



# USER MANUAL INTERACTIVE FLAT PANEL JTOUCH SERIES 13E

| REGULATORY MODEL | MODELS | SCREEN DIAGONAL |
|------------------|--------|-----------------|
| IME55G3          | IN6513 | 55'             |
| IME65G3          | IN6513 | 65'             |
| IME75G3          | IN7513 | 75'             |
| IME86G3          | IN8613 | 86'             |



Please read this manual carefully before using the product.  
Please store this manual in a safe place in case you need it again.

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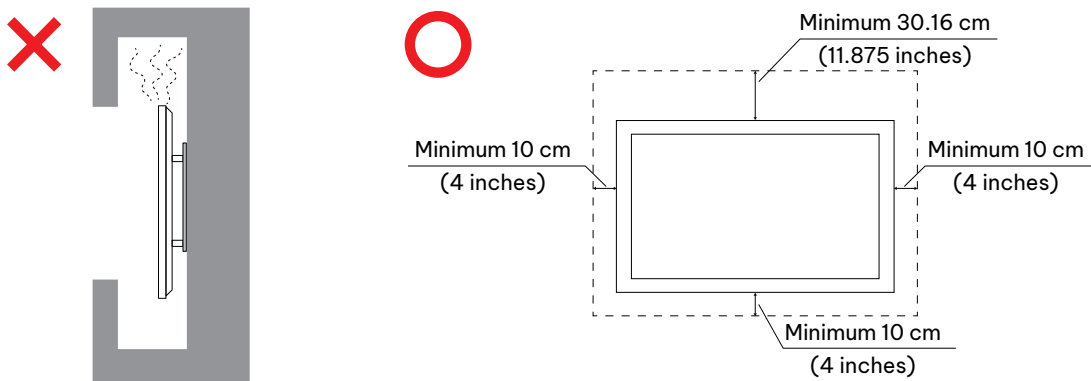
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## 1. SAFETY PRECAUTIONS

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. 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 tread 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

## 2. ABOUT THIS GUIDE

### 2.1 DESCRIPTION OF THE USER

This document is intended for anyone who will install, setup, or use the projector.

### 2.2 CONVENTIONS USED IN THIS GUIDE

The following style conventions are used in this document:

#### **Bold**

- Names of product elements, commands, options, and programs.
- Names of interface elements (such windows, dialog boxes, buttons, fields, and menus).
- Interface elements the user selects, clicks, taps, or types.

#### *Italic*

- Publication titles.
- Emphasis (for example, a new term).

### 2.3 EXPLANATION OF SAFETY WARNINGS



#### **WARNING**

“WARNING” indicates a hazard with a medium to high level of risk which, could result in death or serious injury.



#### **ATTENTION**

“ATTENTION” indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.



#### **INFORMATION**

“INFORMATION” Indicates information considered important, but not hazardrelated.

### 2.4 RETAINING INSTRUCTIONS

Keep all safety information and instructions for future reference and pass them on to subsequent users of the product.



#### **WARNING**

Ensure that each person who uses the product has read and understood this guide and its safety instructions before using this product. Failure to do so can result in serious injury or death.



#### **ATTENTION**

Follow all the instructions. This will avoid fire, explosions, electric shocks, or other hazards that may result in damage to property and/or severe or fatal injuries.



#### **INFORMATION**

The manufacturer is not liable for cases of material damage or personal injury caused by incorrect handling or non-compliance with the safety instructions. In such cases, the warranty will be voided.

## 2.5 OBTAINING DOCUMENTATION AND INFORMATION

The latest version of this document can be obtained by visiting:

- <https://infocus.com/product/infocus-JTouch-13E-series/>

## 2.6 DOCUMENTATION FEEDBACK


If you are reading product documentation on the internet, any comments can be submitted [Here](#). We appreciate your comments.

## 2.7 SUPPORT AND SERVICE

Please contact the support team in your region for technical and product support. Alternatively, you may contact your local distributor if you are in Asia or Australia.

