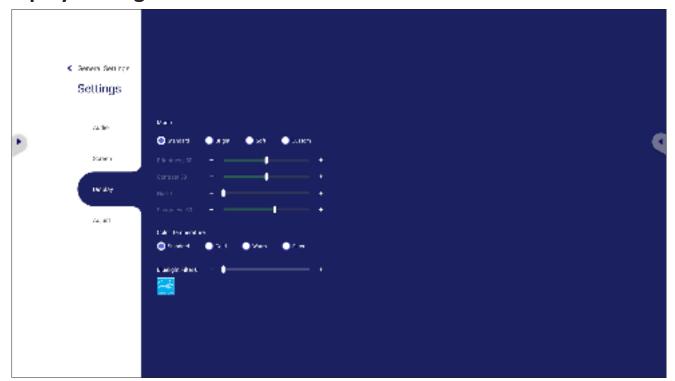
- **1.** Press ▼ on the remote control and select the **Audio** menu.
- **2.** Press  $\nabla/\triangle/\triangle/$  on the remote control or directly touch the option to select it.
- **3.** Adjust the Volume, Bass, Treble, and Balance directly by touching and adjusting each value, or with the remote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

## **Screen Settings**



- **1.** Press ▼ on the remote control and select the **Screen** menu.
- **2.** Press  $\nabla/\triangle/\blacktriangleleft/\triangleright$  on the remote control or directly touch the option to select it.
- **3.** Adjust your preference by touching each value directly, or with the remote control by pressing (a).
- **4.** Press on the remote control, or touch a blank area outside of the menu to exit.

## **Display Settings**



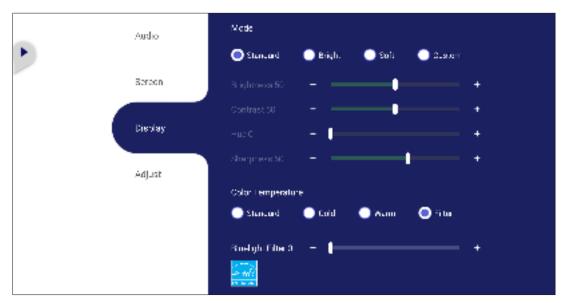
- **1.** Press ▼ on the remote control and select the **Display** menu.
- **2.** Press  $\nabla/\triangle/\triangle/$  on the remote control or directly touch the option to select it.
- **3.** Adjust the Brightness, Contrast, Hue, and Sharpness directly by touching and adjusting each value, or with the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



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

## Low Blue Light Filter and Eye Health

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



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

Mode: Standard (Brightness and Contrast are 50)

Color Temperature: Filter

Blue light Filter: 0

### **Calculating Breaks**

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

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

## Focus Fatigue (20-20-20 Rule)

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

## **Looking at Distant Objects**

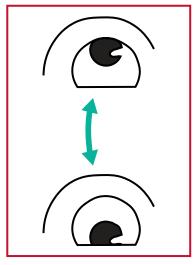
While taking breaks, users can further reduce eye strain and dryness by focusing on objects that are further away from them for 10-15 seconds, then gaze at something up close for 10-15 seconds. Repeat this up to 10 times. This exercise reduces the risk of your eyes' focusing ability to "lock up" after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

#### **Eye and Neck Exercises**

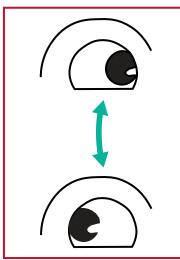
#### **Eye Exercises**

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

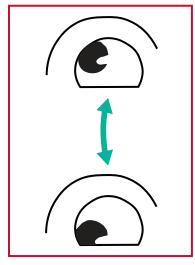
## Exercises for the eyes



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



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



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

Repeat for the left upper and left lower directions.

## **Neck Exercises**

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

## **Adjust Settings - (VGA Only)**



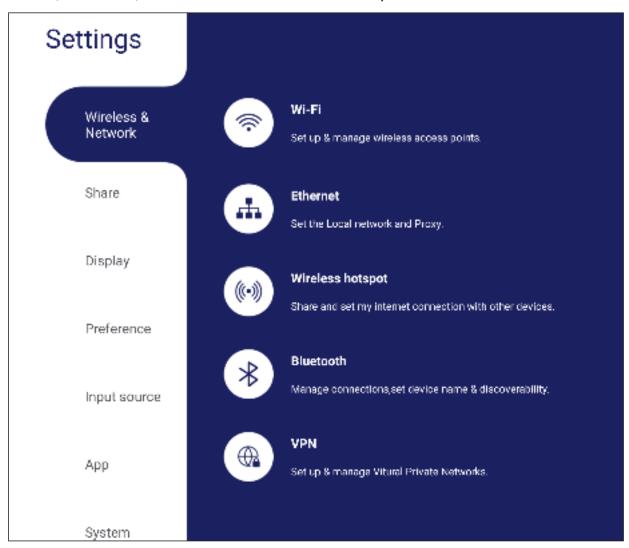
- **1.** Press ▼ on the remote control and select the **Adjust** menu.
- **2.** Press  $\nabla/\triangle/\triangleleft/\triangleright$  on the remote control or directly touch the option to select it.
- **3.** Adjust your preference by touching each value directly, or with the remote control by pressing (a).
- **4.** Press on the remote control, or touch a blank area outside of the menu to exit.

### **Settings - ViewBoard Player**

When the ViewBoard is in the ViewBoard Player input source, press  $\equiv$  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.

#### Wireless & Network

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 VS050B(optional) has been installed.
- Ethernet will disable automatically when Wi-Fi is enabled. Wi-Fi will disable automatically when Ethernet is enabled.
- Miracast will disable when Wireless hotspot is enabled. Wireless hotspot will disable when Miracast hotspot is enabled.

#### Wi-Fi

Setup and manage wireless access points.

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



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



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



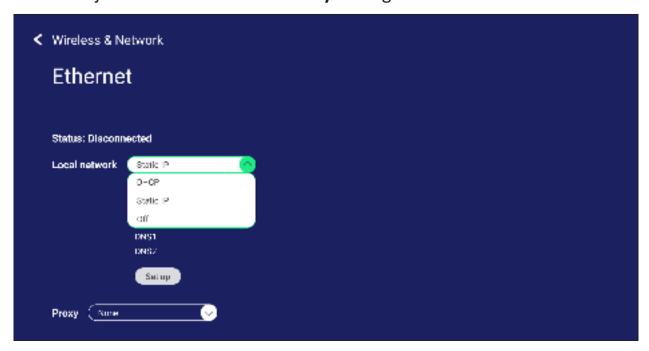
#### **Ethernet**

Set the local network and proxy.

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



• You can adjust Local network and Proxy settings as well.



### **Wireless Hotspot**

Set and share my internet connection with other devices.

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



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



#### **VPN**

Setup and manage Virtual Private Networks.

