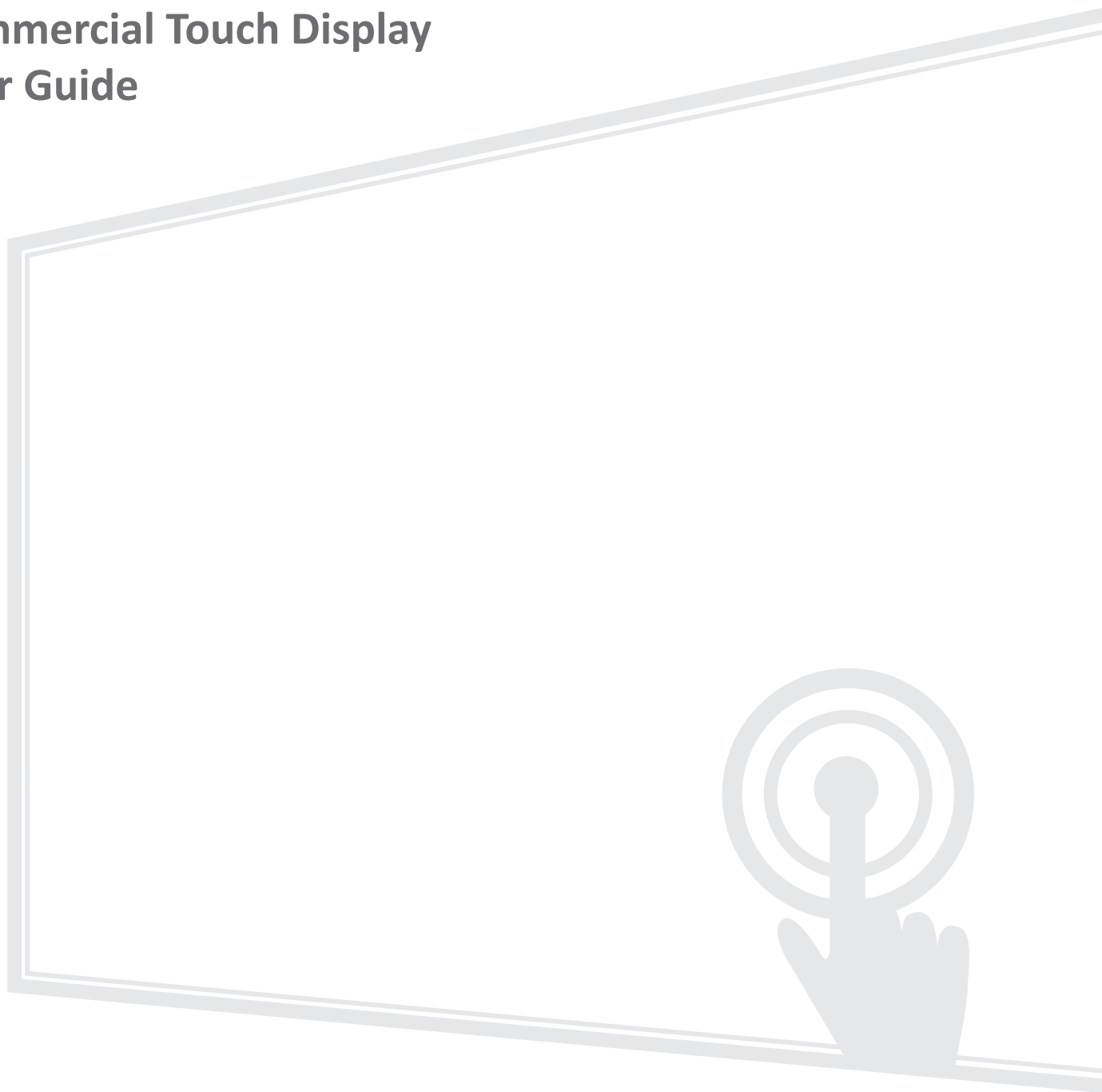


# IFP51 Series

## 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. VS20432 | VS20640 | VS20641 | VS20434 | VS20435

P/N: IFP5551 | IFP6551 | IFP7551 | IFP8651 | IFP9851 IFP5551-1B | IFP6551-1B | IFP7551-1B | IFP8651-1B |  
IFP9851-1B | IFP5551-1N | IFP6551-1N | IFP7551-1N | IFP8651-1N | IFP9851-1N | IFP5551-1M | IFP6551-1M |  
IFP7551-1M | IFP8651-1M | IFP9851-1M | IFP6551-3C | IFP7551-3C | IFP8651-3C

## **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®!

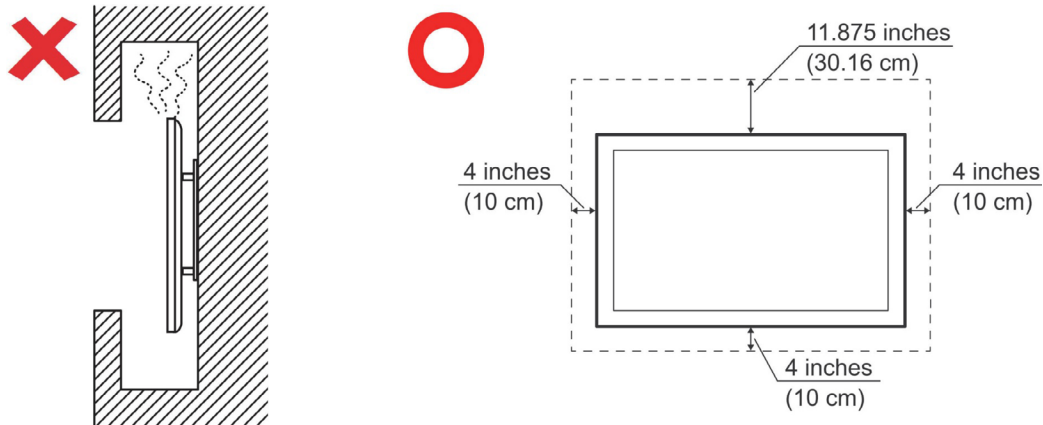


# Safety Precautions

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

## IMPORTANT

To ensure the optimal performance and longevity of your display, it is essential to follow the recommended handling, mounting, and storage procedures. Placing the display in a horizontal position can lead to a range of potential issues, including:

- Excessive stress on the display's structural components, resulting in the formation of cracks or distortions along the edges.
- Uneven weight distribution, which can cause the screen to warp, sustain internal damage, or crack over time.
- Thermal-related damage, as the internal components may not be able to dissipate heat as intended, leading to potential failure or permanent damage.

Furthermore, altering the display's form can also compromise the integrity of its internal components, including the sensitive LCD cells, which can result in a permanent degradation of the display's quality.

To prevent such issues and maintain the display's optimal condition, it is recommended to always mount, handle, transport, and store it in a vertical position. Failure to do so may void the warranty and compromise the display's performance and lifespan.

**NOTE:** Any damage resulting from the misuse or improper handling of the display is not covered under warranty.

# Contents

**Safety Precautions..... 3**

**Introduction ..... 10**

    Package Contents ..... 10

        IFP51 Series ..... 10

        IFP51-3C Series..... 11

    Wall Mount Kit Specifications (VESA) ..... 12

    Product Overview ..... 13

        IFP5551..... 13

        IFP6551..... 14

        IFP7551..... 15

        IFP8651..... 16

        IFP9851..... 17

        Control Panel..... 18

        I/O Panels ..... 19

            Front I/O..... 20

            Rear I/O ..... 21

            Side I/O..... 22

        Remote Control ..... 24

        Using Gestures ..... 27

## **Making Connections..... 29**

|                                                    |    |
|----------------------------------------------------|----|
| Connecting to Power .....                          | 29 |
| Connecting to Video Inputs and Enabling Touch..... | 30 |
| USB Type C Connection .....                        | 31 |
| HDMI Connection .....                              | 31 |
| DisplayPort Connection .....                       | 31 |
| VGA Connection .....                               | 31 |
| RS-232 Connection .....                            | 32 |
| USB and Network Connections.....                   | 33 |
| USB Type A .....                                   | 33 |
| Network and Modem .....                            | 33 |
| Media Connection .....                             | 34 |
| Audio Connection .....                             | 35 |
| Audio In .....                                     | 35 |
| Audio Out .....                                    | 35 |
| SPDIF Connection .....                             | 35 |
| Video Output Connection .....                      | 36 |
| HDMI Out .....                                     | 36 |
| Optional Connections .....                         | 37 |
| Slot-in PC (OPS Slot) Installation .....           | 37 |
| Wi-Fi Card (Wi-Fi Slot) Installation .....         | 38 |

## **Using Your ViewBoard..... 39**

|                                                       |    |
|-------------------------------------------------------|----|
| Turning On/Off the ViewBoard.....                     | 39 |
| Initial Launch Setup .....                            | 40 |
| Home Screen .....                                     | 47 |
| How to Sign Up.....                                   | 47 |
| Use as Guest.....                                     | 48 |
| Sign In.....                                          | 48 |
| Home Screen Message.....                              | 49 |
| Toolbar .....                                         | 50 |
| Toolbar Icons.....                                    | 51 |
| On-Screen Display (OSD) Menu - General Settings ..... | 53 |
| Input Settings .....                                  | 55 |
| Display Settings .....                                | 57 |
| Eye Care.....                                         | 59 |
| Applications .....                                    | 61 |

|                                    |           |
|------------------------------------|-----------|
| <b>ViewBoard Settings .....</b>    | <b>62</b> |
| ViewBoard Launcher .....           | 62        |
| Wireless & Network .....           | 62        |
| Wi-Fi .....                        | 63        |
| Ethernet .....                     | 65        |
| Bluetooth.....                     | 66        |
| VPN.....                           | 67        |
| Display .....                      | 69        |
| Wallpaper .....                    | 70        |
| Protection.....                    | 70        |
| HDMI Out .....                     | 71        |
| Preference .....                   | 72        |
| Marker.....                        | 73        |
| Touch .....                        | 73        |
| Language .....                     | 73        |
| Keyboard & Input Method .....      | 74        |
| Date & Time .....                  | 74        |
| Boot Mode & Advanced Settings..... | 75        |
| Startup & Shutdown.....            | 77        |
| Toolbar Setting .....              | 79        |
| Sound Setting .....                | 79        |
| Input Source .....                 | 80        |
| Label Input Source.....            | 81        |
| Source.....                        | 82        |
| Apps .....                         | 83        |
| Apps.....                          | 84        |
| System .....                       | 86        |
| Launcher Scheme .....              | 87        |
| Storage .....                      | 87        |
| Clone to USB.....                  | 88        |
| Display ID.....                    | 89        |
| Security.....                      | 90        |
| System Update .....                | 93        |
| About Device .....                 | 94        |

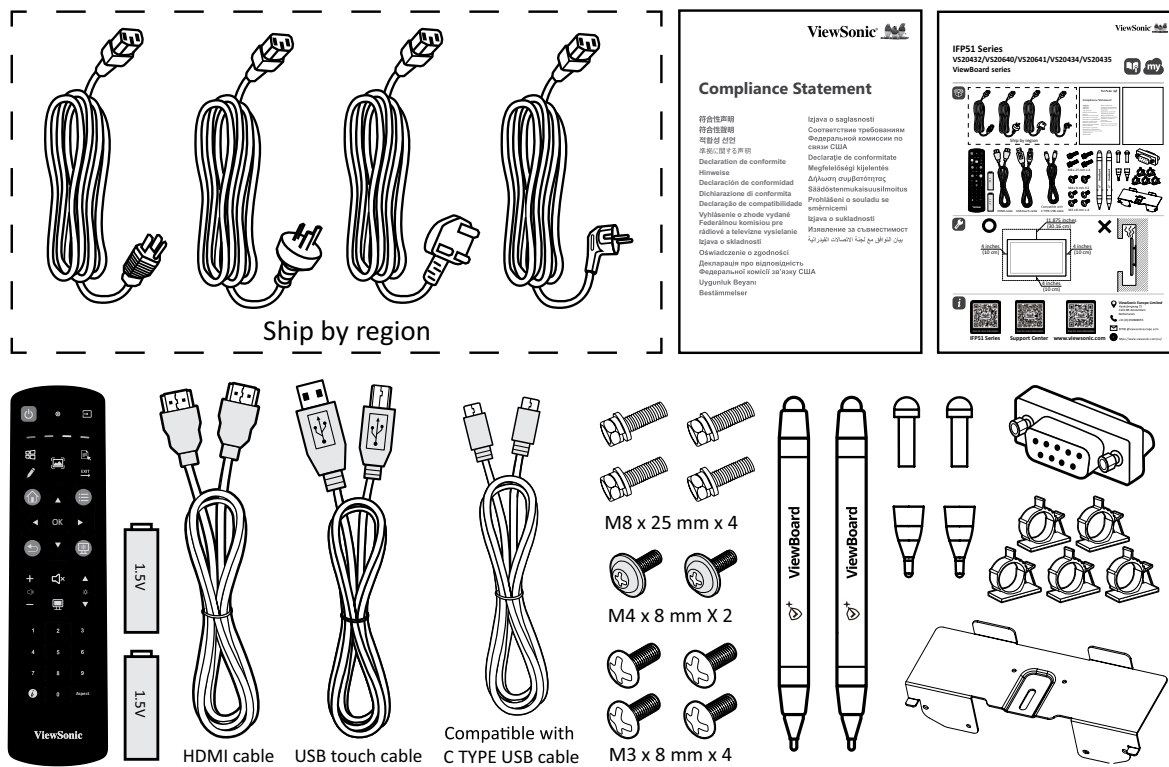
|                                                     |            |
|-----------------------------------------------------|------------|
| Android Launcher .....                              | 95         |
| Network & Internet.....                             | 95         |
| Connected Devices.....                              | 97         |
| Apps .....                                          | 98         |
| Notifications.....                                  | 99         |
| Storage .....                                       | 101        |
| Sound .....                                         | 102        |
| Display.....                                        | 103        |
| Wallpaper & Style.....                              | 104        |
| Accessibility .....                                 | 105        |
| Security & Privacy.....                             | 107        |
| Passwords & Accounts .....                          | 109        |
| Digital Wellbeing .....                             | 110        |
| Google .....                                        | 111        |
| Advanced.....                                       | 112        |
| System.....                                         | 113        |
| About Device .....                                  | 114        |
| Tips & Support.....                                 | 115        |
| Android Settings Menu Tree .....                    | 116        |
| <b>Pre-installed Applications and Settings.....</b> | <b>161</b> |
| AirSync.....                                        | 161        |
| myViewBoard Manager .....                           | 162        |
| myViewBoard Whiteboard .....                        | 163        |
| <b>RS-232 Protocol.....</b>                         | <b>166</b> |
| Description .....                                   | 166        |
| RS-232 Hardware Specification .....                 | 166        |
| LAN Hardware Specification.....                     | 167        |
| RS-232 Communication Setting.....                   | 167        |
| LAN Communication Setting .....                     | 167        |
| Command Message Reference.....                      | 167        |
| Protocol .....                                      | 168        |
| Set-Function Listing.....                           | 168        |
| Get-Function Listing .....                          | 176        |
| Remote Control Pass-through Mode .....              | 184        |

|                                                  |            |
|--------------------------------------------------|------------|
| <b>Appendix.....</b>                             | <b>187</b> |
| Display Modes .....                              | 187        |
| DisplayPort .....                                | 187        |
| HDMI .....                                       | 188        |
| USB Type C .....                                 | 188        |
| VGA .....                                        | 189        |
| HDMI Out .....                                   | 189        |
| Troubleshooting .....                            | 190        |
| Maintenance.....                                 | 192        |
| General Precautions .....                        | 192        |
| Cleaning the Screen.....                         | 192        |
| Cleaning the Case .....                          | 192        |
| <b>Regulatory and Service Information .....</b>  | <b>193</b> |
| Compliance Information.....                      | 193        |
| FCC Compliance Statement.....                    | 193        |
| Industry Canada Statement.....                   | 193        |
| CE Conformity for European Countries .....       | 194        |
| Declaration of RoHS2 Compliance.....             | 195        |
| ENERGY STAR Statement.....                       | 196        |
| Indian Restriction of Hazardous Substances ..... | 197        |
| Product Disposal at End of Product Life .....    | 197        |
| Copyright Information .....                      | 198        |
| Customer Service.....                            | 199        |
| Limited Warranty .....                           | 200        |
| Mexico Limited Warranty.....                     | 203        |

# Introduction

## Package Contents

### IFP51 Series

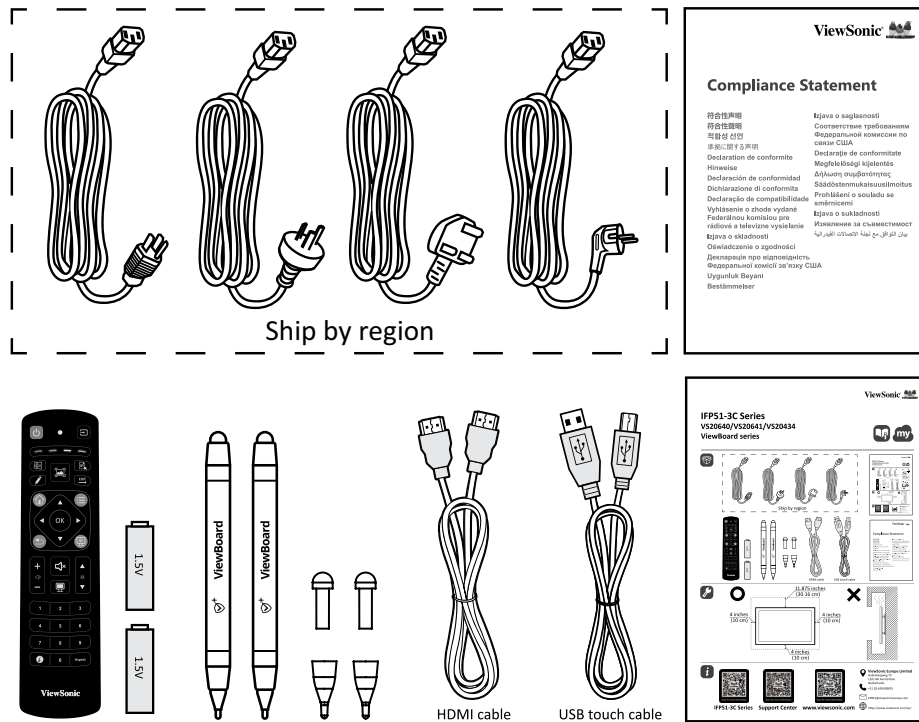


- AAA Batteries
- Camera Plate
- 5 x Clamps
- Compliance Statement
- HDMI Cable (3 m)
- Power Cord (3 m)
- Quick Start Guide
- Wi-Fi Module (optional)
- 4 x Replacement Pen Nibs
- USB Type C Cable (1.8 m)
- RS-232 Adapter
- 10 x Screws
- 2 x Touch Pens
- USB Touch Cable (3 m)
- Remote Control

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



## IFP51-3C Series

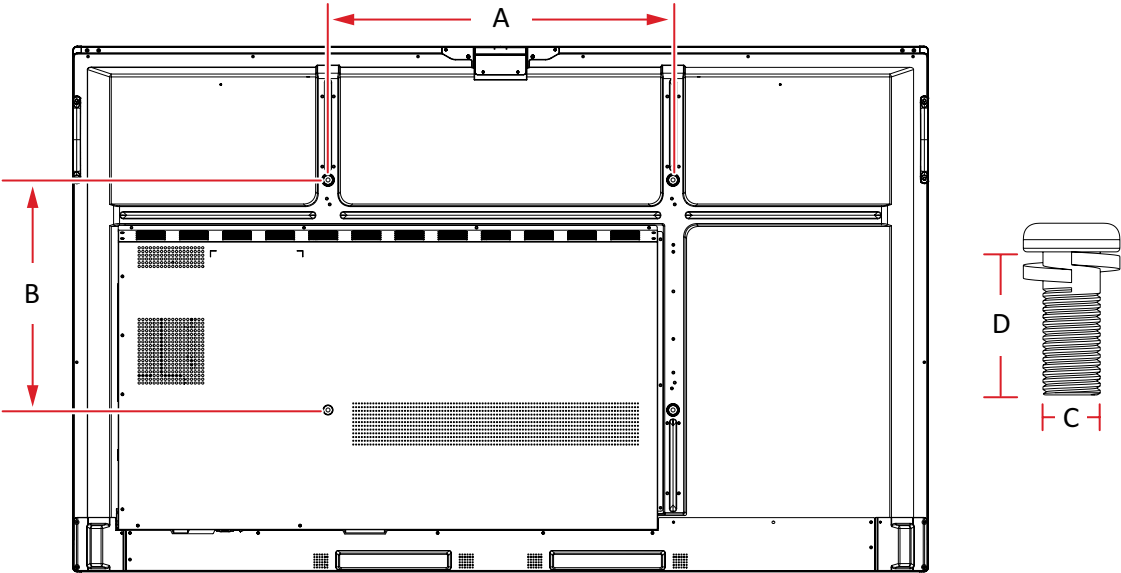


- AAA Batteries
- Compliance Statement
- HDMI Cable (3 m)
- Power Cord (3 m)
- Quick Start Guide
- 4 x Replacement Pen Nibs
- 2 x Touch Pens
- USB Touch Cable (3 m)
- Remote Control
- Wi-Fi Module (optional)

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

# Wall Mount Kit Specifications (VESA)

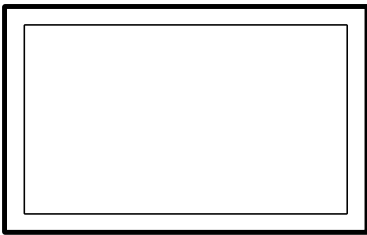
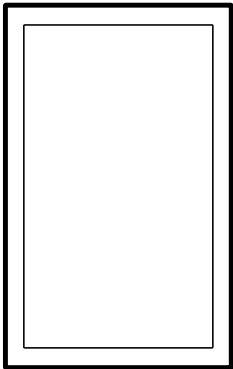
**NOTE:** The following illustration is for instructional purpose only. For details, please refer to the actual product and follow the instructions in the wall mount installation guide to install your wall mount. If attaching to other building materials, please contact your nearest dealer.



| Model   | VESA Spec. (A x B) | Standard Screw (C x D) | Quantity |
|---------|--------------------|------------------------|----------|
| IFP5551 | 400 x 200 mm       | M8 x 25 mm             | 4 Pieces |
| IFP6551 | 600 x 400 mm       |                        |          |
| IFP7551 | 800 x 400 mm       |                        |          |
| IFP8651 | 800 x 600 mm       |                        |          |
| IFP9851 | 800 x 600 mm       |                        |          |

**NOTE:**

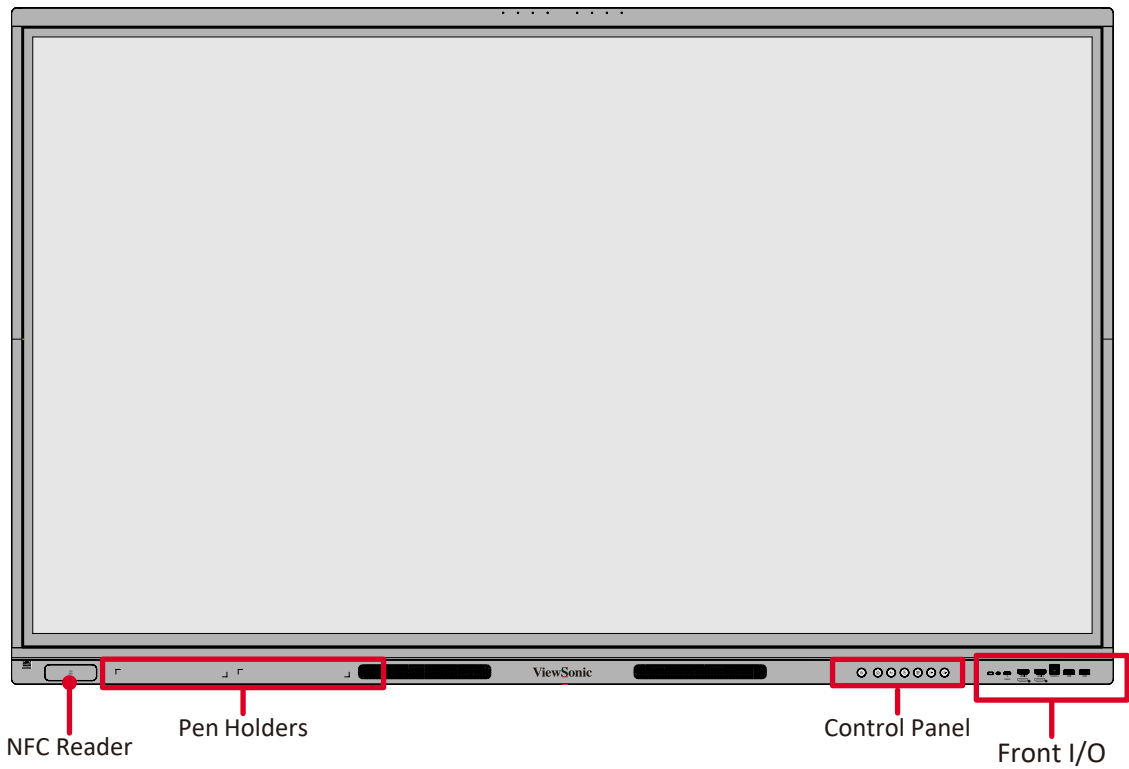
- Do not use screws that are longer than the standard dimension, as they may cause damage to the inside of the display.
- Only mount the display in landscape orientation. Never mount in a portrait orientation.



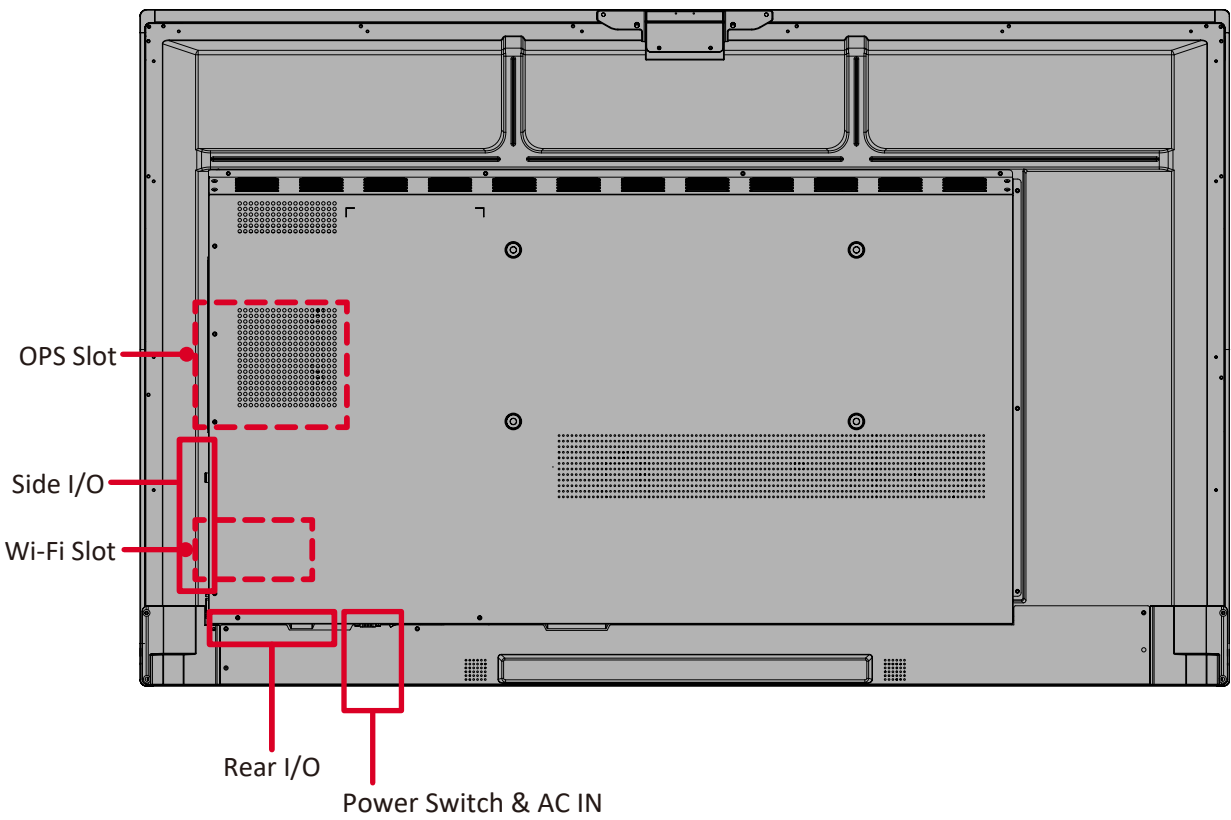
# Product Overview

## IFP5551

### Front Panel



### Rear Panel

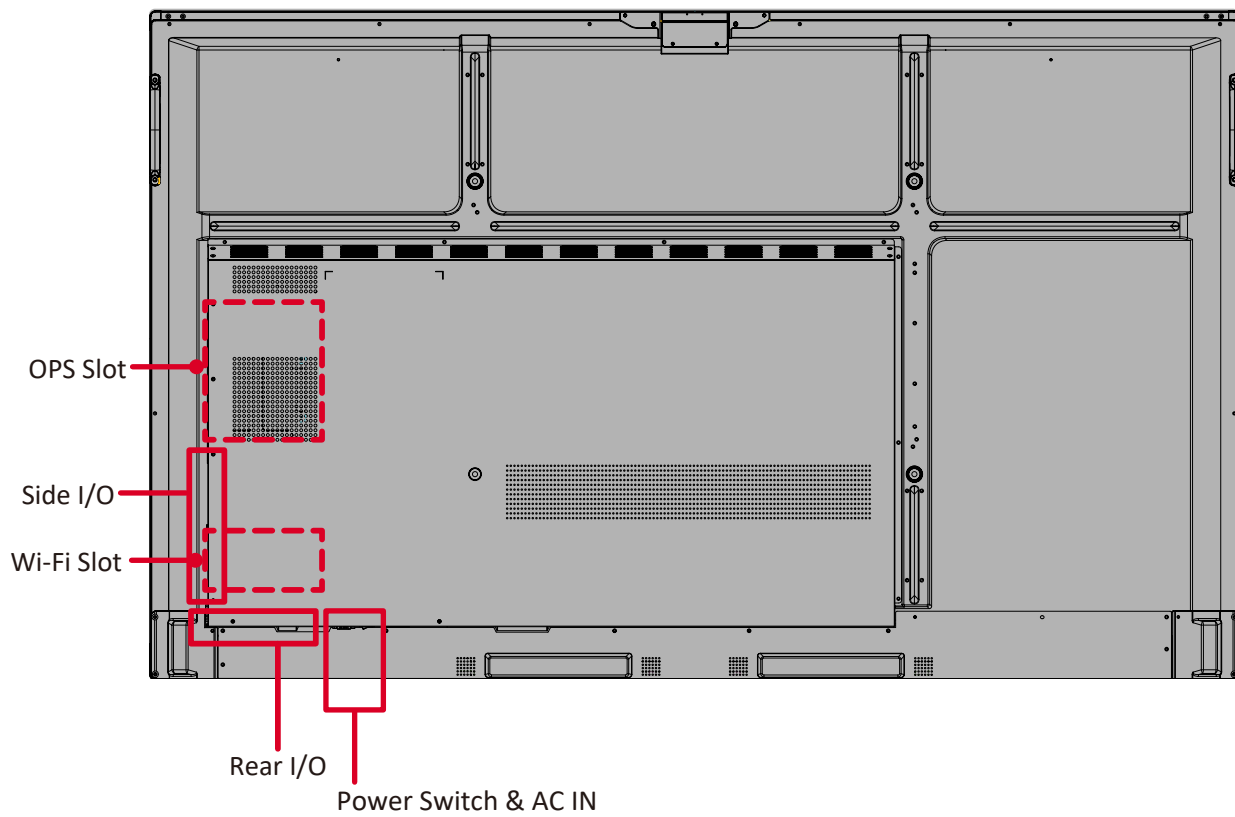


# IFP6551

## Front Panel

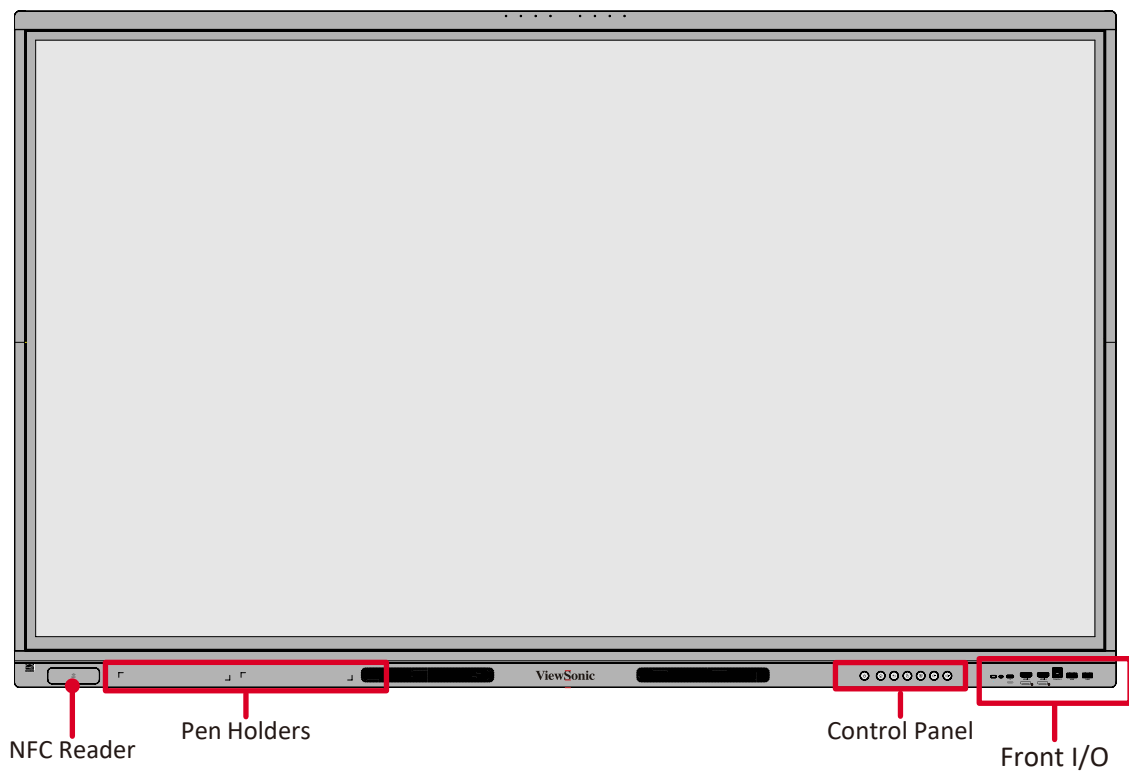


## Rear Panel

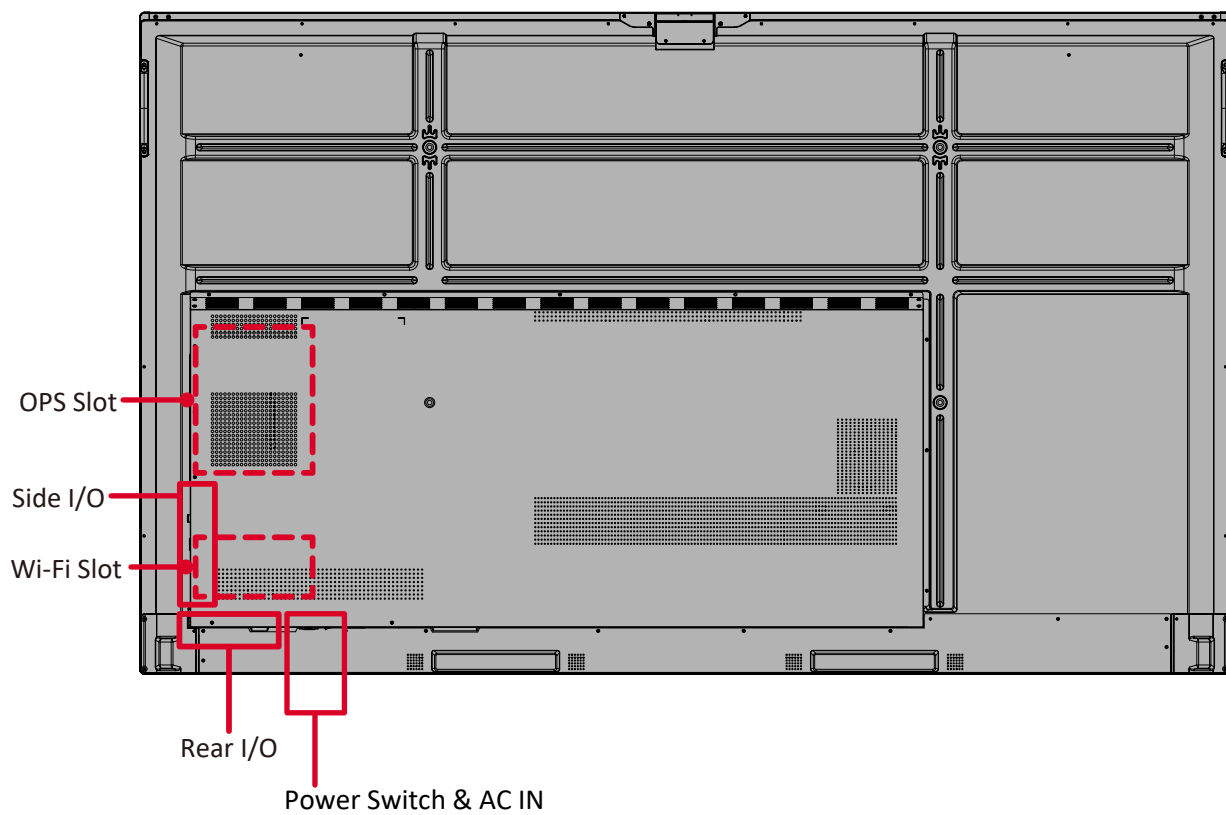


# IFP7551

## Front Panel

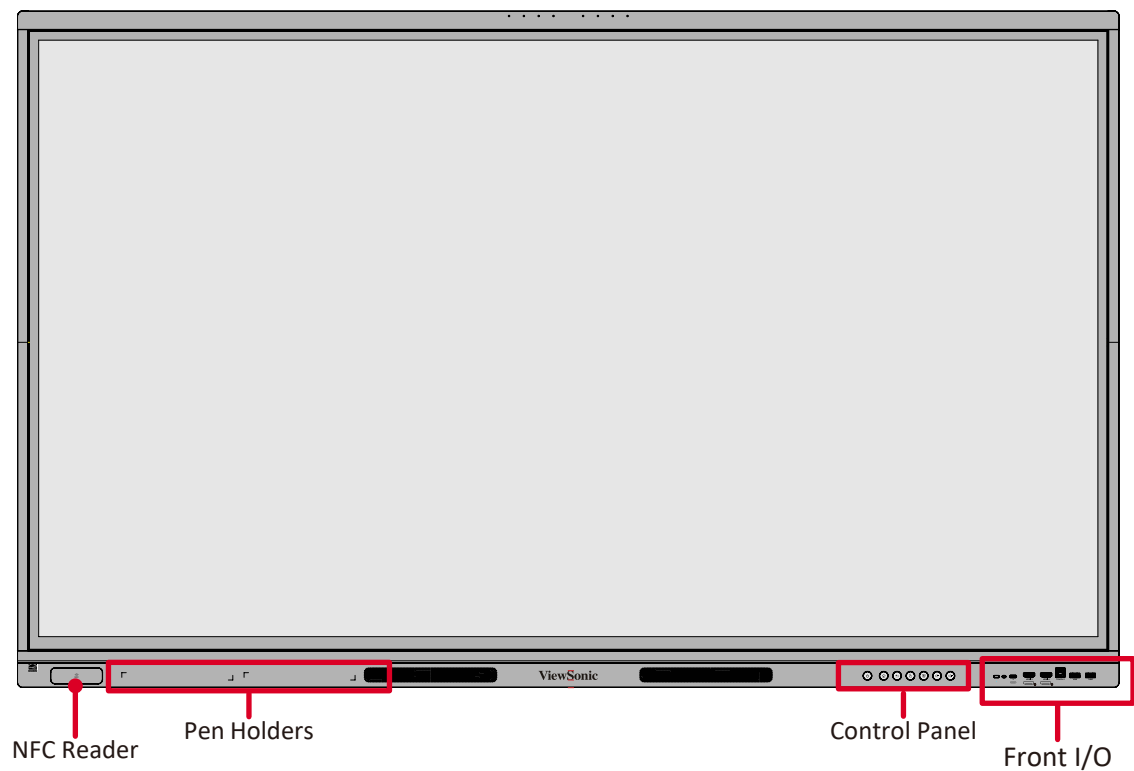


## Rear Panel

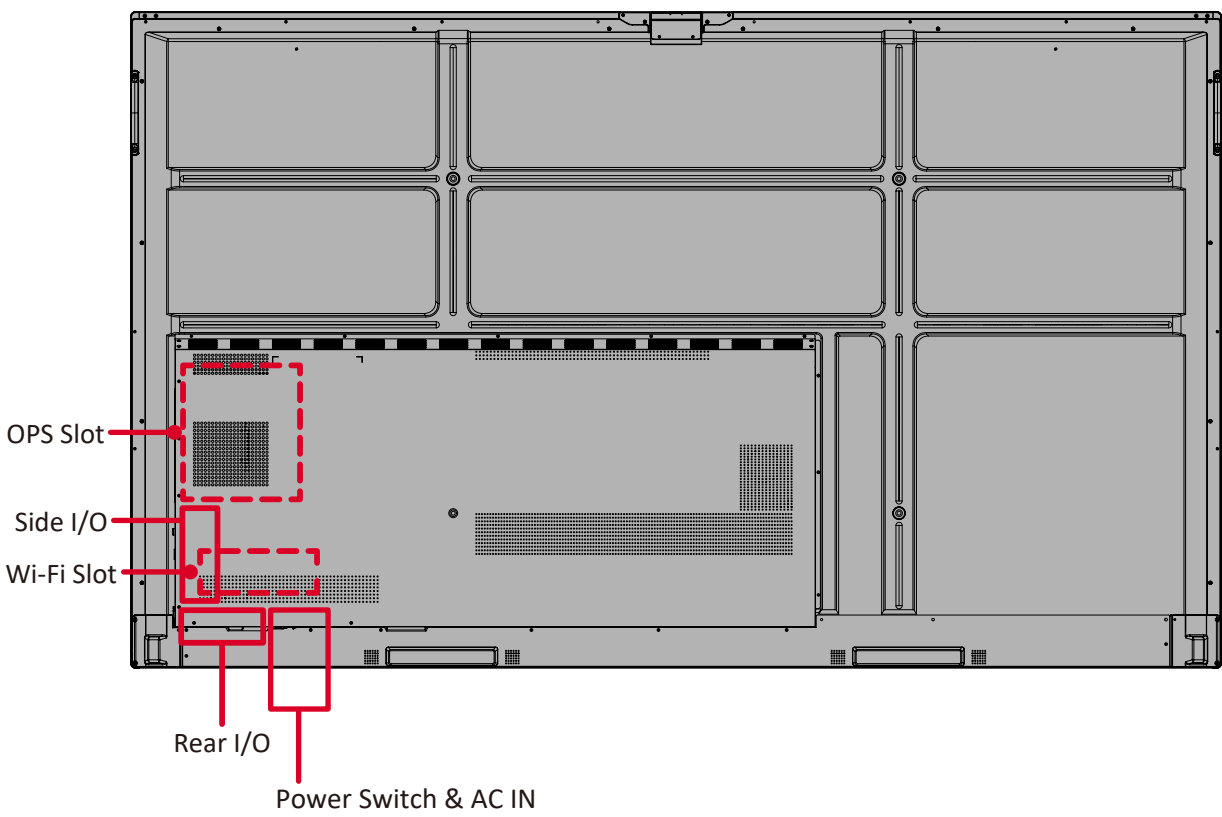


**IFP8651**

**Front Panel**

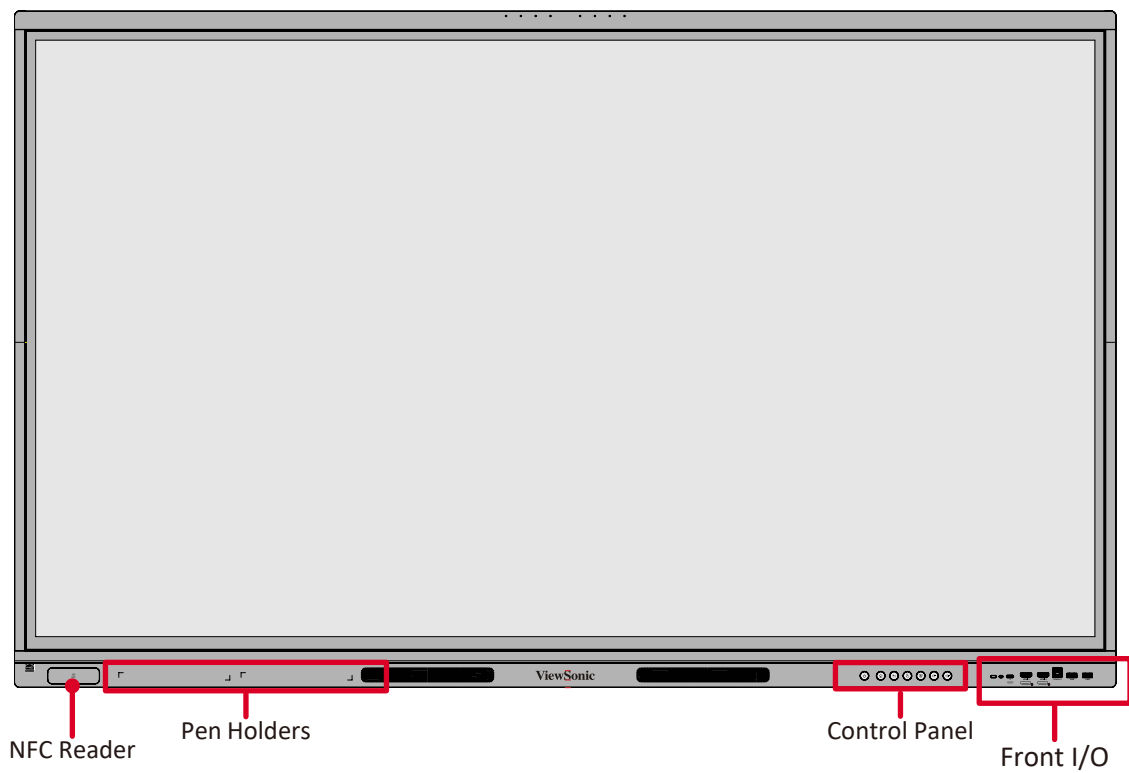


**Rear Panel**

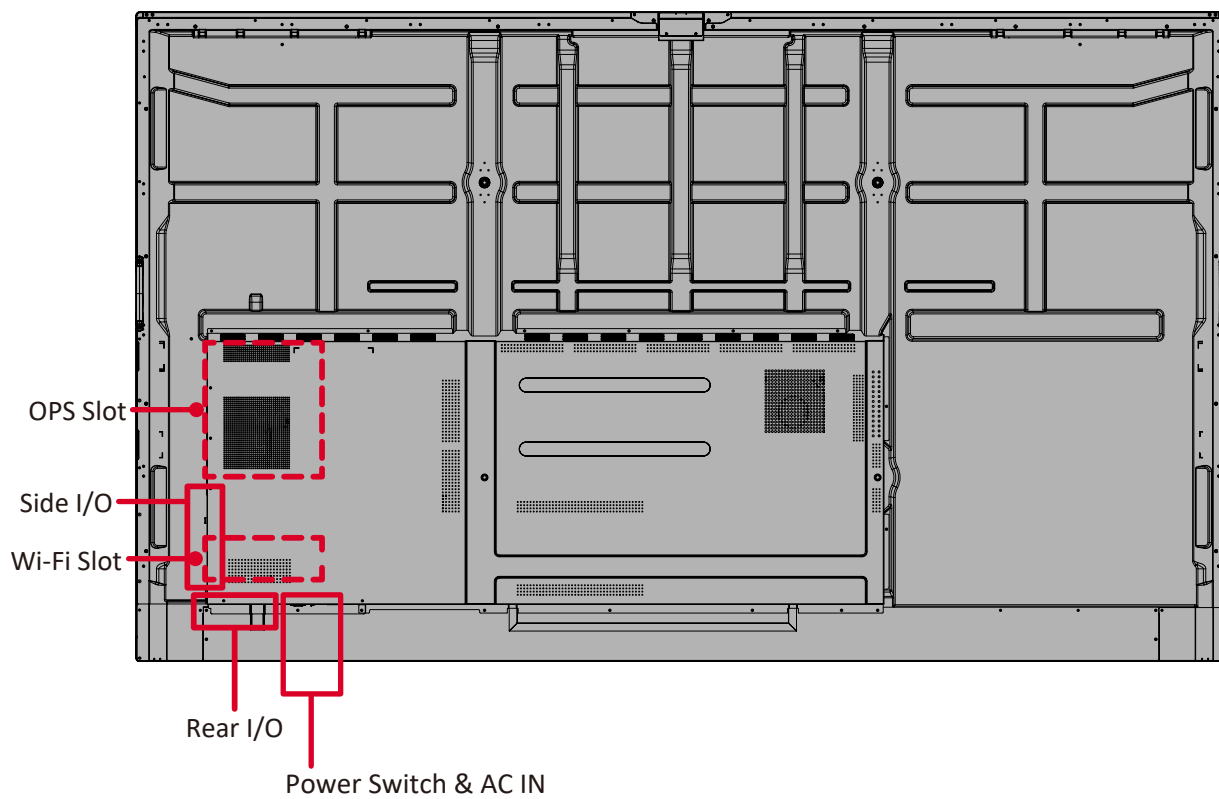


# IFP9851

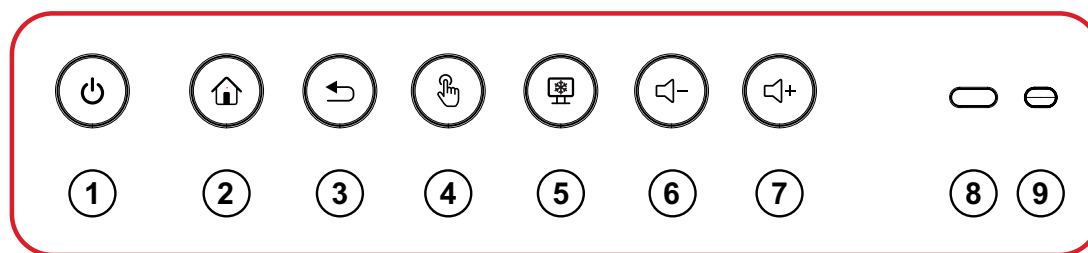
## Front Panel



## Rear Panel



## Control Panel



| Number | Item                                                                                | Description                                                                                                                                                                                                                                           |
|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      |    | <ul style="list-style-type: none"> <li>• Power indicator light.</li> <li>• Press to turn on the display.</li> <li>• Once on, press again to turn on or off the backlight only.</li> <li>• Once on, press and hold to turn off the display.</li> </ul> |
| 2      |    | Return to the ViewBoard's main interface.                                                                                                                                                                                                             |
| 3      |    | Return to the previous interface level (i.e., go back to a previous screen).                                                                                                                                                                          |
| 4      |   | Enable or disable the touch screen function.                                                                                                                                                                                                          |
| 5      |  | Freeze the current image on the screen.                                                                                                                                                                                                               |
| 6      |  | Decrease the sound level.                                                                                                                                                                                                                             |
| 7      |  | Increase the sound level.                                                                                                                                                                                                                             |
| 8      |  | Remote control IR receiver.                                                                                                                                                                                                                           |
| 9      |  | Ambient light sensor.                                                                                                                                                                                                                                 |