### AMERICAS

Monday – Friday  
6am – 5pm PST


 +1 877-388-8360

 [support@infocus.com](mailto:support@infocus.com)

 [infocus.com/support](https://infocus.com/support)

### EUROPE, MIDDLE EAST & AFRICA

Monday – Friday  
8am – 5pm CET

 [eusupport@infocus.com](mailto:eusupport@infocus.com)

 [infocus.com/support](https://infocus.com/support)

### ASIA PACIFIC

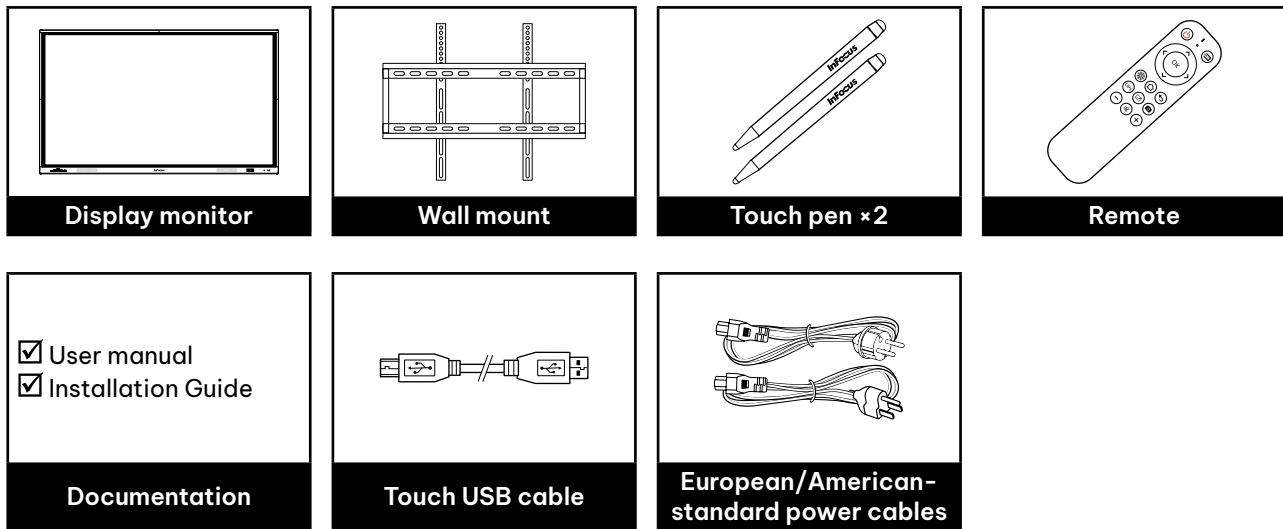
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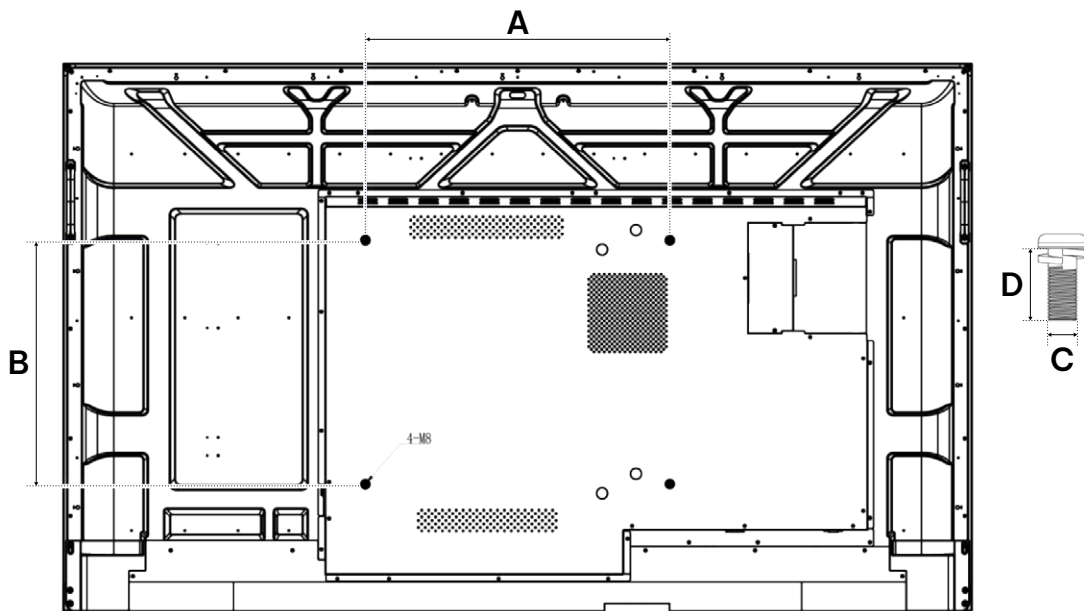
## 3. INTRODUCTION