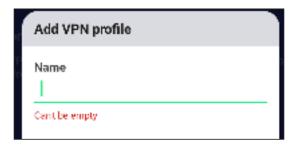


### To create a VPN profile:

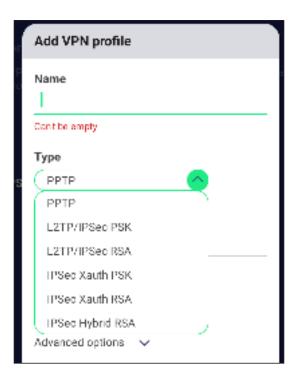
1. Go to: Settings > Wireless & Network > VPN and tap Add VPN.



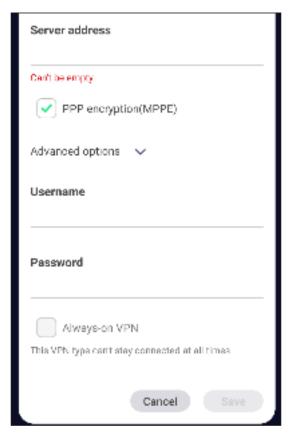
2. Key in the Name.



**3.** Select the VPN **Type**.



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



### Share

#### **SAMBA**

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

1. To access, go to: Settings > Share > SAMBA.



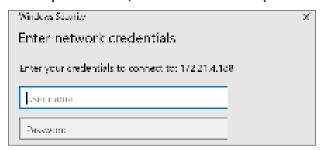
**2.** Tap the toggle button to enable the SAMBA Service, then set a password if needed.



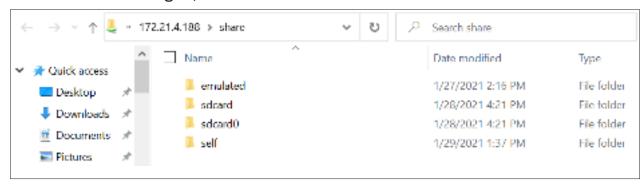
- **3.** Ensure the ViewBoard and client equipment are connected to the same network.
- **4.** Log in to the ViewBoard with the client equipment. Input the ViewBoard's IP address.



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

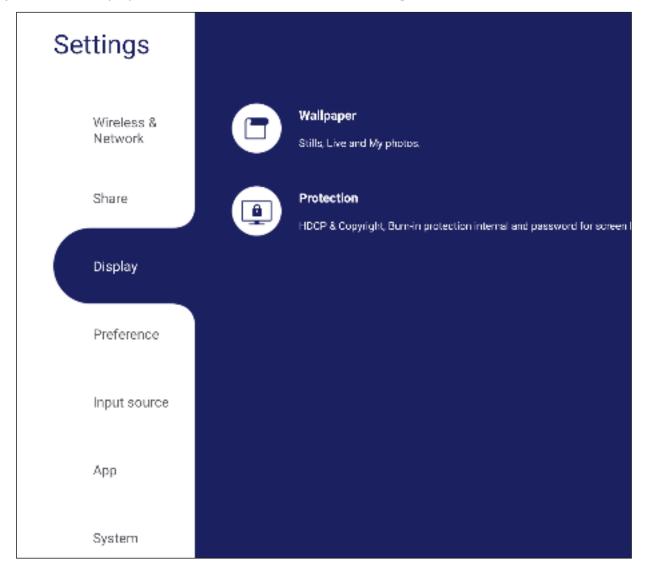


**6.** After a successful log in, the ViewBoard files will be available.



## **Display**

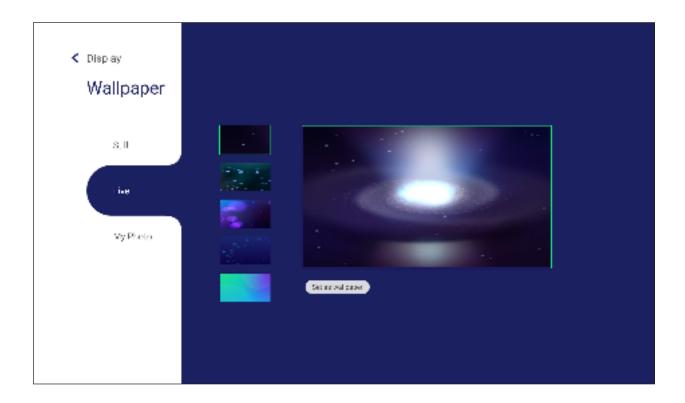
Adjust the Wallpaper, Theme, and Protection settings.

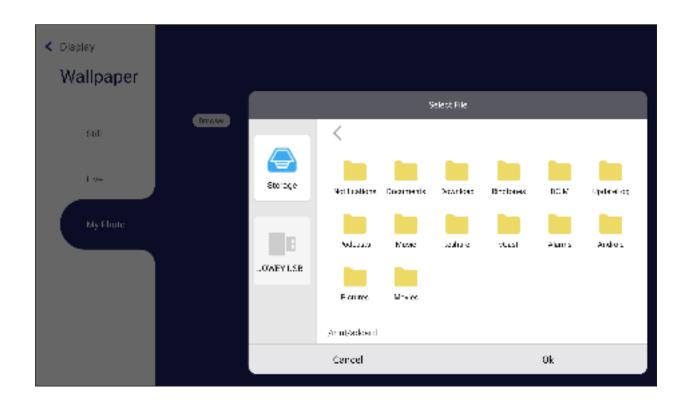


## Wallpaper

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.