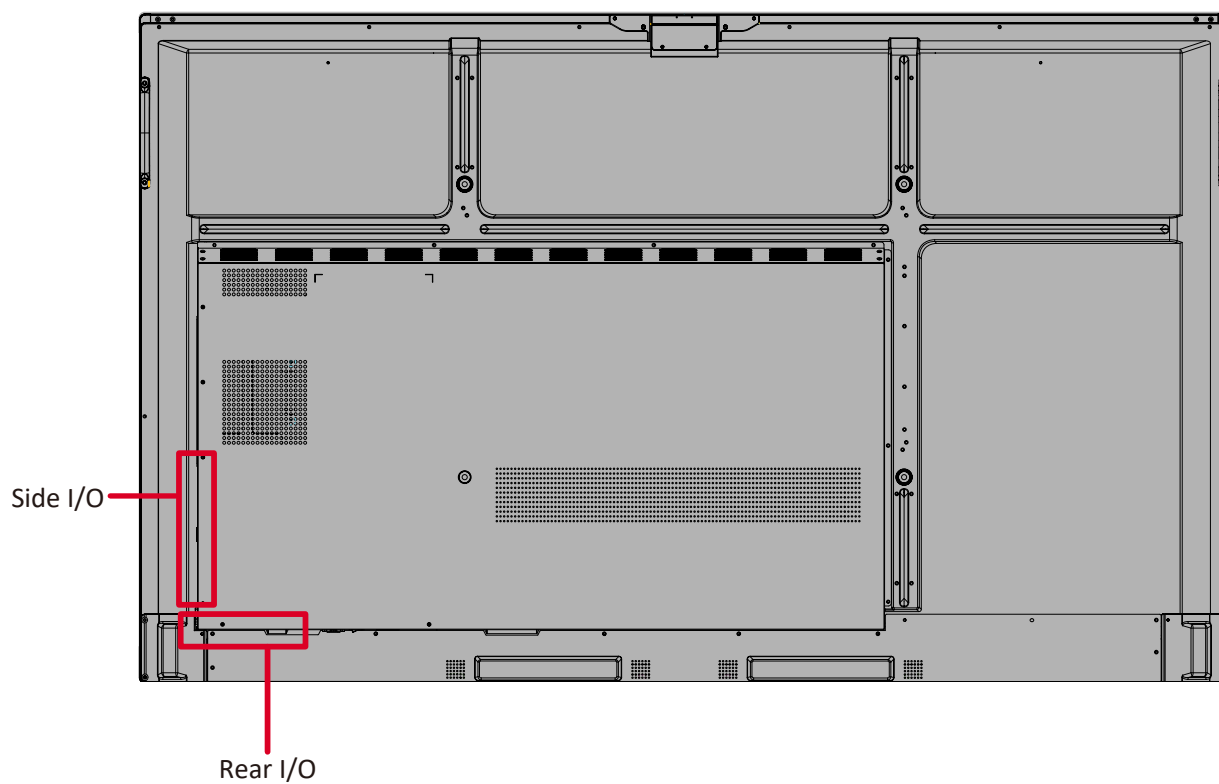


## I/O Panels

**NOTE:** The following illustrations are for instructional purpose only. For details, please refer to the actual device.



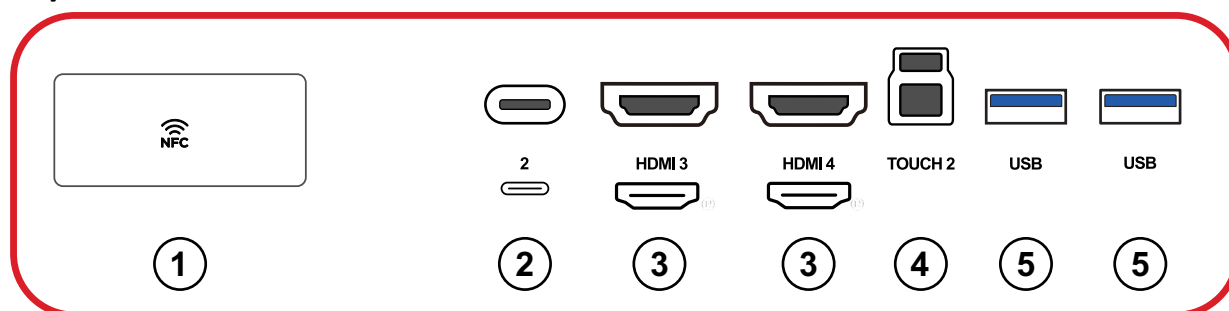
Front I/O

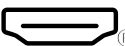
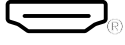


Side I/O

Rear I/O

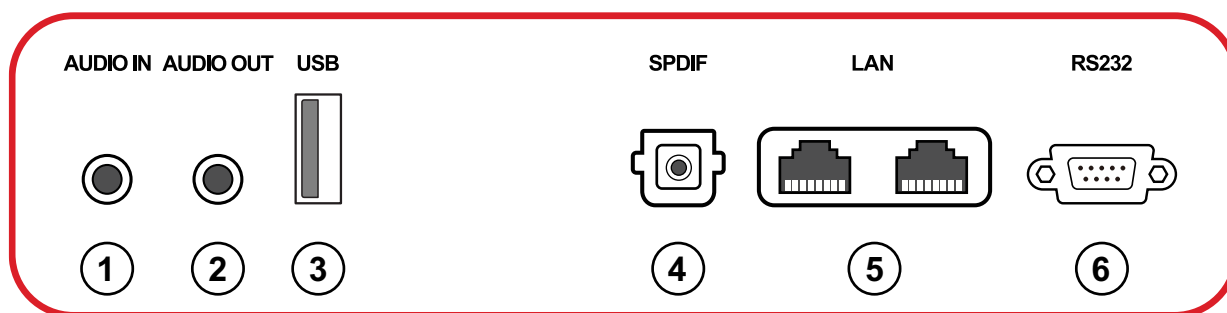
## Front I/O



| Number | Item                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      |                  | NFC reader                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2      | <br>(TYPE C 2)   | <ul style="list-style-type: none"> <li>• USB Type C input</li> <li>• USB 3.2 Gen 1 standard</li> <li>• Supports DP v. 1.2 with audio, video, and touch</li> <li>• Supports LAN by 10M/100M</li> <li>• Supports power charge up to 65W<sup>1</sup>. Power charge supported: 5V/3A, 9V/3A, 15V/3A, 20V/3.25A</li> </ul>                                                                                                               |
| 3      | <br>(HDMI 3/4) | <ul style="list-style-type: none"> <li>• HDMI input</li> <li>• Connect to a computer with HDMI output, set-top box, or other video device</li> <li>• Supports 4K display; HDMI v. 2.1; CEC</li> </ul>                                                                                                                                                                                                                               |
| 4      | <b>TOUCH 2</b>                                                                                    | <ul style="list-style-type: none"> <li>• USB Type B</li> <li>• Touch signal output to external computer</li> <li>• After connection (with an external computer), the device connected to the <b>USB</b> port can directly be used by the external computer</li> </ul> <p><b>NOTE:</b> Pairs with the <b>HDMI 3/4</b> port (  ) next to it.</p> |
| 5      | <b>USB</b>                                                                                        | <ul style="list-style-type: none"> <li>• USB Type A input</li> <li>• USB 3.2 Gen 1 standard</li> <li>• Connect USB devices such as hard disks, keyboard, mouse, etc.</li> <li>• Automatically switches between the external computer and ViewBoard</li> </ul>                                                                                                                                                                       |

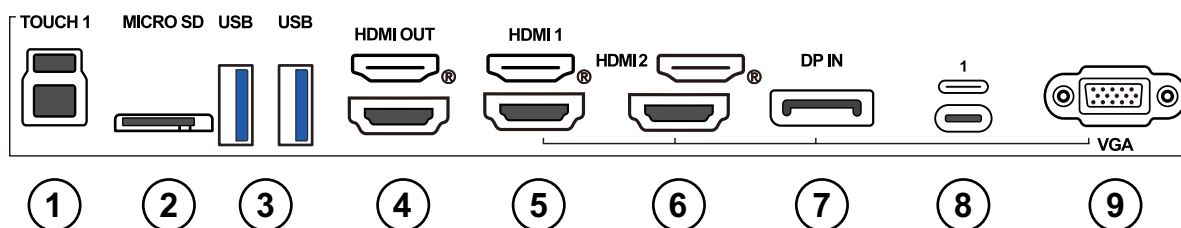
<sup>1</sup> - Only when OPS PC module (purchase separately) is connected.

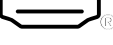
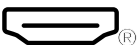
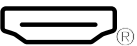
## Rear I/O



| Number | Item      | Description                                                                                                                                                       |
|--------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | AUDIO IN  | External computer audio input                                                                                                                                     |
| 2      | AUDIO OUT | Audio output to an external speaker/headset                                                                                                                       |
| 3      | USB       | <ul style="list-style-type: none"><li>• USB Type A input</li><li>• USB 2.0 standard</li><li>• For ViewBoard source use only</li></ul>                             |
| 4      | SPDIF     | Multichannel sound via optical signals                                                                                                                            |
| 5      | LAN       | <ul style="list-style-type: none"><li>• Standard RJ45 (10M/100M/1000M) Internet connection interface</li><li>• Features hub support for network sharing</li></ul> |
| 6      | RS232     | Serial interface; used for mutual transfer of data between devices                                                                                                |

## Side I/O

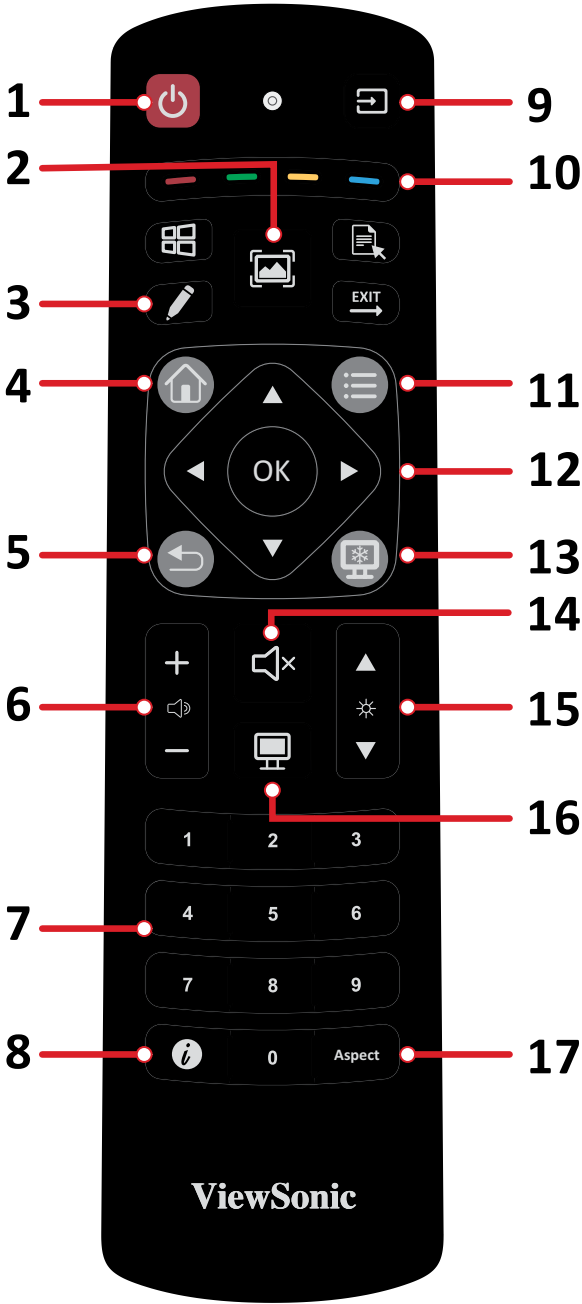


| Number | Item                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | TOUCH 1                                                                                         | <ul style="list-style-type: none"> <li>• USB Type B</li> <li>• Touch signal output to external computer</li> <li>• After connection (with an external computer), the device connected to the <b>USB</b> port can directly be used by the external computer</li> </ul> <p><b>NOTE:</b> Pairs with the HDMI ((<b>HDMI 1/2</b> (  )) / DisplayPort (<b>DP IN</b>)/<b>VGA</b> port next to it.</p> |
| 2      | MICRO SD                                                                                        | Data only, up to 512 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3      | USB                                                                                             | <ul style="list-style-type: none"> <li>• USB Type A input</li> <li>• USB 3.2 Gen 1 standard</li> <li>• Connect USB devices such as hard disks, keyboard, mouse, etc.</li> <li>• Automatically switches between the external computer and ViewBoard</li> </ul>                                                                                                                                                                                                                     |
| 4      | HDMI OUT                                                                                        | <ul style="list-style-type: none"> <li>• Connect to a computer with HDMI output, set-top box, or other video device</li> <li>• Supported by select models</li> </ul> <p><b>NOTE:</b> CEC and ARC are not supported.</p>                                                                                                                                                                                                                                                           |
| 5      | <br>(HDMI 1) | <ul style="list-style-type: none"> <li>• HDMI input</li> <li>• Connect to a computer with HDMI output, set-top box, or other video device</li> <li>• Supports 4K display; HDMI v. 2.1; CEC; ARC</li> </ul>                                                                                                                                                                                                                                                                        |
| 6      | <br>(HDMI 2) | <ul style="list-style-type: none"> <li>• HDMI input</li> <li>• Connect to a computer with HDMI output, set-top box, or other video device</li> <li>• Supports 4K display; HDMI v. 2.1; CEC</li> </ul>                                                                                                                                                                                                                                                                             |
| 7      | DP IN                                                                                           | <ul style="list-style-type: none"> <li>• DisplayPort input (v. 1.2)</li> <li>• Supports 4K display</li> </ul>                                                                                                                                                                                                                                                                                                                                                                     |

| Number | Item                                                                                            | Description                                                                                                                    |
|--------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 8      | <br>(Type C 1) | <ul style="list-style-type: none"> <li>• USB Type C</li> <li>• For data read/write only</li> <li>• USB 3.0 standard</li> </ul> |
| 9      | VGA                                                                                             | External computer video input                                                                                                  |

# Remote Control

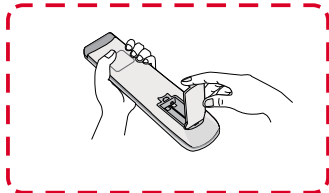
| Number | Description                                                                                                                                                                                     |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Power on/off                                                                                                                                                                                    |
| 2      | Screen capture                                                                                                                                                                                  |
| 3      | Startup writing                                                                                                                                                                                 |
| 4      | Back to the ViewBoard player Home Screen                                                                                                                                                        |
| 5      | Back/Return to the previous page                                                                                                                                                                |
| 6      | Increase/Decrease the Volume                                                                                                                                                                    |
| 7      | Number Keypad                                                                                                                                                                                   |
| 8      | Information                                                                                                                                                                                     |
| 9      | Input source selection                                                                                                                                                                          |
| 10     | Media control buttons: <ul style="list-style-type: none"><li>• <b>Red</b>: Play/Pause</li><li>• <b>Green</b>: Stop</li><li>• <b>Yellow</b>: Forwards</li><li>• <b>Blue</b>: Backwards</li></ul> |
| 11     | Settings menu                                                                                                                                                                                   |
| 12     | Up/Down/Right/Left/OK                                                                                                                                                                           |
| 13     | Freeze screen                                                                                                                                                                                   |
| 14     | Mute/Unmute                                                                                                                                                                                     |
| 15     | Increase/Decrease Brightness                                                                                                                                                                    |
| 16     | Blank Screen                                                                                                                                                                                    |
| 17     | Adjust Aspect Ratio                                                                                                                                                                             |



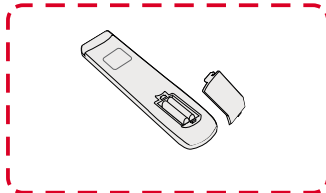
## Inserting Remote Control Batteries

To insert batteries into the remote control:

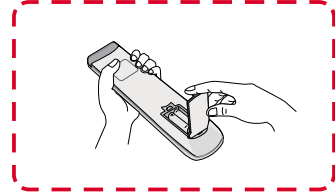
1. Remove the cover on the rear of the remote control.
2. Insert two “AAA” batteries, ensuring the “+” symbol on the battery matches the “+” on the battery post.
3. Replace the cover by aligning it with the slot on the remote control and snapping the latch shut.



(1)



(2)



(3)

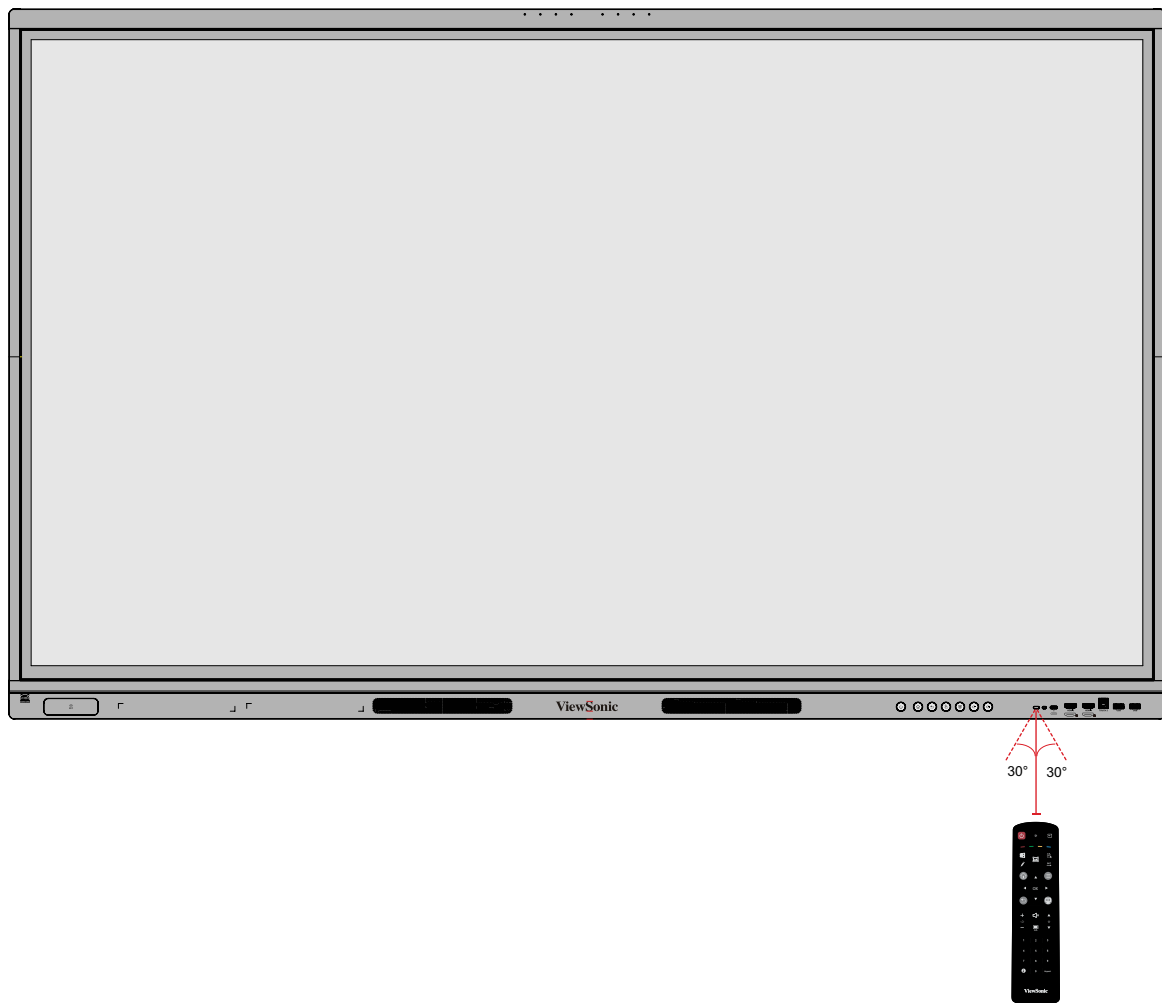
**WARNING:** There is a risk of explosion if batteries are replaced with the incorrect type.

### NOTE:

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

## Remote Control Receiver Range

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



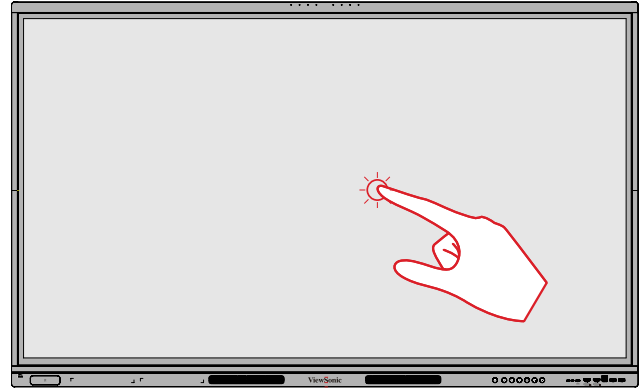


## Using Gestures

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.

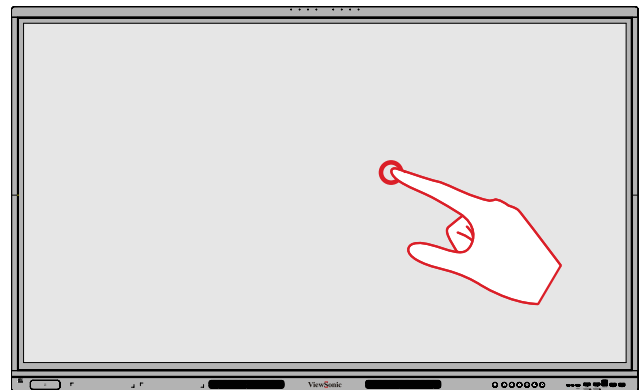
### Select and Deselect an Object (Clicking)

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



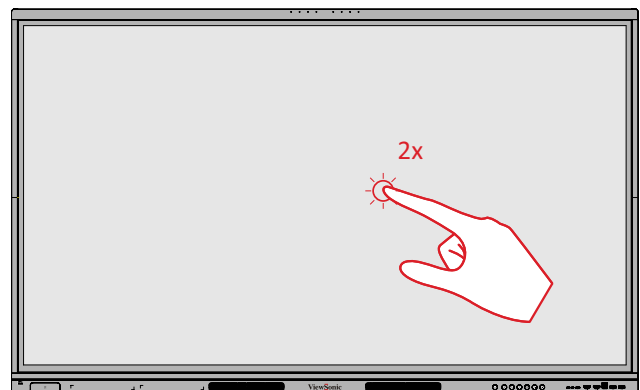
### Display Menu Options (Right-Clicking)

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



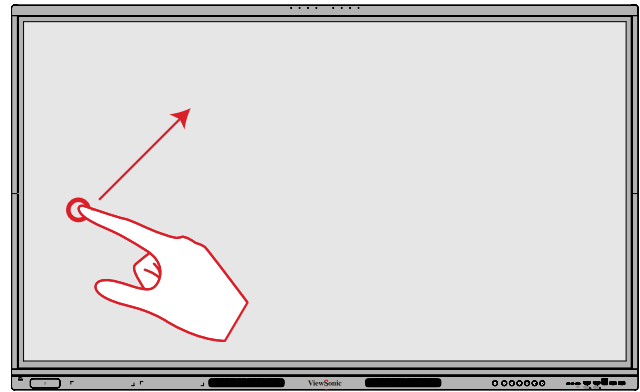
### Double-Clicking

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



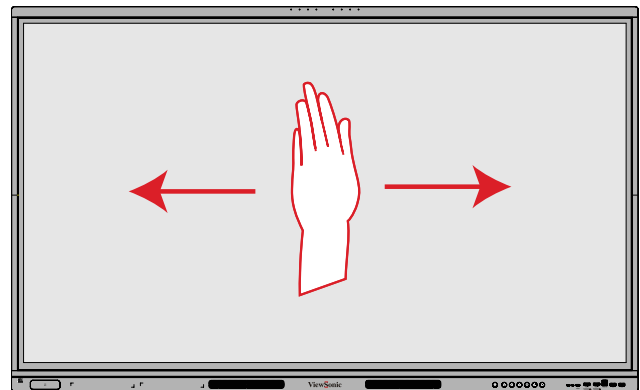
## Moving an Object

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



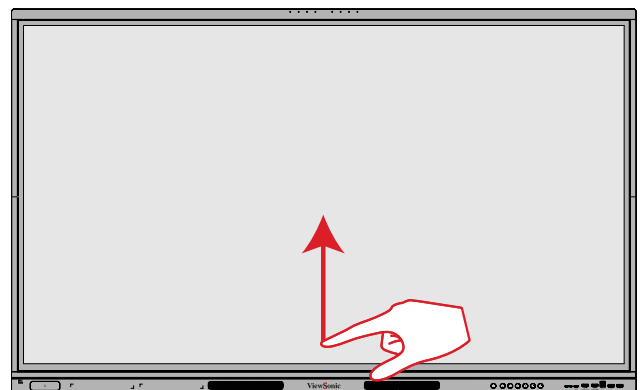
## Erasing Digital Ink

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



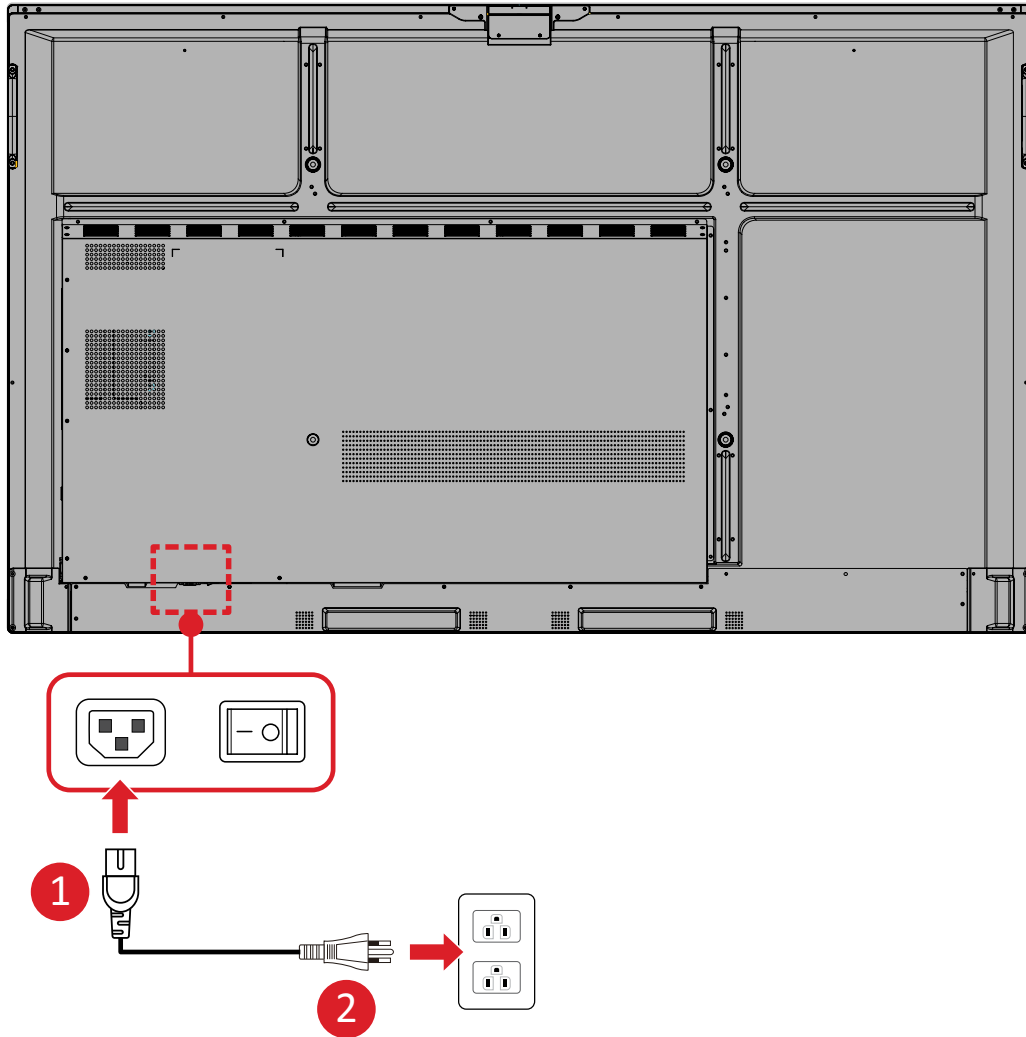
## Swipe Up for General Settings

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



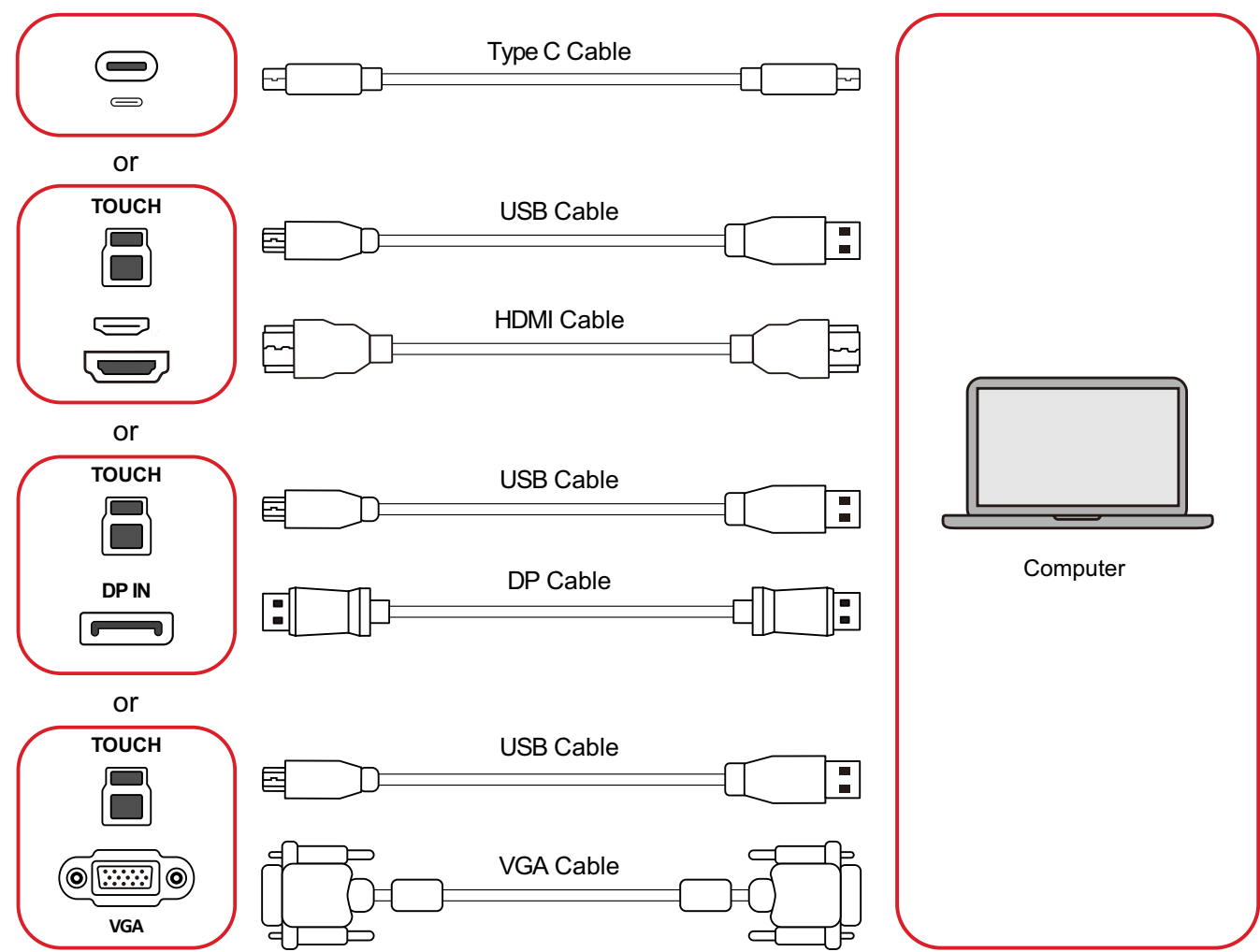
# Making Connections

## Connecting to Power



1. Connect the power cord to the **AC IN** jack at the rear of the display.
2. Plug the power cord plug into a power outlet.

# Connecting to Video Inputs and Enabling Touch



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

### **USB Type C Connection**

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

### **HDMI Connection**

1. Connect an HDMI cable from your external device to the **HDMI 1/2/3/4** port on the ViewBoard.
2. Connect a USB Type B to USB Type A cable to the external device from the appropriate **TOUCH** port of the ViewBoard.

#### **NOTE:**

- The **TOUCH 1** port is for the **HDMI 1/HDMI 2/DP/VGA** port.
- The **TOUCH 2** port is for the **HDMI 3/4** port.

### **DisplayPort Connection**

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

#### **NOTE:**

- The **TOUCH 1** port is for the **HDMI 1/HDMI 2/DP/VGA** port.
- The **TOUCH 2** port is for the **HDMI 3/4** port.

### **VGA Connection**

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

#### **NOTE:**

- The **TOUCH 1** port is for the **HDMI 1/HDMI 2/DP/VGA** port.
- The **TOUCH 2** port is for the **HDMI 3/4** port.

## RS-232 Connection

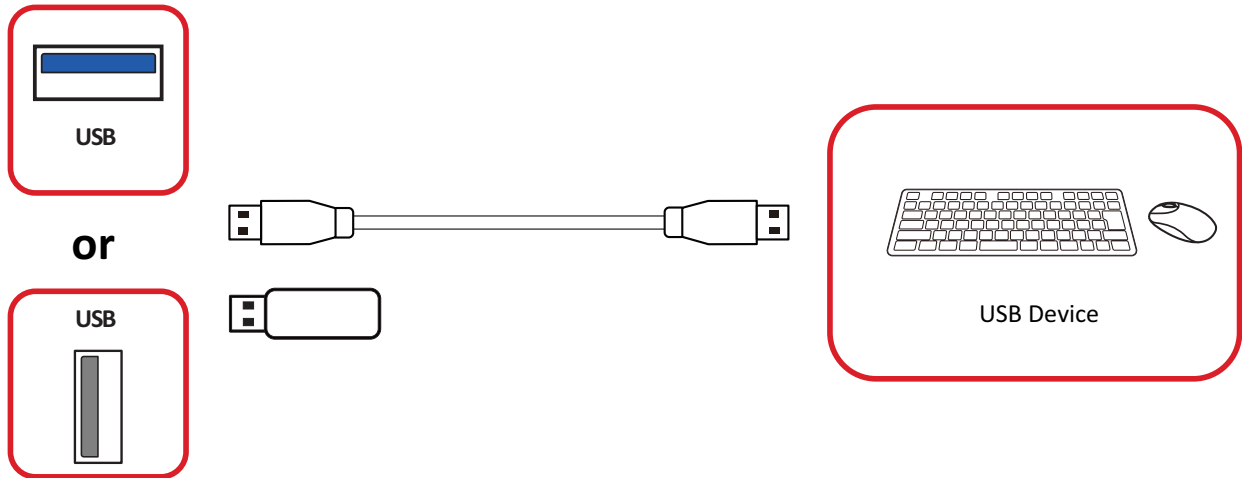


When you use a RS-232 serial cable to connect the ViewBoard to an external computer or control system, certain functions can be controlled remotely such as: power on and off, volume adjustment, input select, brightness, and more.

## USB and Network Connections

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

### USB Type A



Plug the USB device or storage drive into a **USB Type A** port at the front or side of the ViewBoard.

### Network and Modem



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

## Media Connection



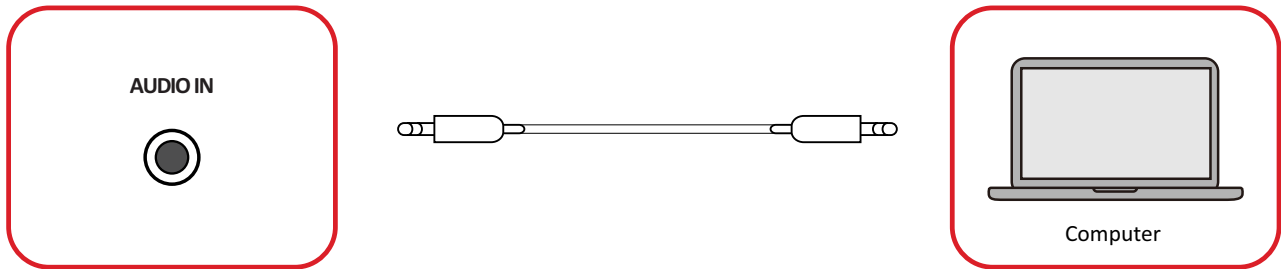
1. Connect an HDMI cable to a **HDMI** port on your ViewBoard and peripheral device.
2. Plug in the power cord of your ViewBoard, and turn on the Power Supply Switch.
3. Press the **Power** ⏻ button on the ViewBoard to turn the screen on.
4. Press the **INPUT** button on the remote control and switch to the HDMI input source.



## Audio Connection

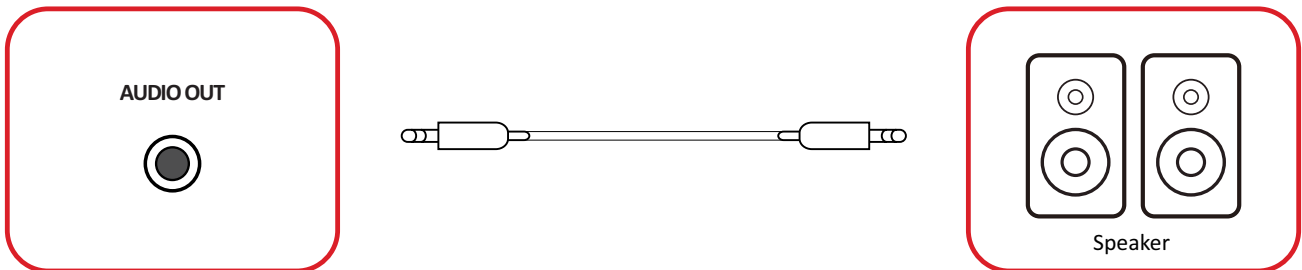
The ViewBoard supports **Audio In**, **Audio Out**, and **SPDIF**.

### Audio In



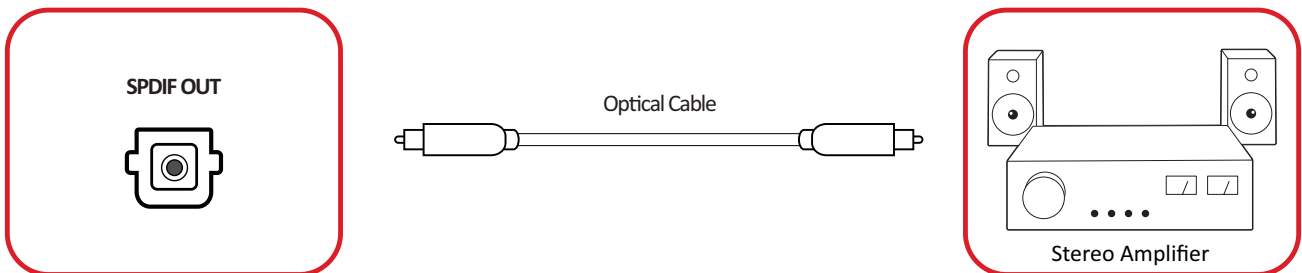
To play audio from your external device through the ViewBoard's speakers, connect one end of an audio cable to your external device, and the other end to the ViewBoard's **AUDIO IN** port.

### 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 Power Supply Switch.
3. Press the **Power**  button on the ViewBoard to turn the screen on.

# Video Output Connection

## HDMI Out



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 the ViewBoard.
2. Plug in the power cord of the ViewBoard, and turn on the Power Supply Switch.
3. Press the **Power** ⏻ button on the ViewBoard to turn the screen on.
4. Press the **INPUT** button on the remote control and switch to the HDMI IN input source.