### 3.1 PACKAGE CONTENTS



### 3.2 WALL MOUNT KIT SPECIFICATIONS (VESA)

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



| MODEL | VESA SPEC. (A X B) | STANDARD SCREW (C X D) | QUANTITY |
|-------|--------------------|------------------------|----------|
| 55"   | 400 x 400 mm       | M8 x 25 mm             | 4        |
| 65"   | 500 x 400 mm       | M8 x 25 mm             | 4        |
| 75"   | 600 x 400 mm       | M8 x 25 mm             | 4        |
| 86"   | 800 x 400 mm       | M8 x 25 mm             | 4        |

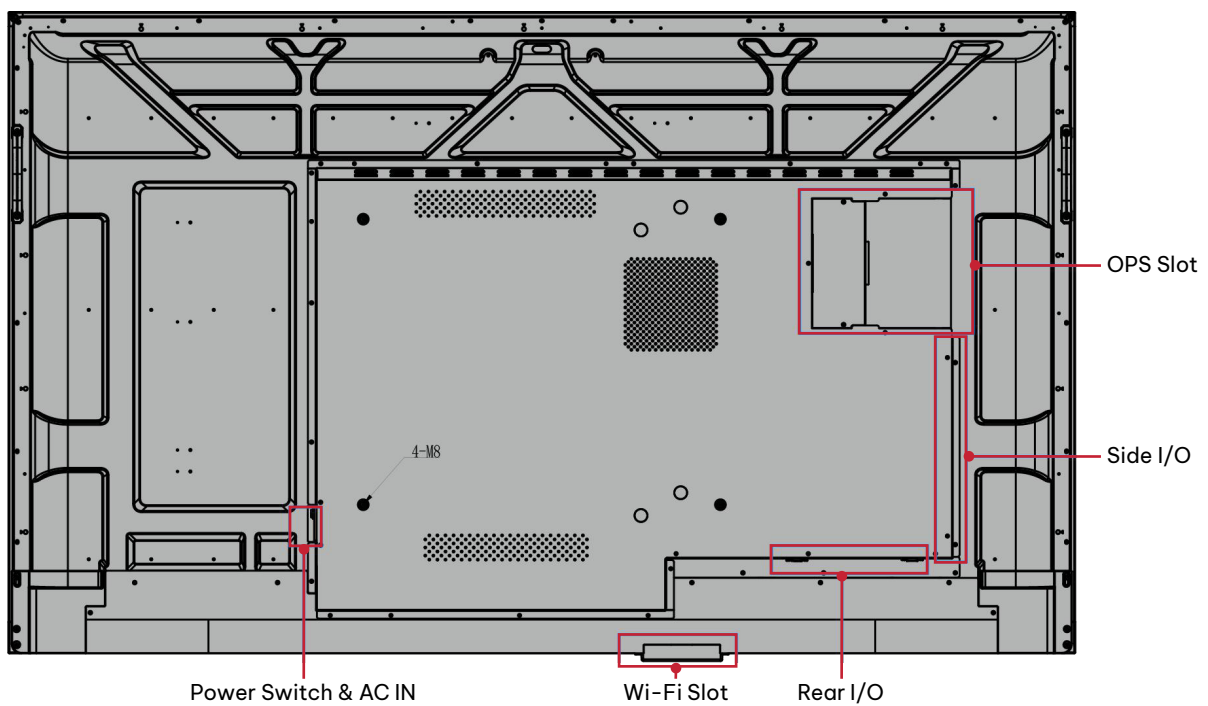
**Note** Do not use screws that are longer than the standard dimension, as they may cause damage to the inside of the display.