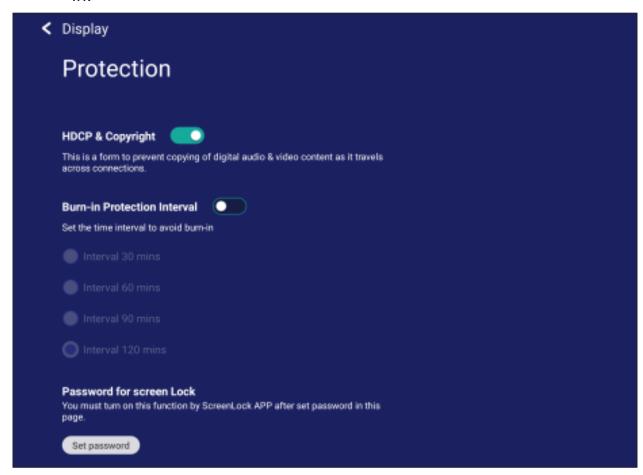




#### **Protection**

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

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

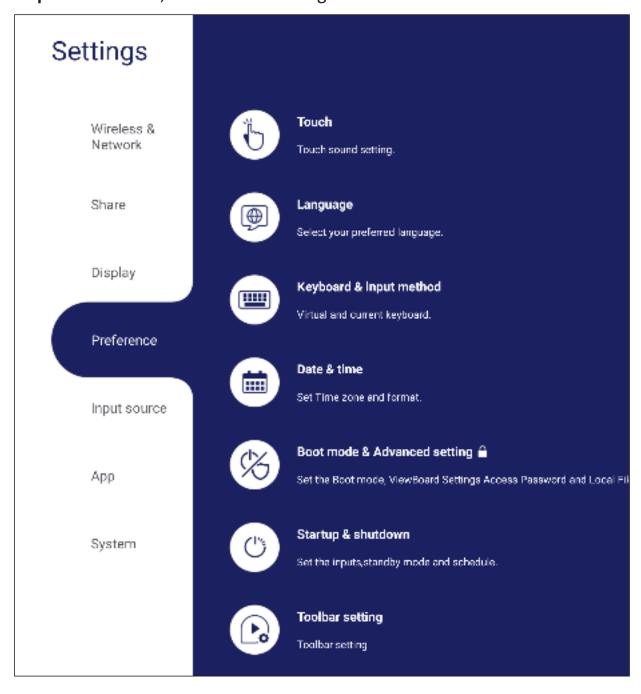


• To set up a password for screen lock, tap **Set Password** and enter the desired password.



#### **Preference**

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



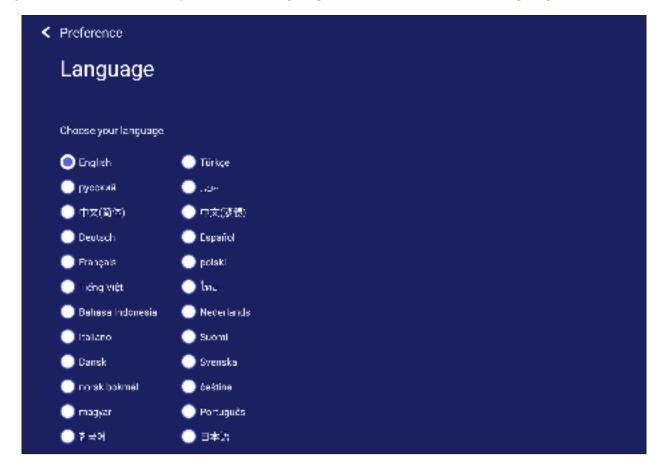
#### **Touch**

Adjust Touch Settings and toggle Touch Sounds On/Off.



## Language

Adjust and choose the preferred language from the available languages.

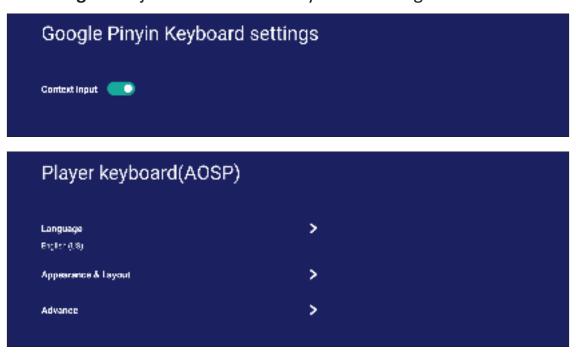


## **Keyboard & Input Method**

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



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



### **Date & Time**

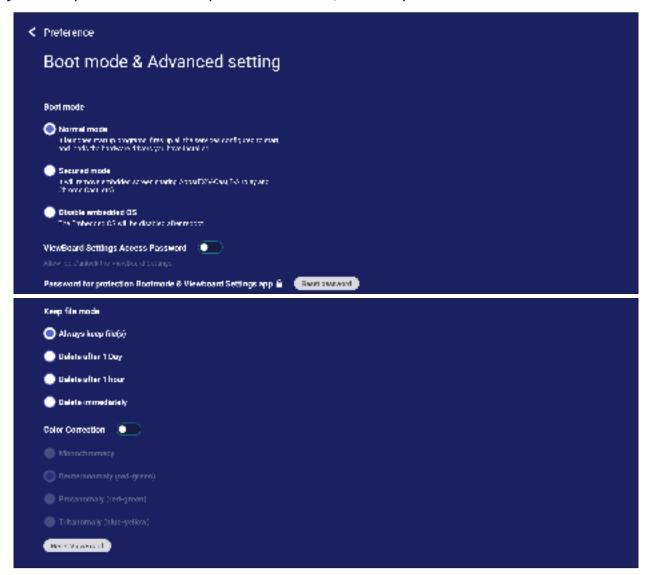
Set the system time and format.



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

#### **Boot Mode**

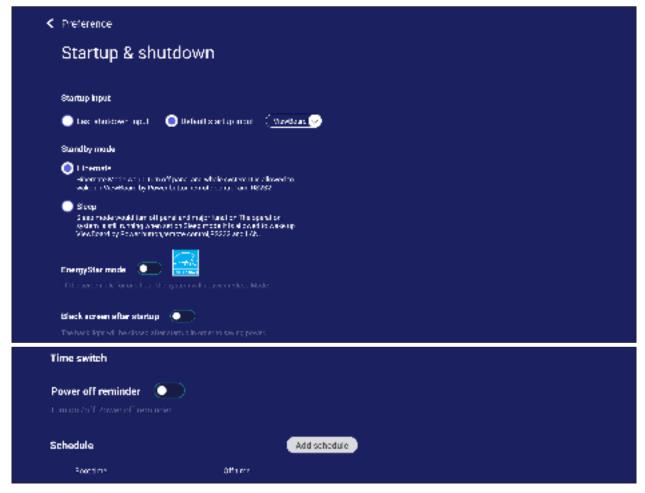
Adjust the preferred boot up mode and set/reset a password.



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

### **Startup & Shutdown**

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



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

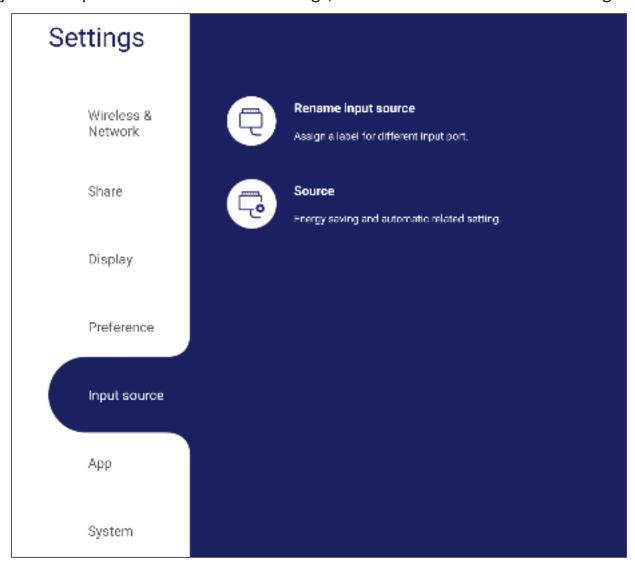
## **Toolbar Setting**

Adjust the Side toolbar settings.