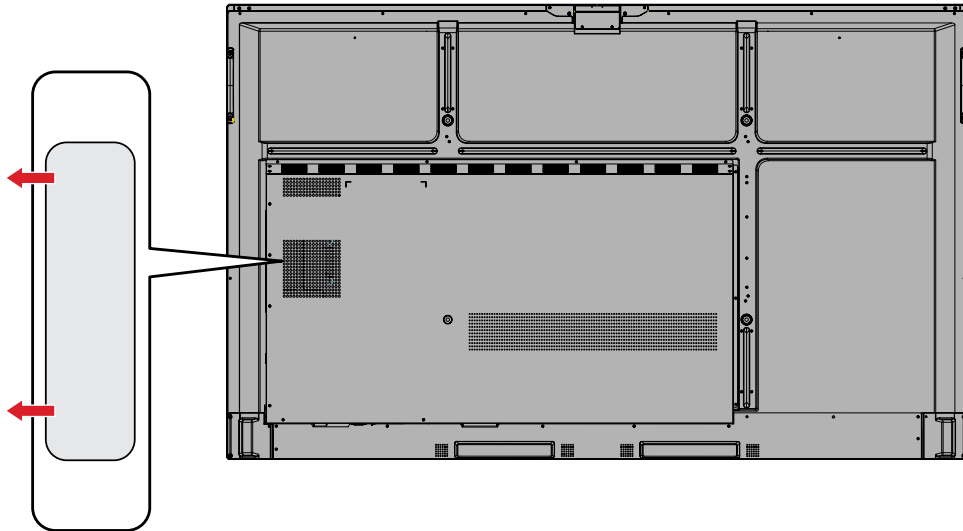
## Optional Connections

**NOTE:** The following illustrations are for instructional purpose only. For details, please refer to the actual device.

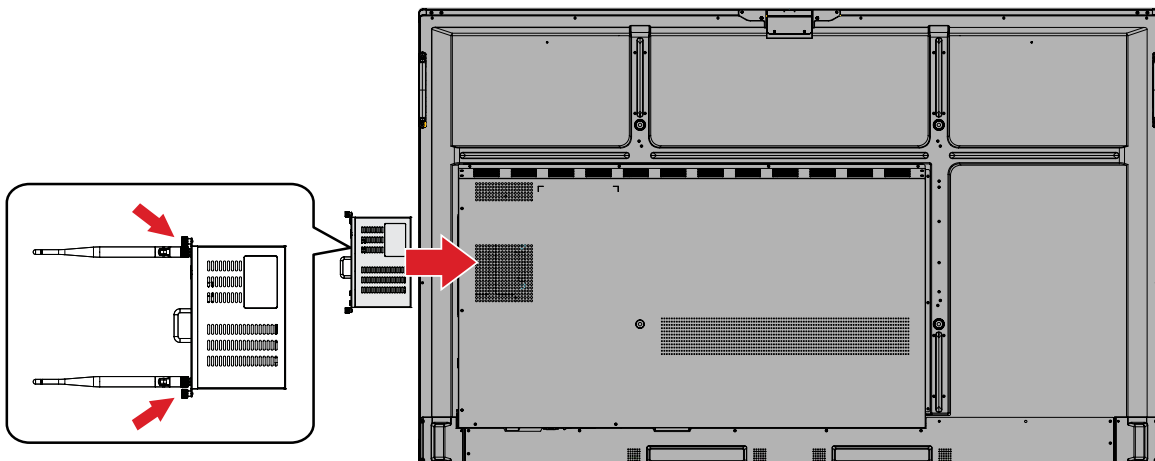
The ViewBoard comes with an **OPS Slot** as well as a **Wi-Fi Slot** for optional add-ons such as a slot-in PC (e.g., VPC-35) or Wi-Fi card (e.g., VB-WIFI-005).

### Slot-in PC (OPS Slot) Installation

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



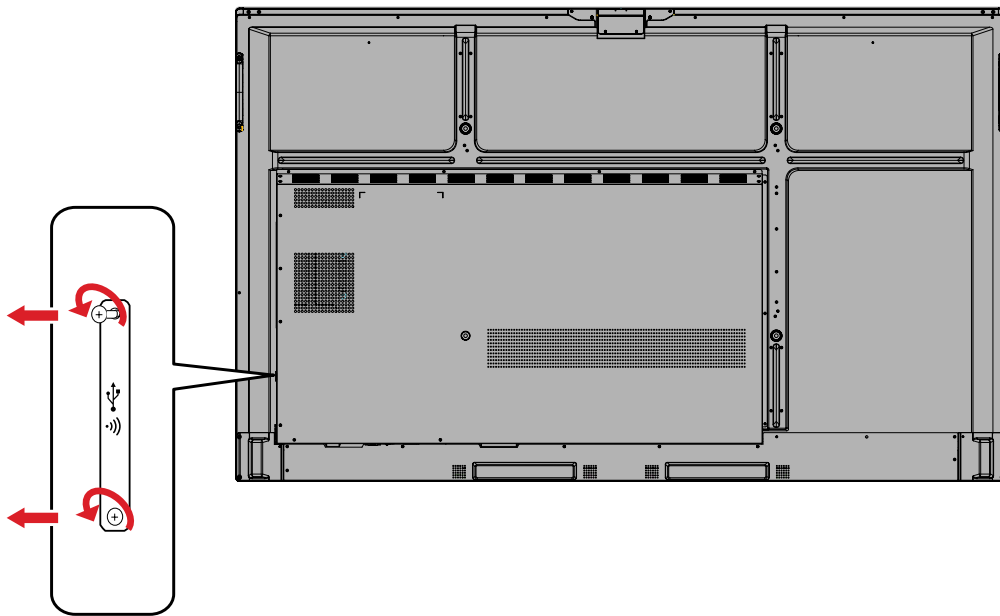
2. Carefully insert the slot-in PC into the **OPS Slot** of the ViewBoard.



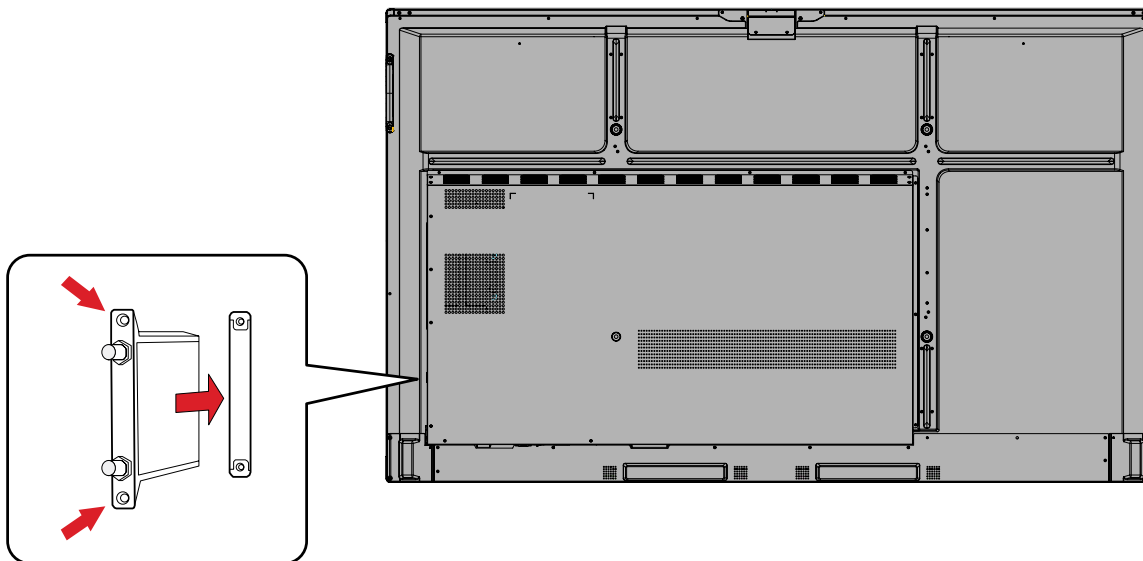
3. Secure the slot-in PC to the ViewBoard.

## Wi-Fi Card (Wi-Fi Slot) Installation

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



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

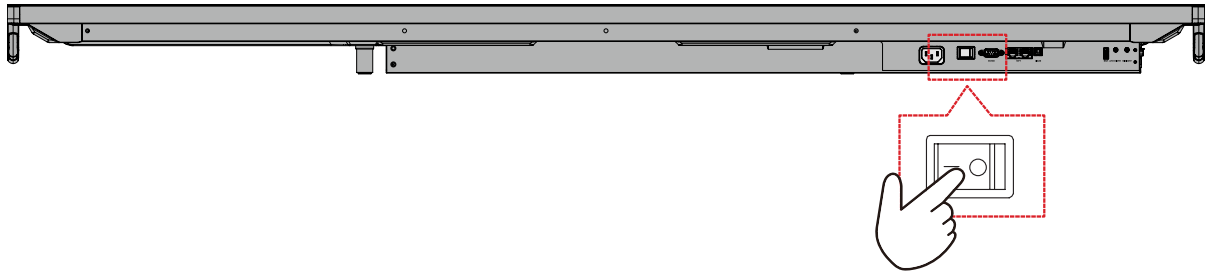


3. Secure the slot-in Wi-Fi card to the ViewBoard.

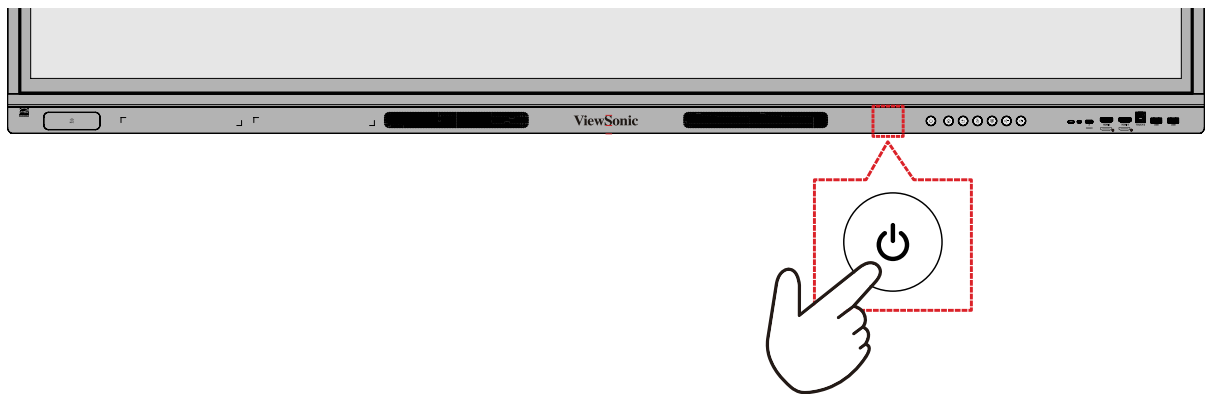
# Using Your ViewBoard

## Turning On/Off the ViewBoard

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



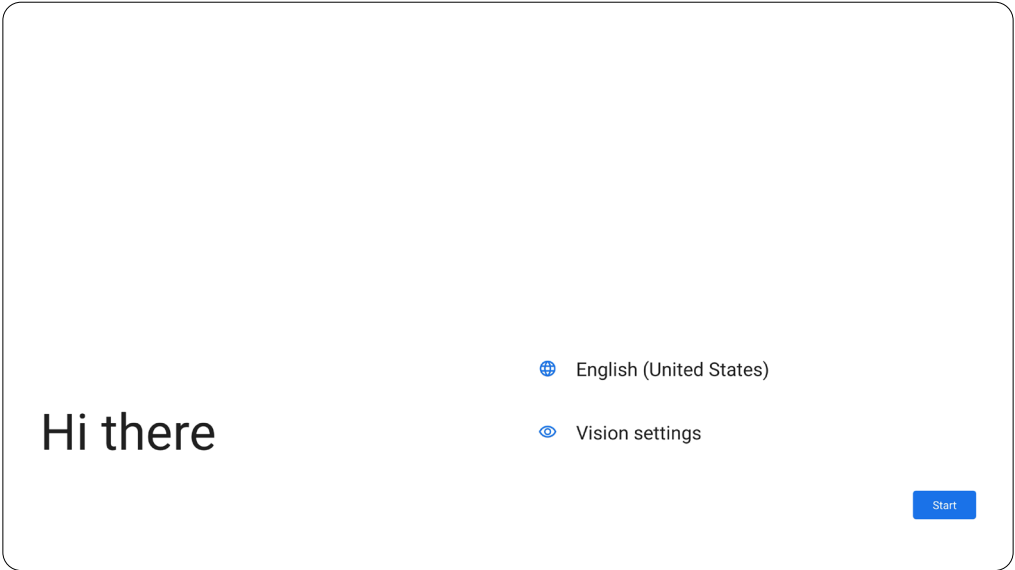
2. Press the **Power** ⏻ button to turn on the ViewBoard.



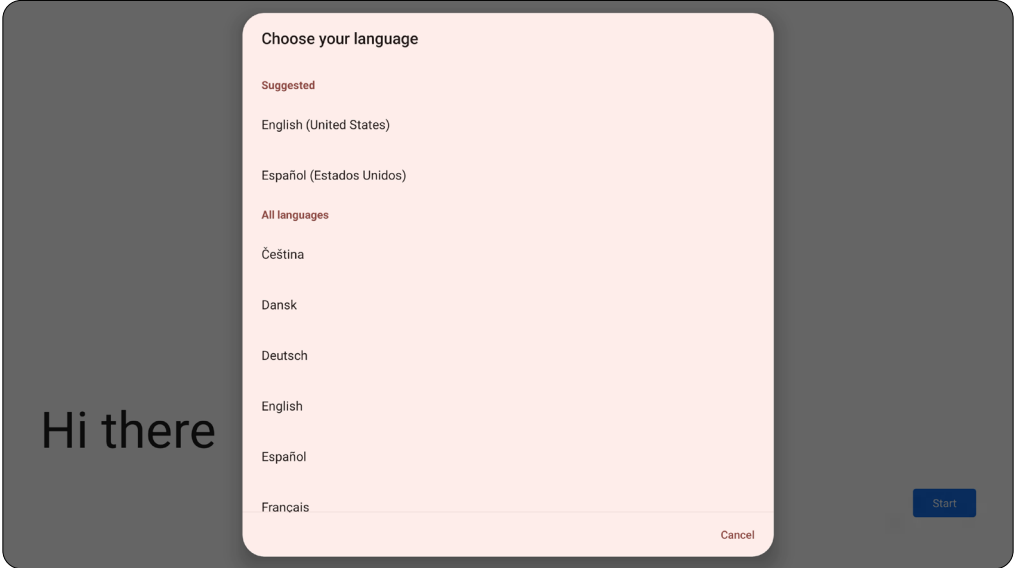
3. To turn the ViewBoard off, press and hold the **Power** ⏻ button.

# Initial Launch Setup

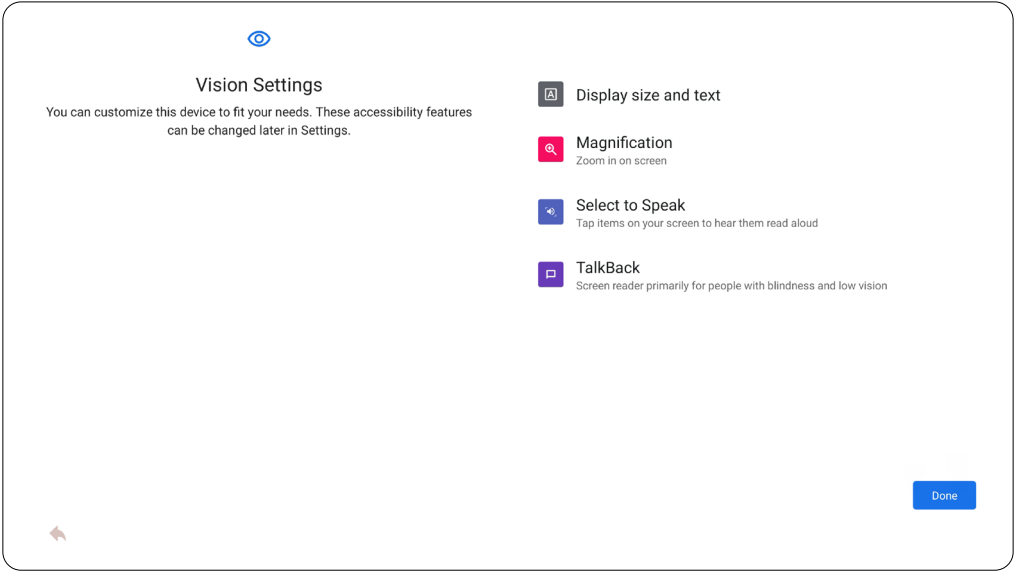
When you first turn on your ViewBoard, an initial setup wizard will launch.



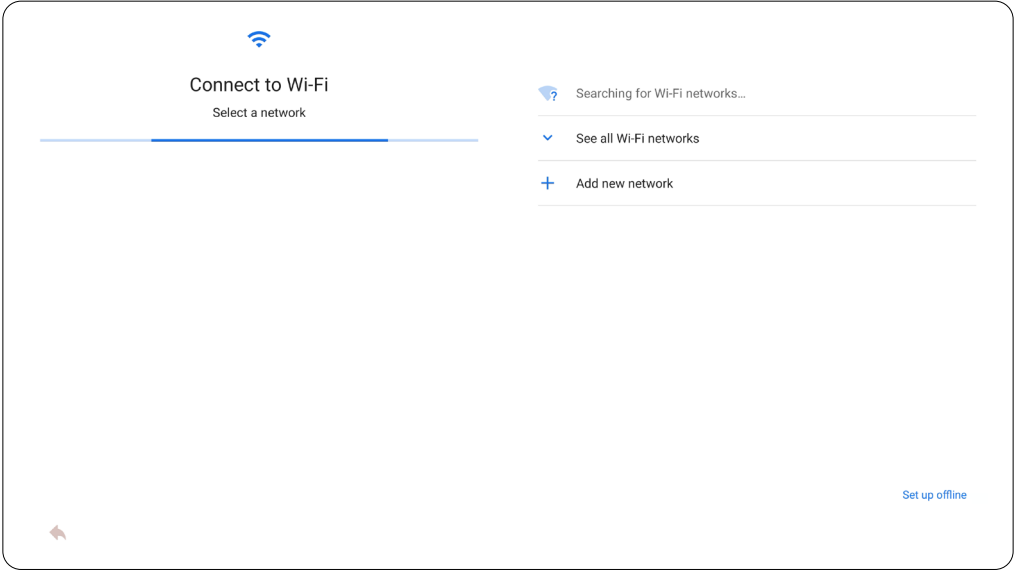
## 1. Choose your preferred Language.



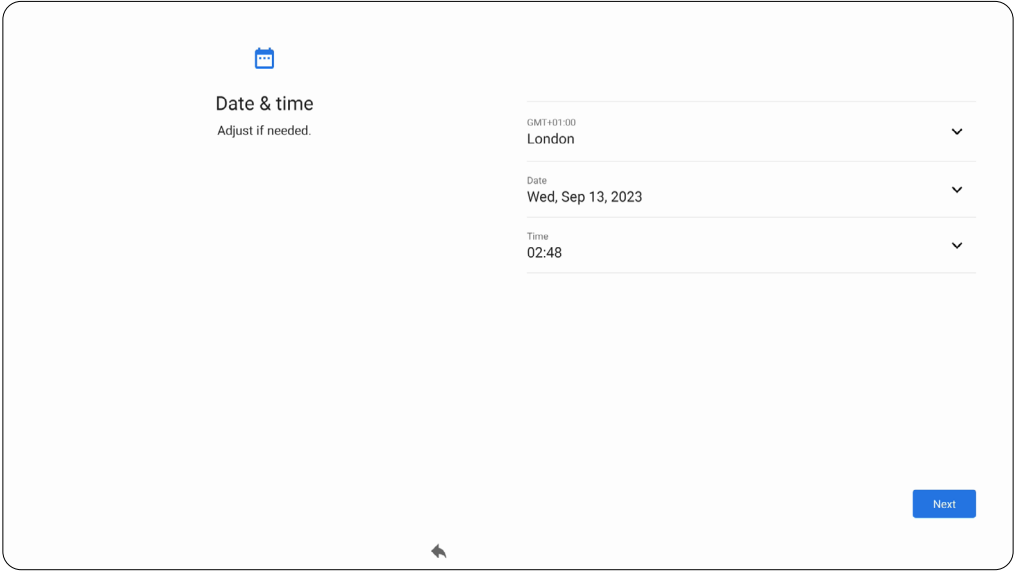
2. Adjust accessibility features as needed.



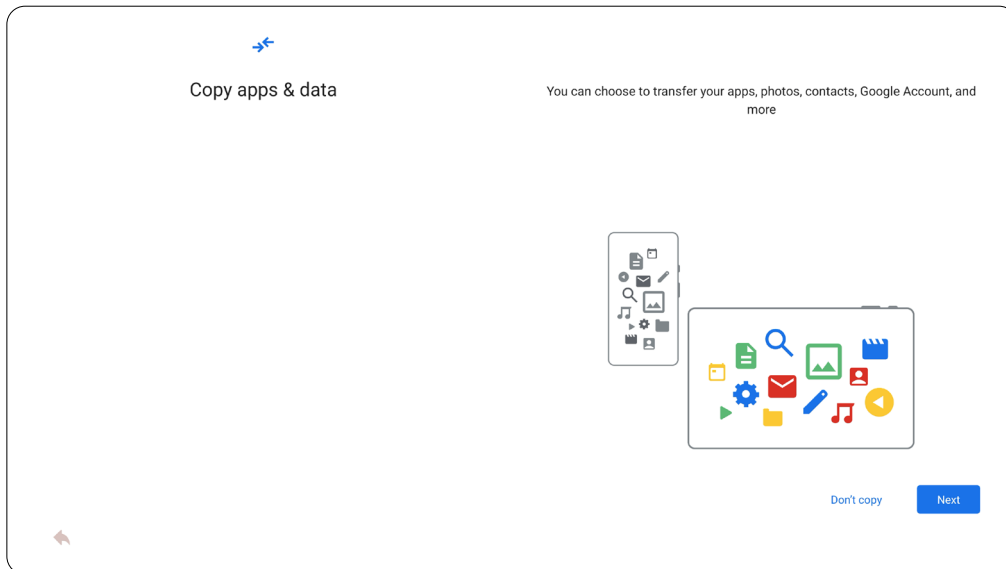
3. Setup and connect to a network.



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

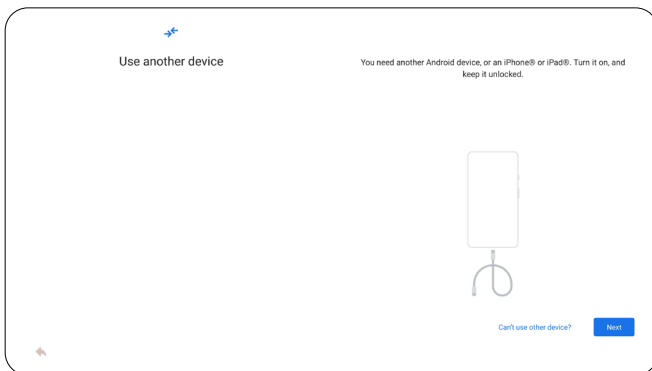


## 5. Copy your apps and data from another device to the ViewBoard.

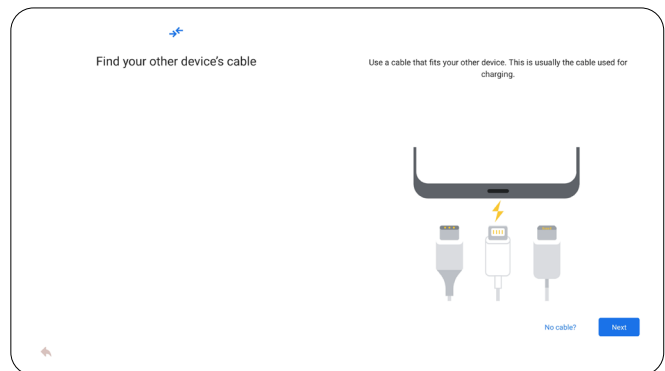


- If you want a fresh start, tap **Don't copy**.
- To start copying and transferring your apps and data, tap **Next**.
  - » If you use a USB cable to copy and transfer data, connect the cable to your devices and follow the on-screen directions to start transfer.
  - » If you don't have a cable, tap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

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



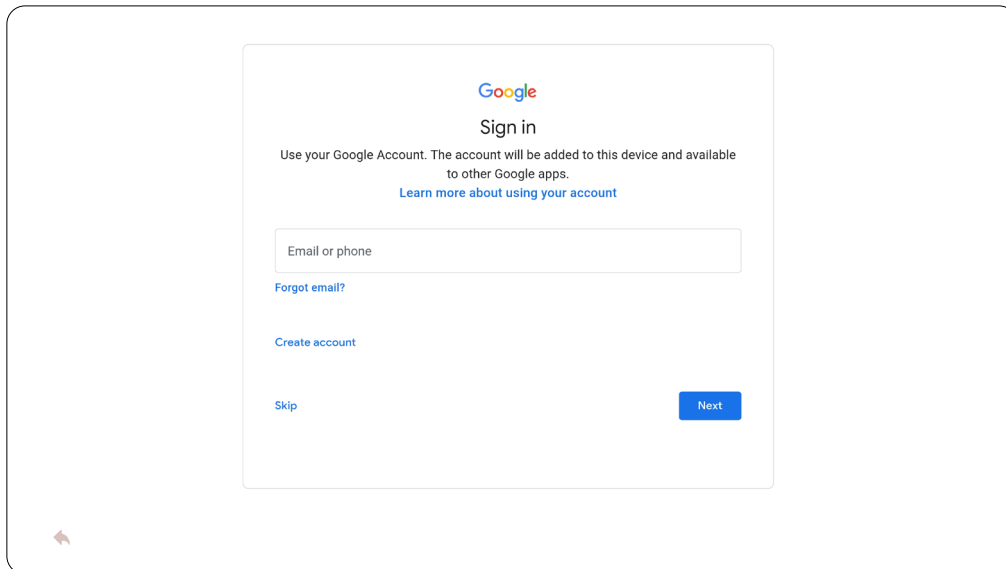
*Transferring data with a USB cable*



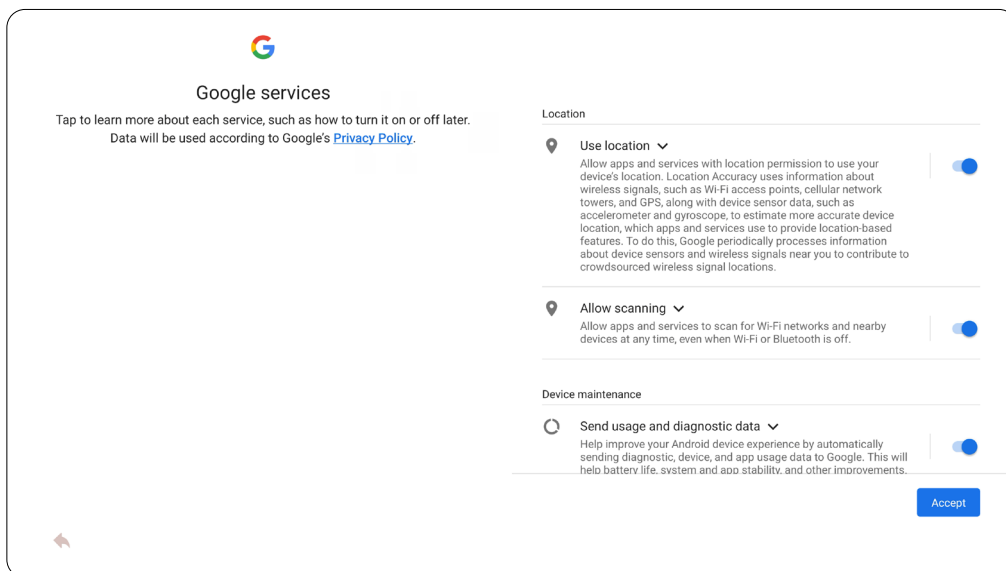
*Transferring data wirelessly*



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

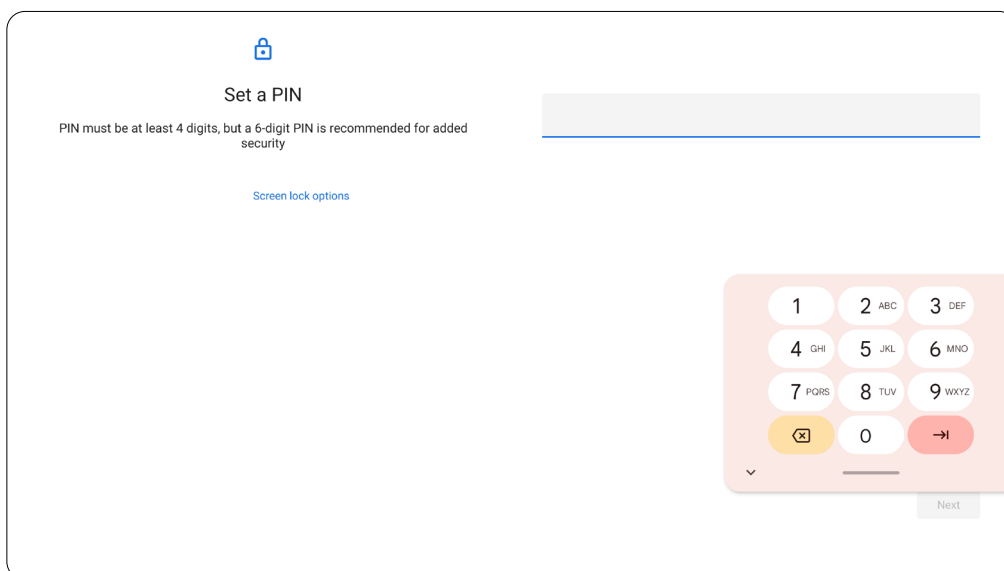


## 7. Accept or decline the Google services.

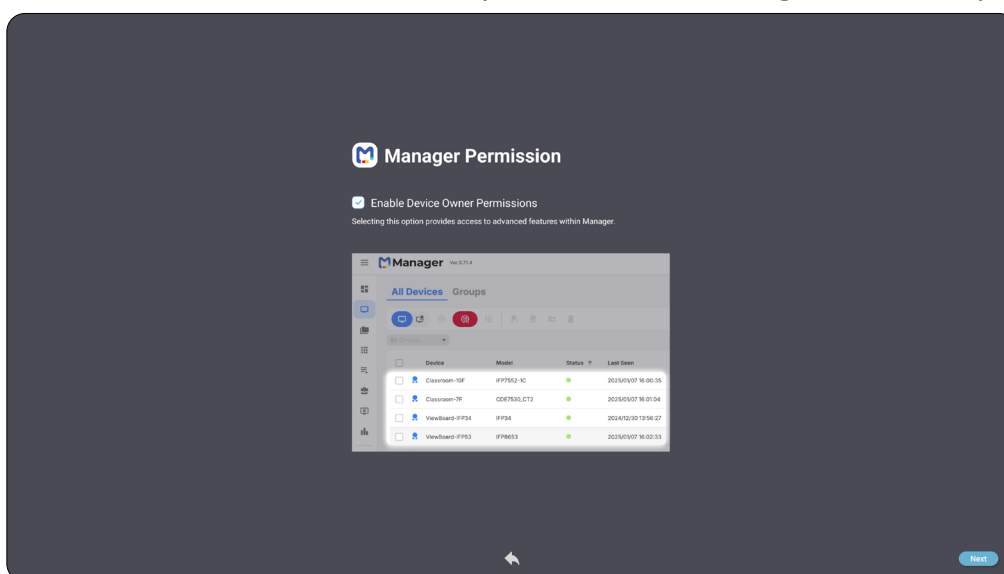


8. Set a PIN to setup a Screen lock. Then, tap **Next**, enter the PIN again, and tap **Confirm**.

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

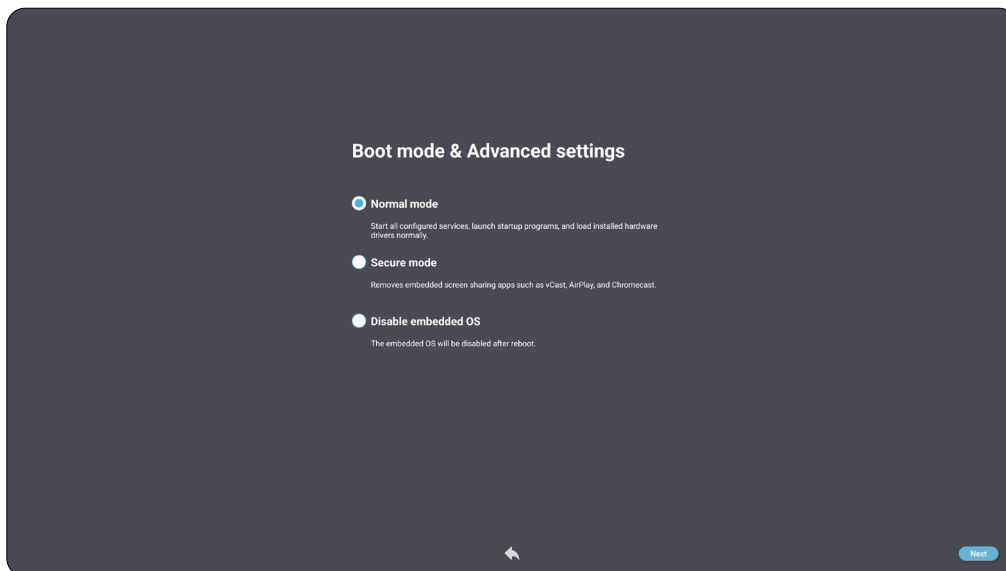


9. Select **Enable Device Owner Permissions** to confirm the ownership and gain access to the advanced features on myViewBoard Manager. Then, tap **Next**.



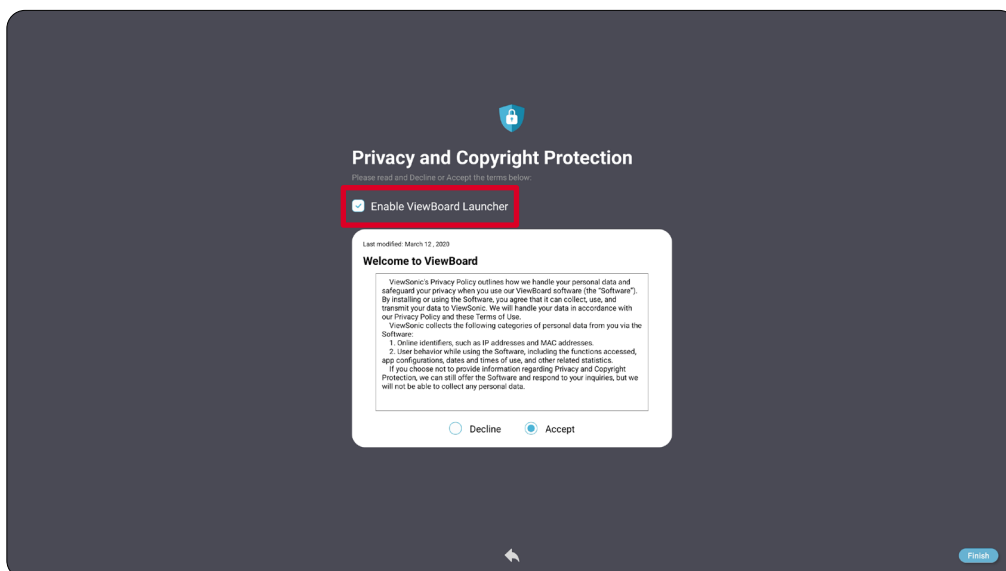
| Device         | Model       | Status | Last Seen           |
|----------------|-------------|--------|---------------------|
| Classroom-10P  | FP7502-1C   | Online | 2023/07/07 16:06:06 |
| Classroom-7P   | OD67030.CT3 | Online | 2023/07/07 16:07:04 |
| ViewBoard-PP54 | FP724       | Online | 2023/07/07 13:56:27 |
| ViewBoard-PP53 | FP6653      | Online | 2023/07/07 16:02:33 |

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

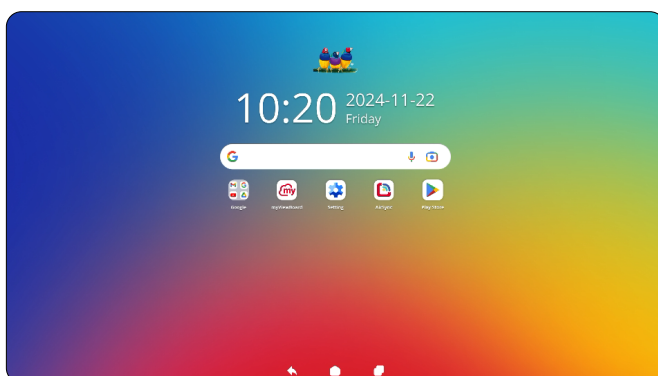


11. Select the preferred Operating System (OS) launcher.

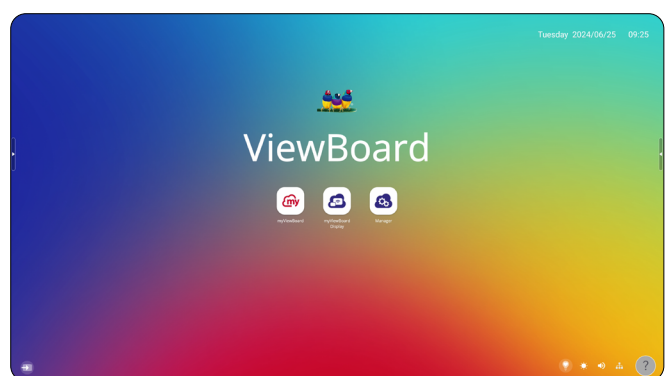
- Select **Enable ViewBoard Launcher** for the ViewBoard launcher scheme.
- Deselect **Enable ViewBoard Launcher** for the Android launcher scheme.



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

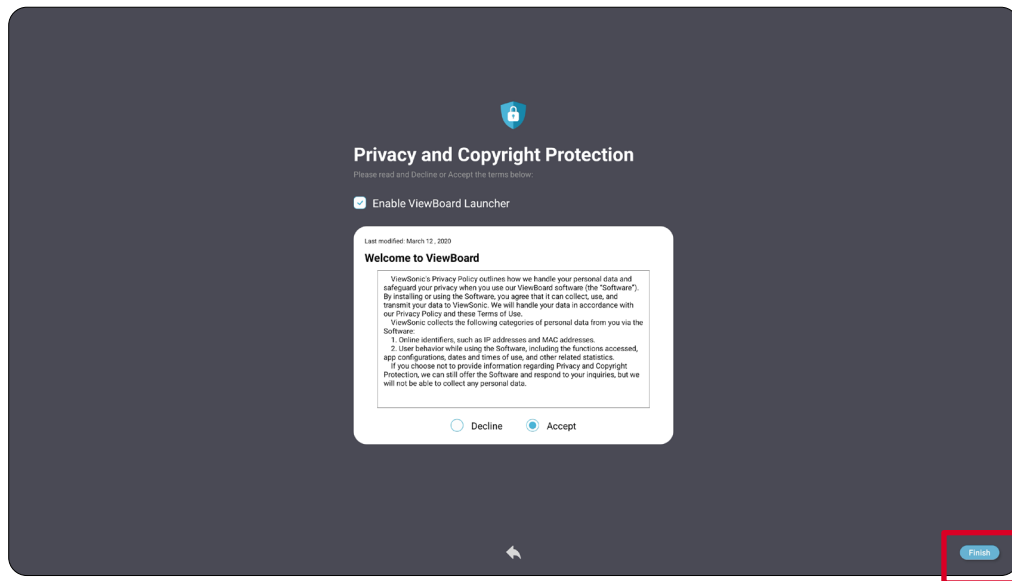


*Android Launcher (Scheme A)*



*ViewBoard Launcher (Scheme B)*

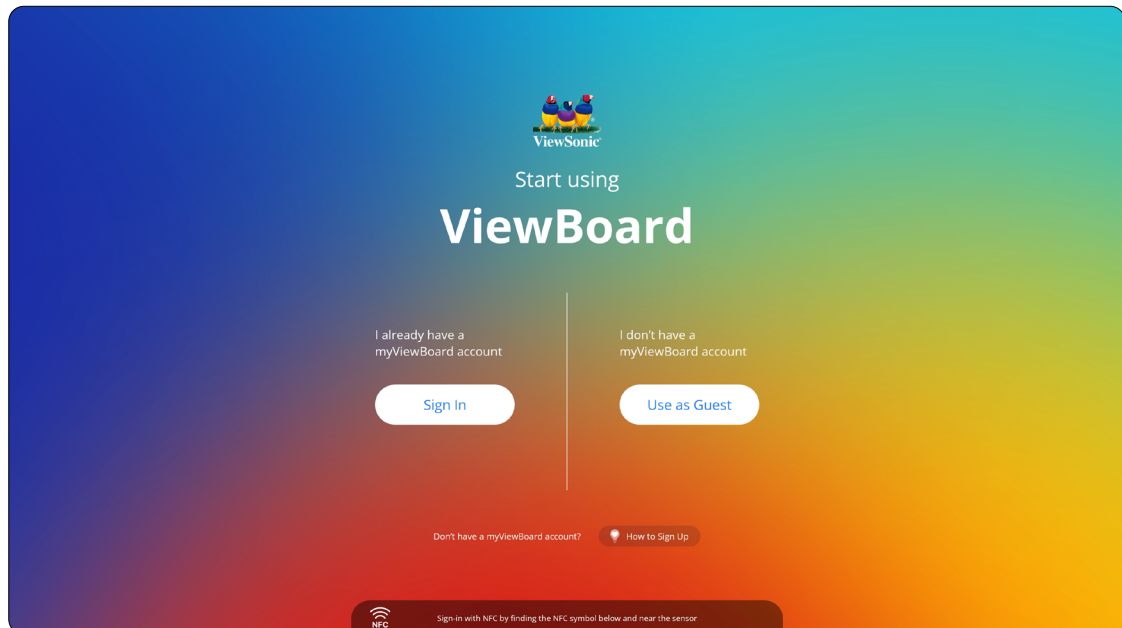
**12.** Accept or decline the Privacy and Copyright Protection terms. Then, tap **Finish** to complete the initial setup.



## Home Screen

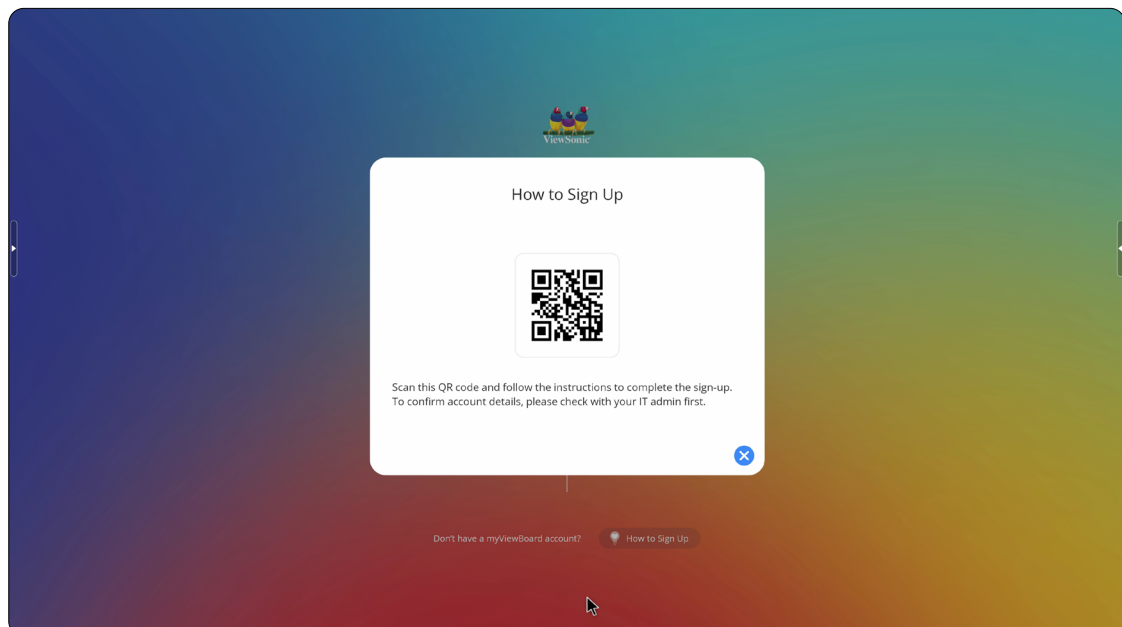
**NOTE:** The Home Screen layout varies between the two Launchers. Use the following ViewBoard Launcher example as a general reference only.

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



## How to Sign Up

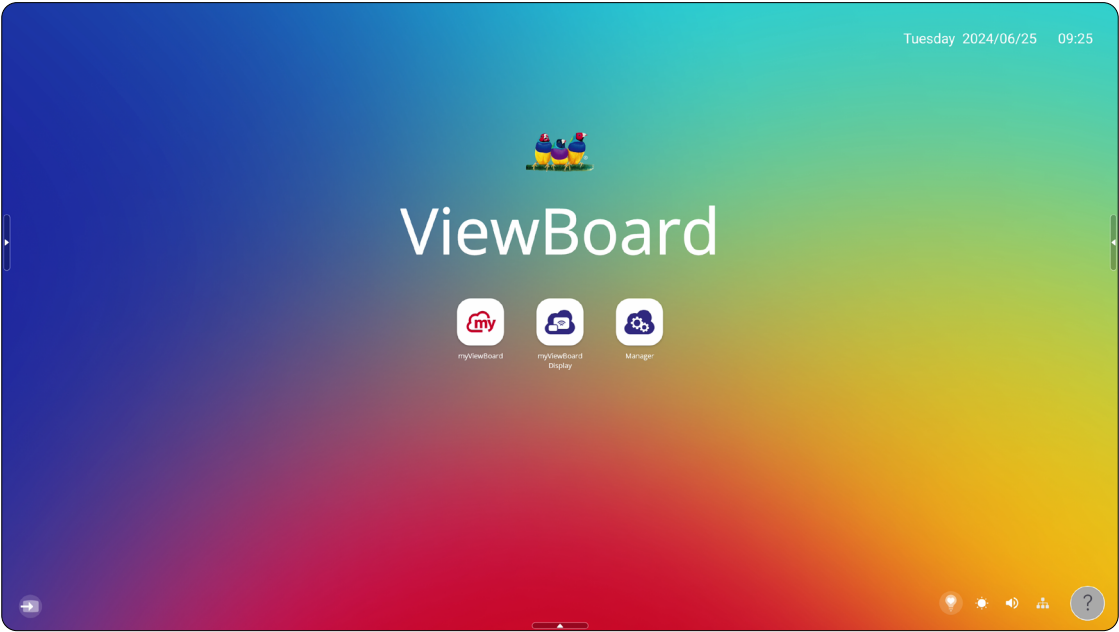
Select the **How to Sign Up** button at the bottom of the screen, then scan the QR code and follow the directions to log in.