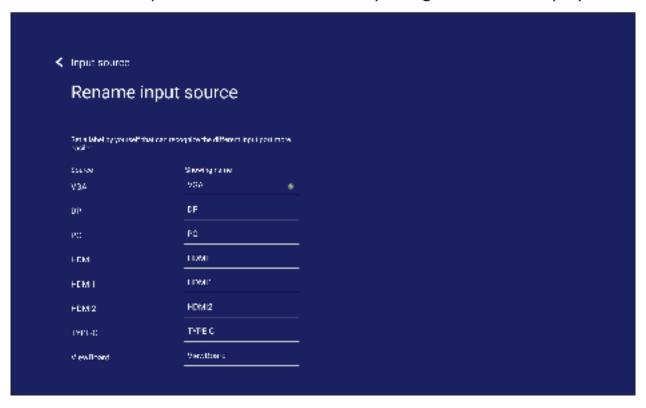
## **Input Source**

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



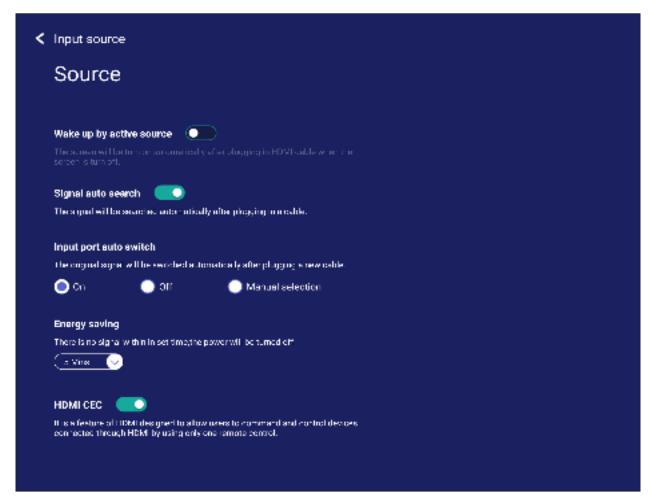
## **Rename Input Source**

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



#### Source

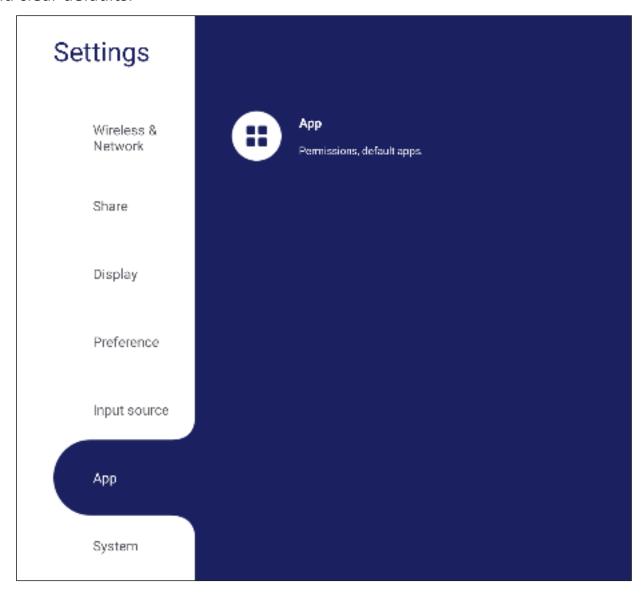
Toggle Wake up by active source, Signal auto search, and HDMI CEC and select Input port auto switch.



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

## **App**

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

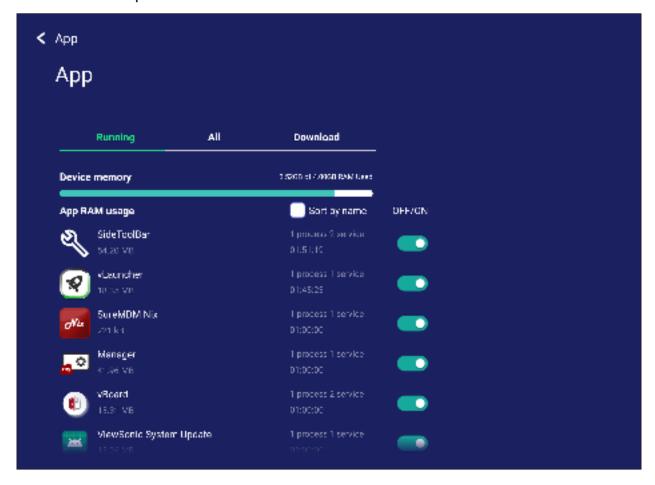


#### **NOTE:**

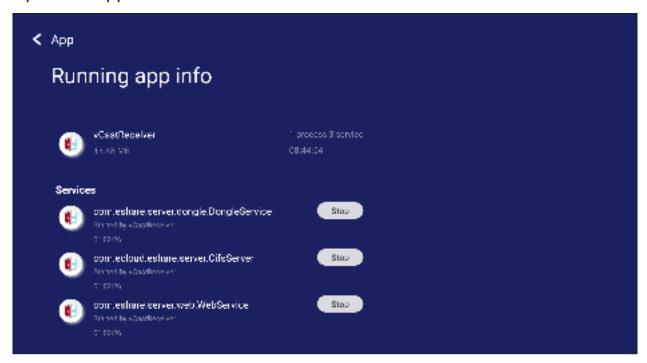
- Pre-loaded apps cannot be uninstalled.
- Not all apps support Clear Defaults.

#### **APP**

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



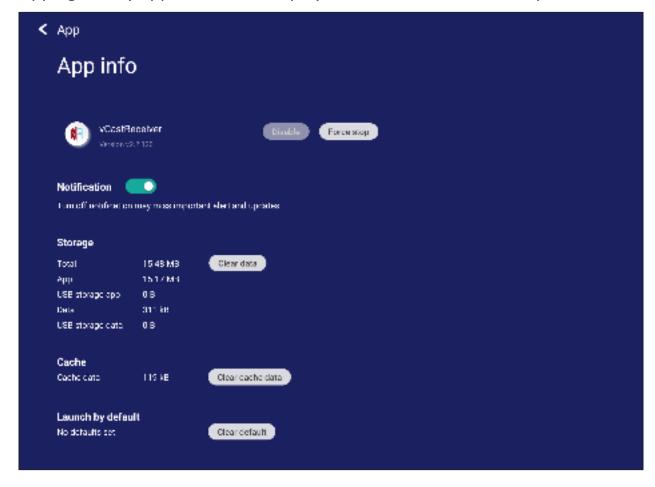
• By tapping on a running application, you can see more information, stop, or report the application.