## Use as Guest

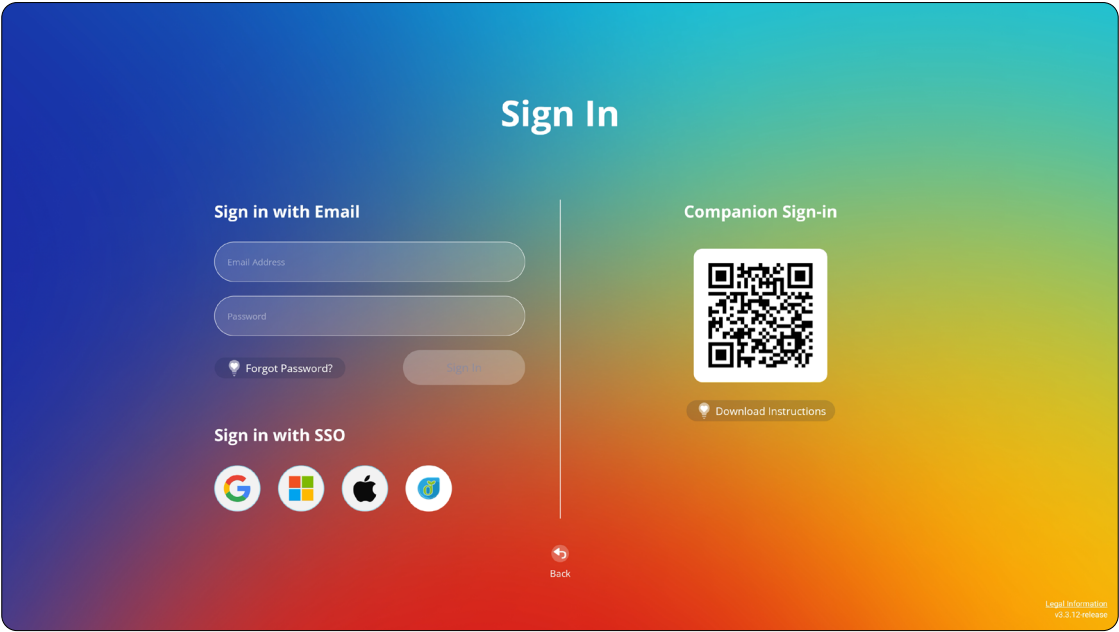
Select the **Use as Guest** button to log in with a guest account.

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



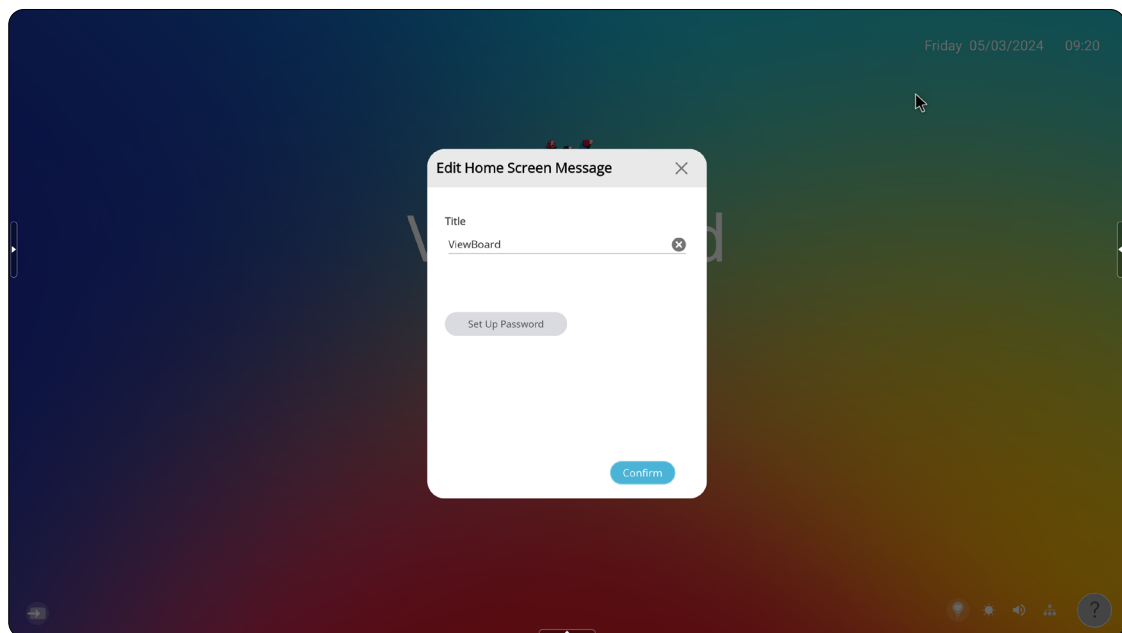
## Sign In

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



## Home Screen Message

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

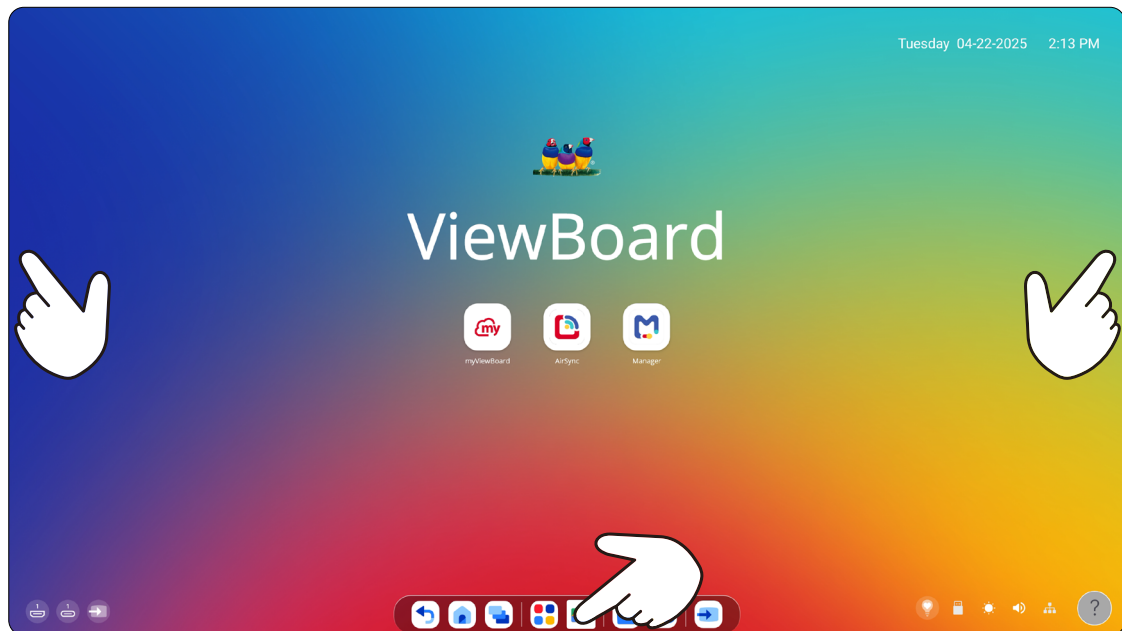


Additionally, a password can be set by selecting the **Set Up Password** button.



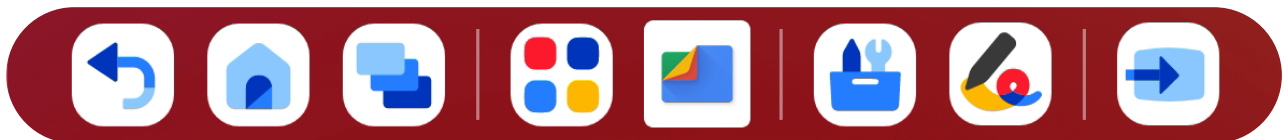
# Toolbar

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



To launch an application or tool:

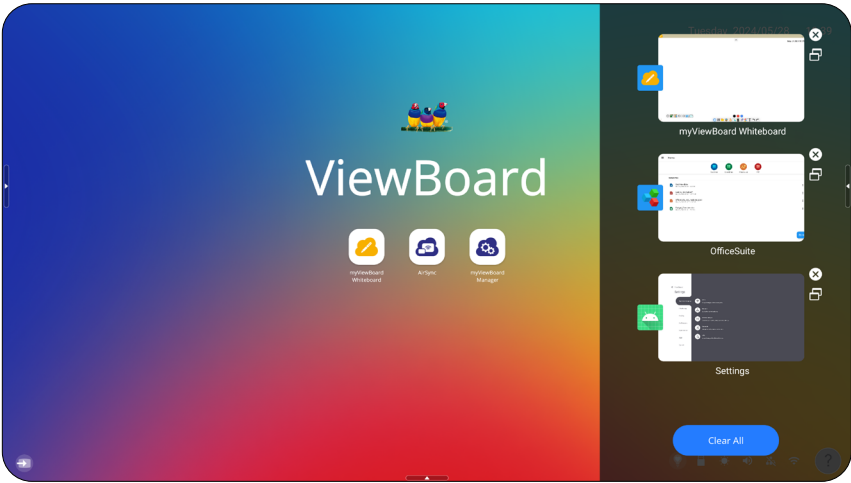
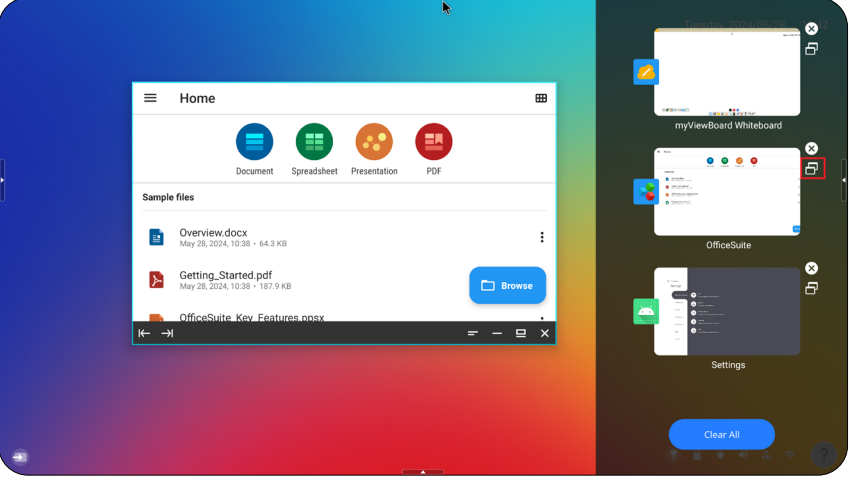
1. Tap a Toolbar trigger icon.
2. Tap on your desired application or tool.



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



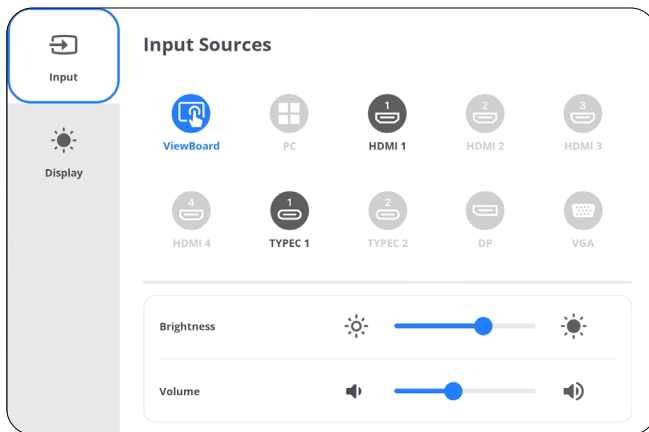
## Toolbar Icons

| Icon                                                                                                       | Description                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Return</b>         | Return to the previous operation screen.<br><b>NOTE:</b> Only for the ViewBoard source.                                                                                                                                                                                                                                                              |
| <br><b>Home</b>           | Return to the Home Screen.                                                                                                                                                                                                                                                                                                                           |
| <br><b>Recent</b>       | <p>Display all currently open applications.</p>  <p>Select the small frame to display in a PIP window.</p>  <p><b>NOTE:</b> Selecting the “X” will close the application.</p> |
| <br><b>Applications</b> | View all installed applications.                                                                                                                                                                                                                                                                                                                     |
| <br><b>File Folder</b>  | Browse and open files.                                                                                                                                                                                                                                                                                                                               |

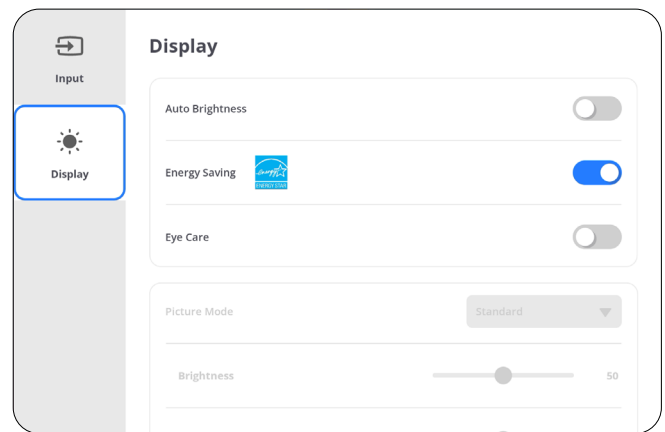
| Icon                                                                                                     | Description                                                                                                        |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <br><b>Tools</b>        | Quickly view and adjust various frequently used tools.                                                             |
| <br><b>Marker</b>       | Annotate with underlying, highlighting, and more.<br><b>NOTE:</b> Pick up the Touch Pen to turn on <b>Marker</b> . |
| <br><b>Input Source</b> | Select and change the input source signal.                                                                         |

# On-Screen Display (OSD) Menu - General Settings

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

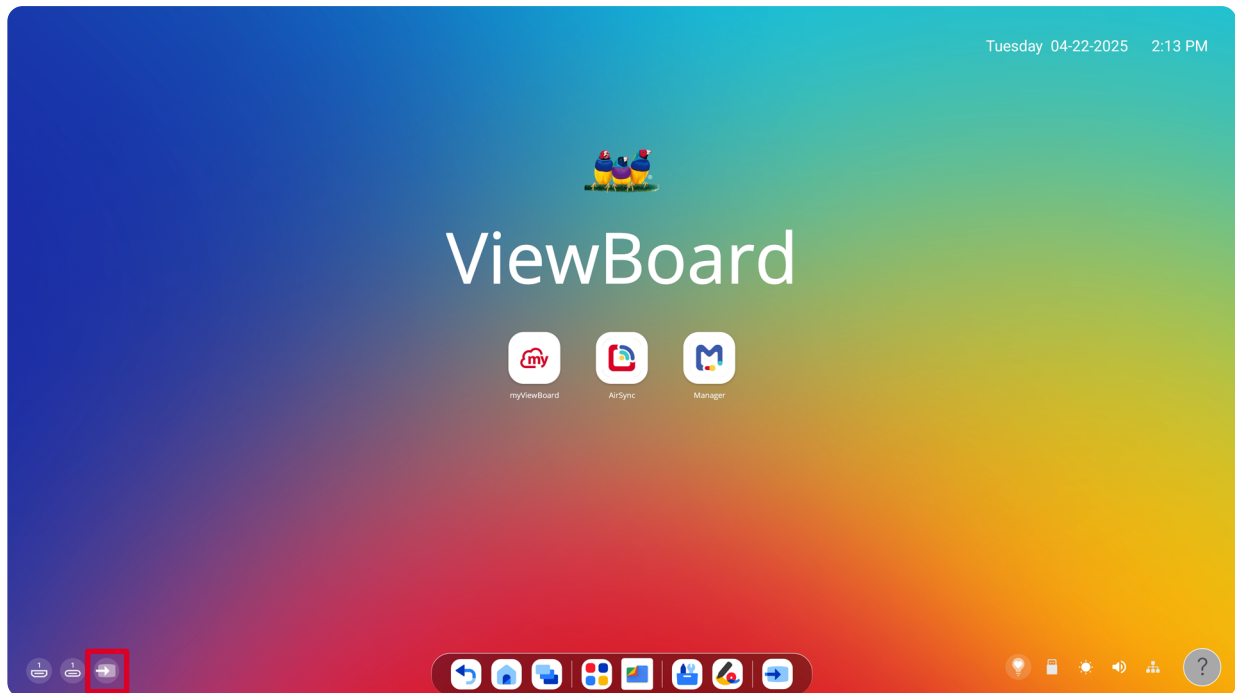


*Input Settings*

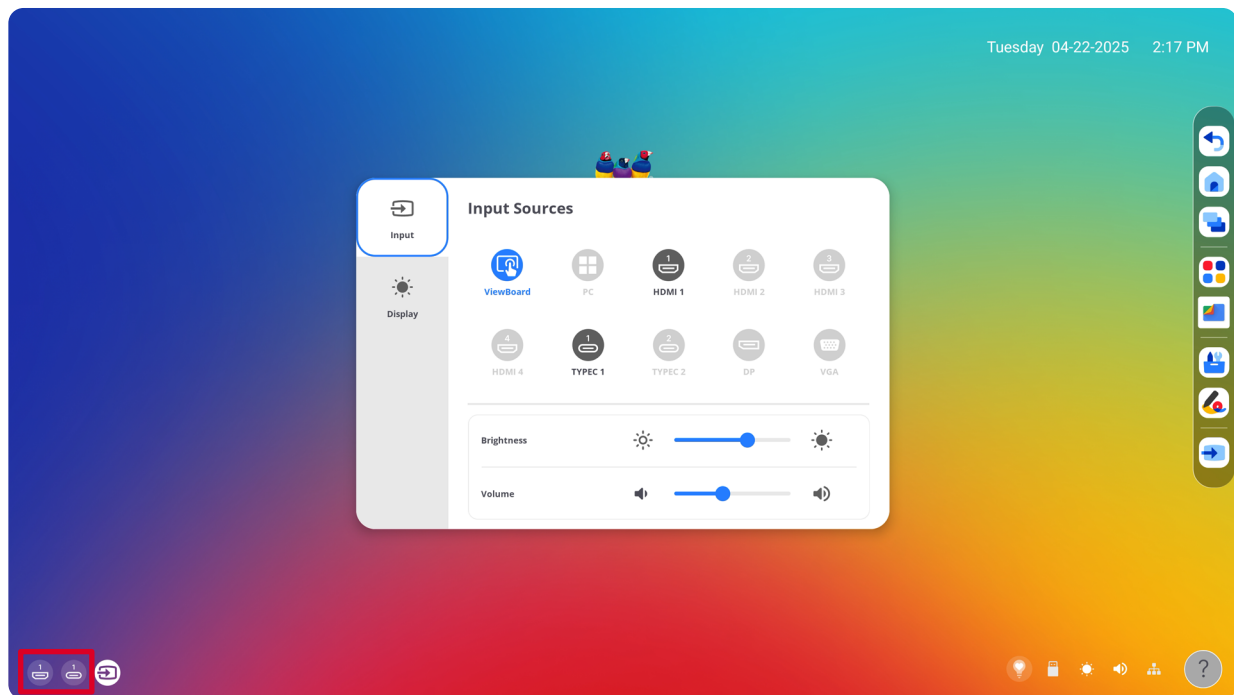


*Display Settings*

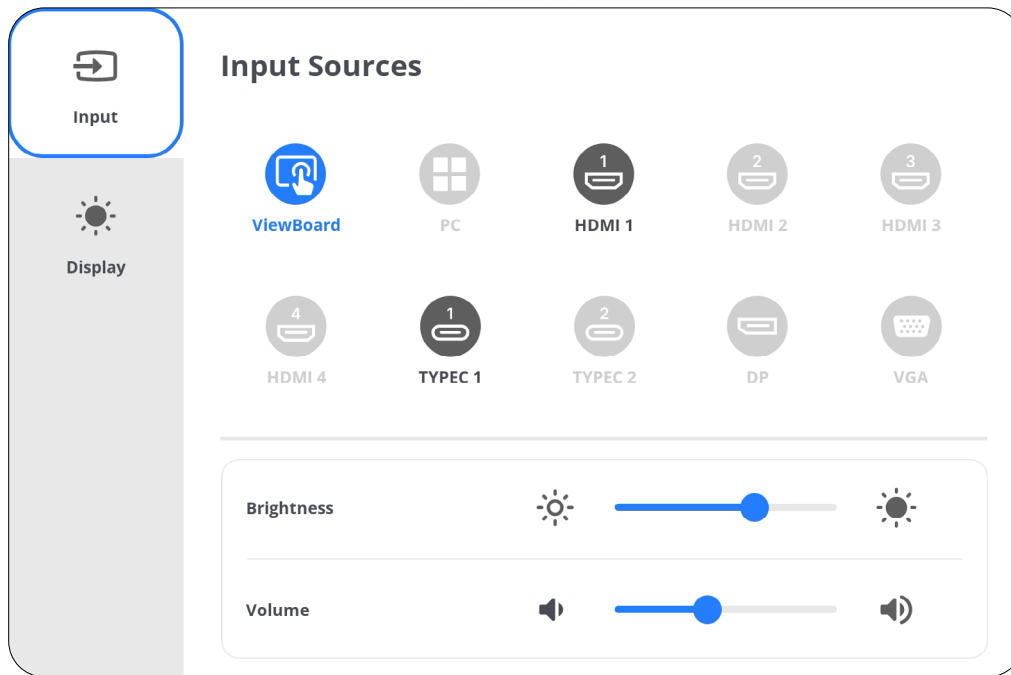
Open the OSD Menu by pressing **INPUT** on the remote control or tapping the **Input Source** icon (➡).



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



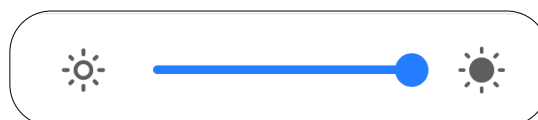
## Input Settings



To select an input source:

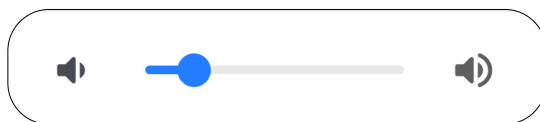
1. Press **INPUT** on the remote control or tap the **Input Source** icon (➡) to display the **Input Settings** menu.
2. Press ▲/▼/◀/▶ on the remote control to select the input source you want.  
  
**NOTE:** The PC source will only be visible when a slot-in computer is installed.
3. Press **ENTER**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

To adjust the brightness:



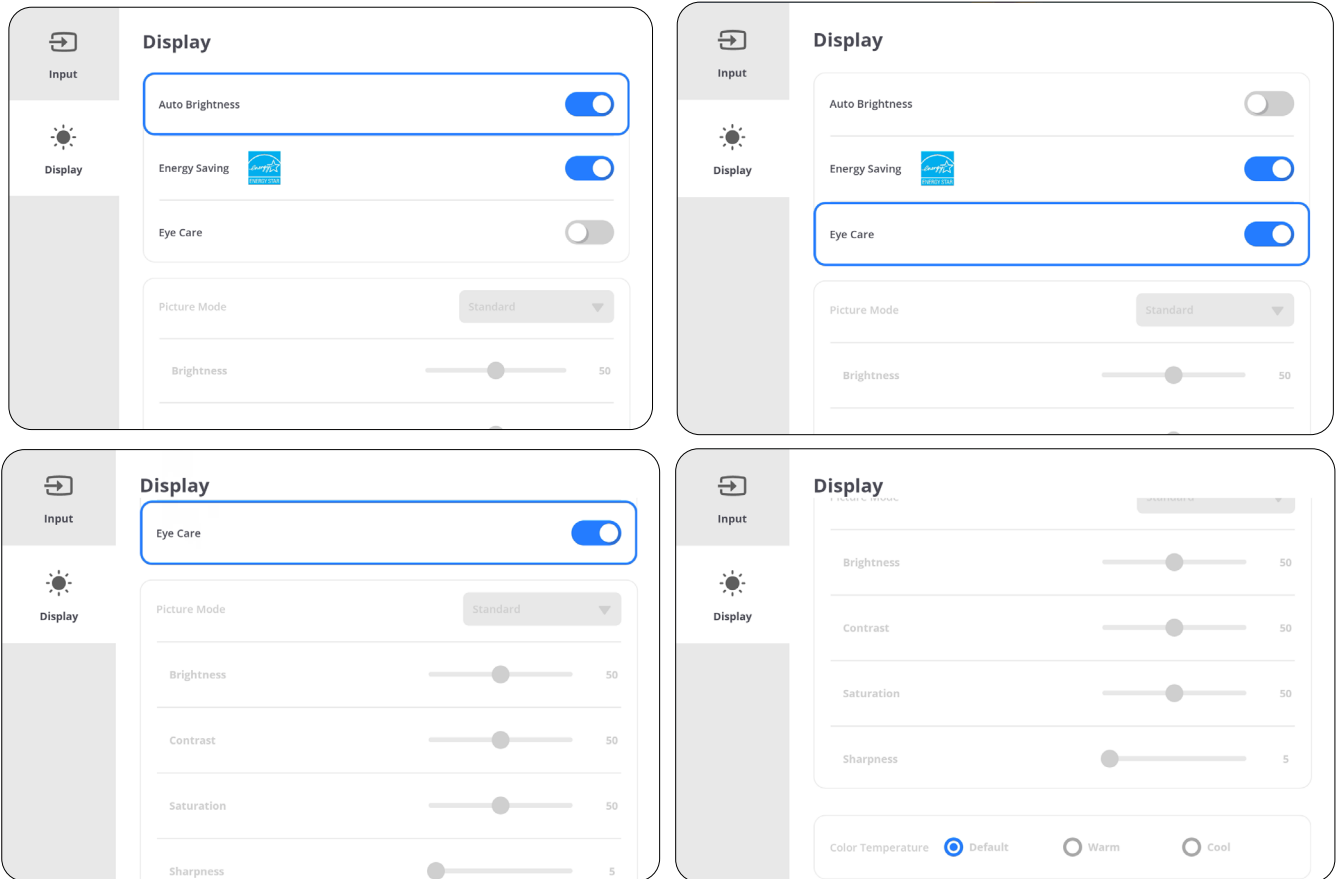
1. Press **INPUT** on the remote control or tap the **Input Source** icon (➡) to display the **Input Settings** menu.
2. Drag the brightness slider directly to adjust the backlight value.
3. Press **BACK** (⏪) on the remote control, or tap a blank area outside of the menu to exit.

To adjust the volume:



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

## Display Settings



To adjust the display settings:

1. Press **INPUT** on the remote control or tap the **Input Source** icon (➔) to display the **Input Settings** menu. Then select the **Display** tab.
2. Press ▲/▼/◀/▶ 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, tap/adjust the menu option directly.
4. Press **BACK** (⏪) on the remote control, or tap a blank area outside of the menu to exit.

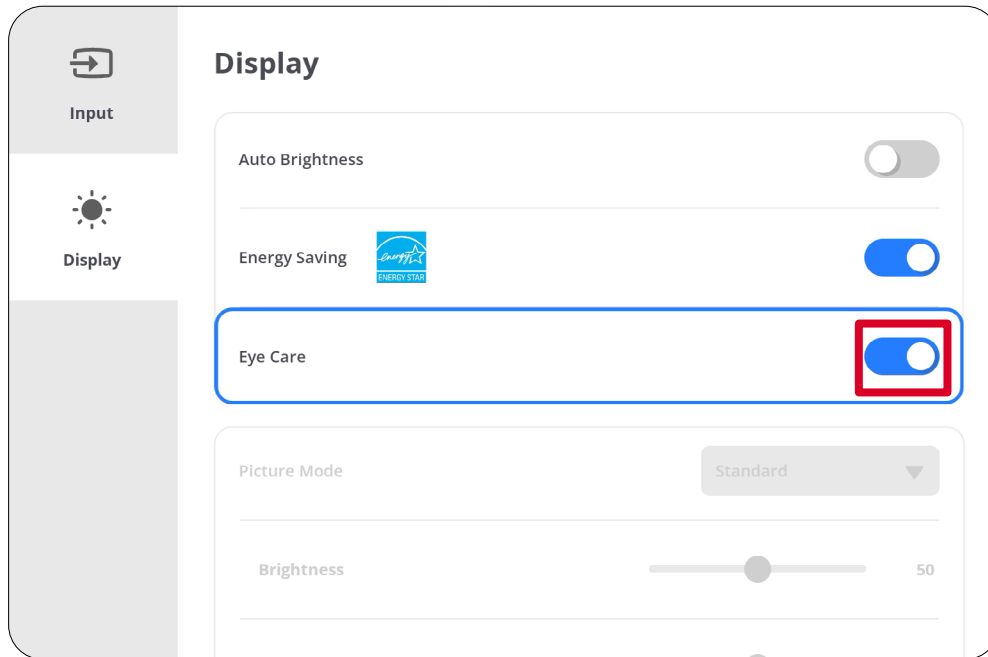
## Display Settings - Menu Options

| 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.                                                                                                                                                               |                                                                                                                                                 |
| 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        | Adjust the background black levels of the screen.                                                                                                                                                                                                              |                                                                                                                                                 |
| 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 <b>Brightness</b> setting to suit your selected input and viewing environment. |                                                                                                                                                 |
| Saturation        | Adjust the amount of color present.                                                                                                                                                                                                                            |                                                                                                                                                 |
| Sharpness         | A high value results in a sharper picture; a low value softens the picture.                                                                                                                                                                                    |                                                                                                                                                 |
| Color Temperature | Adjust the color temperature value.                                                                                                                                                                                                                            |                                                                                                                                                 |



## Eye Care

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



## Calculating Breaks

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

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

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

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

## Looking at Distant Objects

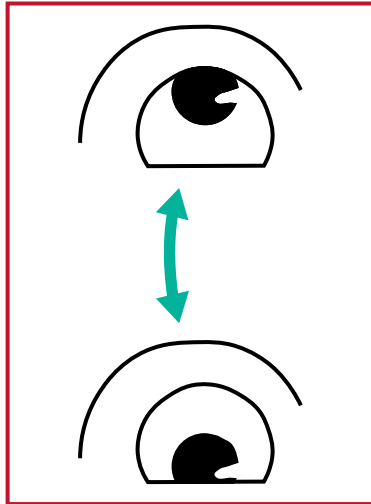
While taking breaks, users can further reduce eye strain and dryness by focusing on objects that are further away from them for 10-15 seconds, then gaze at something up close for 10-15 seconds. Repeat this up to 10 times. This exercise reduces the risk of your eyes' focusing ability to "lock up" after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

## Eye and Neck Exercises

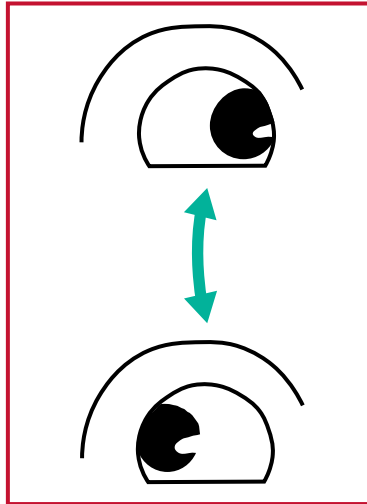
### Eye Exercises

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

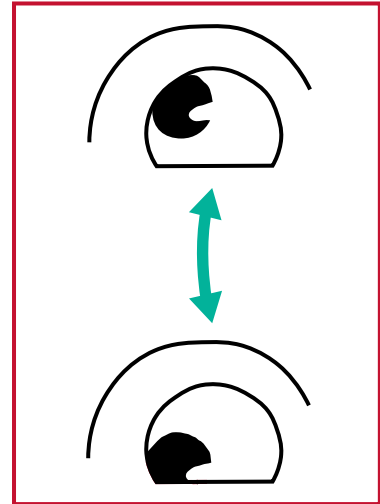
#### Exercises for the eyes



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



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



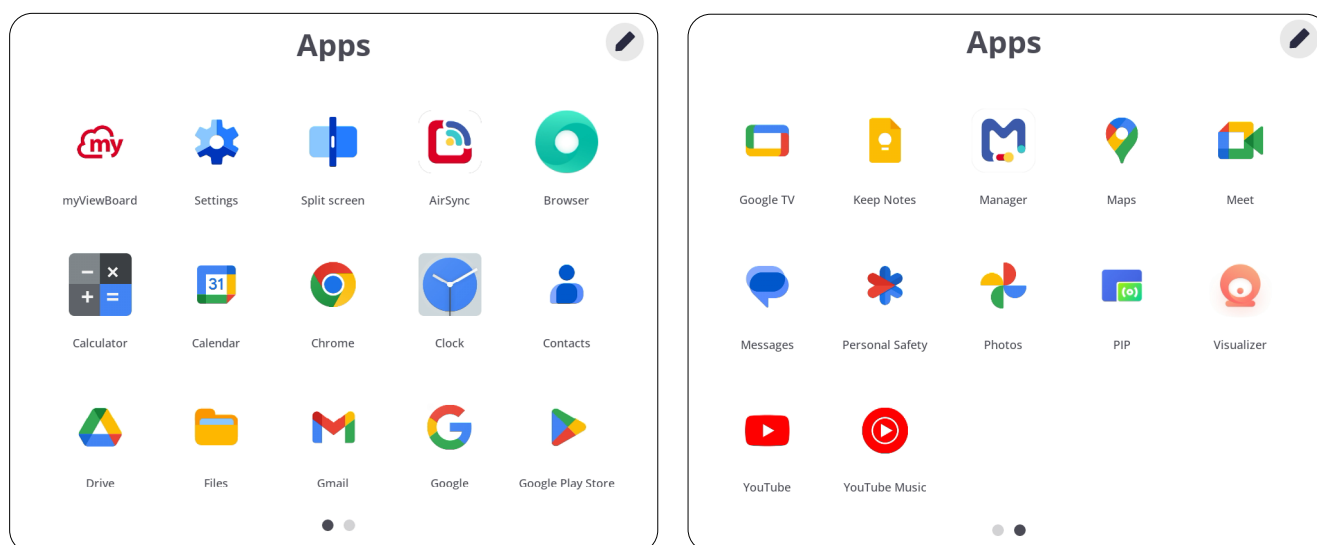
(3) Move the eyes to look at objects at the right upper direction and then right lower direction. Repeat for the left upper and left lower directions.

### Neck Exercises

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

# Applications

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



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

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

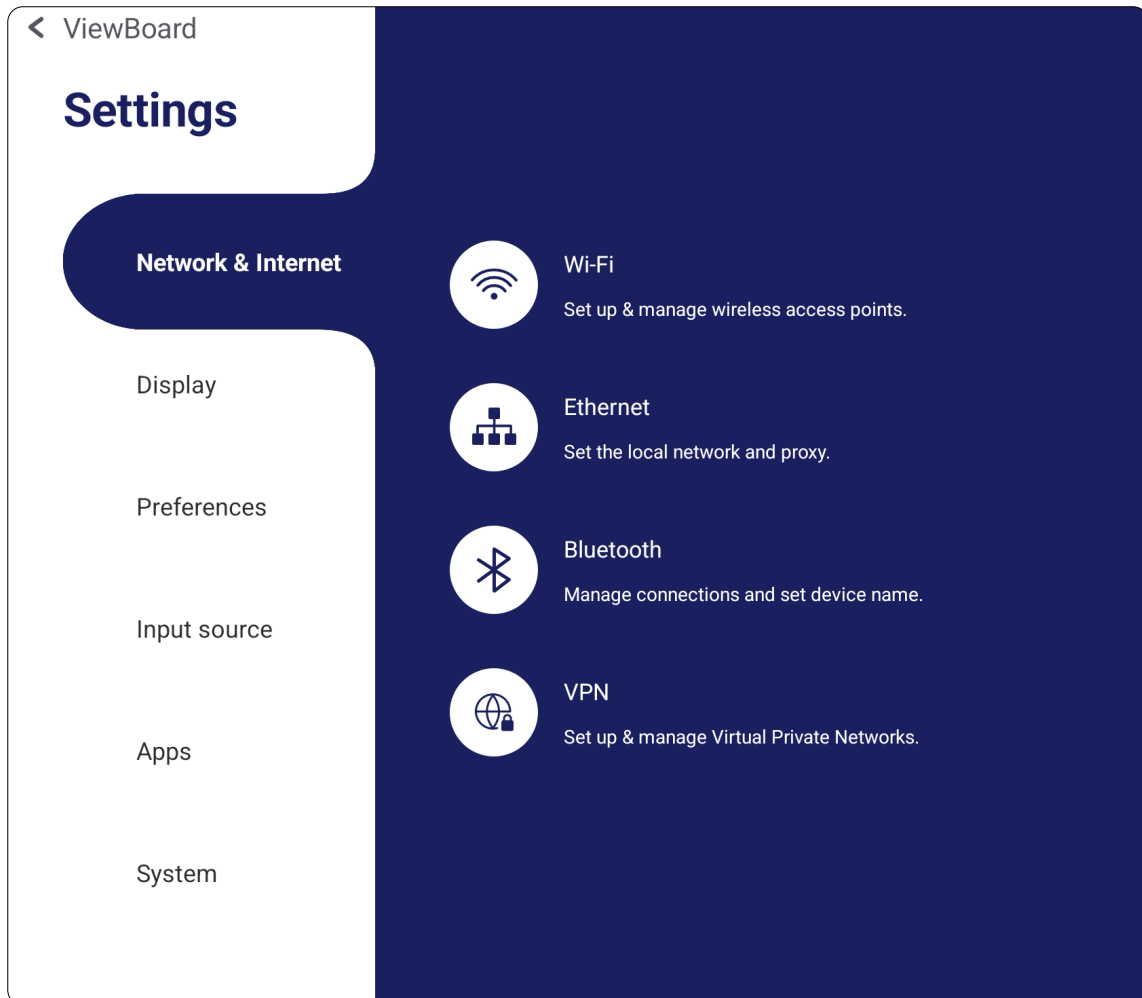
| Icon                                                                                | Description                                                                                |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|  | <u>Airsync</u><br>Wirelessly mirror screens to a larger display.                           |
|  | <u>myViewBoard Manager</u><br>Remotely manage multiple installations of ViewSonic devices. |
|  | <u>myViewBoard Whiteboard</u><br>A digital whiteboarding application.                      |
|  | <u>Settings</u><br>Access the <b>System</b> Settings.                                      |

# ViewBoard Settings

## ViewBoard Launcher

### Wireless & Network

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



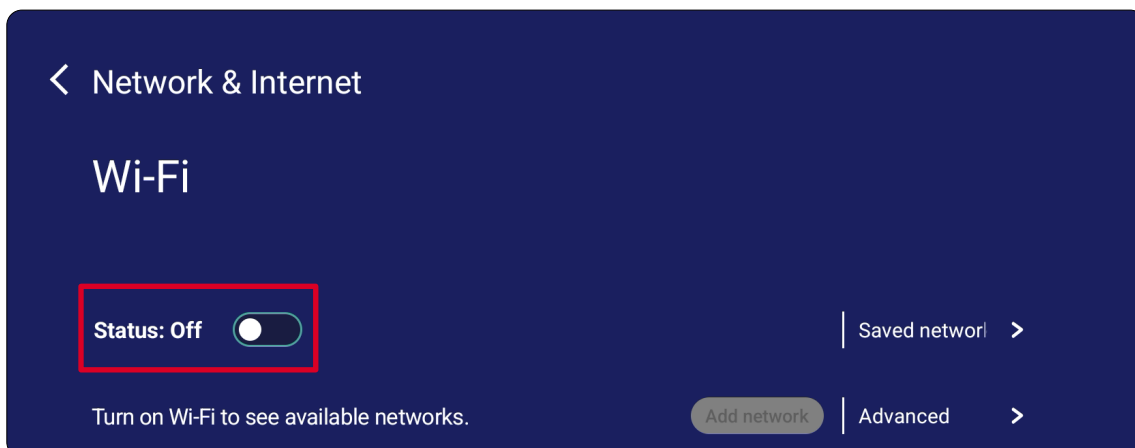
#### NOTE:

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

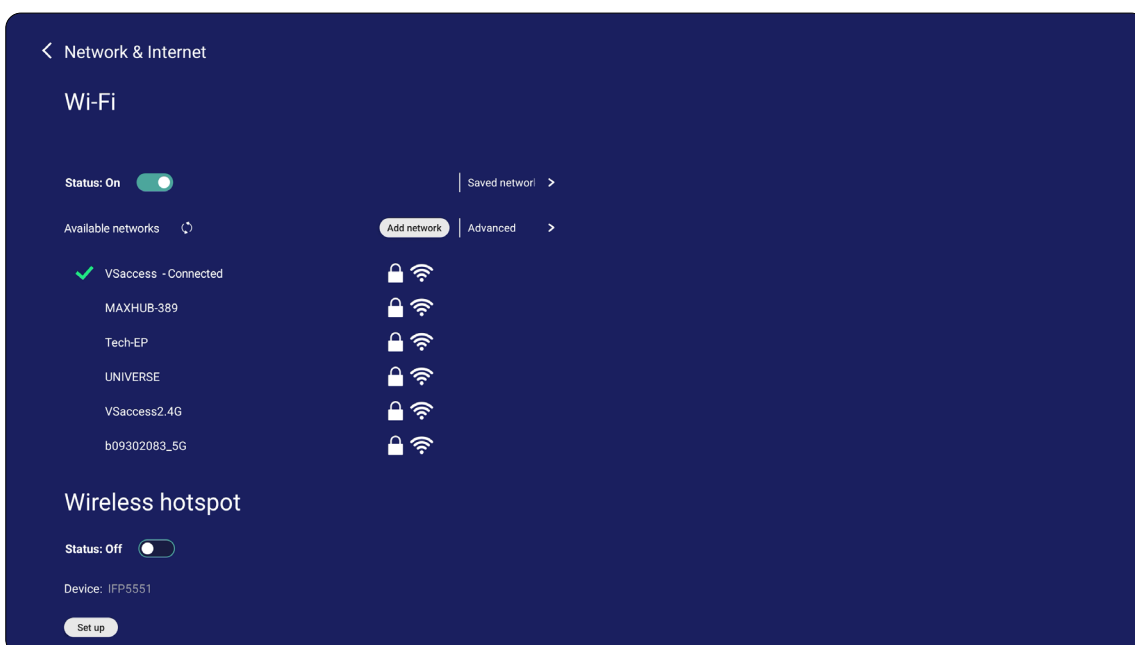
## Wi-Fi

Setup, manage wireless access points, and share internet connection by hotspot.

- 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.

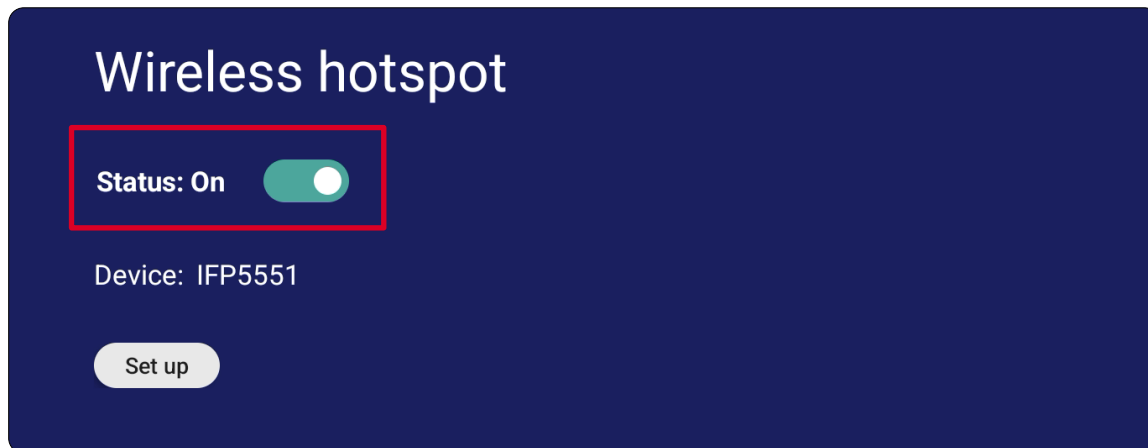


- In **Advanced** settings, you can toggle **Network notifications On** or **Off** and view **Network card info**.

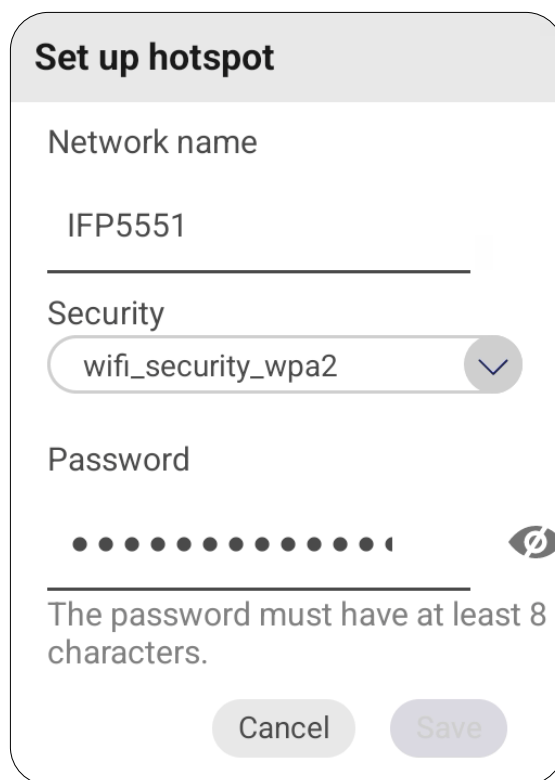


To share your internet connection with other devices.

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



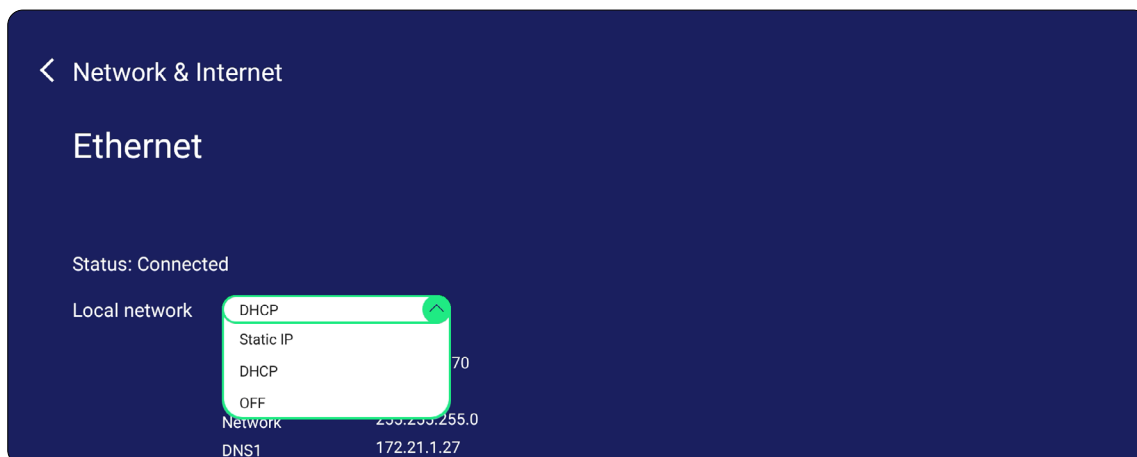
2. Tap Set up to set the Network name, Security, and Password.