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

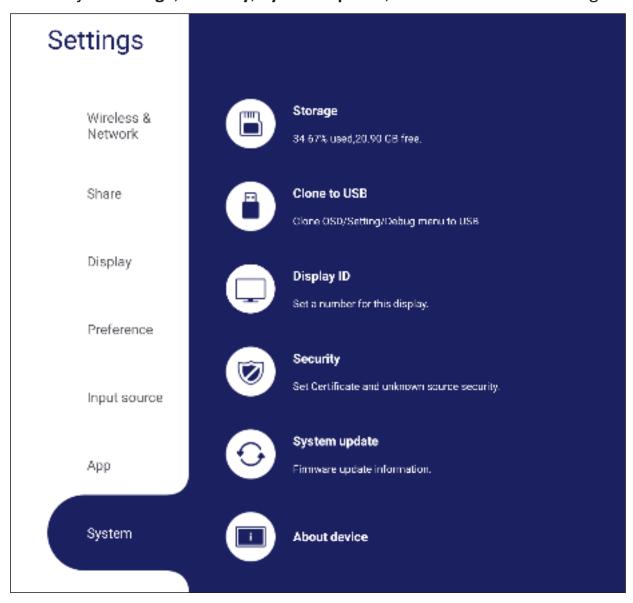


• Tapping on any application will display further information and options.



## **System**

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

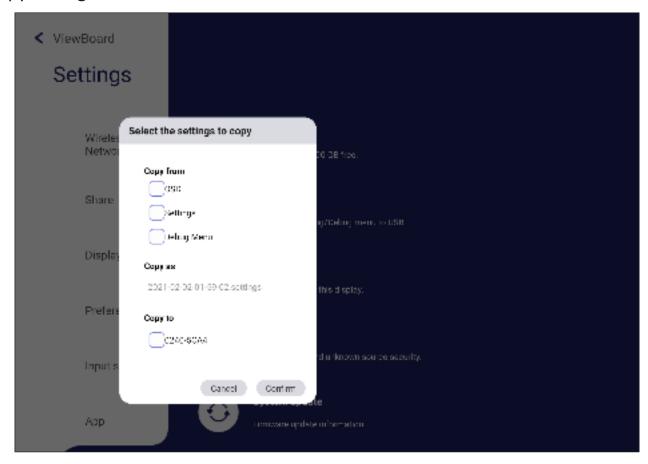


## **Storage**

Users can check the storage status of their ViewBoard.

## **Clone to USB**

Copy settings to an external USB drive.

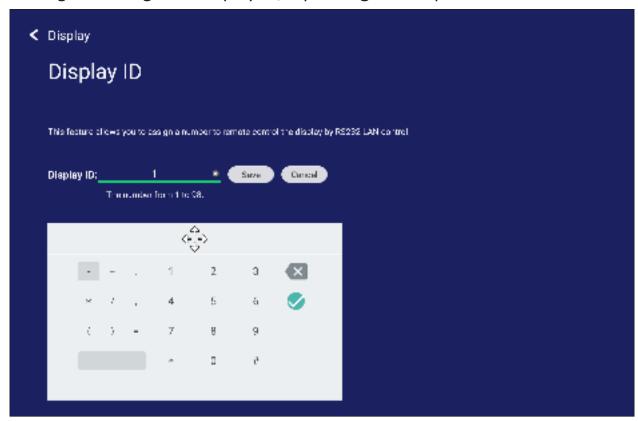


## **Display ID**

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



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



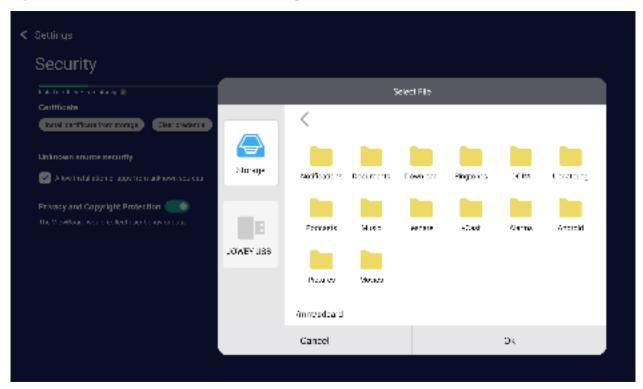
**NOTE:** The Display ID is for RS-232 users, and the range is 01~99.

## **Security**

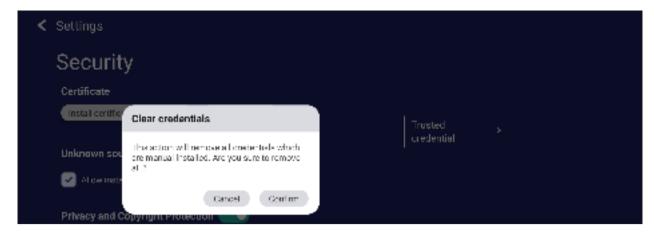
Review **Certificate**, **Trusted Credential** storage, and **Unknown sources** install settings.



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

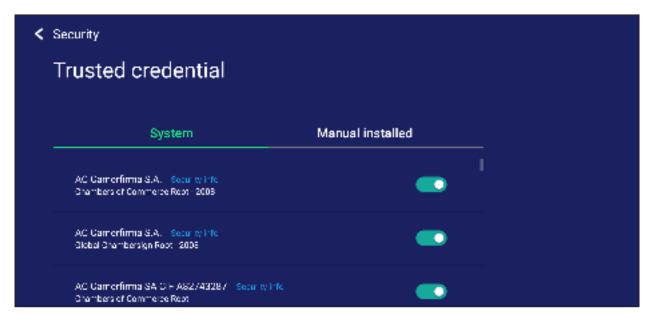


• Selecting Clear Credentials will remove all manually installed credentials.

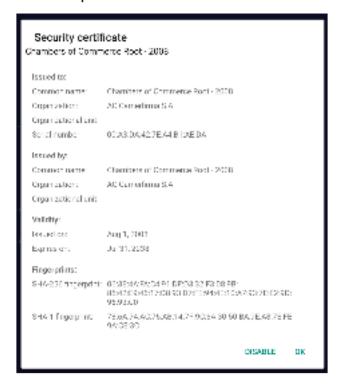


**NOTE:** Pre-loaded credentials cannot be cleared.

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



• Tapping on a credential will provide more detailed information.