A screenshot of the 'Set up hotspot' dialog. The title 'Set up hotspot' is at the top. Below it, there are three fields: 'Network name' with the value 'IFP5551', 'Security' with a dropdown menu showing 'wifi\_security\_wpa2', and 'Password' with a series of dots and an eye icon. Below the password field, there is a message: 'The password must have at least 8 characters.' At the bottom, there are 'Cancel' and 'Save' buttons.

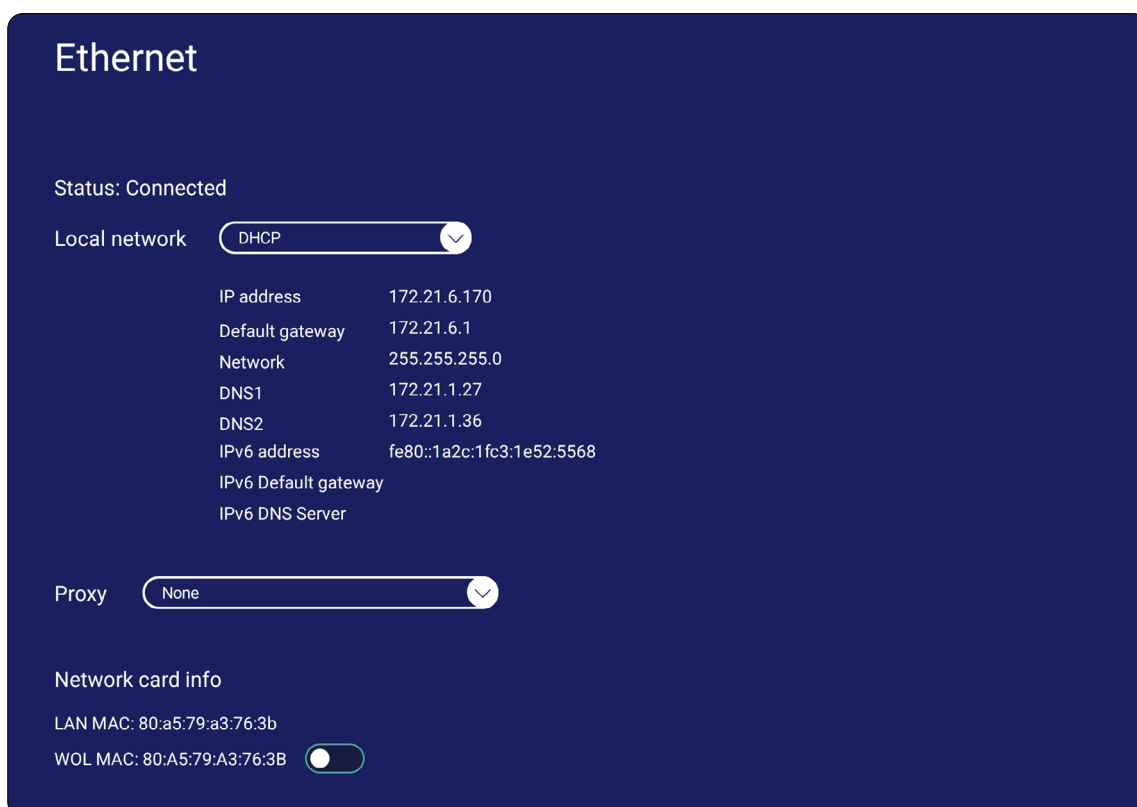
## Ethernet

Set the local network and proxy.

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



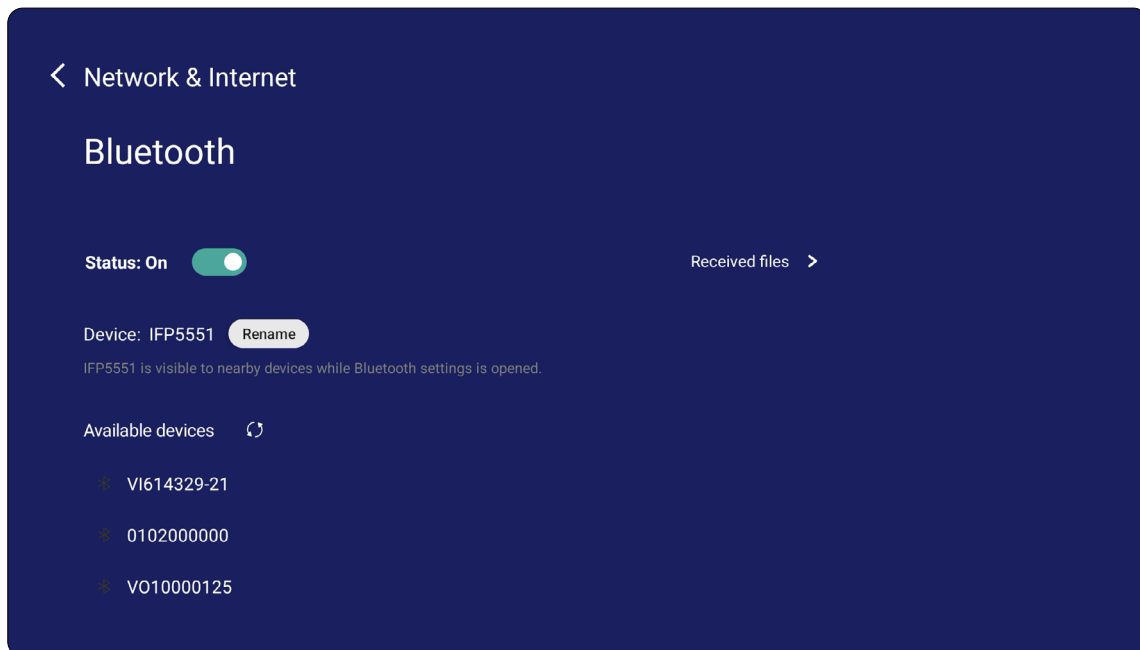
- You can adjust **Local network** and **Proxy** settings as well.



## Bluetooth

Manage connections, set the device name and discoverability.

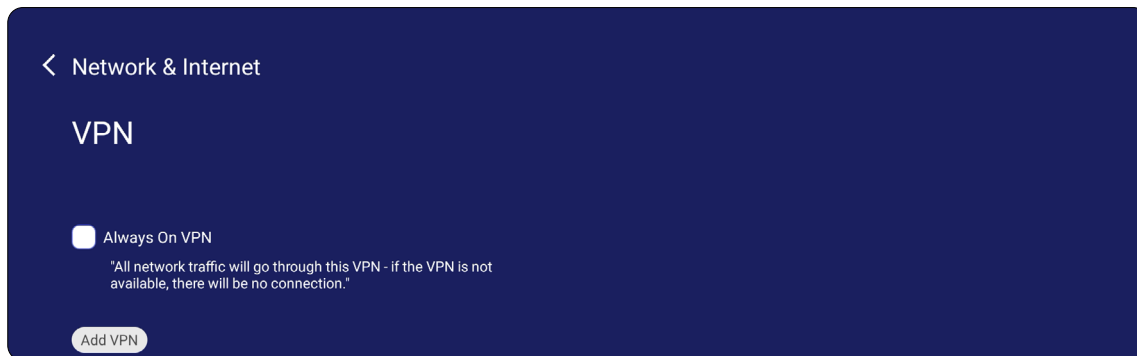
- Tap the toggle button to turn Bluetooth **On** or **Off**. Once **On**, users can select a listed device to pair and connect to, rename their device, remove a device.





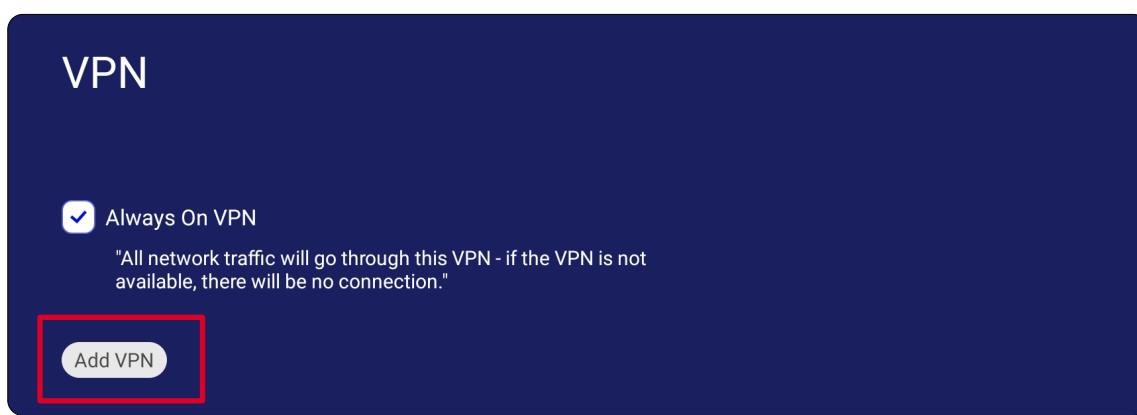
## VPN

Setup and manage Virtual Private Networks.



To create a VPN profile:

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



2. Key in the **Name**.

A screenshot of the 'Add VPN profile' dialog box. It has a light gray header with the title 'Add VPN profile'. Below the header, there is a section titled 'Name' followed by a text input field. A green vertical line is visible on the left side of the input field, indicating where to start typing.

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

**Add VPN profile**

**Name**

**Type**  

IKEv2/IPSec MSCHAPv2

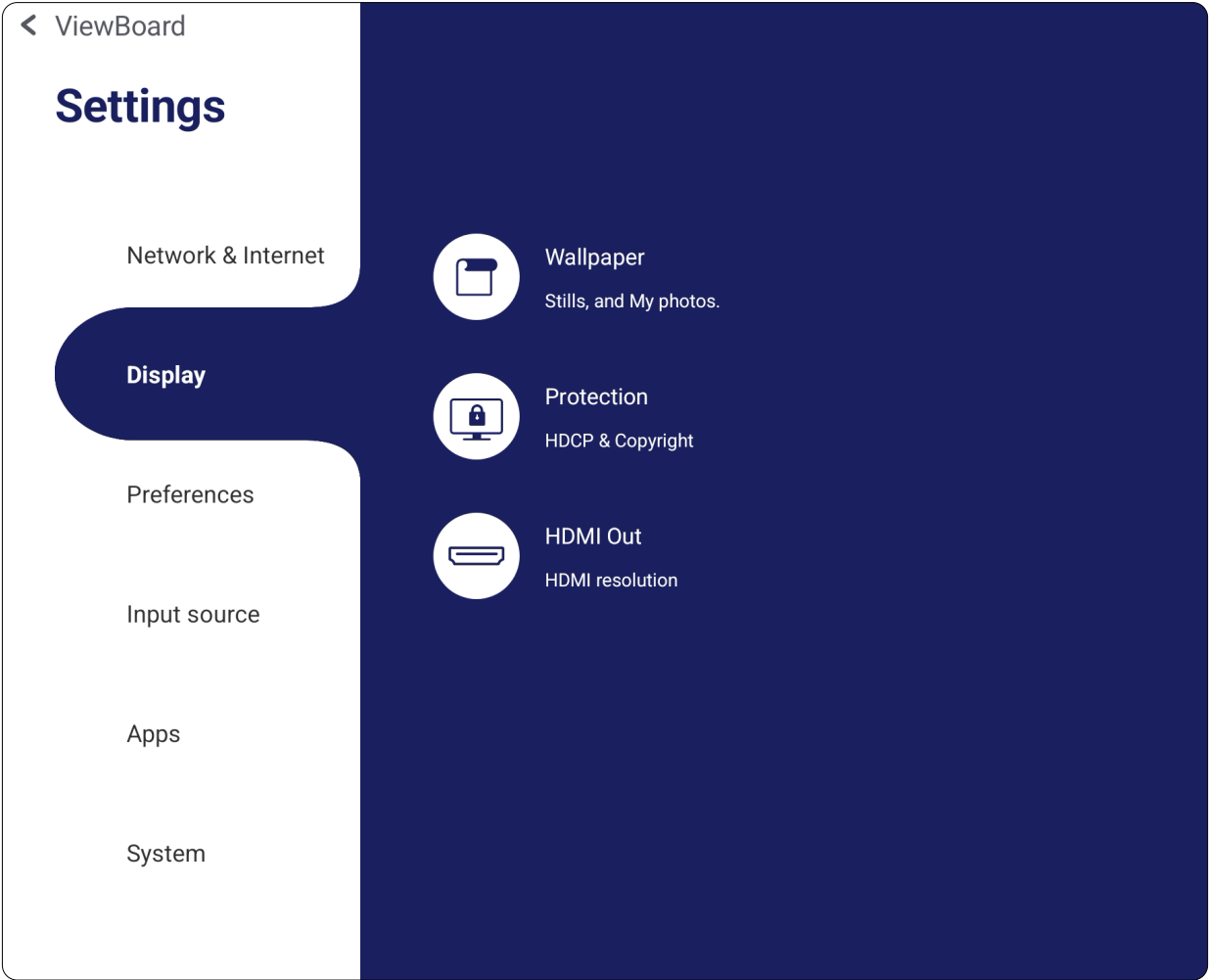
IKEv2/IPSec MSCHAPv2

IKEv2/IPSec PSK

IKEv2/IPSec RSA

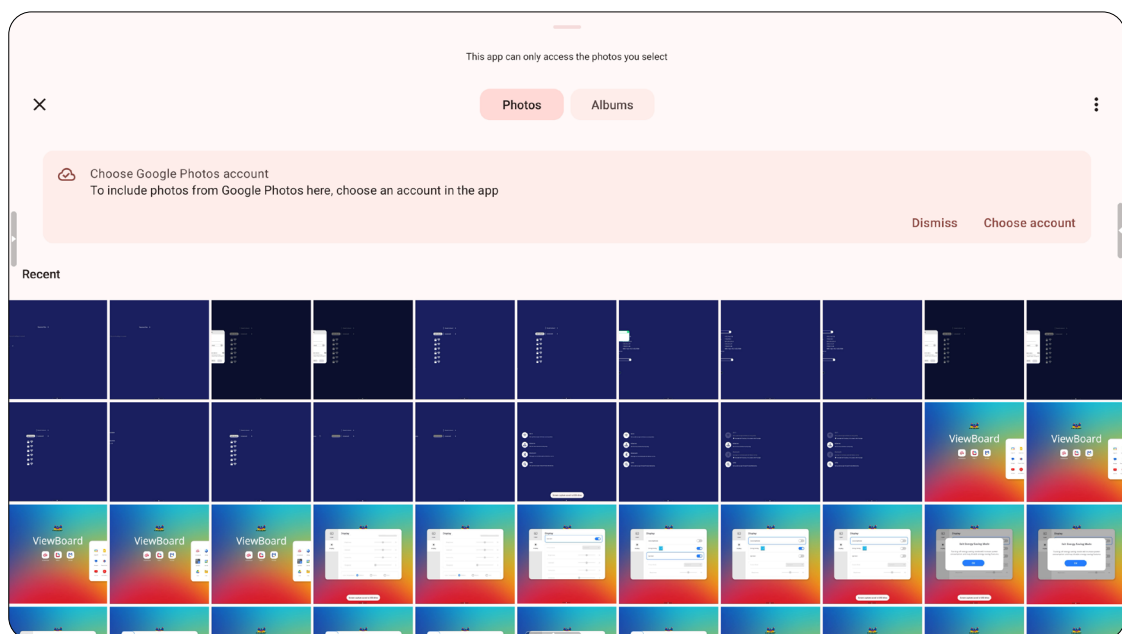
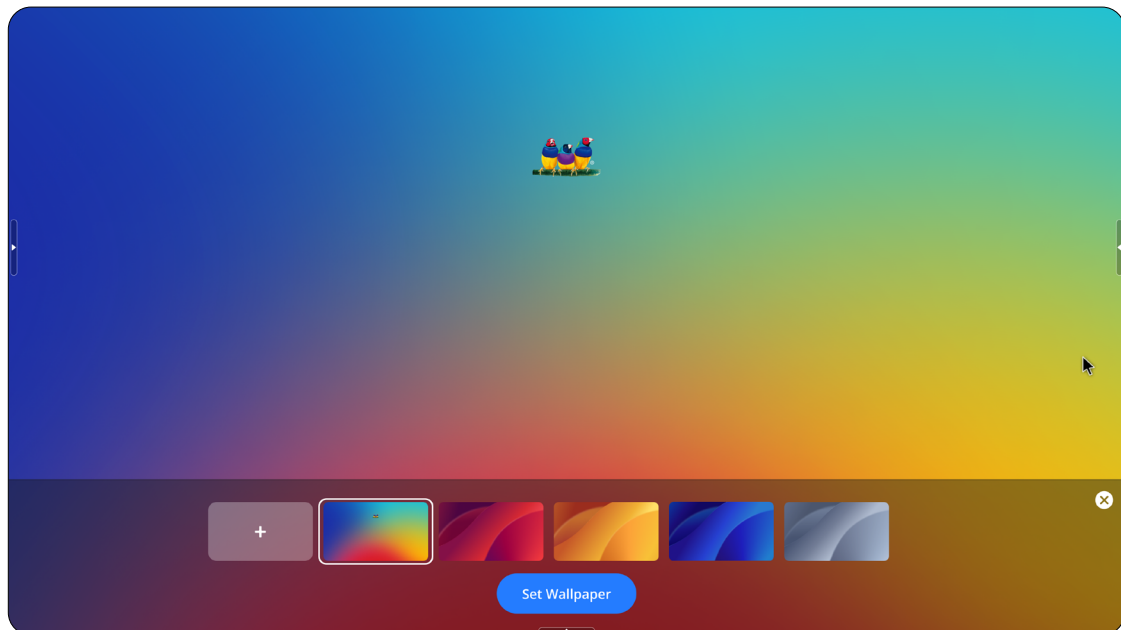
# Display

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



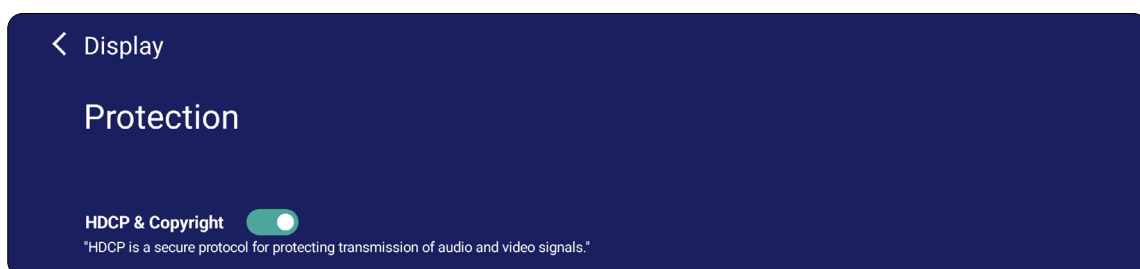
## Wallpaper

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



## Protection

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

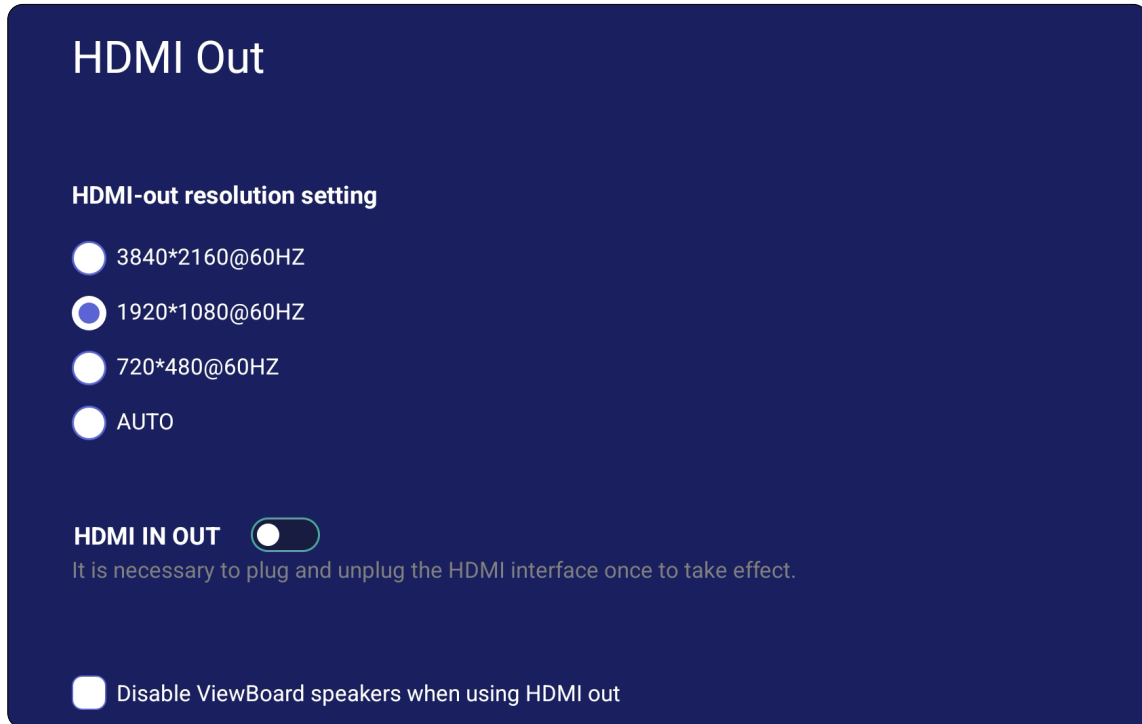


## HDMI Out

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

### NOTE:

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



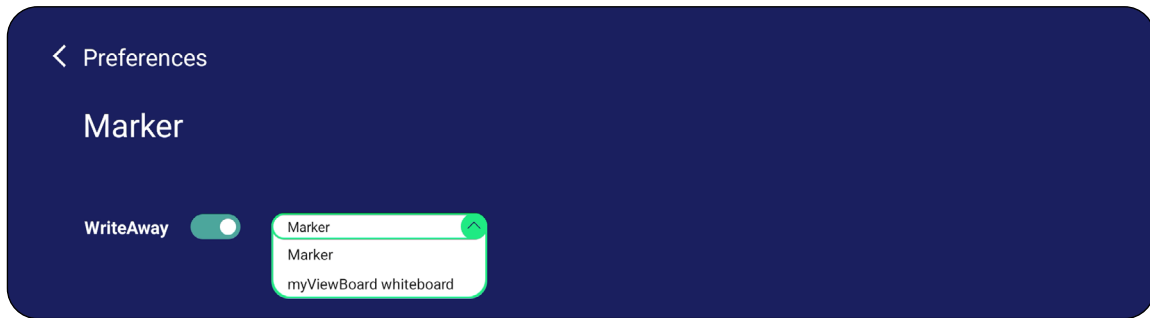
# Preference

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



## Marker

Toggle **WriteAway** On/Off for the Marker or myViewBoard whiteboard tool.



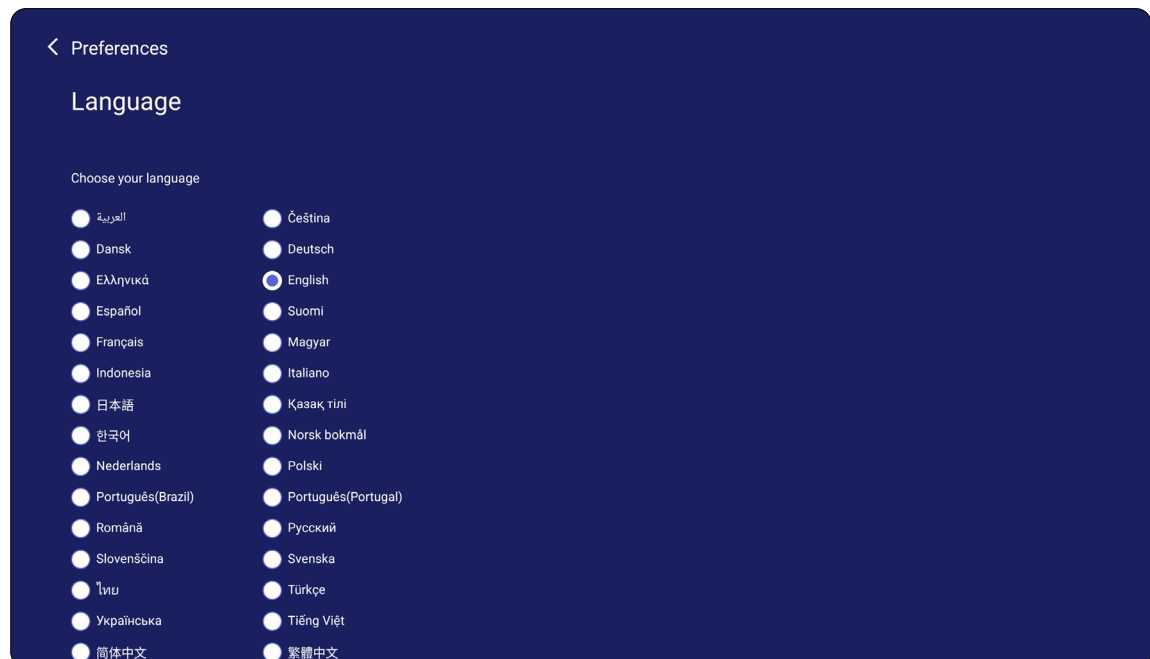
## Touch

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



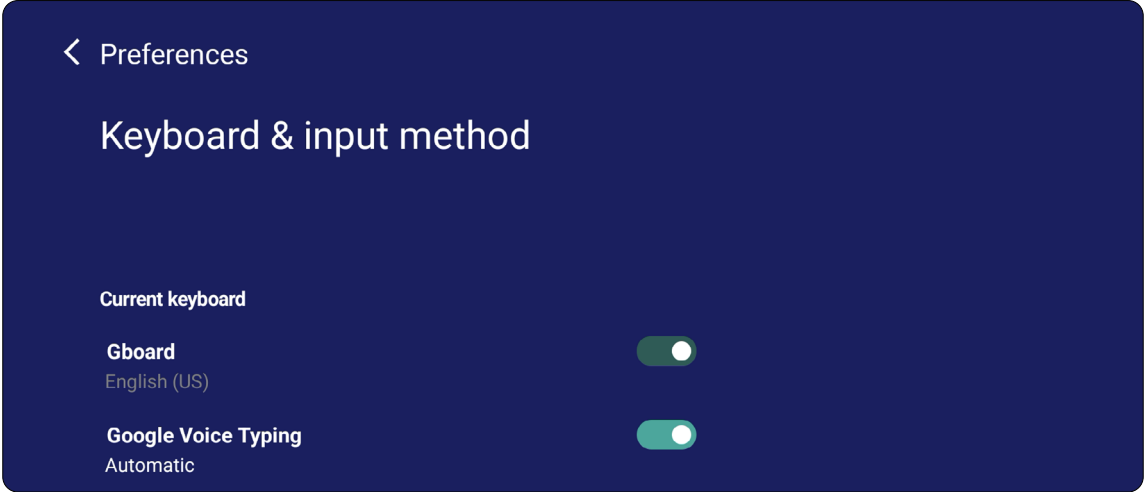
## Language

Adjust and choose the preferred language from the available languages.



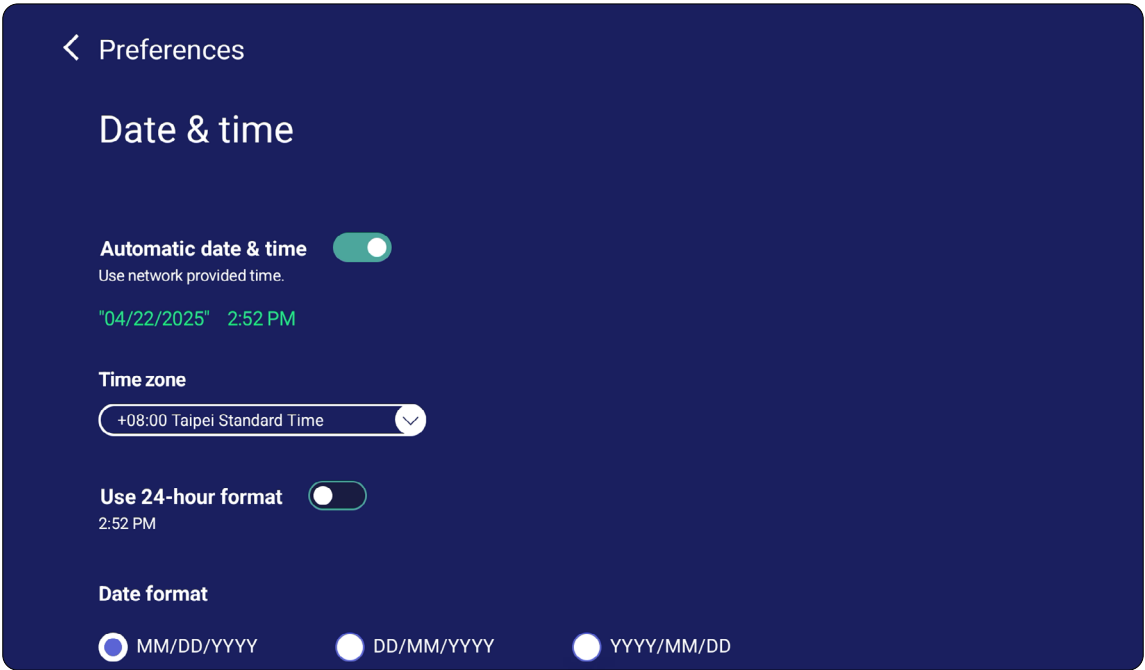
## Keyboard & Input Method

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



## Date & Time

Set the system time and format.

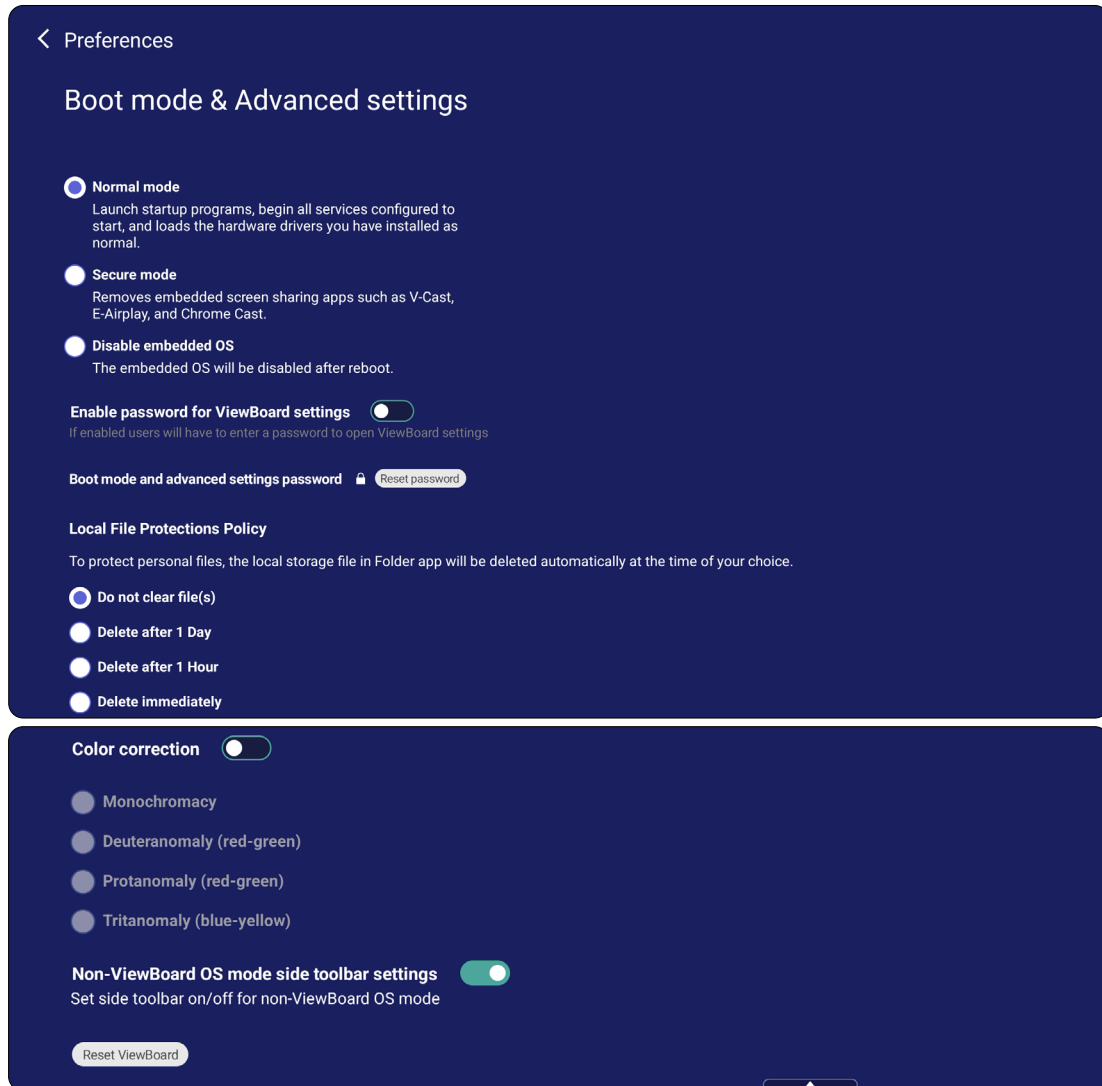


| Item                  | Description                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------|
| Automatic Date & Time | When enabled, the ViewBoard will 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 & Advanced Settings

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



| Item                                      | Description                                                                     |
|-------------------------------------------|---------------------------------------------------------------------------------|
| <b>Normal Mode</b>                        | The embedded screen sharing Apps will run normally.                             |
| <b>Secured Mode</b>                       | The embedded screen sharing Apps will be removed.                               |
| <b>Disable Embedded OS</b>                | The system will automatically reboot, and then the Embedded OS will not appear. |
| <b>ViewBoard Settings Access Password</b> | 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 application.          |

| Item                                               | Description                                                              |
|----------------------------------------------------|--------------------------------------------------------------------------|
| <b>Color Correction</b>                            | Color correct the ViewBoard display screen.                              |
| <b>Non-ViewBoard OS Mode Side Toolbar Settings</b> | Toggle to turn On/Off the side toolbar for non-ViewBoard OS environment. |
| <b>Reset ViewBoard</b>                             | 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.

Preferences

Startup & shutdown

Startup input

Last shutdown input

Select input

PC

Startup application

Automatically launch a specific application upon startup.

N/A

Standby mode

Hibernate

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)."

Black screen after startup

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

Sign-in page launched upon system startup

Allows user to bypass the Sign-In page in Hibernate mode after the system is initiated.

Time switch

Power off reminder

Toggle Power off reminder

Schedule

ADD SCHEDULE

Boot time

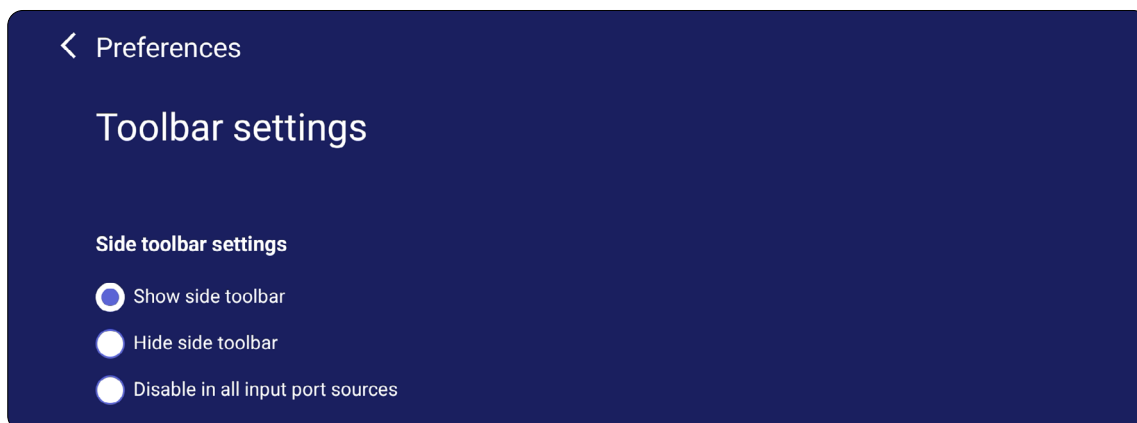
Off time

| Item                       | Description                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------|
| Startup Input              | Adjust the Startup Input preference.                                                    |
| Startup Application        | Open an application automatically when logging in.                                      |
| Standby Mode               | Decide what happens when you press the Power button while the ViewBoard is On.          |
| Energy Star                | Enable to automatically initiate Sleep Mode when the screen is idle for one hour.       |
| Black Screen After Startup | When enabled, the ViewBoard will turn off the backlight automatically after booting up. |

| Item                                             | Description                                                                                  |
|--------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Sign-in Page Launched Upon System Startup</b> | Enable to skip the sign-in screen when waking up the ViewBoard from Sleep Mode.              |
| <b>Time Switch</b>                               | When enabled, the ViewBoard will turn off without a notification after a set period of time. |
| <b>Schedule</b>                                  | Schedule a Boot and Shut off time.                                                           |

## Toolbar Setting

Adjust the Side toolbar settings.



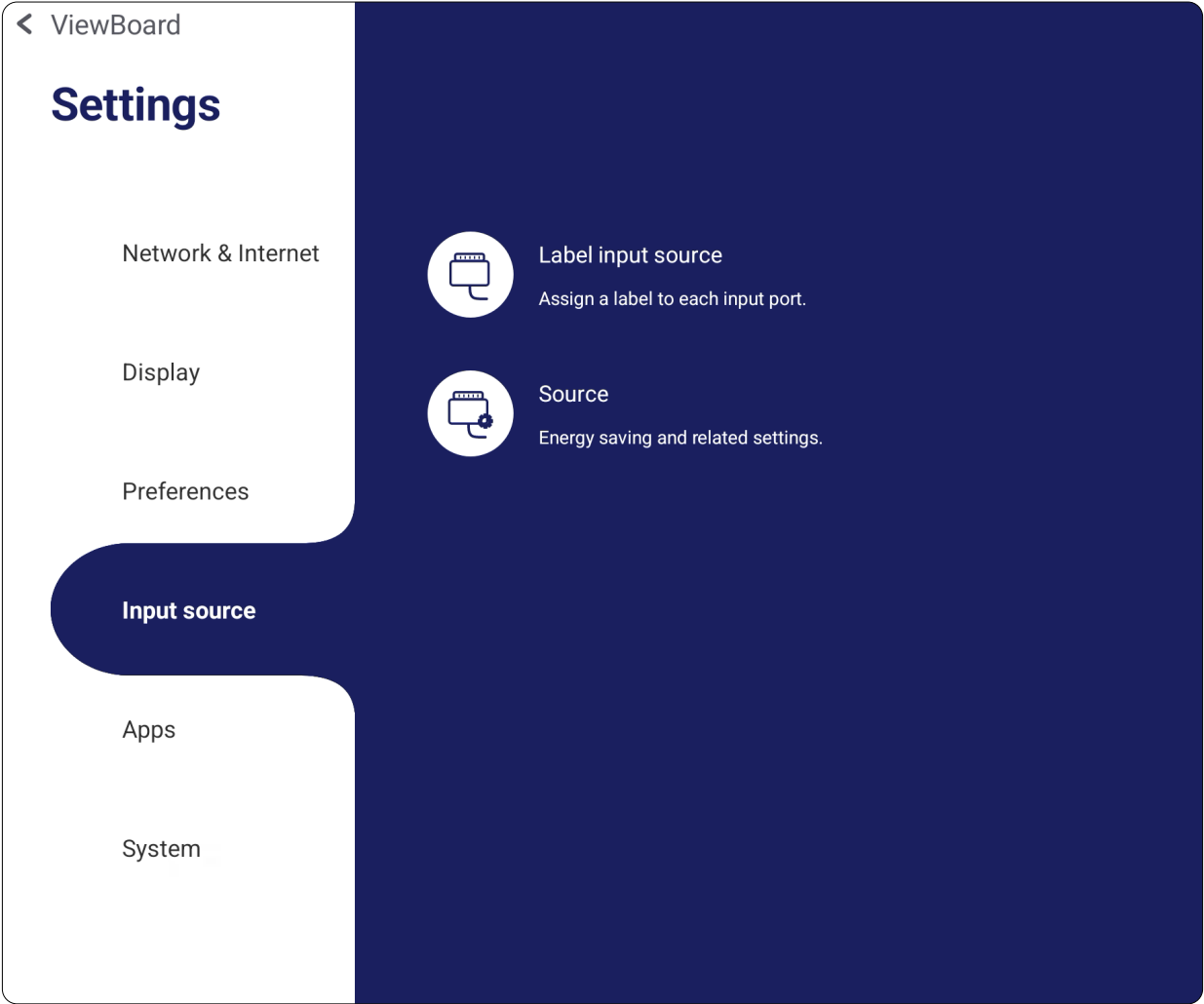
## Sound Setting

Output audio from the preferred output source.



# 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.

< Input source

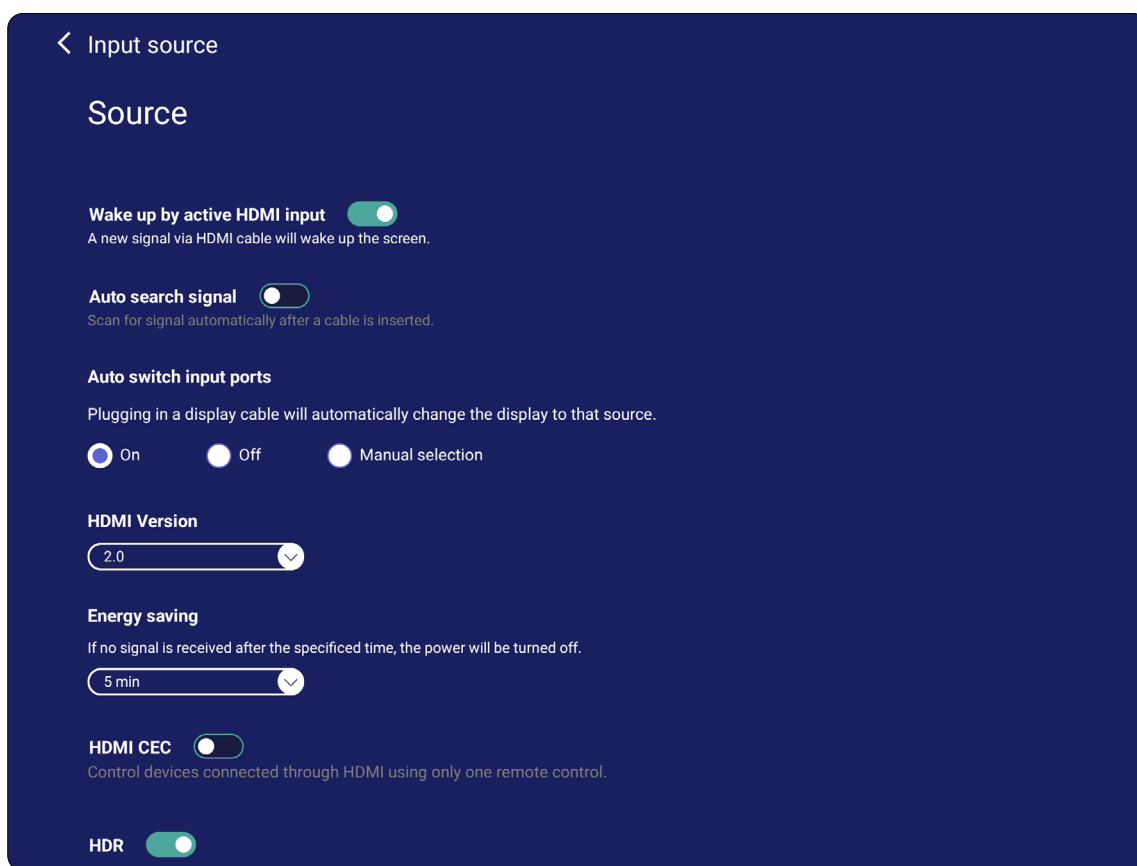
Label input source

Add a label to help you recognize input ports easier.

| Source    | Label                |             |
|-----------|----------------------|-------------|
| PC        | <div>PC</div>        | <div></div> |
| ViewBoard | <div>ViewBoard</div> |             |
| HDMI 1    | <div>HDMI 1</div>    | <div></div> |
| HDMI 2    | <div>HDMI 2</div>    | <div></div> |
| HDMI 3    | <div>HDMI 3</div>    | <div></div> |
| HDMI 4    | <div>HDMI 4</div>    | <div></div> |
| DP        | <div>DP</div>        | <div></div> |
| VGA       | <div>VGA</div>       | <div></div> |
| TYPEC 1   | <div>TYPEC 1</div>   | <div></div> |
| TYPEC 2   | <div>TYPEC 2</div>   | <div></div> |

## Source

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

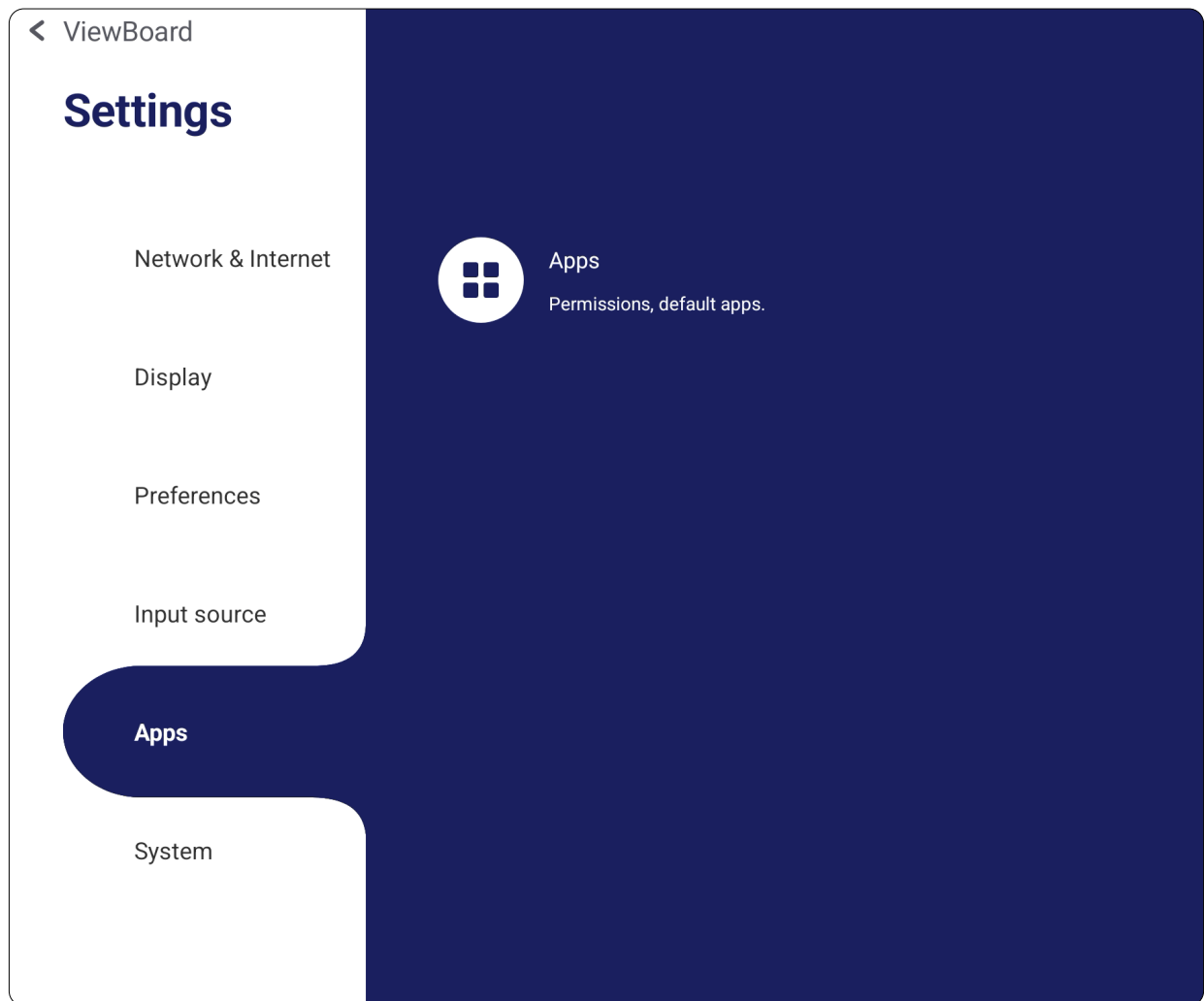


| Item                                | Description                                                                                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------|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

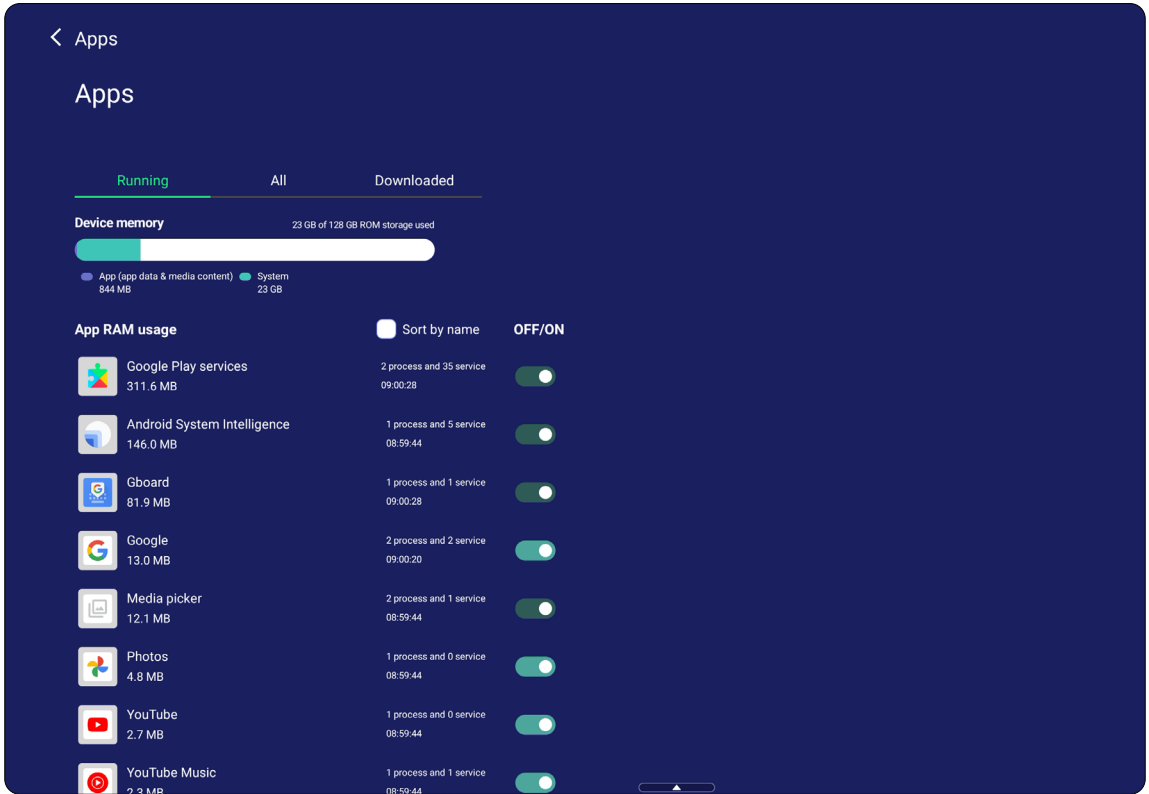


### NOTE:

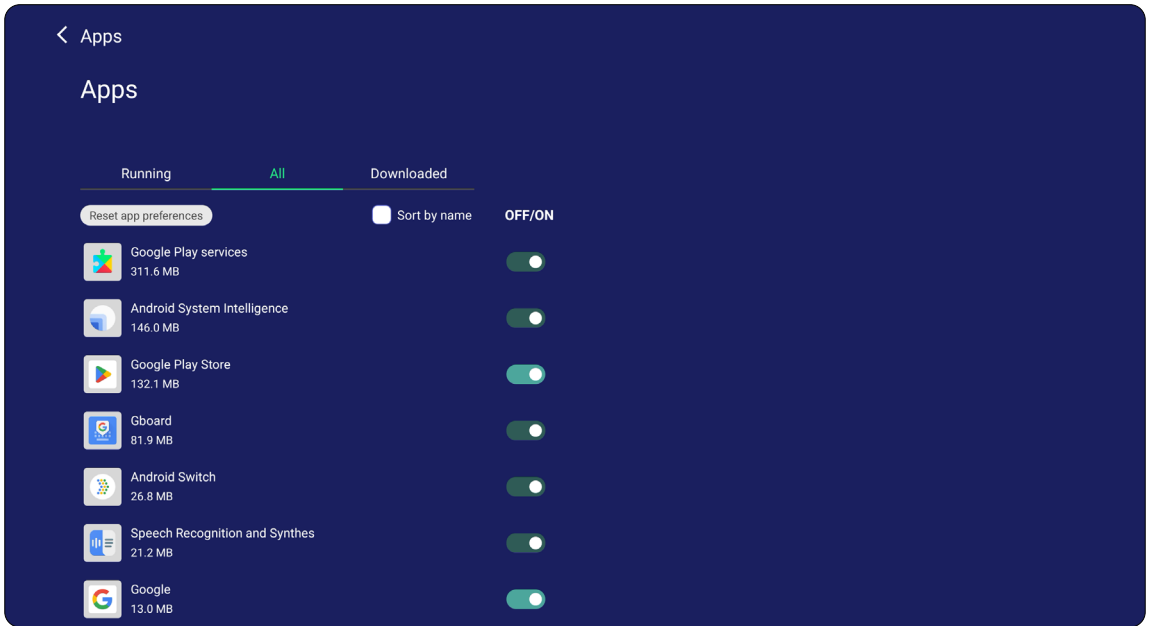
- Pre-loaded apps cannot be uninstalled.
- Not all apps support the move to USB storage feature.
- Not all apps support Clear Defaults.

Apps

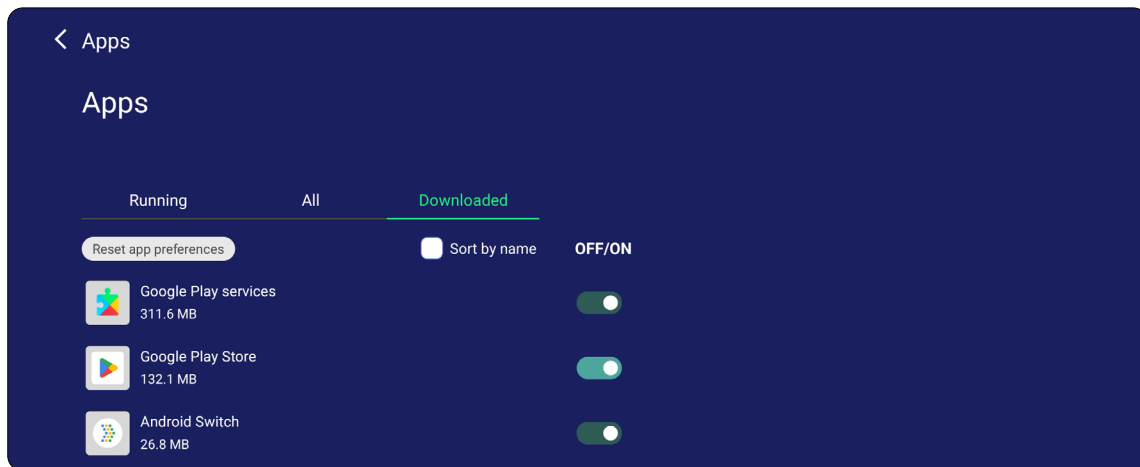
View any running or installed applications.



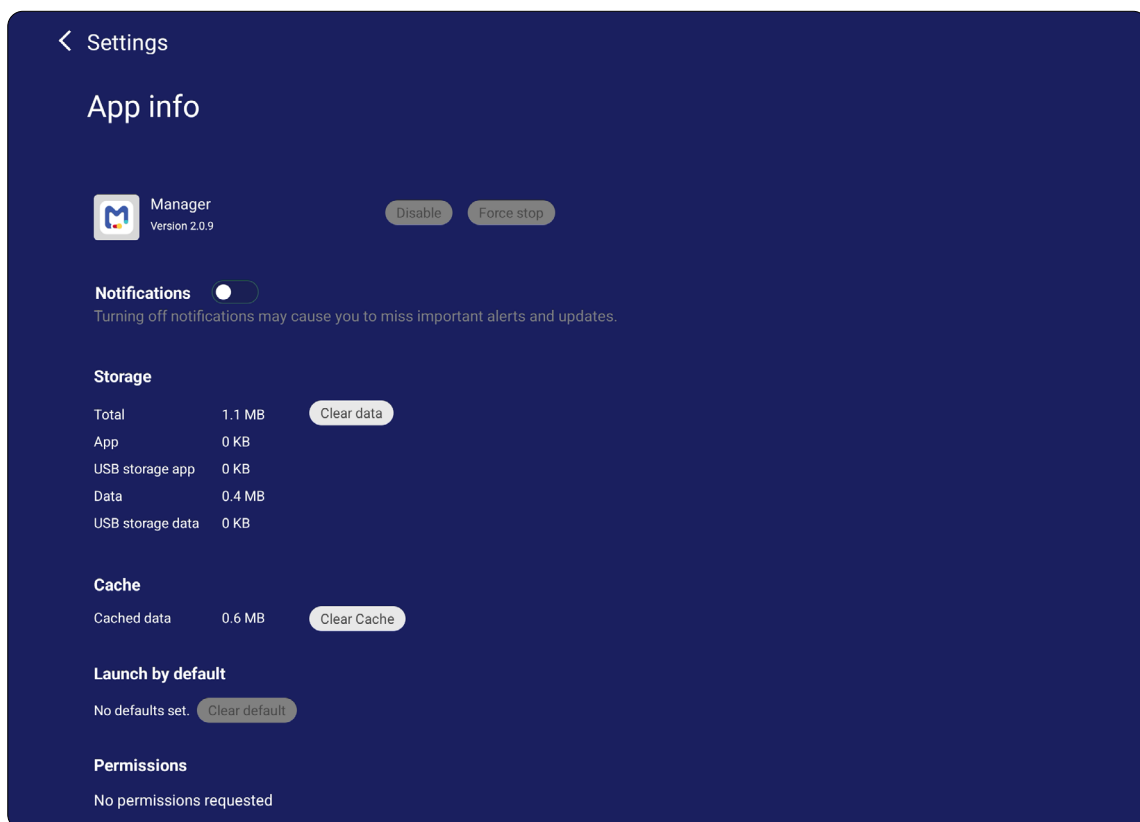
- Selecting **All** will display all installed applications.



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

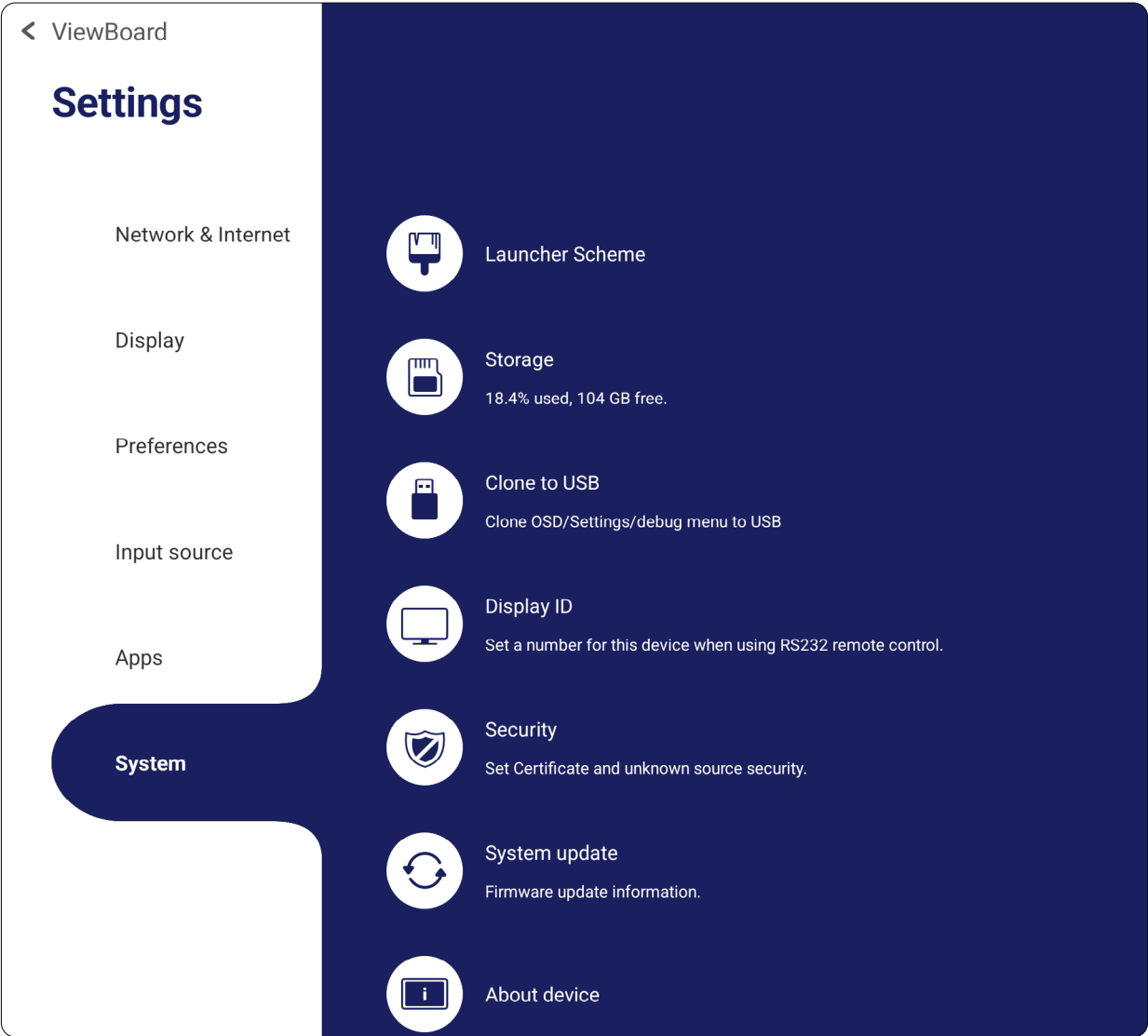


- Tapping on an application in the **Running/All/Download** panel will display further information about the application.



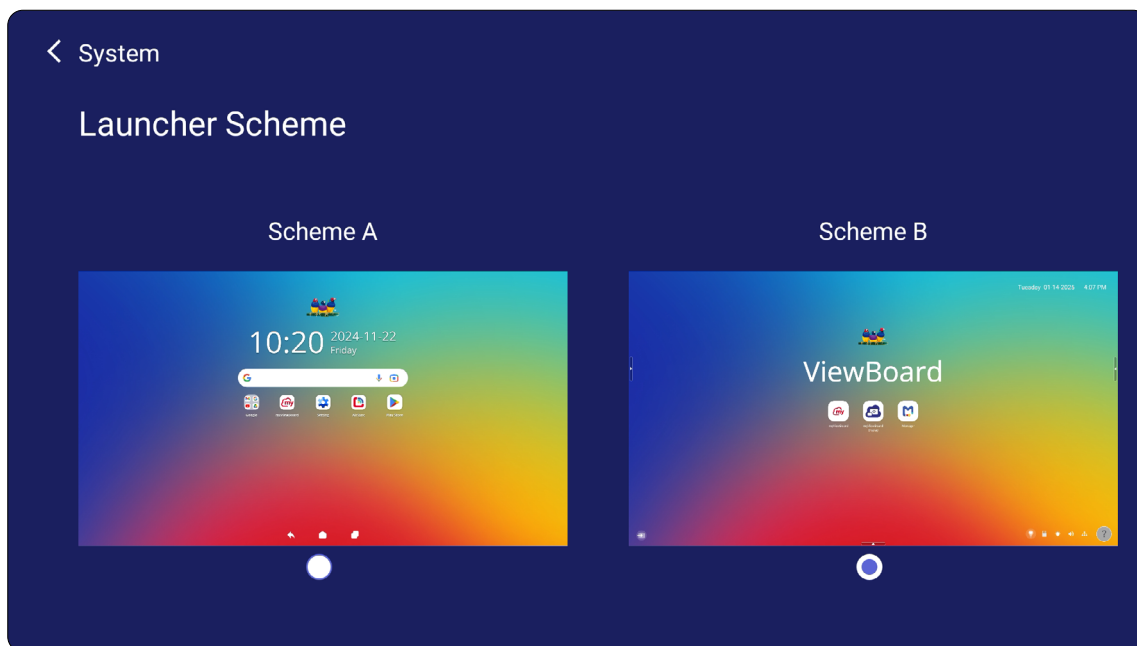
# System

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



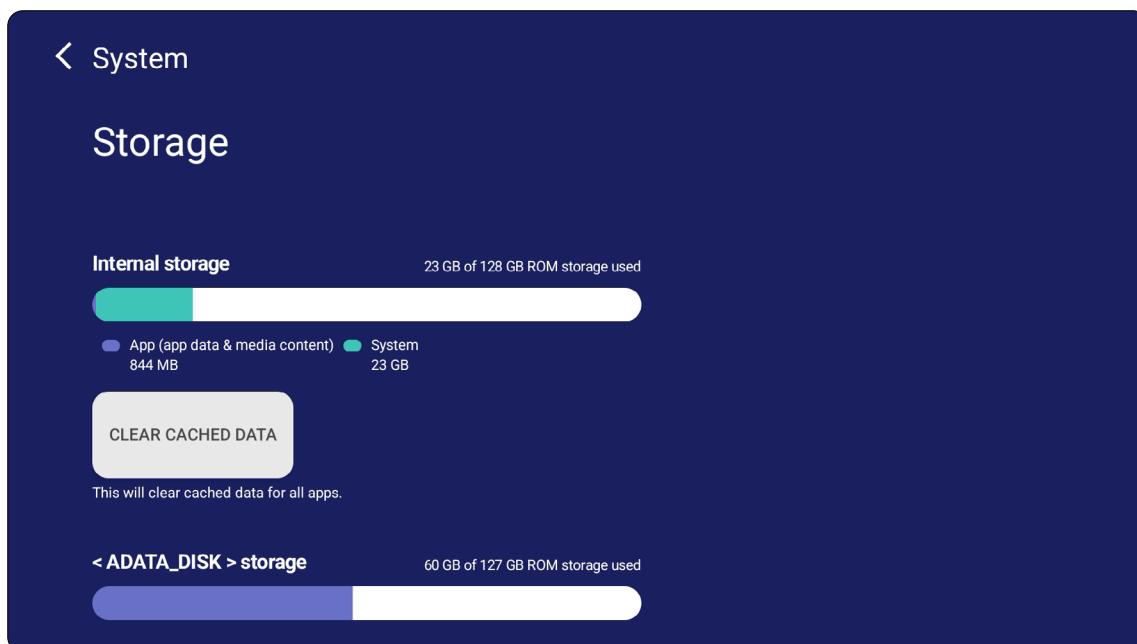
## Launcher Scheme

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



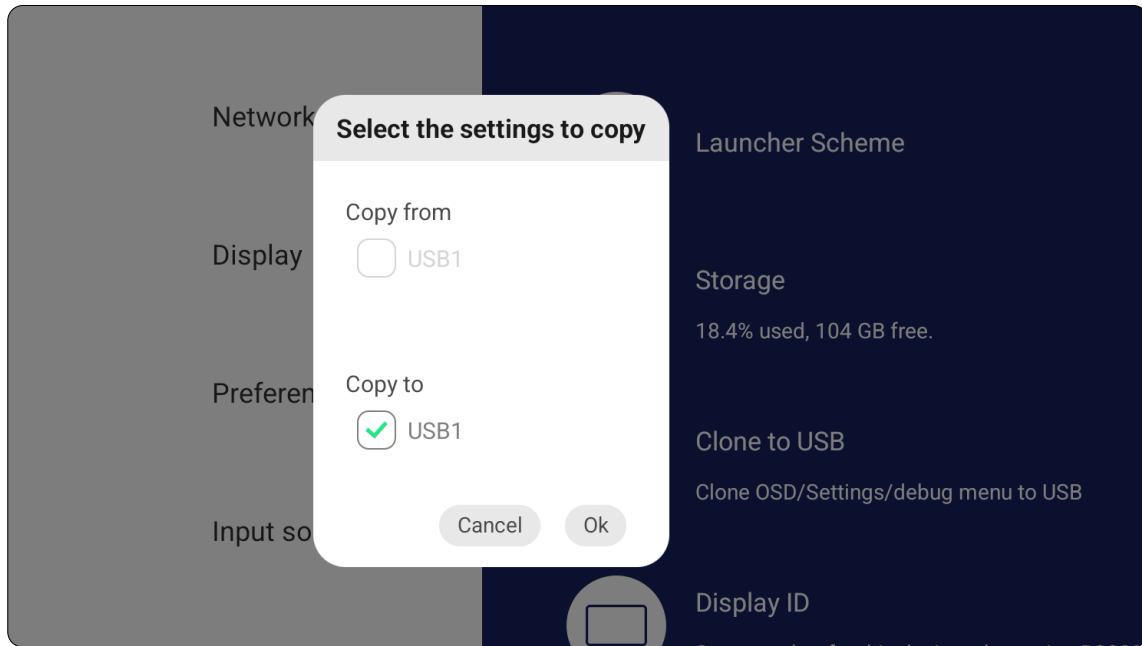
## Storage

Displays all internal and external storage capacities.



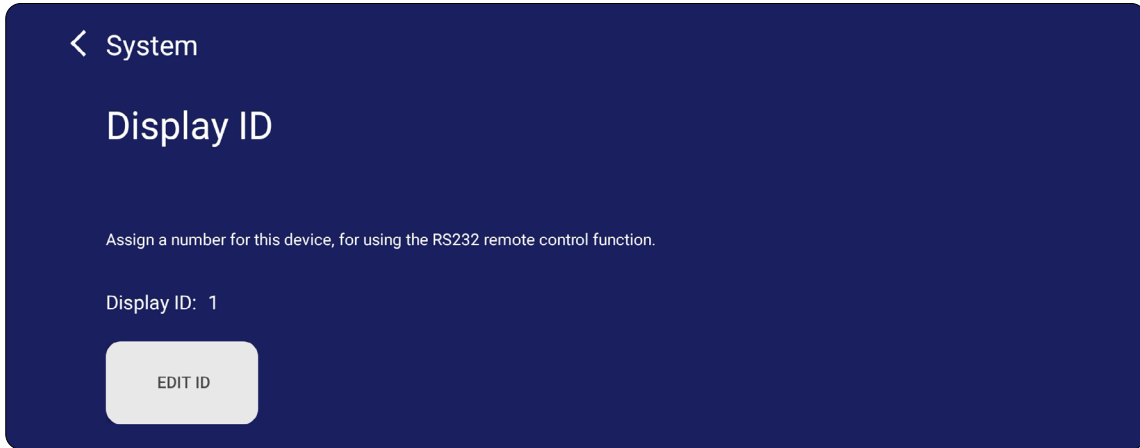
## Clone to USB

Copy settings to an external USB drive.

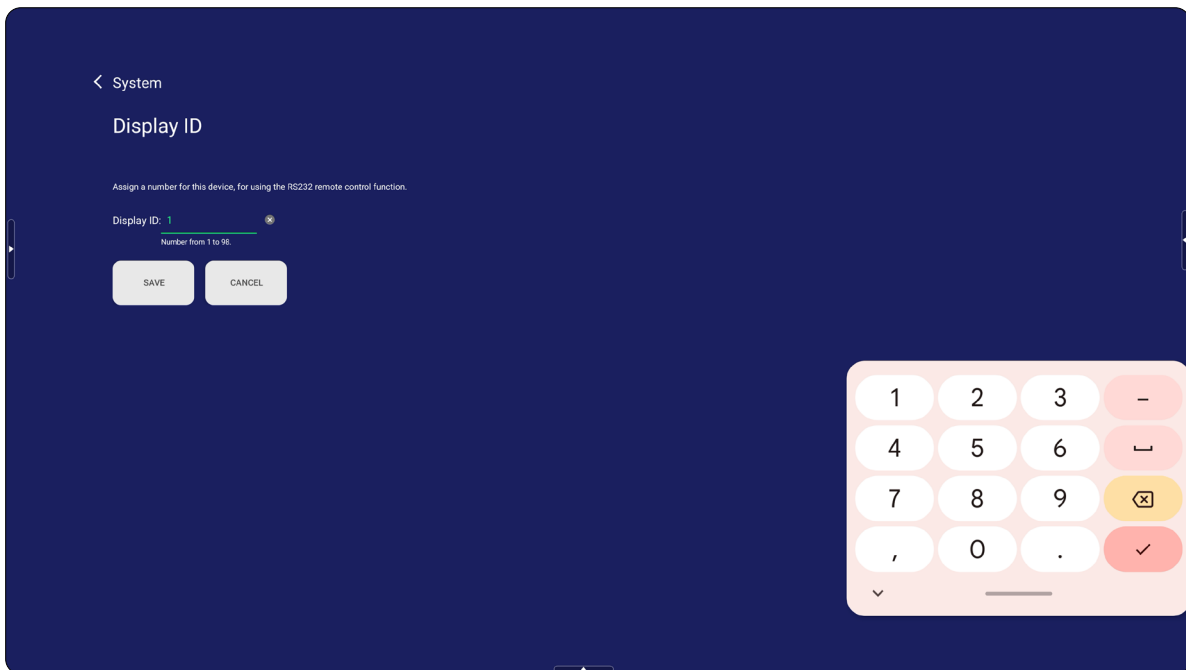


## Display ID

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



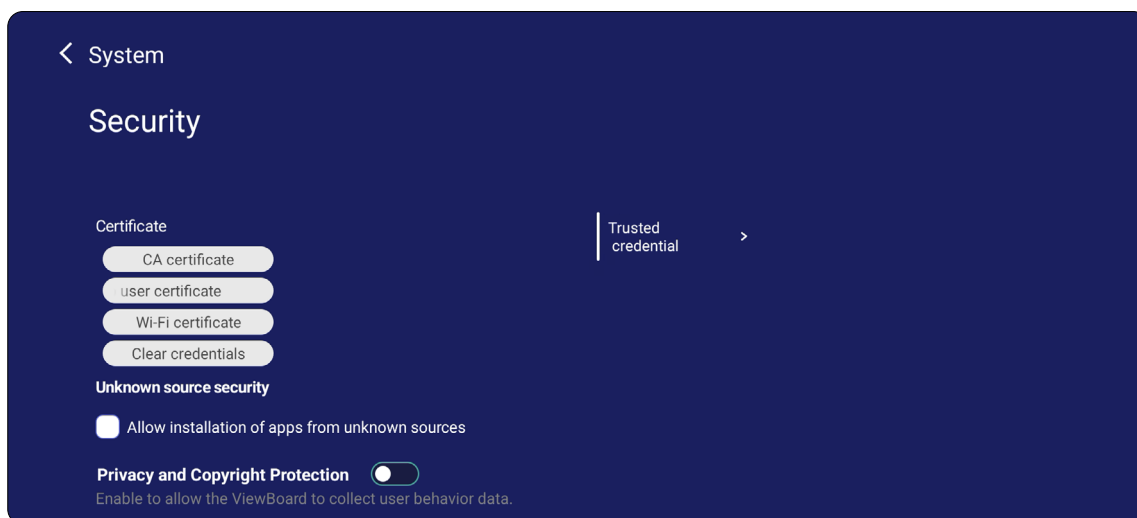
- To assign or change the Display ID, tap **Change** and input a number.



**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.



- To manually install additional certificates, tap on the certificate from the list of the available **CA/User/Wi-Fi certificate** storages. Then, tap the file.

**NOTE:** You may be required to enter your PIN code again to confirm the action.

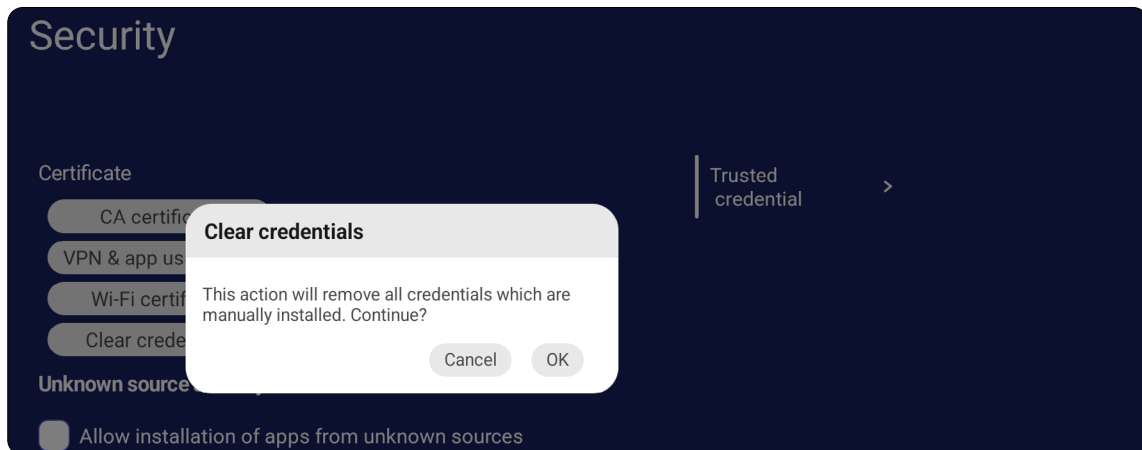




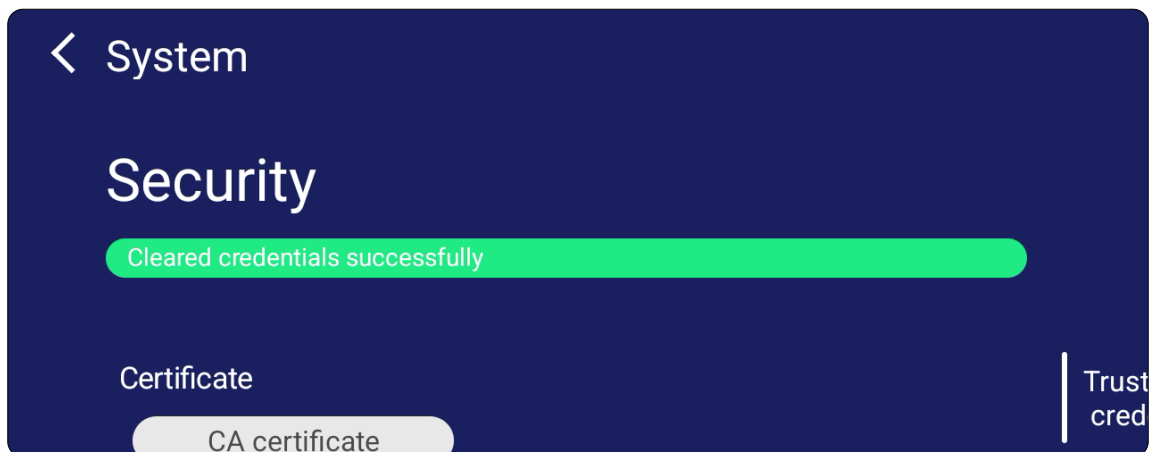
- Selecting **Clear Credentials** will remove all manually installed credentials.

**1. Tap Clear Credentials > OK.**

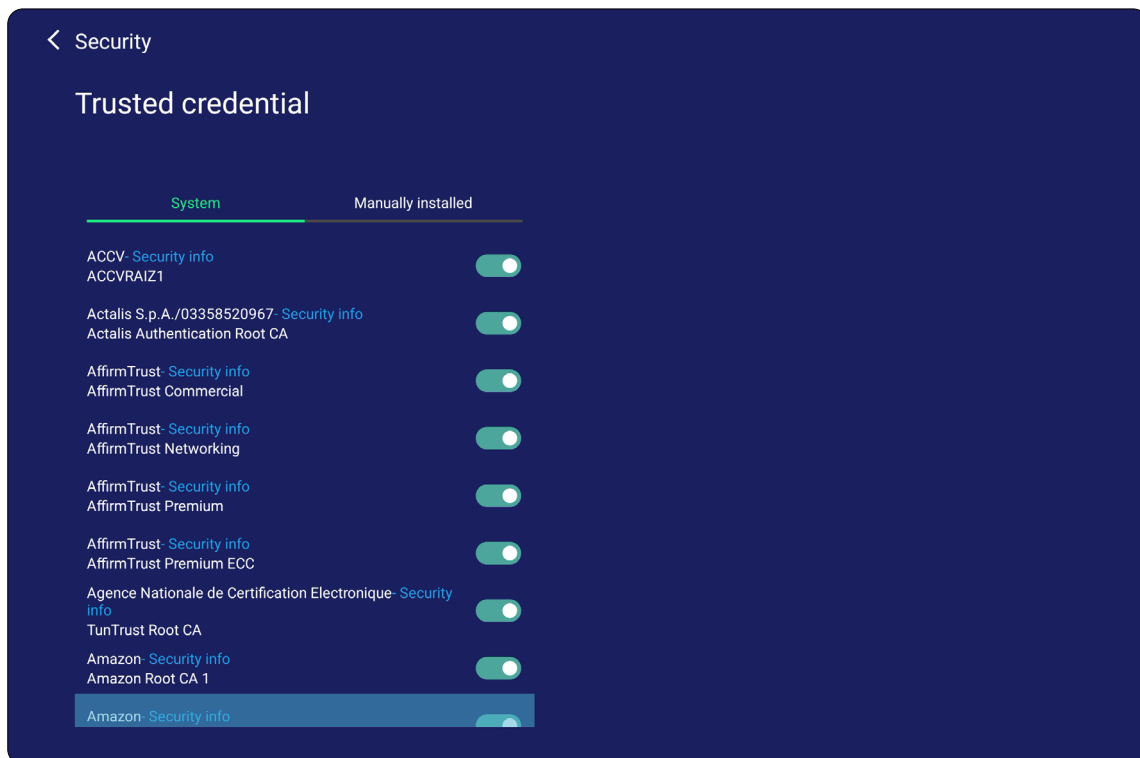
**NOTE:** Pre-loaded credentials cannot be cleared.



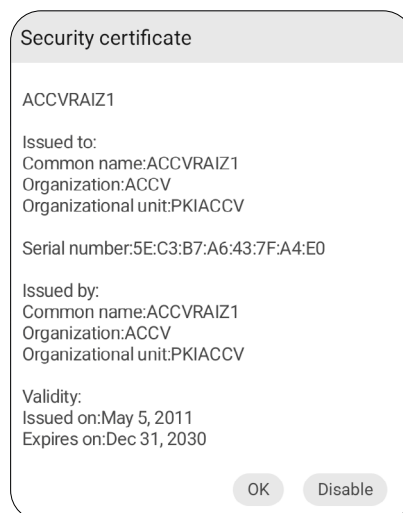
**2. A confirmation message will appear when all credentials are removed.**



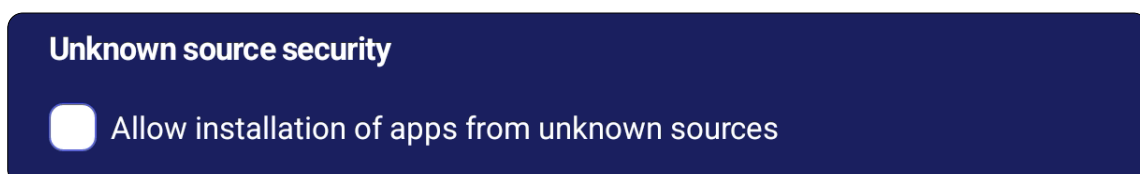
- Under **Trusted Credentials** view and edit all trusted and installed CA certificates.



- Tapping on a credential will provide more detailed information.



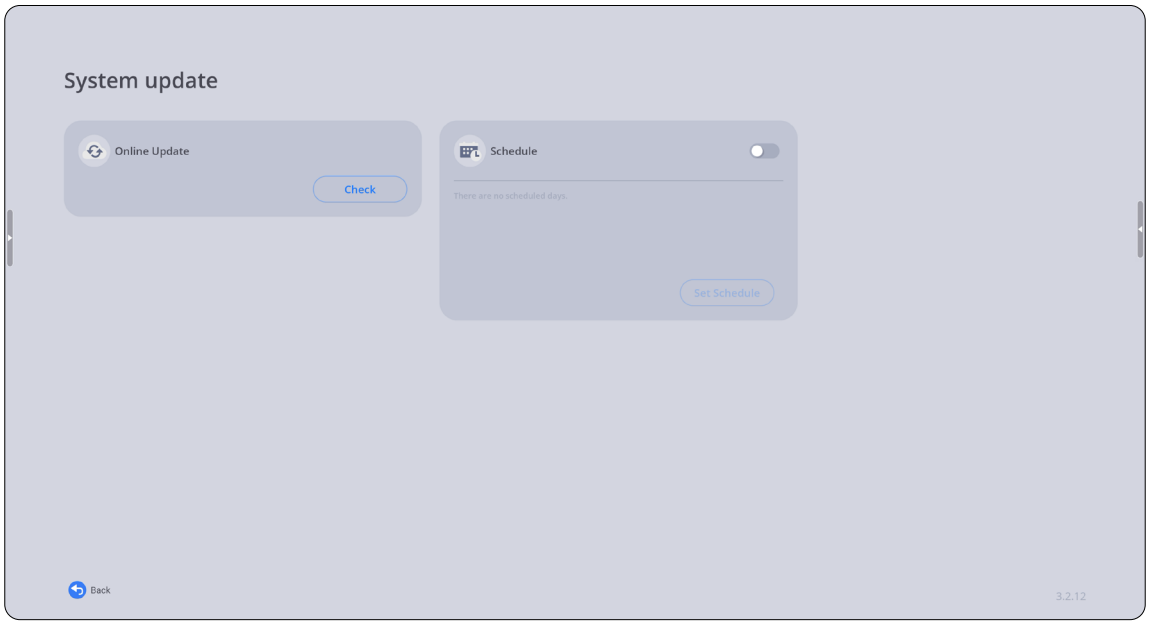
- Allow the installation of applications from unknown sources by selecting the box under **Unknown source security**.



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

System Update

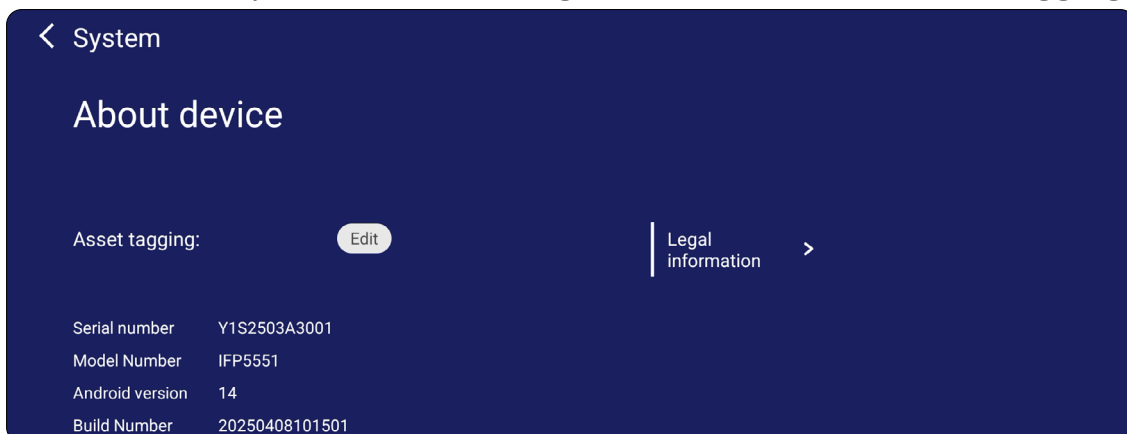
The ViewBoard automatically searches for software updates whenever connected to the Internet (OTA). With just one click, users can update their version of ViewBoard software.



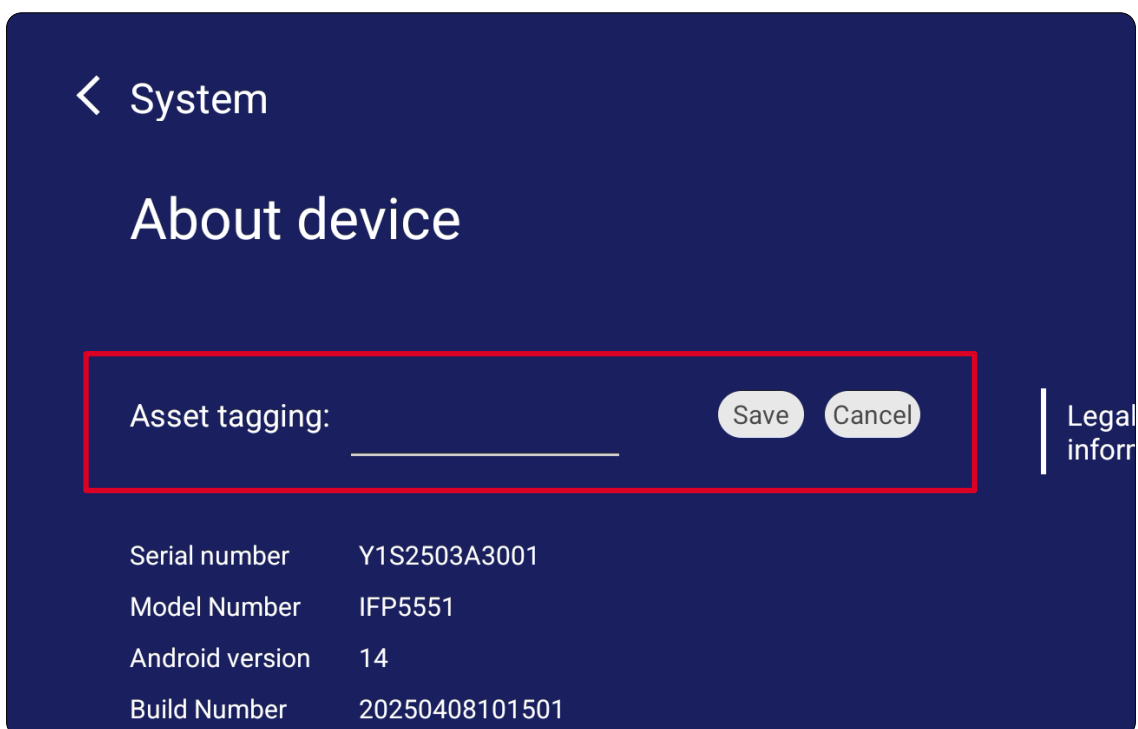
| Item          | Description                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Online Update | Manually check online for a new software version.                                                                                                                                                                                                                                                                                                                                             |
| Schedule      | <div>Set the update time.<div><div>Schedule Setup</div><div><div>217AM</div><div>3:18PM</div><div>419</div></div><div><div><input type="checkbox"/>SUN<input type="checkbox"/>MON<input type="checkbox"/>TUE<input type="checkbox"/>WED<input type="checkbox"/>THU<input type="checkbox"/>FRI<input type="checkbox"/>SAT</div><div><div>Cancel</div><div>Submit</div></div></div></div></div> |

## About Device

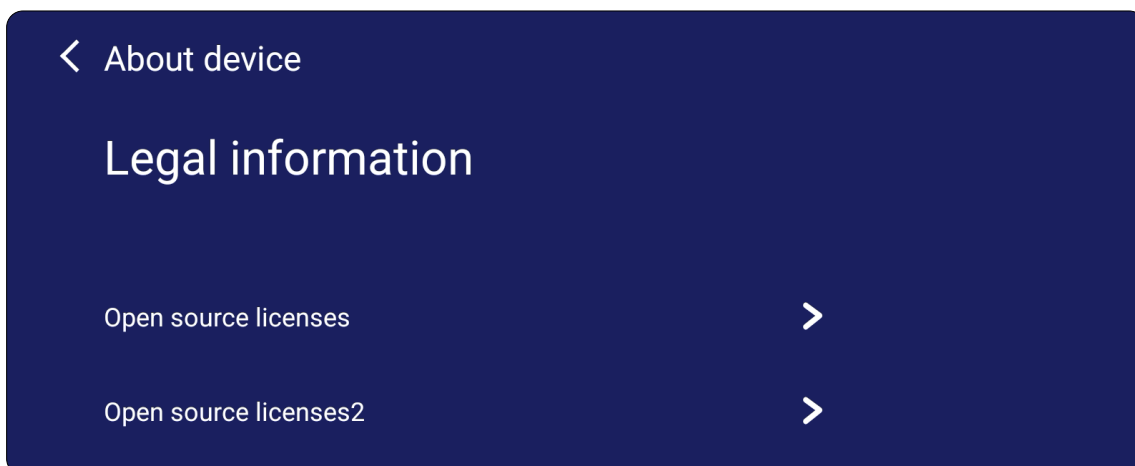
Display Embedded Player information, **Legal information**, and **Asset Tagging**.