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



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

## **Privacy and Copyright Protection**

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



## **System Update**

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



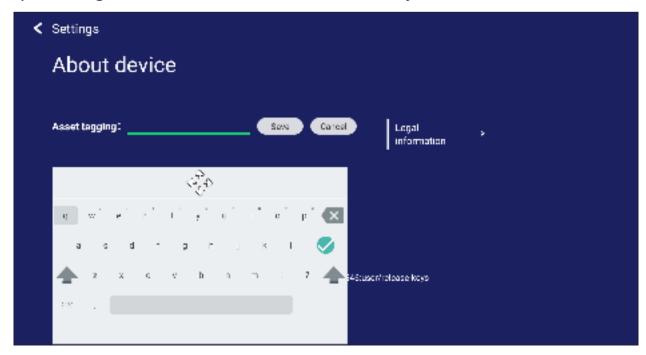
Item	Description				
Auto Update	When the display is off, the system will automatically check for a new version. If a new version is found, the system will automatically update. After the update is complete, the system will turn off.				
Schedule	Set the update time.				
Manual Update	Update the software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

#### **About Device**

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



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



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



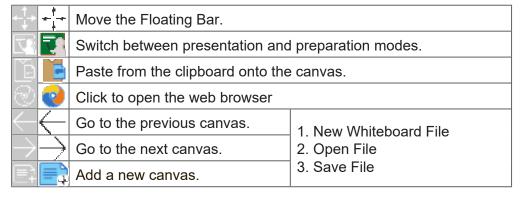
# > Embedded Applications and Settings

# **Embedded Digital Whiteboarding App**

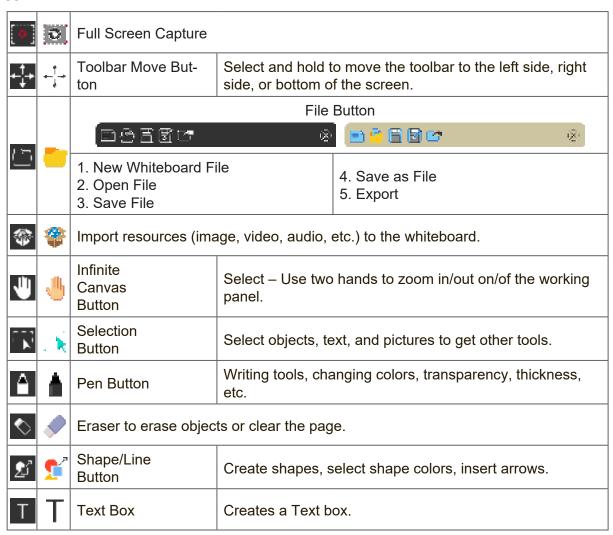
Within ViewBoard, ViewSonic offers the embedded digital whiteboarding app, Whiteboard.

#### Whiteboard

#### **Floating Bar**



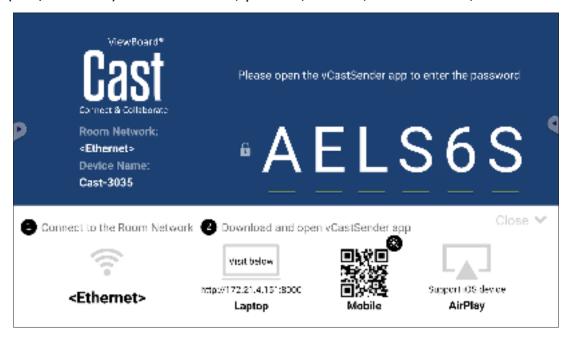
#### **Toolbar**



1	1	Undo Button	Undo previous actions.					
<b>(</b>	-	Redo Button	o Button Redo previous actions.					
1	1	Page Toggle Button	Select pages son pages delete pages					
(2)	<b>2</b>	Show or hide the current host information.						
<b>a</b>		Whiteboard background management menu.						

## **ViewBoard Cast**

Working with ViewBoard® Cast software, the vCastReceiver app, 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

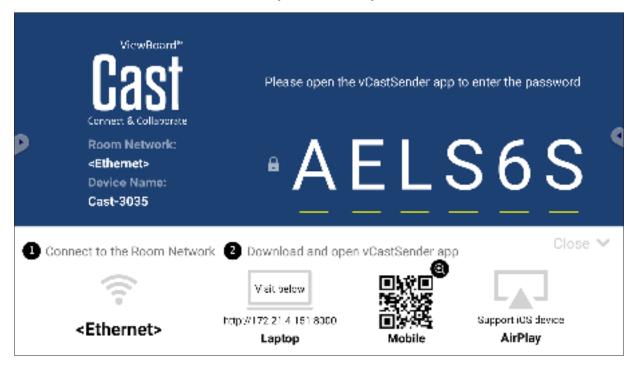
• UDP: 48689 and 25123

#### Port and DNS activation:

• Port: 8001

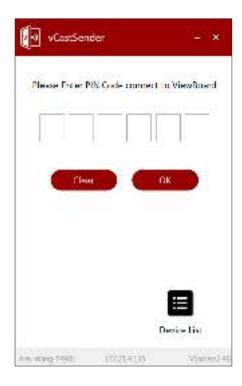
DNS: h1.ee-share.com

## 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 enter the PIN Code or click Device List, then click the connect icon next to the Device Name.





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.



## Screen Recorder

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



To launch the Screen Recorder application:

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

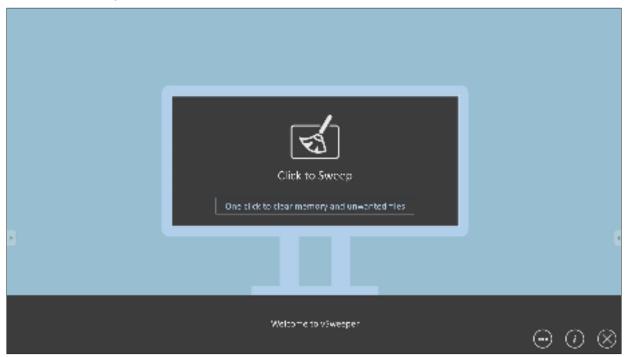


- **3.** Select *Start Now* and a three (3) second countdown will begin. Screen recording will begin immediately after the countdown.
- **4.** After stopping the recording, you will be able to preview the video, save it, or discard it.

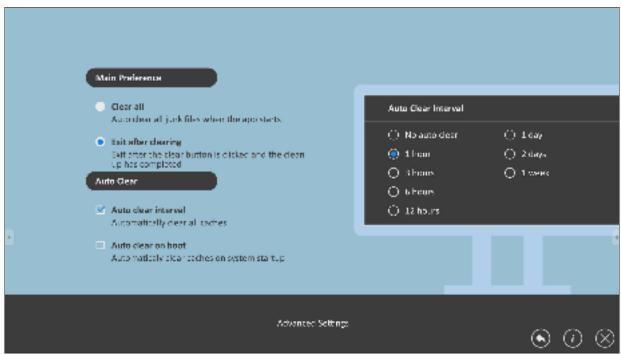
# **Other Default Applications**

## vSweeper

Clear unnecessary data and unwanted files.



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



#### **Screen Lock**

Set a screen lock password and enable screen lock.

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

To set a screen lock password:

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

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



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



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

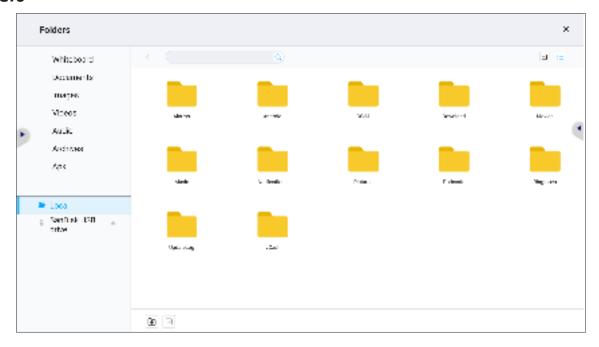


## Chromium

Web browser for surfing the Internet.