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



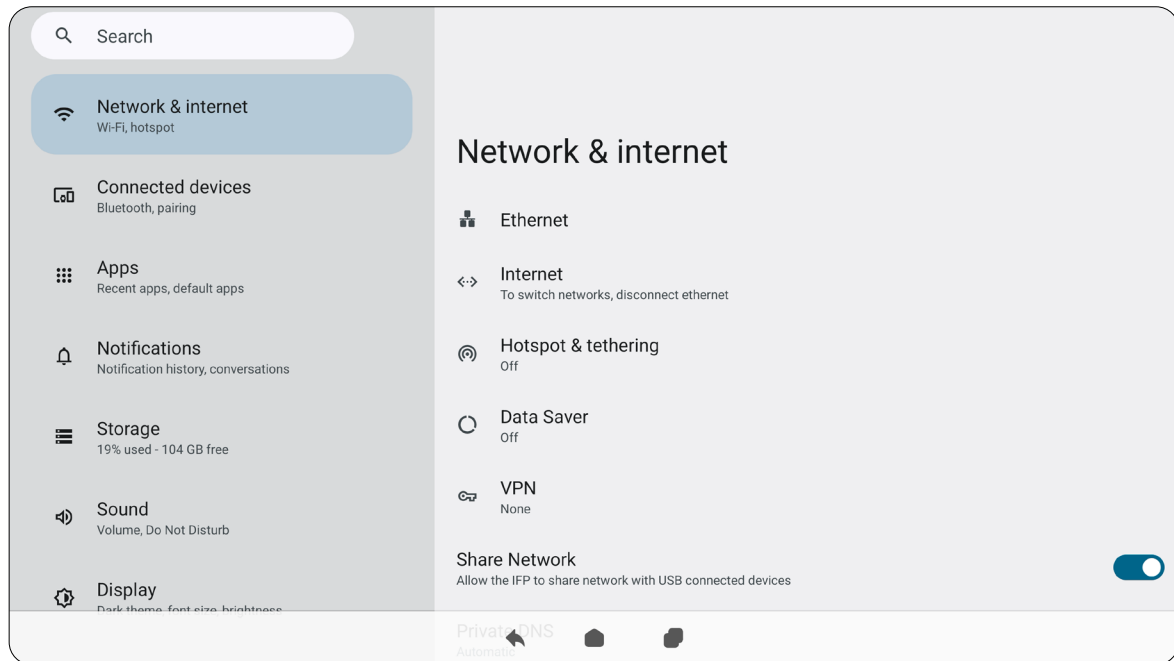
- Tap on **Legal information** to check open source licenses.



# Android Launcher

## Network & Internet

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



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

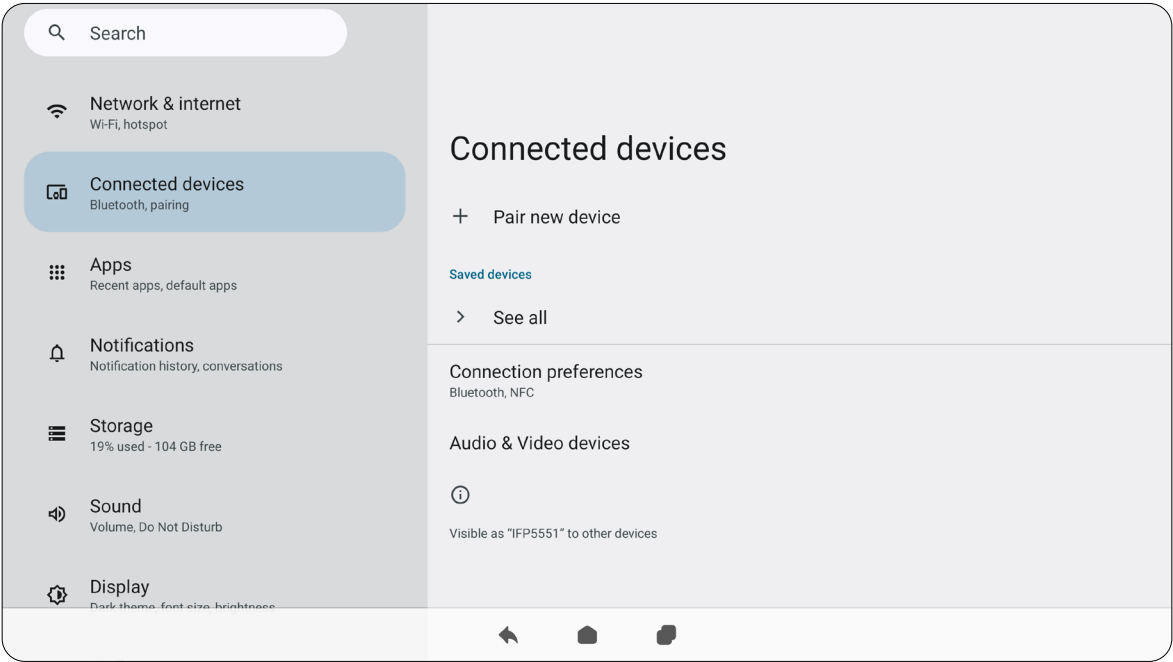
| Item               | Description                                                                        |
|--------------------|------------------------------------------------------------------------------------|
| <b>Private DNS</b> | Maintain an Automatic Private DNS or set one up manually for security and privacy. |

**NOTE:**

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

# Connected Devices

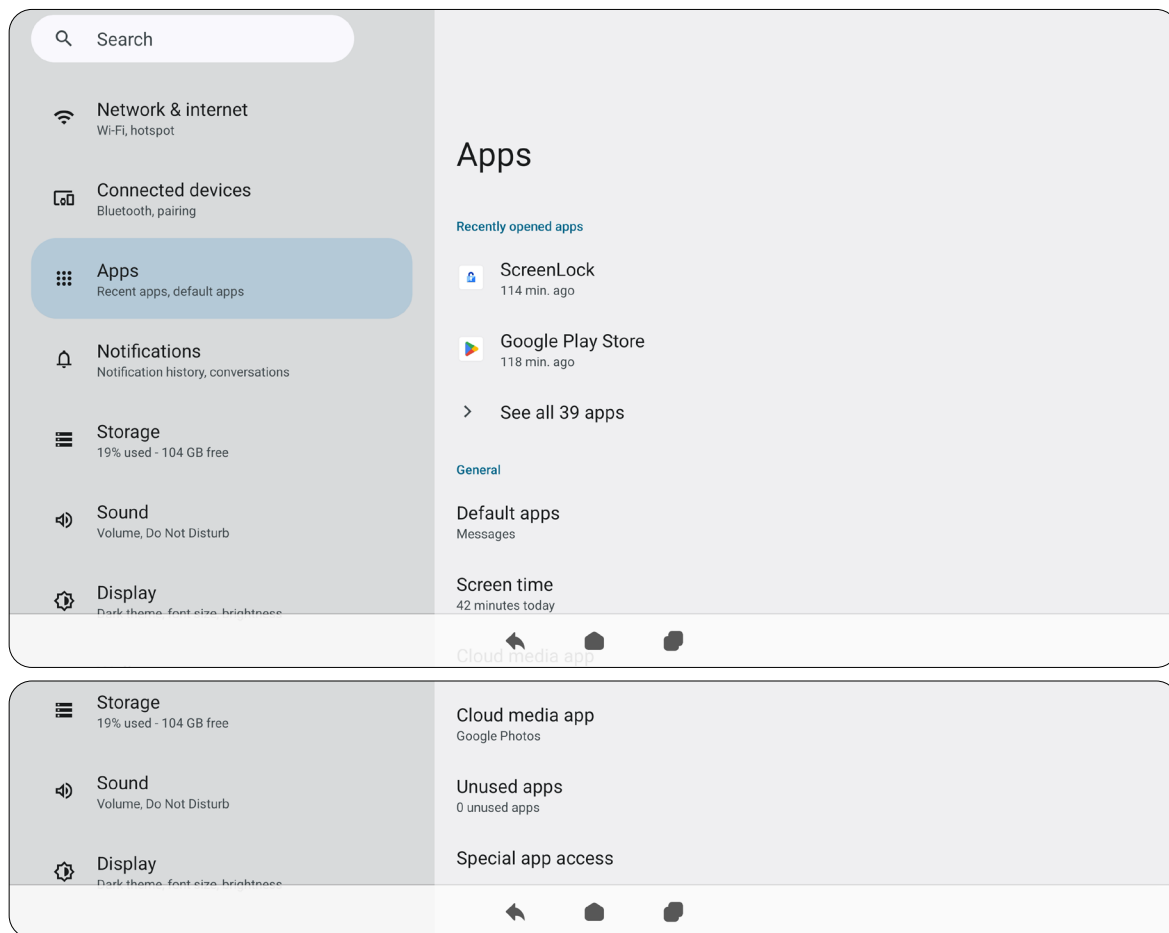
Set up and manage Bluetooth connections, saved devices, and connection preferences for Bluetooth, Casting, and Print Services.



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

## Apps

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

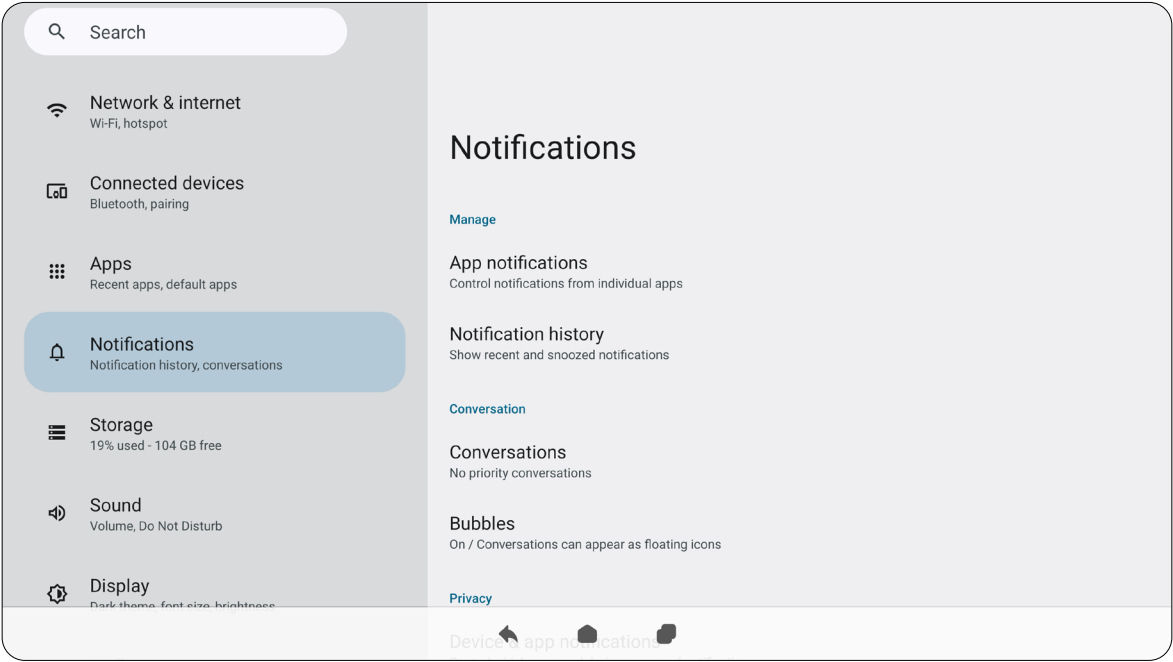


| Item                 | Description                                                                            |
|----------------------|----------------------------------------------------------------------------------------|
| Recently Opened Apps | Any recently used applications will be listed here.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



# Notifications

Manage notification and conversation settings and preferences.

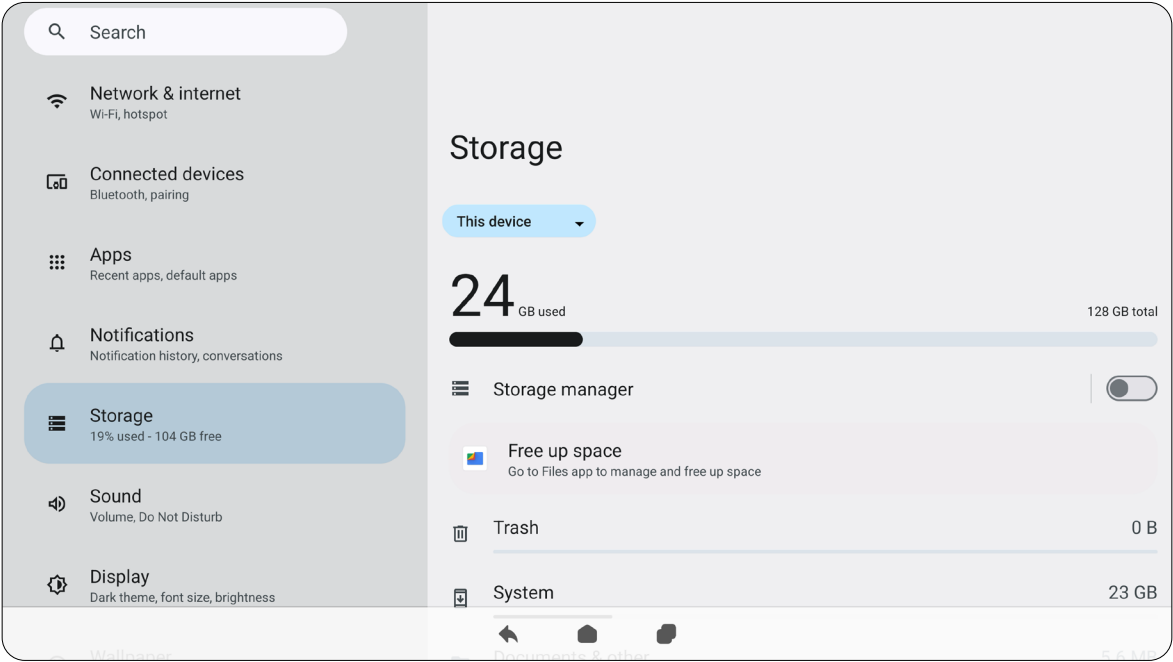


| Item                         | Description                                                                        |
|------------------------------|------------------------------------------------------------------------------------|
| App Notifications            | Set up notification settings for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

| Item                                           | Description                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Wireless Emergency Alerts</b>               | Choose to receive or not receive Emergency Alerts.                                                        |
| <b>Hide Silent Notifications in Status Bar</b> | When enabled, notifications that have been “silenced” will no longer appear in the status bar area.       |
| <b>Allow Notification Snoozing</b>             | When enabled, notifications can be “snoozed” for a short period of time for applications.                 |
| <b>Notification Dot on App Icon</b>            | When enabled, a small dot will appear on the application icon when there is a new notification available. |
| <b>Enhanced Notifications</b>                  | When enabled, receive suggestions for actions, replies, etc.                                              |

# Storage

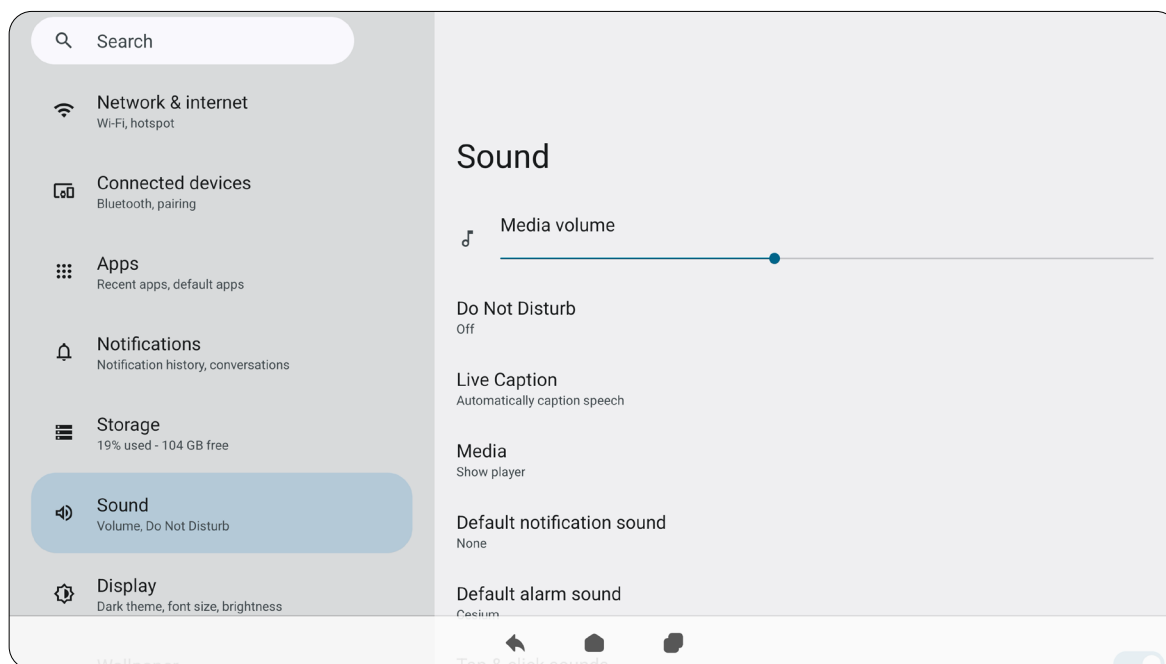
Check the storage status of the ViewBoard.



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

## Sound

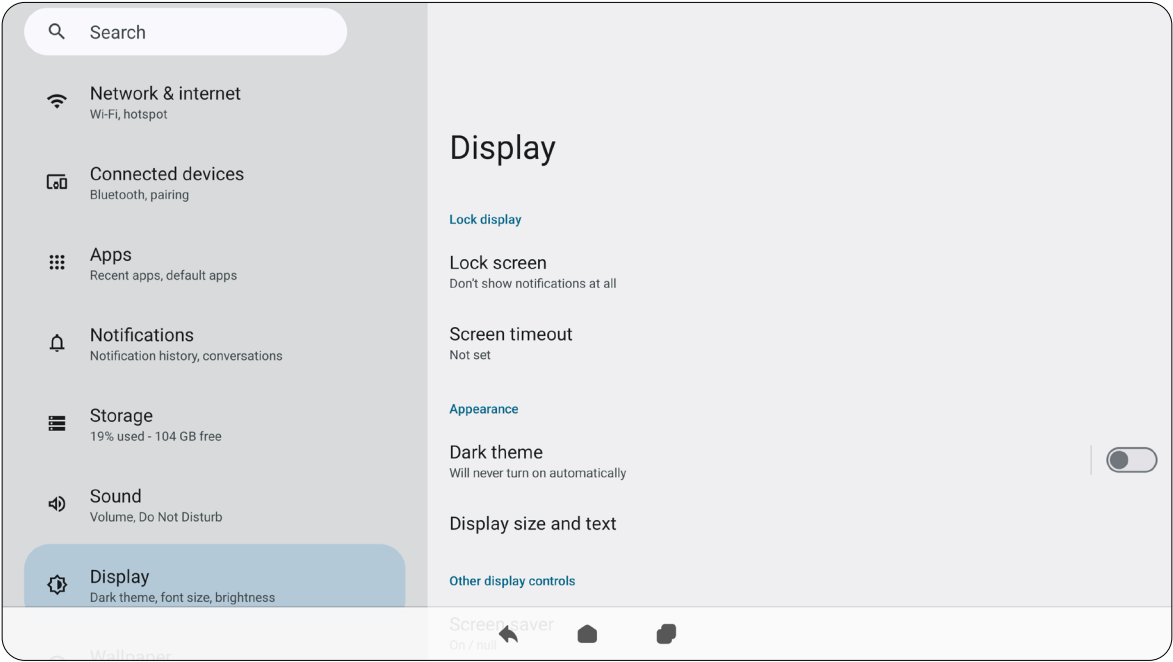
Adjust the volume level and set up various sound preferences.



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

# Display

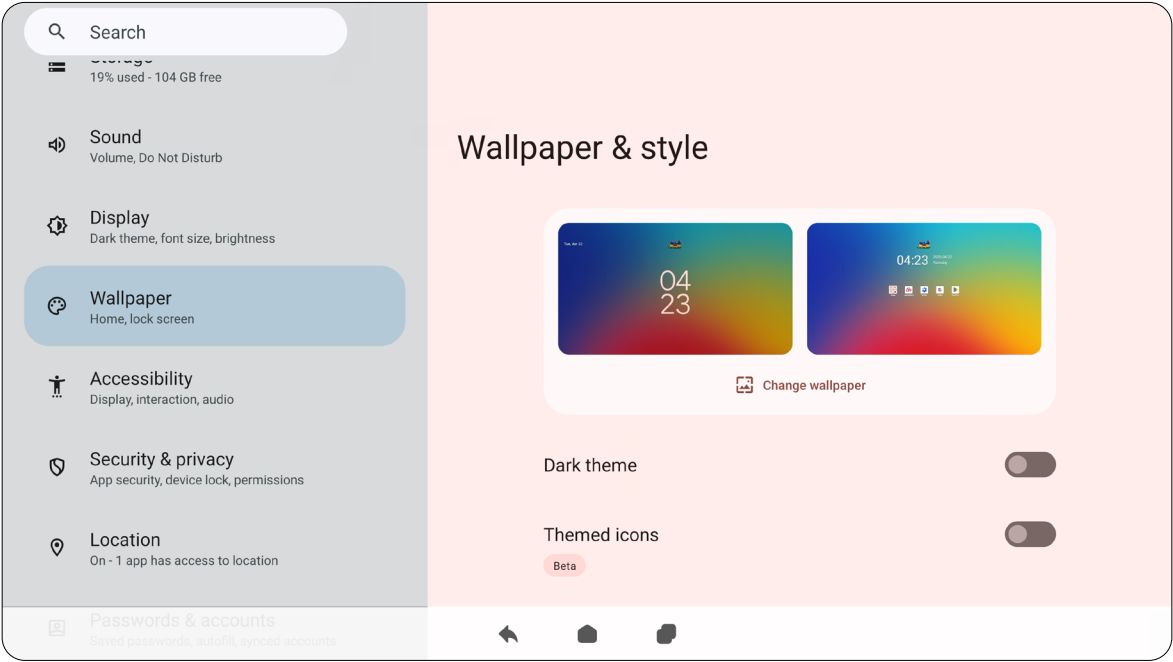
Adjust Brightness, Timeout, Theme, HDMI CEC, and other display related settings.



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

# Wallpaper & Style

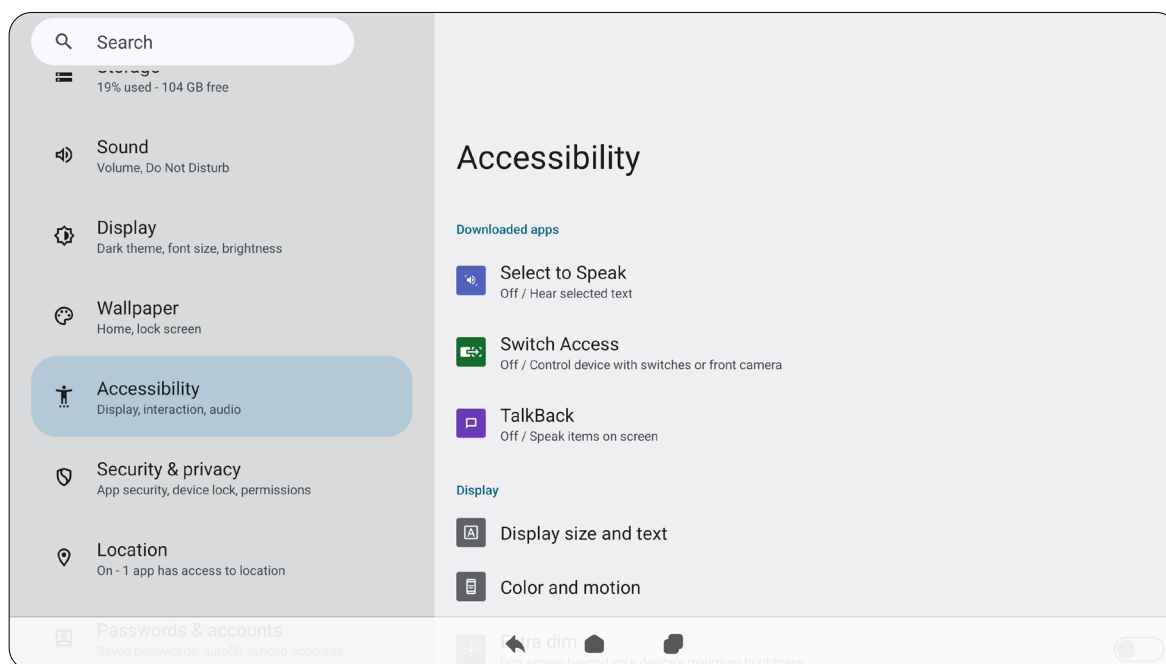
Adjust and personalize the Wallpaper, Colors and theme of the ViewBoard.



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

## Accessibility

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



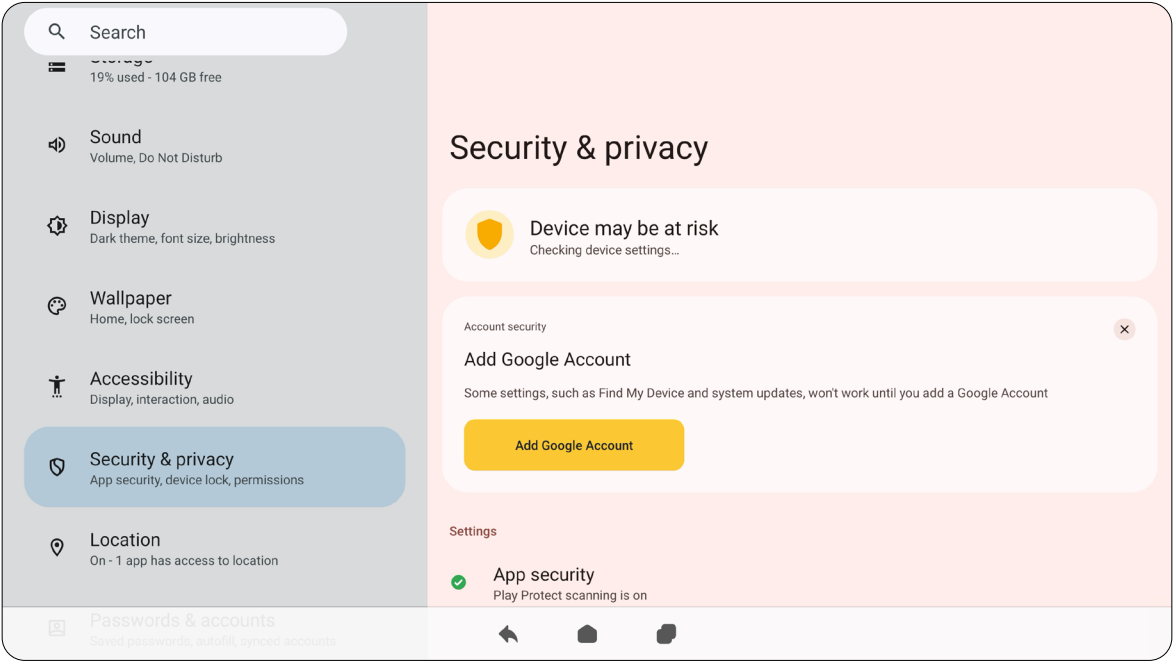
| Item                         | Description                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Select to Speak</b>       | When enabled, certain on-screen items will be read or described aloud when tapped (e.g., text or image). |
| <b>Switch Access</b>         | Allows the use of one or more switches (e.g., keyboard, controller, etc.) to control the ViewBoard.      |
| <b>TalkBack</b>              | When enabled, device actions will be described by audio so it can be used without looking at the screen. |
| <b>Display Size and Text</b> | Adjust the overall display size or only the text size.                                                   |
| <b>Color and Motion</b>      | Apply color correction and inversion and enlarge the mouse pointer.                                      |
| <b>Extra Dim</b>             | Dim the screen for a more comfortable viewing experience.                                                |
| <b>Magnification</b>         | Zoom in on the screen to enlarge the content.                                                            |
| <b>Accessibility Menu</b>    | Add a shortcut for a enlarged on-screen menu to control the device.                                      |

| Item                           | Description                                                                                                                          |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Timing Controls</b>         | Adjust how long temporary messages that ask for an action are on screen, enable Autoclick, and adjust the touch and hold delay time. |
| <b>System Controls</b>         | Adjust the way to navigate the system.                                                                                               |
| <b>Live Caption</b>            | Set the live caption preferences.                                                                                                    |
| <b>Caption Preferences</b>     | Enable captions and adjust the size and style.                                                                                       |
| <b>Audio Description</b>       | When enabled, an audio description of what is happening on screen in supported movies and shows will be given.                       |
| <b>Flash Notifications</b>     | Set the screen or camera to light up every time a notification comes in.                                                             |
| <b>Audio Adjustment</b>        | Combine audio channels into a single mono channel.                                                                                   |
| <b>Accessibility Shortcuts</b> | Adjust the shortcut settings and availability on the lock screen.                                                                    |
| <b>Text-to-Speech Output</b>   | When set up, text can be read out loud.                                                                                              |



# Security & Privacy

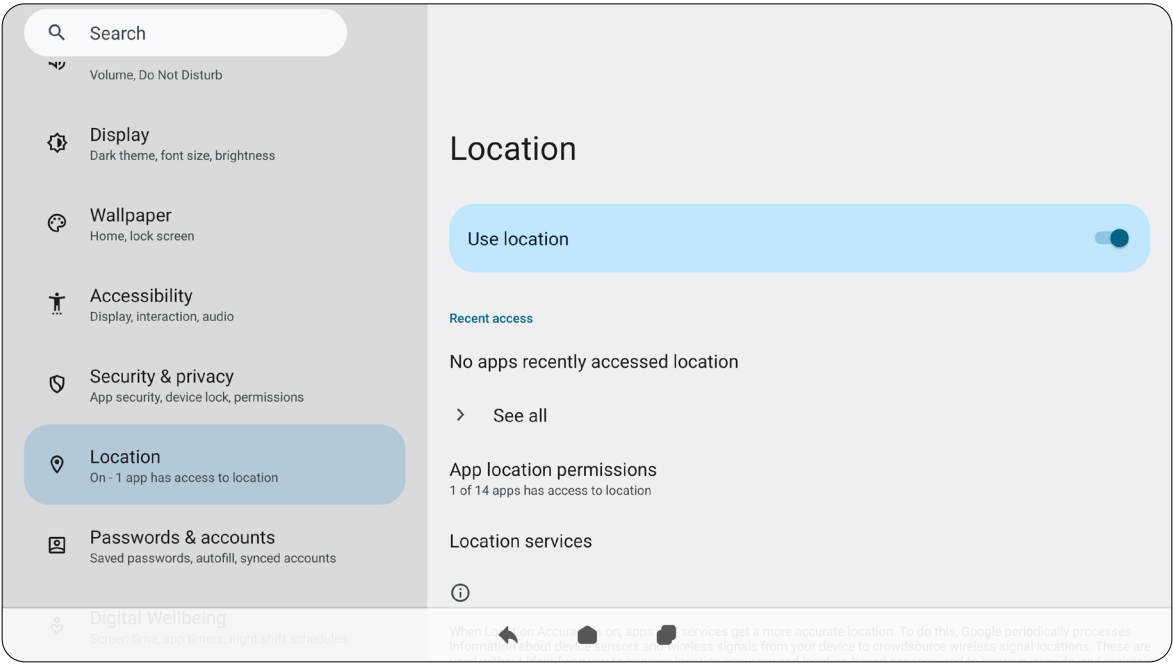
Review and adjust device security and privacy settings.



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

# Location

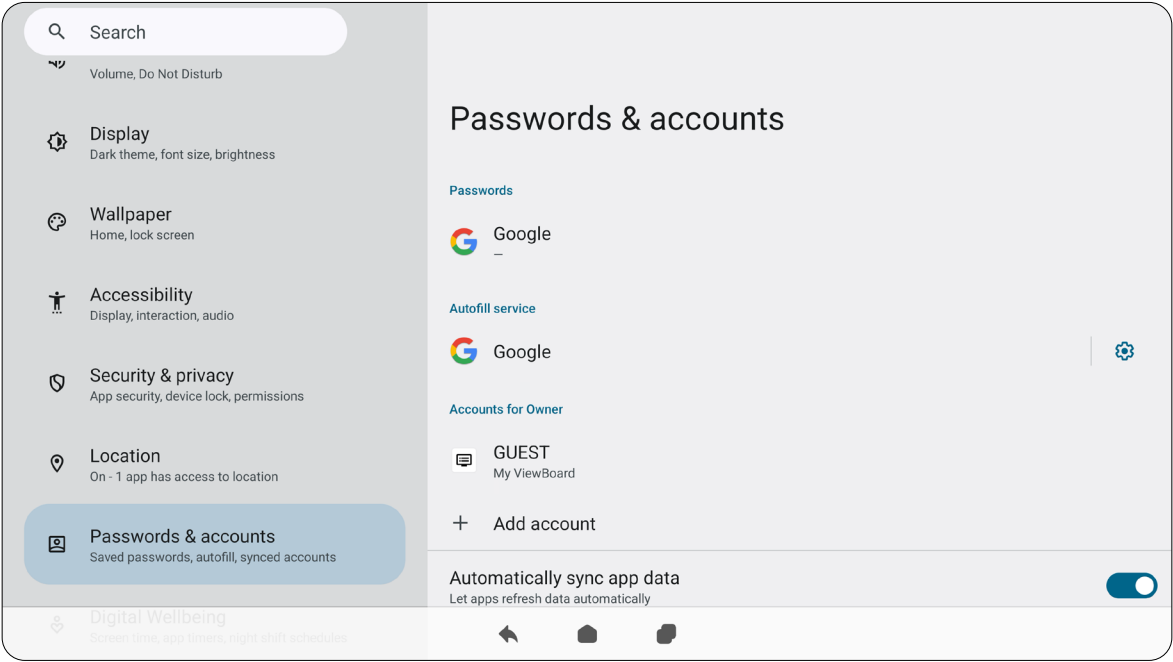
View and manage location settings.



| Item                     | Description                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------|
| Use Location             | When enabled, the location of the device will be accessible to applications.                  |
| Recent Access            | Review which applications recently accessed the device’s location.                            |
| App Location Permissions | Review which applications have permission to access the device’s location.                    |
| Location Services        | Turn ON/OFF various alerts, services, and scanning related to location and location accuracy. |

# Passwords & Accounts

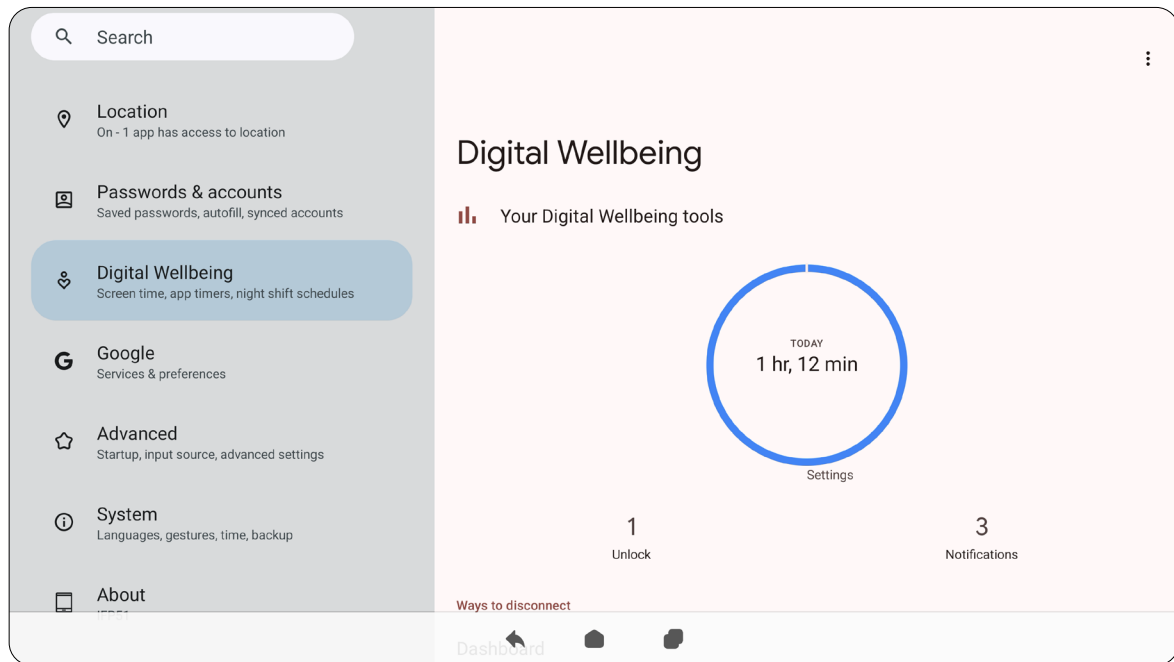
Review saved passwords, select autofill services, and add accounts.



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

## Digital Wellbeing

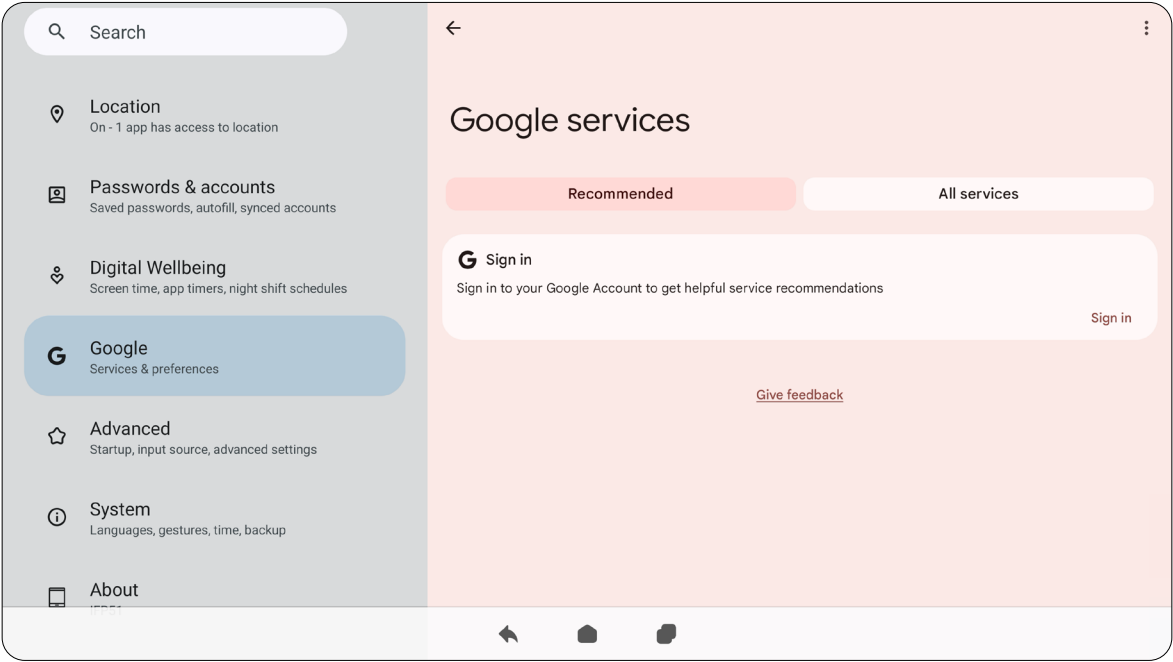
Review the ViewBoard's usage time, and set up various tools to promote a better balance with the device.



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

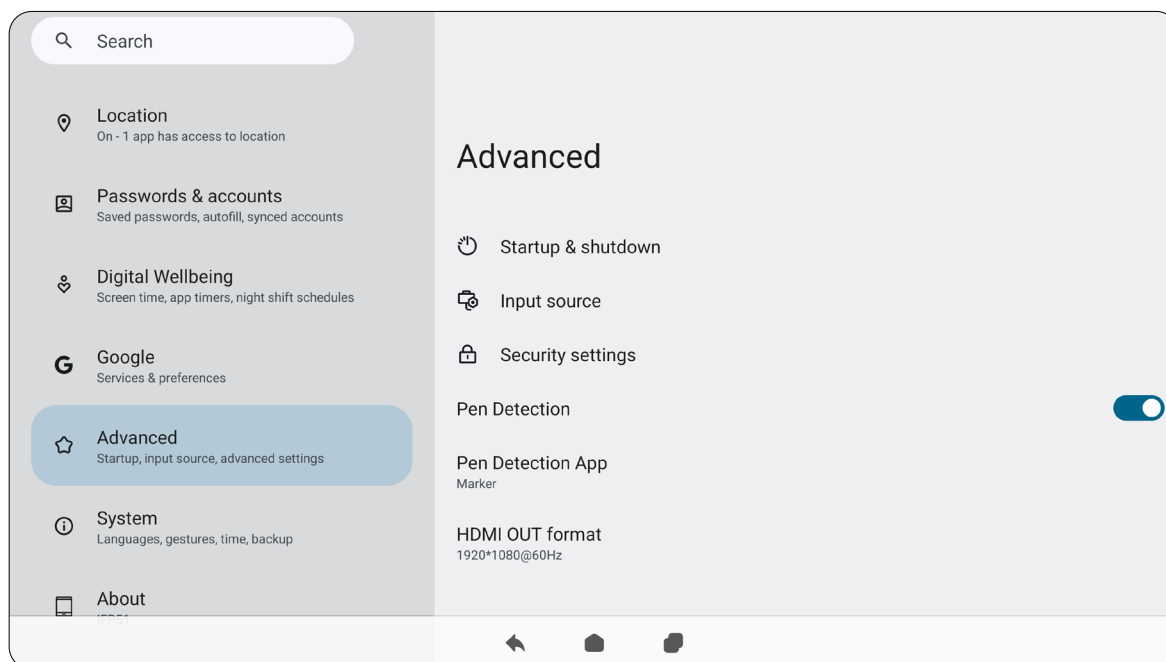
# Google

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



## Advanced

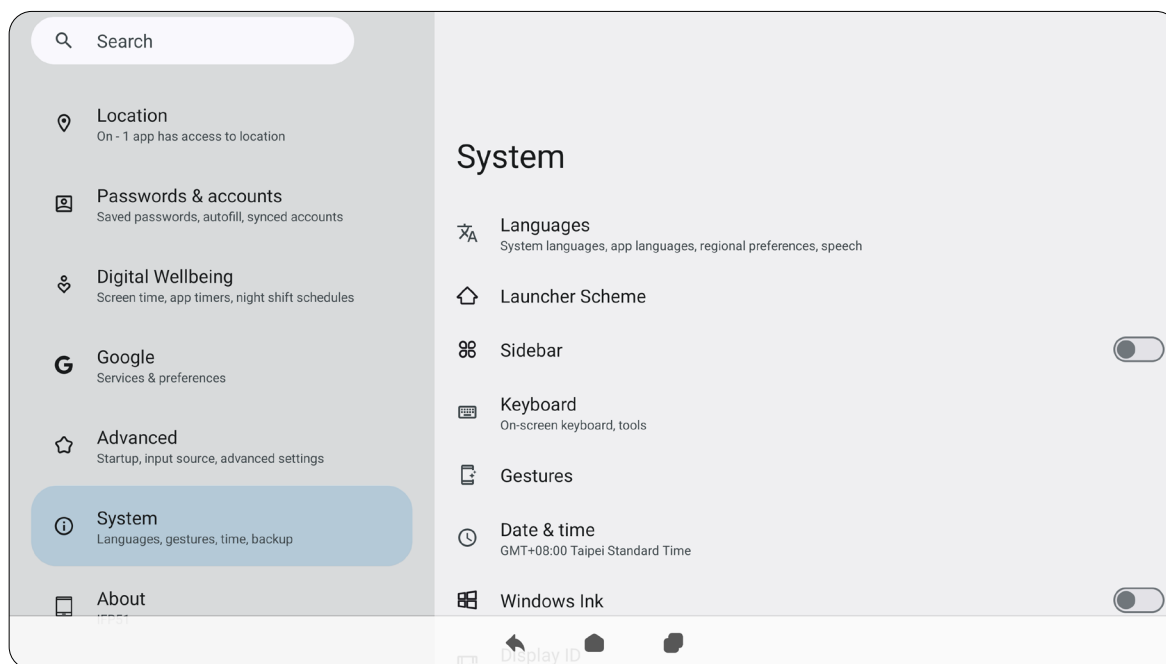
View and adjust various system settings.



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

## System

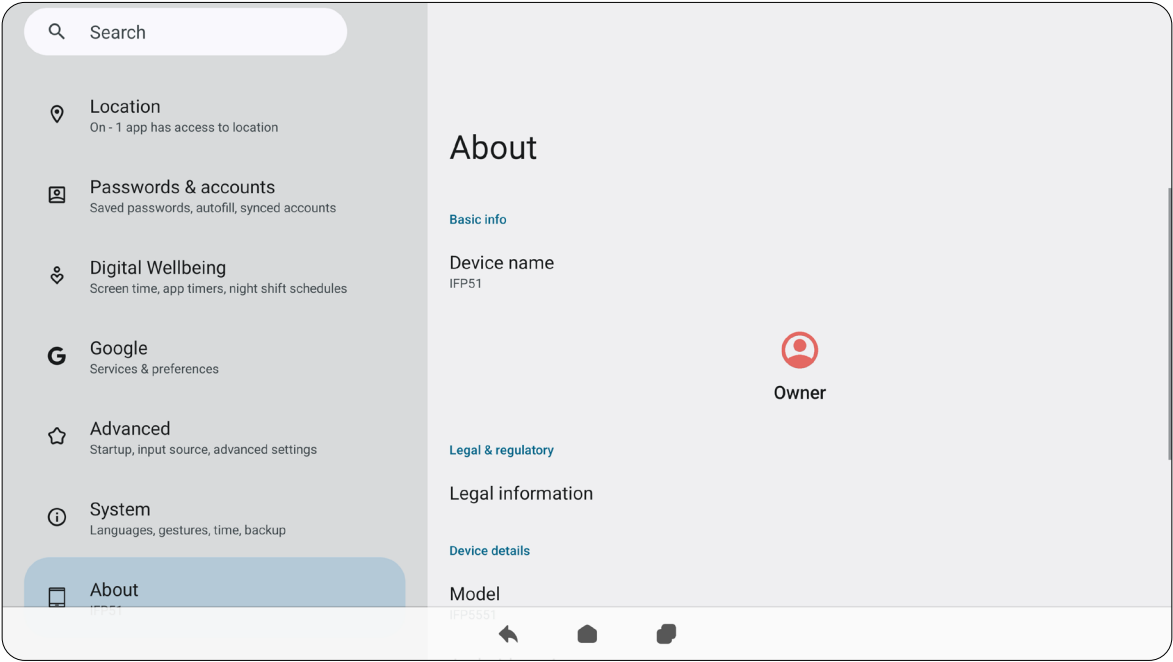
View and adjust various system settings.



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

# About Device

Review device information.

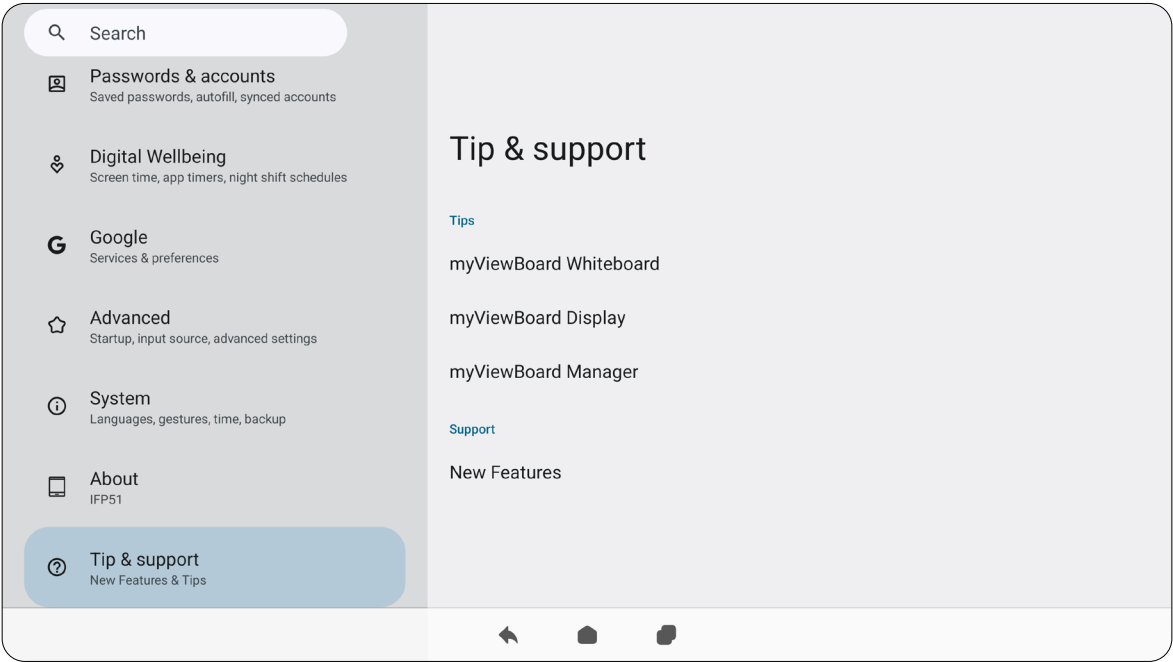


| Item                     | Description                                     |
|--------------------------|-------------------------------------------------|
| Device Name              | View the name of the device.                    |
| Legal Information        | View the relevant legal information.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



# Tips & Support

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



## Android Settings Menu Tree

| Menu               | Sub-menu | Menu Option            |                                |        |
|--------------------|----------|------------------------|--------------------------------|--------|
| Network & Internet | Ethernet | DHCP                   |                                |        |
|                    |          | Static IP              |                                |        |
|                    |          | IP Address             |                                |        |
|                    |          | Default gateway        |                                |        |
|                    |          | Netmask                |                                |        |
|                    |          | DNS                    |                                |        |
|                    |          | Proxy                  |                                |        |
|                    |          | Mac address            |                                |        |
|                    | Internet | Wi-Fi                  | Wi-Fi list                     |        |
|                    |          |                        | Add network                    |        |
|                    |          | Network Preferences    | Turn on Wi-Fi automatically    |        |
|                    |          |                        | Notify for public networks     |        |
|                    |          |                        | Share Wi-Fi only via a QR code |        |
|                    |          |                        | Install certificates           | Recent |
|                    |          |                        | Wi-Fi direct                   |        |
|                    |          | Saved Networks         | Other networks                 |        |
|                    |          | Non-carrier data usage |                                |        |

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

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

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

| Menu | Sub-menu             | Menu Option           |                              |                                 |
|------|----------------------|-----------------------|------------------------------|---------------------------------|
| Apps | Recently opened apps | App list              | App battery usage            | Unrestricted                    |
|      |                      |                       |                              | Optimized                       |
|      |                      |                       |                              | Restricted                      |
|      |                      |                       | Open by default              | Open supported links            |
|      |                      |                       | Pause app activity if unused |                                 |
|      |                      |                       | Display over other apps      |                                 |
|      |                      |                       | Modify system settings       | Allow modifying system settings |
|      |                      |                       | Version                      |                                 |
|      | Default apps         | Browser app           | Default browser app          |                                 |
|      |                      | Digital assistant app | Use text from screen         |                                 |
|      |                      |                       | Use screenshot               |                                 |
|      |                      |                       | Flash screen                 |                                 |
|      |                      | Home app              | Default home app             |                                 |
|      |                      | SMS app               | Default SMS app              |                                 |
|      |                      | Opening links         | Instant apps                 |                                 |
|      |                      |                       | Instant apps preferences     |                                 |
|      | Screen time          | Activity details      |                              |                                 |
|      | Cloud media app      |                       |                              |                                 |
|      | Unused apps          |                       |                              |                                 |

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

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



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

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

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

| Menu  | Sub-menu       | Menu Option                  |                 |                        |
|-------|----------------|------------------------------|-----------------|------------------------|
| Sound | Media volume   |                              |                 |                        |
|       | Do not disturb | People                       | Messages        | Starred contacts       |
|       |                |                              |                 | Contacts               |
|       |                |                              |                 | Priority conversations |
|       |                |                              |                 | Anyone                 |
|       |                |                              |                 | None                   |
|       |                | Calls                        |                 | Starred contacts       |
|       |                |                              |                 | Contacts               |
|       |                |                              |                 | Anyone                 |
|       |                |                              |                 | None                   |
|       |                | Apps                         | Apps            |                        |
|       |                |                              | Add apps        |                        |
|       |                | Alarms & other interruptions | Alarms          |                        |
|       |                |                              | Media sounds    |                        |
|       |                |                              | Touch sounds    |                        |
|       |                |                              | Reminders       |                        |
|       |                |                              | Calendar events |                        |

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

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

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

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



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

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

| Menu          | Sub-menu        | Menu Option              |                         |                                           |
|---------------|-----------------|--------------------------|-------------------------|-------------------------------------------|
| Accessibility | Select to speak | Select to speak shortcut |                         |                                           |
|               |                 | Settings                 | Text to speech settings | Preferred engine                          |
|               |                 |                          |                         | Language                                  |
|               |                 |                          |                         | Speech rate                               |
|               |                 |                          |                         | Pitch                                     |
|               |                 |                          | Change reading voice    |                                           |
|               |                 |                          | Read in background      |                                           |
|               |                 |                          | Read text on images     |                                           |
|               |                 |                          | Help & feedback         | Popular help resources                    |
|               |                 |                          | Developer settings      | Enable taking snapshot                    |
|               |                 |                          |                         | Allow snapshot to take detail information |
|               | Switch access   | Use Switch Access        | Choose a switch type    |                                           |
|               |                 | Switch Access shortcut   |                         |                                           |

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

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

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

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

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



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

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

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

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

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

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

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

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



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

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

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

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

| Menu              | Sub-menu                  | Menu Option                              |                                        |                                        |
|-------------------|---------------------------|------------------------------------------|----------------------------------------|----------------------------------------|
| Digital Wellbeing | Do not disturb            | Display options for hidden notifications | No sound from notifications            |                                        |
|                   |                           |                                          | No visuals or sound from notifications |                                        |
|                   |                           |                                          | Custom                                 | Don't turn on screen                   |
|                   |                           |                                          |                                        | Don't wake for notifications           |
|                   |                           |                                          |                                        | Hide notification dots on app icons    |
|                   |                           |                                          |                                        | Hide status bar icons at top of screen |
|                   |                           |                                          |                                        | Don't pop notifications on screen      |
|                   |                           |                                          | Hide from pull-down shade              |                                        |
|                   | Heads up                  |                                          |                                        |                                        |
|                   | Show icon in the app list |                                          |                                        |                                        |
|                   | Parental controls         |                                          |                                        |                                        |

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

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

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



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

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

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

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

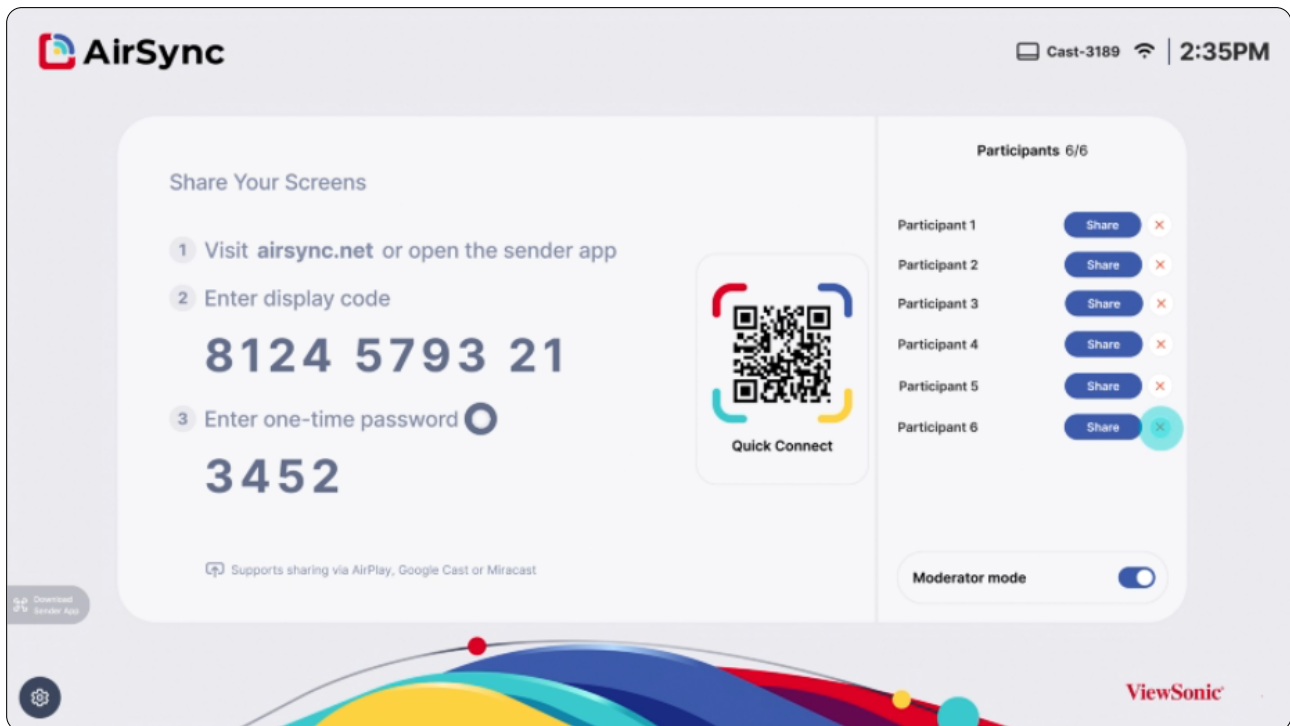
| Menu         | Sub-menu          | Menu Option                       |  |
|--------------|-------------------|-----------------------------------|--|
| System       | Reset options     | Reset Wi-Fi & Bluetooth           |  |
|              |                   | Reset app preferences             |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

| Menu                      | Sub-menu                 | Menu Option |
|---------------------------|--------------------------|-------------|
| <b>About Device</b>       | IP address               |             |
|                           | Ethernet address         |             |
|                           | Wi-Fi MAC address        |             |
|                           | Device Wi-Fi MAC address |             |
|                           | Bluetooth address        |             |
|                           | Up time                  |             |
|                           | Build number             |             |
| <b>Tips &amp; Support</b> | myViewBoard Whiteboard   |             |
|                           | myViewBoard Display      |             |
|                           | myViewBoard Manager      |             |
|                           | New features             |             |

# Pre-installed Applications and Settings

## AirSync

Wirelessly mirror screens to a larger display.



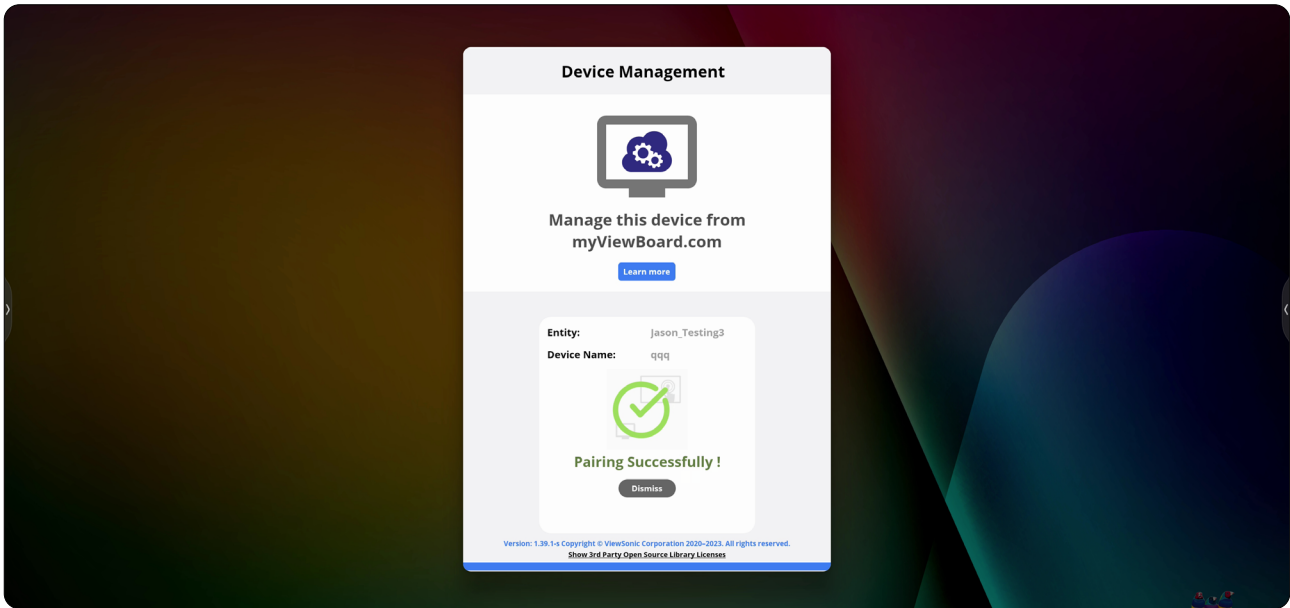
To share a screen to a ViewBoard with AirSync:

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

**NOTE:** The password refreshes every 30 seconds.

# 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**.

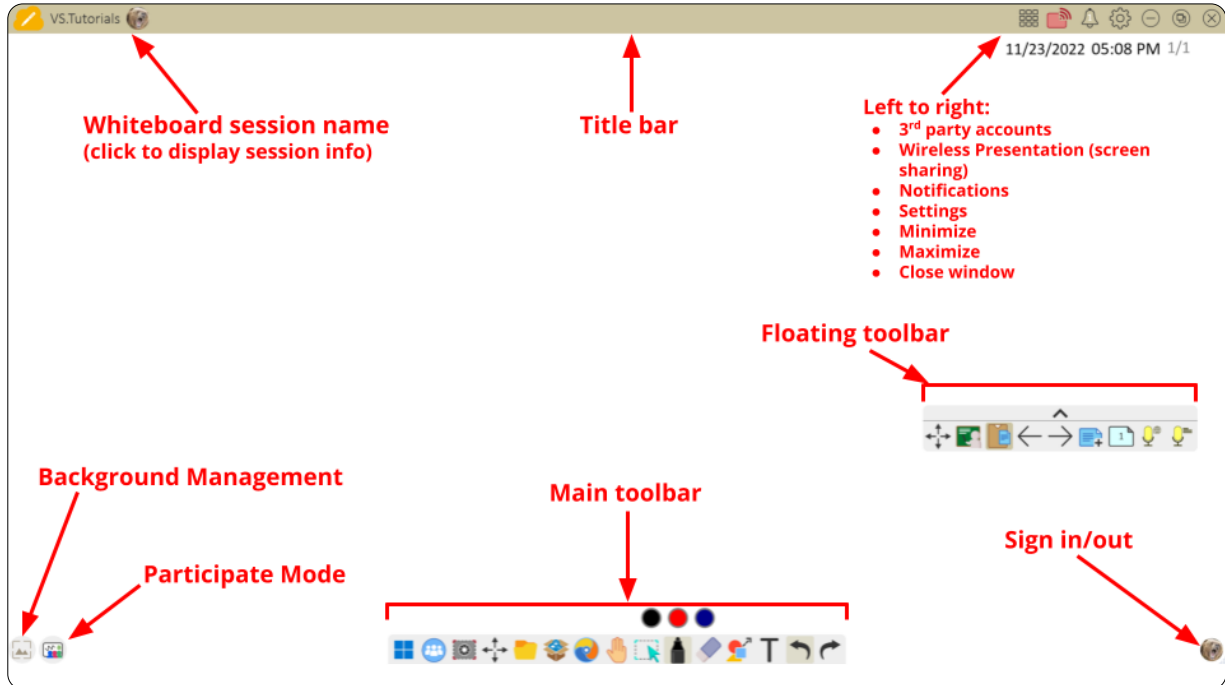
**NOTE:** To learn more about myViewBoard Manager, visit: [https://myviewboard.com/kb/en\\_US/getting-started/overview-manager](https://myviewboard.com/kb/en_US/getting-started/overview-manager).



# myViewBoard Whiteboard

A digital whiteboarding application.

**NOTE:** To learn more about myViewBoard Whiteboard, visit: [https://myviewboard.com/kb/en\\_US/getting-started-whiteboard/overview-whiteboard](https://myviewboard.com/kb/en_US/getting-started-whiteboard/overview-whiteboard).



## Floating Toolbar

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

## Main Toolbar

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

## Background Management

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

# RS-232 Protocol

This document describes the hardware interface and software protocols of RS-232 interface communication between the ViewSonic LED Display and computers or other control units with RS-232 protocol.

The protocol contains three command sections:

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

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

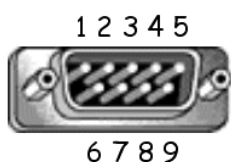
## Description

### RS-232 Hardware Specification

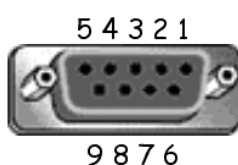
ViewSonic LFD communication port on the rear side:

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

Male DSUB 9-Pin  
(preferred)



Female DSUB 9-Pin



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    |                     |

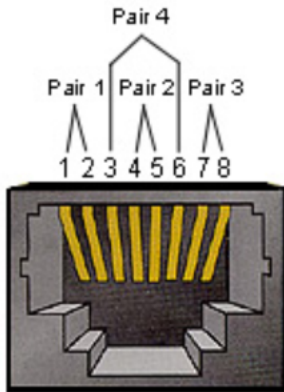
| Item   | Signal | Remark              |
|--------|--------|---------------------|
| Tip    | TXD    | Output from Display |
| Ring   | RXD    | Input to Display    |
| Sleeve | GND    |                     |

## 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:

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

### Set-Function Format

#### Send: (Command Type="s")

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

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

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

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

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

#### Send (Hex Format)

| Name | Length | ID           | Command Type | Command | Value1 | Value2 | Value3 | CR   |
|------|--------|--------------|--------------|---------|--------|--------|--------|------|
| Hex  | 0x38   | 0x30<br>0x32 | 0x73         | 0x24    | 0x30   | 0x37   | 0x36   | 0x0D |

#### Reply (Hex Format)

| Name | Length | ID           | Command Type | CR   |
|------|--------|--------------|--------------|------|
| Hex  | 0x34   | 0x30<br>0x32 | 0x2B         | 0x0D |

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

#### Send (Hex Format)

| Name | Length | ID           | Command Type | Command | Value1 | Value2 | Value3 | CR   |
|------|--------|--------------|--------------|---------|--------|--------|--------|------|
| Hex  | 0x38   | 0x30<br>0x32 | 0x73         | 0x24    | 0x30   | 0x37   | 0x35   | 0x0D |

#### Reply (Hex Format)

| Name | Length | ID           | Command Type | CR   |
|------|--------|--------------|--------------|------|
| Hex  | 0x34   | 0x30<br>0x32 | 0x2D         | 0x0D |

## Set-Function Table

### A. Basic Function

| Set Function                      | Length | ID | Command      | Command      | Value Range | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------|--------|----|--------------|--------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   |        |    | Type (ASCII) | Code (ASCII) | Code (Hex)  | (Three ASCII bytes)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Power ON *3.2.1/<br>OFF (standby) | 8      |    | s            | !            | 21          | 000: STBY<br>001: ON<br><br>1. The Power-on via LAN control may work only under specific modes. See display UG for details. *3.1.1<br>2. "WOL by MAC address" maybe available as an alternative.*3.2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Input Select                      | 8      |    | s            | "            | 22          | 000: TV<br>001: AV<br>002: S-Video<br>003: YPbPr<br>004: HDMI1<br>014: HDMI2<br>024: HDMI3<br>034: HDMI4<br><br>005: DVI<br>006: VGA1<br>016: VGA2<br>026: VGA3<br><br>007: Slot-in PC (OPS/SDM)/HDBT<br><br>008: Internal memory<br>009: DP1 *3.2.4<br>023: DP2<br>019: Type-C 1 *3.3.2<br>039: Type-C 2<br><br>00A: Embedded/Main (Android)<br><br>1. No need for USB<br>2. For the case of two or more same sources, the 2nd digital is used to indicate the extension.<br>3. The HEX of 00A is 30 30 41.<br>4. 00Z is reserved for cycle mode *3.3.1<br>5. Using 2nd digi to identify DP or Type C. 0 and even numbers stand for DP; odd numbers stand for Type C *3.3.2 |
| Brightness                        | 8      |    | s            | \$           | 24          | 000 ~ 100<br>900: Bright down (-1)<br>901: Bright up (+1)<br>*3.1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Backlight *3.2.0                  | 8      |    | A            | B            | 42          | 000 ~ 100<br><br>1. For Android platform whose main mode is controlled by backlight and the other sources are controlled by brightness.<br>2. Derived from Color calibration. *3.2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Power lock                        | 8      |    | s            | 4            | 34          | 000: Unlock<br>001: Lock<br><br>*See note in details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Volume                            | 8      |    | s            | 5            | 35          | 000 ~ 100<br>900: Volume down(-1)<br>901:Volume up(+1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mute                              | 8      |    | s            | 6            | 36          | 000: OFF<br>001: ON (mute)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Button lock                       | 8      |    | s            | 8            | 38          | 000: Unlock<br>001: Lock<br><br>*See note in details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Menu lock                         | 8      |    | s            | >            | 3E          | 000: Unlock<br>001: Lock<br><br>*See note in details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



| Set Function    | Length | ID | Command | Command | Value Range | Comments                                                                                                     |
|-----------------|--------|----|---------|---------|-------------|--------------------------------------------------------------------------------------------------------------|
| Number *3.1.1   | 8      |    | s       | @       | 40          | 000~009                                                                                                      |
| Key Pad *3.1.1  | 8      |    | s       | A       | 41          | 000: UP<br>001: DOWN<br>002: LEFT<br>003: RIGHT<br>004: ENTER<br>005: INPUT<br>006: MENU/(EXIT)<br>007: EXIT |
| Remote Control  | 8      |    | s       | B       | 42          | 000: Disable<br>001: Enable<br>002: Pass through                                                             |
| Restore default | 8      |    | s       | ~       | 7E          | 000                                                                                                          |

**Disable:** RCU will have no function  
**Enabled:** RCU controls normally  
**Pass through:** Display will bypass the RC code to connected device via the RS-232 port, but not react itself.

**NOTE:****1. Behavior at Lock Modes**

| Lock Mode              | Behavior                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Button Lock            | <ol style="list-style-type: none"> <li>1. Lock all buttons on the front panel and RCU, except for “Power”</li> <li>2. All the SET functions should be workable via RS-232, even the ones with according hot key in RCU like Mute,...etc.</li> </ol>                                                                                                                                                                                                                                               |
| MENU Lock              | <ol style="list-style-type: none"> <li>1. Lock the “MENU’ key of front panel and RCU</li> <li>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.</li> </ol>                                                                                                                                                                                 |
| POWER Lock             | <ol style="list-style-type: none"> <li>1. Lock the “POWER” key on the front and RCU.</li> <li>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.</li> <li>3. Can not be unlocked by reset in OSD setting</li> <li>4. Will auto AC power-on in power-lock</li> <li>5. Under power-lock, the set will not enter power saving when no PC signal and neither turn off when no other video signals after 15 minutes.</li> </ol> |
| 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<br>001: ON                                                                                                                                                                                                                                                                            |                                                         |
| Color mode       | 8      |    | s            | )            | 29         | 000: Normal<br>001: Warm<br>002: Cold<br>003: Personal                                                                                                                                                                                                                                         |                                                         |
| Surround sound   | 8      |    | s            | -            | 2D         | 000: OFF<br>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)<br>001: NORMAL (4:3)<br>002: REAL (1:1)<br>*3.1.0                                                                                                                                                                                                                             |                                                         |
| OSD language     | 8      |    | s            | 2            | 32         | 000: English<br>001: French<br>002: Spanish                                                                                                                                                                                                                                                    | Could be extended for more supported languages by model |
| PIP-Mode         | 8      |    | s            | 9            | 39         | 000: OFF<br>001: PIP(POP)<br>002: PBP                                                                                                                                                                                                                                                          |                                                         |
| PIP-Sound select | 8      |    | s            | :            | 3A         | 000: Main<br>001: Sub                                                                                                                                                                                                                                                                          |                                                         |
| PIP-Position     | 8      |    | s            | ;            | 3B         | 000: Up<br>001: Down<br>002: Left<br>003: Right                                                                                                                                                                                                                                                |                                                         |
| PIP-Input        | 8      |    | s            | 7            | 37 *2.9    | 000: TV<br>001: AV<br>002: S-Video<br>003: YPbPr<br>004: HDMI1<br>014: HDMI2<br>024: HDMI3<br>034: HDMI4<br><br>005: DVI<br>006: VGA1<br>016: VGA2<br>026: VGA3<br><br>007: Slot-in PC (OPS/SDM)/HDBT<br>008: Internal memory<br>009: DP/Type-C<br>*3.2.4<br><br>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<br>001: ON<br>(for video wall)                                                                        |
| Tiling-Compensation    | 8      |    | s       | Q       | 51          | 000: OFF<br>001: ON<br>(for video wall)<br>Bezel width compensation                                            |
| Tiling-H by V Monitors | 8      |    | s       | R       | 52          | 01x~09x: H<br>0x1~0x9: V<br>(for video wall)<br>1. 2nd digital for H monitors<br>2. 3rd digital for V monitors |
| Tiling-Position        | 8      |    | s       | S       | 53          | 001~025<br>(for Video wall)<br>Copy the screen of Position# to identified display                              |
| Date: Year             | 8      |    | s       | V       | 56          | Y17~Y99<br>Last 2 digits<br>(20)17~(20)99                                                                      |
| Date: Month            | 8      |    | s       | V       | 56          | M01~M12<br>2 digits                                                                                            |
| Date: Day              | 8      |    | s       | V       | 56          | D01~D31<br>2 digits                                                                                            |
| Time: Hour             | 8      |    | s       | W       | 57          | H00~H23<br>24-hr format.<br>2 digits.                                                                          |
| Time: Min              | 8      |    | s       | W       | 57          | M00~M59<br>2 digits                                                                                            |
| Time: Sec              | 8      |    | s       | W       | 57          | S00~S59<br>2 digits                                                                                            |

## NOTE:

### 3. 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 |          |
| 25         |    |    |    |    |          |

### 4. 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")

### 5. 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:

|                     |                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Length:</b>      | Total Byte of Message excluding “CR”.                                                                                           |
| <b>TV/DS ID</b>     | Identification for each of TV/DS (01~98; default is 01).                                                                        |
| <b>Command Type</b> | Identify command type,<br>“g” (0x67h) : Get Command<br>“r” (0x72h) : Valid command Reply<br>“-” (0x2Dh) : Invalid command Reply |
| <b>Command:</b>     | Function command code: One byte ASCII code.                                                                                     |
| <b>Value[1~3]:</b>  | Three bytes ASCII that defines the value.                                                                                       |
| <b>CR</b>           | 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<br>0x35 | 0x67         | 0x62    | 0x30   | 0x30   | 0x30   | 0x0D |

**Reply (Hex Format)**

| Name | Length | ID           | Command Type | Command | Value1 | Value2 | Value3 | CR   |
|------|--------|--------------|--------------|---------|--------|--------|--------|------|
| Hex  | 0x38   | 0x30<br>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<br>0x35 | 0x67         | 0x26    | 0x30   | 0x30   | 0x30   | 0x0D |

**Reply (Hex Format)**

| Name | Length | ID           | Command Type | CR   |
|------|--------|--------------|--------------|------|
| Hex  | 0x34   | 0x30<br>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.<br>2. Derived from Color calibration. *3.2.0            |
| Get-Volume                 | 8      |    | g            | f            | 66         | 000 ~ 100                                            |                                                                                                                                                                                |
| Get-Mute                   | 8      |    | g            | g            | 67         | 000: OFF<br>001: ON (muted)                          |                                                                                                                                                                                |
| Get-Input select           | 8      |    | g            | j            | 6A         | 000~<br>100~                                         | 1. 1st digit for signal detection: 0 means "no signal"; 1 means "signal detected"<br>2. 2nd & 3rd digit: See Set-function table                                                |
| Get-Power status: ON/ STBY | 8      |    | g            | l            | 6C         | 001: ON<br>000: STBY                                 |                                                                                                                                                                                |
| Get-Remote control         | S      |    | g            | n            | 6E         | 000: Disable<br>001: Enable<br>002: Pass through     | Get RCU mode status                                                                                                                                                            |
| Get-Power lock             | 8      |    | g            | o            | 6F         | 000: Unlock<br>001: Lock                             |                                                                                                                                                                                |
| Get-Button lock            | 8      |    | g            | p            | 70         | 000: Unlock<br>001: Lock                             |                                                                                                                                                                                |
| Get-Menu lock              | 8      |    | g            | l            | 6C         | 000: Unlock<br>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:<br>0~+100 deg C<br>-01~-99:<br>-1~-99 deg C |                                                                                                                                                                                |
| Get-Operation hour *3.2.0  | 8      |    | g            | 1            | 31         | 000                                                  | 1. Accumulated hours in 6-digit integer (000,001~ 999,999) *3.2.0<br>2. Can not be reset when FW update and Factory initiation *3.2.2<br>3. Reply in new 32-byte format *3.2.0 |
| Get-Device name            | 8      |    | g            | 4            | 34         | 000                                                  | Reply in new 32-byte format *3.2.0                                                                                                                                             |



| Get Function                | Length | ID | Command | Command |    | Response Range | Comments                                                        |
|-----------------------------|--------|----|---------|---------|----|----------------|-----------------------------------------------------------------|
| Get-MAC address             | 8      |    | g       | 5       | 35 | 000            | (for the models with LAN)<br>Reply in new 32-byte format *3.2.0 |
| Get-IP address *3.2.0       | 8      |    | g       | 6       | 36 | 000            | (for the models with LAN)<br>Reply in new 32-byte format *3.2.0 |
| Get-Serial number<br>*3.2.0 | 8      |    | g       | 7       | 37 | 000            | Reply in new 32-byte format *3.2.0                              |
| Get-FW version<br>*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<br>001: ON                        |                                                                                    |
| Get-PIP mode               | 8      |    | g            | t            | 74         | 000: OFF<br>001: PIP (POP)<br>002: PBP     |                                                                                    |
| Get-PIP input              | 8      |    | g            | u            | 75         | 000 ~                                      | See Set-input select                                                               |
| Get-Tiling Mode            | 8      |    | g            | v            | 76         | 000: OFF<br>001: ON                        | (for Video wall)                                                                   |
| Get-Tiling Compensation    | 8      |    | g            | w            | 77         | 000: OFF<br>001: ON                        | (for Video wall)<br>Bezel width compensation                                       |
| Get-Tiling H by V monitors | 8      |    | g            | x            | 78         | 01x~09x: H monitors<br>0x1~0x9: V monitors | (for Video wall)<br>1. 2nd digital for H monitors<br>2. 3rd digital for V monitors |
| Get-Tiling position        | 8      |    | g            | y            | 79         | 000: OFF<br>001~025                        | (for Video wall)<br>Copy the screen of Position# to identified display             |
| Get-Date: Year             | 8      |    | g            | 2            | 32         | Y00~Y00                                    | Last 2 digits<br>(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.<br>2 digits                                                          |
| Get-Time: Min              | 8      |    | g            | 3            | 33         | M00~M00                                    | 2 digits                                                                           |
| Get-Time: Sec              | 8      |    | g            | 3            | 33         | S00~S00                                    | 2 digits                                                                           |

## **NOTE:**

### **1. Get Date example**

Assumed the current date of display#01 as below:

Date: 2017-3/15

Send: 0x 38 30 31 67 32 59 30 30 0D (Get Date:Year)

Reply: 0x 38 30 31 72 32 59 31 37 0D ("Y17")

Send: 0x 38 30 31 67 32 4D 30 30 0D (Get Date:Month)

Reply: 0x 38 30 31 72 32 4D 30 33 0D ("M03")

Send: 0x 38 30 31 67 32 44 30 30 0D (Get Date:Day)

Reply: 0x 38 30 31 72 32 44 31 35 0D ("D15")

### **2. Get Time example**

Assumed the current time of display#01 as below:

Time: 16:27:59

Send: 0x 38 30 31 67 33 48 30 30 0D (Get Time:Hour)

Reply: 0x 38 30 31 72 33 48 31 36 0D ("H16")

Send: 0x 38 30 31 67 33 4D 30 30 0D (Get Time:Min)

Reply: 0x 38 30 31 72 33 4D 32 37 0D ("M27")

Send: 0x 38 30 31 67 33 53 30 30 0D (Get Time:Sec)

Reply: 0x 38 30 31 72 33 53 35 39 0D ("S59")

### **3. Get RS232 version example**

Assumed the version is 3.0.1

Send: 0x 38 30 31 67 36 30 30 30 0D (Get RS232 version)

Reply: 0x 38 30 31 72 36 33 30 31 0D ("301")

### **C. Auto Reply \*3.2.1**

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

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

## Remote Control Pass-through Mode

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

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

### IR Pass Through-Function format

Reply: (Command Type=“p”)

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

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

**Send (Hex Format)**

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

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

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

**NOTE:**

1. This IR-pass-through code is different from the RCU key code.
2. Special control sequence for POWER key under IR-pass through mode.
  - 2-1. When Display is OFF and receives the IR POWER code: Display will turn itself ON, then forward the POWER code to the host via RS-232.
  - 2-2. When Display is ON and receives the IR POWER code: Display will forward the POWER code to the host via RS-232, then turn OFF itself.
  - 2-3. When SET-POWER LOCK is enabled, the Display will not respond to POWER key pressing.
3. The VOLUME UP and VOLUME DOWN code will repeatedly output when you press and hold the keys.



# Appendix

## Display Modes

### DisplayPort

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

## HDMI

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

## USB Type C

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

## VGA

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

## HDMI Out

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

## Troubleshooting

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

| Problem or Issue                | Possible Solutions                                                                                                                                                                                                                                                                 |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remote Control is not working   | <ol style="list-style-type: none"><li>1. Check whether something is obstructing the display's remote control receiver.</li><li>2. Check whether the batteries in the remote control are installed correctly.</li><li>3. Check whether the batteries need to be replaced.</li></ol> |
| The unit turns off unexpectedly | <ol style="list-style-type: none"><li>1. Check whether Sleep mode is enabled.</li><li>2. Check if there is a power outage in your area.</li><li>3. Turn on the display and see if the problem is with the signal and control system.</li></ol>                                     |

### PC Mode

| Problem or Issue     | Possible Solutions                                                                                                                                                                                       |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No PC signal         | <ol style="list-style-type: none"><li>1. Check the display settings.</li><li>2. Check the display resolution.</li><li>3. Adjust the Hs &amp; Vs (synchronization) settings using the OSD menu.</li></ol> |
| Background streaking | <ol style="list-style-type: none"><li>1. Choose auto adjust.</li><li>2. Adjust clock and phase.</li></ol>                                                                                                |
| Unsupported format   | <ol style="list-style-type: none"><li>1. Choose auto adjust.</li><li>2. Adjust clock and phase settings.</li></ol>                                                                                       |

## Touch Function

| Problem or Issue             | Possible Solutions                                                                                                                                                                                                              |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Touch function does not work | <ol style="list-style-type: none"><li>1. Check that drivers are installed correctly.</li><li>2. Reinstall driver(s).</li><li>3. Check setup and align it.</li><li>4. Check whether the touch pen is working properly.</li></ol> |

## Video Not Working Properly

| Problem or Issue                      | Possible Solutions                                                                                                                                                          |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No picture/ No sound                  | <ol style="list-style-type: none"><li>1. Check the Power status.</li><li>2. Check the signal cable.</li><li>3. Check that the internal PC is installed correctly.</li></ol> |
| Picture is unclear or cuts in and out | <ol style="list-style-type: none"><li>1. Check the signal cable.</li><li>2. Check if other electronics are interrupting the signal.</li></ol>                               |
| Poor picture                          | <ol style="list-style-type: none"><li>1. Adjust chroma, brightness, and contrast settings in the menu.</li><li>2. Check the signal cable.</li></ol>                         |

## Audio Not Working Properly

| Problem or Issue | Possible Solutions                                                                                                                                                                            |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No sound         | <ol style="list-style-type: none"><li>1. Press the Mute/Unmute button.</li><li>2. Adjust the volume.</li><li>3. Check the audio cable.</li></ol>                                              |
| One speaker only | <ol style="list-style-type: none"><li>1. Adjust the sound balance in the menu.</li><li>2. Check the sound control panel settings of the computer.</li><li>3. Check the audio cable.</li></ol> |

# 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.

Contains FCC ID: GSS-VS20736

### Industry Canada Statement

CAN ICES (B) / NMB (B)

Contains IC ID: 4280A-VS20736

## CE Conformity for European Countries



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

The full declaration of conformity can be found at the following website:

- [https://www.viewsonicglobal.com/public/products\\_download/safety\\_compliance/IFP/VS20432\\_CE\\_DoC.pdf](https://www.viewsonicglobal.com/public/products_download/safety_compliance/IFP/VS20432_CE_DoC.pdf)
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- [https://www.viewsonicglobal.com/public/products\\_download/safety\\_compliance/IFP/VS20641\\_CE\\_DoC.pdf](https://www.viewsonicglobal.com/public/products_download/safety_compliance/IFP/VS20641_CE_DoC.pdf)
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### 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.



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 <sup>+</sup> ) | 0.1%                           | < 0.1%               |
| Polybrominated biphenyls (PBB)          | 0.1%                           | < 0.1%               |
| Polybrominated diphenyl ethers (PBDE)   | 0.1%                           | < 0.1%               |
| Bis (2-ethylhexyl) phthalate (DEHP)     | 0.1%                           | < 0.1%               |
| Butyl benzyl phthalate (BBP)            | 0.1%                           | < 0.1%               |
| Dibutyl phthalate (DBP)                 | 0.1%                           | < 0.1%               |
| Diisobutyl phthalate (DIBP)             | 0.1%                           | < 0.1%               |

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

- Copper alloy containing up to 4% lead by weight.
- Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
- Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
- Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher.

## ENERGY STAR Statement

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

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

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



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

## Indian Restriction of Hazardous Substances

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

## Product Disposal at End of Product Life

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

### USA & Canada:

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

### Europe:

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

### Taiwan:

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

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

ViewSonic Europe Limited



Haaksbergweg 75  
1101 BR Amsterdam  
Netherlands



+31 (0) 650608655



[EPREL@viewsoniceurope.com](mailto:EPREL@viewsoniceurope.com)



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

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

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

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

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

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

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

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

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



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

## **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:                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                         |
| <b>Name, address, of manufacturer and importers:</b><br>México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas,<br>Col. San Fernando Huixquilucan, Estado de México<br>Tel: (55) 3605-1099 <a href="http://www.viewsonic.com/la/soporte/index.htm">http://www.viewsonic.com/la/soporte/index.htm</a> |                                                                                                                                                                                                                                                                                         |
| NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                         |
| <b>Hermosillo:</b><br>Distribuciones y Servicios Computacionales SA de CV.<br>Calle Juárez 284 local 2<br>Col. Bugambillas C.P: 83140<br>Tel: 01-66-22-14-9005<br>E-Mail: <a href="mailto:disc2@hmo.megared.net.mx">disc2@hmo.megared.net.mx</a>                                                                      | <b>Villahermosa:</b><br>Compumantenimientos Garantizados, S.A. de C.V.<br>AV. GREGORIO MENDEZ #1504<br>COL, FLORIDA C.P. 86040<br>Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09<br>E-Mail: <a href="mailto:compumantenimientos@prodigy.net.mx">compumantenimientos@prodigy.net.mx</a> |
| <b>Puebla, Pue. (Matriz):</b><br>RENTA Y DATOS, S.A. DE C.V. Domicilio:<br>29 SUR 721 COL. LA PAZ<br>72160 PUEBLA, PUE.<br>Tel: 01(52).222.891.55.77 CON 10 LINEAS<br>E-Mail: <a href="mailto:datos@puebla.megared.net.mx">datos@puebla.megared.net.mx</a>                                                            | <b>Veracruz, Ver.:</b><br>CONEXION Y DESARROLLO, S.A DE C.V. Av.<br>Americas # 419<br>ENTRE PINZÓN Y ALVARADO<br>Fracc. Reforma C.P. 91919<br>Tel: 01-22-91-00-31-67<br>E-Mail: <a href="mailto:gacosta@qplus.com.mx">gacosta@qplus.com.mx</a>                                          |
| <b>Chihuahua:</b><br>Soluciones Globales en Computación<br>C. Magisterio # 3321 Col. Magisterial<br>Chihuahua, Chih.<br>Tel: 4136954<br>E-Mail: <a href="mailto:Cefeo@soluglobales.com">Cefeo@soluglobales.com</a>                                                                                                    | <b>Cuernavaca:</b><br>Compusupport de Cuernavaca SA de CV<br>Francisco Leyva # 178 Col. Miguel Hidalgo<br>C.P. 62040, Cuernavaca Morelos<br>Tel: 01 777 3180579 / 01 777 3124014<br>E-Mail: <a href="mailto:aquevedo@compusupportcva.com">aquevedo@compusupportcva.com</a>              |
| <b>Distrito Federal:</b><br>QPLUS, S.A. de C.V.<br>Av. Coyoacán 931<br>Col. Del Valle 03100, México, D.F.<br>Tel: 01(52)55-50-00-27-35<br>E-Mail : <a href="mailto:gacosta@qplus.com.mx">gacosta@qplus.com.mx</a>                                                                                                     | <b>Guadalajara, Jal.:</b><br>SERVICRECE, S.A. de C.V.<br>Av. Niños Héroes # 2281<br>Col. Arcos Sur, Sector Juárez<br>44170, Guadalajara, Jalisco<br>Tel: 01(52)33-36-15-15-43<br>E-Mail: <a href="mailto:mmiranda@servicrece.com">mmiranda@servicrece.com</a>                           |
| <b>Guerrero Acapulco:</b><br>GS Computación (Grupo Sesicomp)<br>Progreso #6-A, Colo Centro<br>39300 Acapulco, Guerrero<br>Tel: 744-48-32627                                                                                                                                                                           | <b>Monterrey:</b><br>Global Product Services<br>Mar Caribe # 1987, Esquina con Golfo Pérsico<br>Fracc. Bernardo Reyes, CP 64280<br>Monterrey N.L. México<br>Tel: 8129-5103<br>E-Mail: <a href="mailto:aydeem@gps1.com.mx">aydeem@gps1.com.mx</a>                                        |
| <b>MÉRIDA:</b><br>ELECTROSER<br>Av Reforma No. 403Gx39 y 41<br>Mérida, Yucatán, México CP97000<br>Tel: (52) 999-925-1916<br>E-Mail: <a href="mailto:rrrb@sureste.com">rrrb@sureste.com</a>                                                                                                                            | <b>Oaxaca, Oax.:</b><br>CENTRO DE DISTRIBUCION Y<br>SERVICIO, S.A. de C.V.<br>Murguía # 708 P.A., Col. Centro, 68000, Oaxaca<br>Tel: 01(52)95-15-15-22-22<br>Fax: 01(52)95-15-13-67-00<br>E-Mail: <a href="mailto:gpotai2001@hotmail.com">gpotai2001@hotmail.com</a>                    |
| <b>Tijuana:</b><br>STD<br>Av Ferrocarril Sonora #3780 L-C<br>Col 20 de Noviembr<br>Tijuana, Mexico                                                                                                                                                                                                                    | <b>FOR USA SUPPORT:</b><br>ViewSonic® Corporation<br>381 Brea Canyon Road, Walnut, CA. 91789 USA<br>Tel: 800-688-6688<br>E-Mail: <a href="http://www.viewsonic.com">http://www.viewsonic.com</a>                                                                                        |