## **Folders**



# 1. Storage Device Display

Select the appropriate storage device.

## 2. Icons

Item	Description
× Exit	Click to exit.
Thumbnail	Click to display file by thumbnail mode.
<b>≣</b> List	Click to display file by list mode.
☑ Select	Click to select file.
≟ Add Folder	Click to add folder.
ि Copy	Click to copy file.
n Paste	Click to paste file.
器 <sub>,</sub> Cut	Click to cut file.
⊞ Delete	Click to delete file.
ি Rename	Click to rename file.
⊗ Cancel	Click to cancel.

# 3. File Type Menu

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

# > RS-232 Protocol

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

The protocol contains three command sections:

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

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

## **Description**

## **RS-232 Hardware Specification**

ViewSonic LFD communication port on the rear side:

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

Male DSUB 9-Pin (preferred)

12345



Female DSUB 9-Pin

9876

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						
frame	GND						

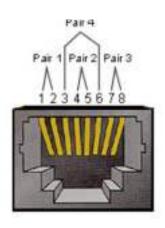
Item	Signal	Remark
Tip	TXD	Output from Display
Ring	RXD	Input to Display
Sleeve	GND	

## **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					

## **RS-232 Communication Setting**

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

- Stop Bits: 1(fixed)

## **LAN Communication Setting**

- Type: Ethernet
- Protocol: TCP/IP

- Port: 5000 (fixed)

- WOL Port: 9 (fixed) for UDP +3.2.0

- Cross subnet: No- Logon Credentials: No

## **Command Message Reference**

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

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

## **Protocol**

## **Set-Function Listing**

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

#### **Set-Function Description:**

**Length:** Total Byte of Message excluding "CR"

**LFD ID** Identification for each of Display (01~98; default is 01)

ID "99" means to apply the set command for all connected displays. Under such circumstances, only ID#1 display has to

reply.

The LFD ID can be set via the OSD menu for each Display.

**Command Type** Identify command type,

"s" (0x73h): Set Command

"+" (0x2Bh): Valid command Reply "-" (0x2Dh): Invalid command Reply

**Command:** Function command code: One byte ASCII code.

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

CR 0x0D

#### **Set-Function Format**

Send: (Command Type="s")

Name	Length	ID	<b>Command Type</b>	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	<b>Command Type</b>	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	<b>Command Type</b>	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x32	Uv /3	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	Comr	nand	Value Range	Comments
			Type (ASCII)	Code (ASCII)	Code (Hex)	(Three ASCII bytes)	
Power on *3.2.1/ off (standby)	8		S	!	21	000: STBY 001: ON	1. The Power-on via LAN control may works only under specific mode. To see display UG for details. *3.1.1 2. "WOL by MAC address" may available as alternative.*3.2.1
Input Select	8		S	ú	22	004: HDMI1 014: HDMI2 024: HDMI 006: VGA 007: Slot-in PC (OPS) 009: DP 019: Type-C *3.2.4 00A: Embedded/ Main (Android)	1. No need for USB 2. For the case of two more same sources, the 2nd digital is used to indicate the extension. 3. The HEX of 00A is 30 30 41.
Brightness	8		S	\$	24	000 ~ 100 900: Bright down (-1) 901: Bright up (+1)	
Backlight *3.2.0	8		А	В	42	000 ~ 100	1. For Android platform whose main mode is controlled by backlight and the other sources are controlled by brightness. 2. Derived from Color calibration.  *3.2.0
Power lock	8		s	4	34	000: Unlock 001: Lock	*See note in details
Volume	8		s	5	35	000 ~ 100 900: Volume down(-1) 901:Volume up(+1)	
Mute	8		s	6	36	000: OFF 001: ON (mute)	
Button lock	8		s	8	38	000: Unlock 001: Lock	*See note in details
Menu lock	8		S	>	3E	000: Unlock 001: Lock	*See note in details

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

# **B. Optional Function**

Set Function	Length	ID	Command	Com	ımand	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	
Freeze On_Off	8		s	*	2A	000: Off 001: On	
Bass	8		s		2E	000 ~ 100	
Treble	8		s	/	2F	000 ~ 100	
Balance	8		S	0	30	000 ~ 100	050 is central
Picture Size	8		s	1	31	000: FULL (16:9) 001: NORMAL (4:3) 002: REAL (1:1) *3.1.0	
OSD language	8		s	2	32	000: English 001: French 002: Spanish	Could be extended for more supported languages by model
Date: Year	8		s	V	56	Y17~Y99	Last 2 digits (20)17~(20)99
Date: Month	8		s	V	56	M01~M12	2 digits
Date: Day	8		S	V	56	D01~D31	2 digits
Time: Hour	8		s	W	57	H00~H23	24-hr format. 2 digits.
Time: Min	8		S	W	57	M00~M59	2 digits
Time: Sec	8		s	W	57	S00~S59	2 digits
Customized Hot Keys *3.2.6	8		S	Х	58	001~999 001: Open MVBA app *3.2.6	

# **>** Appendix

# **Specifications**

Item	Category	Specifications
	P/N.	IFP4320
Model	No.	VS18454
Screen Size		43"
		1 x HDMI
		1 x VGA
		1 x DisplayPort
Input Signal		1 x USB Type-C
Input Signal		1 x DVI
		1 x Audio In
		1 x LAN (RJ45)
		2 x USB Type-A (2.0)
		1 x Audio Out
Output Signal		1 x SPDIF
		1 x USB Type-B
Speaker		10W x 2
Output		DC 222 Campung tastian
RS-232	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	RS-232 Communication
Power	Voltage	100V-240V AC 50/60Hz
Operating	Temperature	32° F to 104° F (0° C to 40° C)
Conditions	Humidity	20%~80% non-condensing
	Altitude	< 2,000 m
Storage	Temperature	14° F to 140° F (-10° C to 60° C)
Storage Conditions	Humidity	10%~80% non-condensing
Conditions	Altitude	< 2,000 m
	Physical	067 - 550 4 - 55 7
Diamentina.	WxHxD(mm)	967 x 558.1 x 55.7
Dimensions	Physical	20.072 24.072 2.402
	W x H x D (in)	38.072 x 21.973 x 2.193
\Moight	Physical (kg)	17.83
Weight	Physical (lbs)	39.3
Power	On	120W (Typ.)
Consumption	Off	<0.5W

**NOTE:** Product specifications are subject to change without notice.

# **Display Modes**

## **VGA Mode**

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

# HDMI/DisplayPort/Type-C Mode

Resolution	Refresh Rate (@)
480i	60Hz <sup>1</sup>
576i	50Hz <sup>1</sup>
480p	60Hz
576p	50Hz
720p	60Hz
1080i	50Hz, 60Hz
1080p	30Hz, 50Hz, 60Hz
4K	25, 30, 50, 60Hz

<sup>&</sup>lt;sup>1</sup> Not supported by DisplayPort.

# **Troubleshooting**

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

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

## **PC Mode**

Problem or Issue	Possible Solutions
	1. Check the display settings.
No PC signal	2. Check the display resolution.
NO PC Signal	<b>3.</b> Adjust the Hs &Vs (synchronization) settings using the OSD menu.
Do alcaro una distributa	1. Choose auto adjust.
Background streaking	2. Adjust clock and phase.
	1. Check the VGA connection.
False color	<b>2.</b> Adjust the chroma, brightness, and contrast settings.
Lincumparted format	1. Choose auto adjust.
Unsupported format	2. Adjust clock and phase settings.

## **Touch Function**

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

# **Video Not Working Properly**

Problem or Issue	Possible Solutions
	1. Check the Power status.
No picture/ No sound	2. Check the signal cable.
	3. Check that the internal PC is installed correctly.
Picture is unclear or	1. Check the signal cable.
cuts in and out	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		
	1. Press the Mute/Unmute button.		
No sound	2. Adjust the volume.		
	3. Check the audio cable.		
	1. Adjust the sound balance in the menu.		
	2. Check the sound control panel settings of the computer.		
One speaker only	3. Check the audio cable.		
	NOTE: SPDIF and Earphone only work in ViewBoard Player, HDMI, Type-C, and DisplayPort (DP) channels.		

## Maintenance

#### **General Precautions**

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

## **Cleaning the Screen**

- Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
- If the screen is still not clean, apply a small amount of non-ammonia, nonalcohol 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	<b>Actual Concentration</b>
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr6+)	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%
Bis (2-ethylhexyl) phthalate (DEHP)	0.1%	< 0.1%
Butyl benzyl phthalate (BBP)	0.1%	< 0.1%
Dibutyl phthalate (DBP)	0.1%	< 0.1%
Diisobutyl phthalate (DIBP)	0.1%	< 0.1%

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

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

#### **ENERGY STAR® statement**

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

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

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



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

#### **Indian Restriction of Hazardous Substances**

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

## **Product Disposal at End of Product Life**

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

#### **USA & Canada:**

http://www.viewsonic.com/company/green/recycle-program/

#### **Europe:**

http://www.viewsoniceurope.com/eu/support/call-desk/

#### Taiwan:

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

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## **Customer Service**

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

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

Country/ Region	Website	Country/ Region	Website			
Asia Pacific & Afric	ca					
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	Iew Zealand www.viewsonic.com/nz/		www.viewsonic.com/pk/			
Philippines	hilippines www.viewsonic.com/ph/		www.viewsonic.com/sg/			
臺灣 (Taiwan)	www.viewsonic.com/tw/	ประเทศไทย	www.viewsonic.com/th/			
Việt Nam	Việt Nam www.viewsonic.com/vn/		www.viewsonic.com/za/			
Americas						
United States www.viewsonic.com/us		Canada	www.viewsonic.com/us			
Latin America	www.viewsonic.com/la					
Europe						
Europe	rope www.viewsonic.com/eu/		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/u				
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<sup>®</sup>.

#### 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.

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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<sup>®</sup>.

## **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: Villahermosa: Distribuciones y Servicios Computacionales SA de CV. Compumantenimietnos Garantizados, S.A. de C.V. Calle Juarez 284 local 2 AV. GREGORIO MENDEZ #1504 Col. Bugambilias C.P: 83140 COL, FLORIDA C.P. 86040 Tel: 01-66-22-14-9005 Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09 E-Mail: disc2@hmo.megared.net.mx E-Mail: compumantenimientos@prodigy.net.mx Puebla, Pue. (Matriz): Veracruz, Ver.: CONEXION Y DESARROLLO, S.A DE C.V. Av. RENTA Y DATOS, S.A. DE C.V. Domicilio: 29 SUR 721 COL. LA PAZ Americas # 419 72160 PUEBLA, PUE. ENTRE PINZÓN Y ALVARADO Tel: 01(52).222.891.55.77 CON 10 LINEAS Fracc. Reforma C.P. 91919 Tel: 01-22-91-00-31-67 E-Mail: datos@puebla.megared.net.mx E-Mail: gacosta@qplus.com.mx Chihuahua: Cuernavaca: Soluciones Globales en Computación Compusupport de Cuernavaca SA de CV C. Magisterio # 3321 Col. Magisterial Francisco Leyva # 178 Col. Miguel Hidalgo Chihuahua, Chih. C.P. 62040, Cuernavaca Morelos Tel: 4136954 Tel: 01 777 3180579 / 01 777 3124014 E-Mail: Cefeo@soluglobales.com E-Mail: aquevedo@compusupportcva.com Distrito Federal: Guadalajara, Jal.: QPLUS, S.A. de C.V. SERVICRECE, S.A. de C.V. Av. Niños Héroes # 2281 Av. Coyoacán 931 Col. Del Valle 03100, México, D.F. Col. Arcos Sur, Sector Juárez Tel: 01(52)55-50-00-27-35 44170, Guadalajara, Jalisco E-Mail: gacosta@qplus.com.mx Tel: 01(52)33-36-15-15-43 E-Mail: mmiranda@servicrece.com Monterrey: Guerrero Acapulco: GS Computación (Grupo Sesicomp) **Global Product Services** Progreso #6-A, Colo Centro Mar Caribe # 1987, Esquina con Golfo Pérsico Fracc. Bernardo Reyes, CP 64280 39300 Acapulco, Guerrero Tel: 744-48-32627 Monterrey N.L. México Tel: 8129-5103 E-Mail: aydeem@gps1.com.mx MERIDA: Oaxaca, Oax.: ELECTROSER CENTRO DE DISTRIBUCION Y Av Reforma No. 403Gx39 y 41 SERVICIO, S.A. de C.V. Mérida, Yucatán, México CP97000 Murguía # 708 P.A., Col. Centro, 68000, Oaxaca Tel: (52) 999-925-1916 Tel: 01(52)95-15-15-22-22 E-Mail: rrrb@sureste.com Fax: 01(52)95-15-13-67-00 E-Mail. gpotai2001@hotmail.com Tijuana: **FOR USA SUPPORT:** STD ViewSonic® Corporation Av Ferrocarril Sonora #3780 L-C 381 Brea Canyon Road, Walnut, CA. 91789 USA Col 20 de Noviembr Tel: 800-688-6688

Smart White Board Warranty Term Template In UG VSC\_TEMP\_2013

Tijuana, Mexico

E-Mail: http://www.viewsonic.com