### 3.3 PRODUCT OVERVIEW

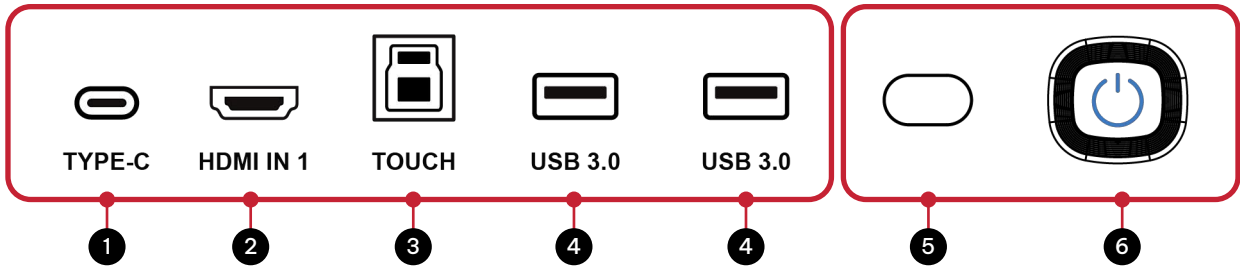
#### 3.3.1 FRONT VIEW



#### 3.3.2 REAR VIEW

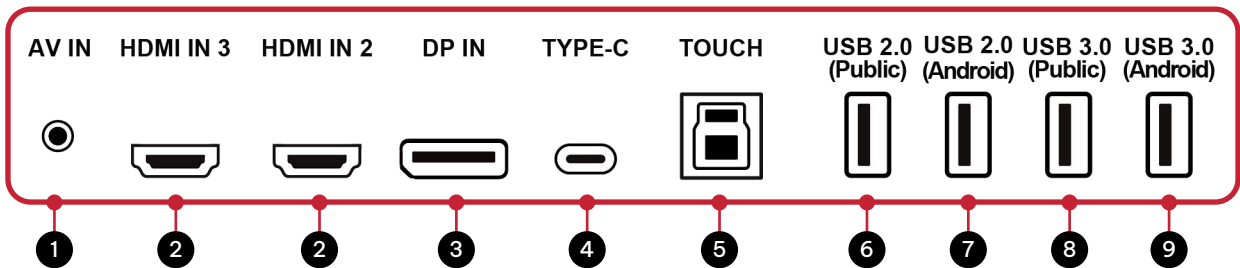


### 3.3.3 CONTROL PANEL AND FRONT I/O



| REFERENCE | ITEM      | DESCRIPTION   |
|-----------|-----------|---|
| 1         | TYPE-C    | USB Type C. <ul style="list-style-type: none"> <li>Full-function TYPE-C, support: DP 1.2IN + USB2.0 HOST + USB2.0 DEVICE + PD External charging (up to 5V*3A).</li> <li>Connect USB devices such as hard disks, keyboard, mouse, etc.</li> </ul>  |
| 2         | HDMI IN 1 | HDMI input. <ul style="list-style-type: none"> <li>Connect to a computer with HDMI output, set-top box, or other video device.</li> <li>Supports 4K display; HDMI 2.0.</li> </ul>   |
| 3         | TOUCH     | USB Type B. <ul style="list-style-type: none"> <li>USB 3.0 standard.</li> <li>Touch signal output to external computer.</li> <li>After connection (with an external computer), the device connected to the USB port can directly be used by the external computer.</li> <li>Pairs with the front HDMI port next to it.</li> </ul> |
| 4         | USB 3.0   | USB Type A. <ul style="list-style-type: none"> <li>USB 3.0 standard.</li> <li>Connect USB devices such as hard disks, keyboard, mouse, etc.</li> <li>Public USB is switched with follow source</li> </ul>   |
| 5         |           | Remote Control receiver.  |
| 6         |           | Power indicator light <ul style="list-style-type: none"> <li>Press to turn on the device</li> <li>Press to turn off/on the display backlight only</li> <li>Press and hold to turn off the device</li> </ul>   |

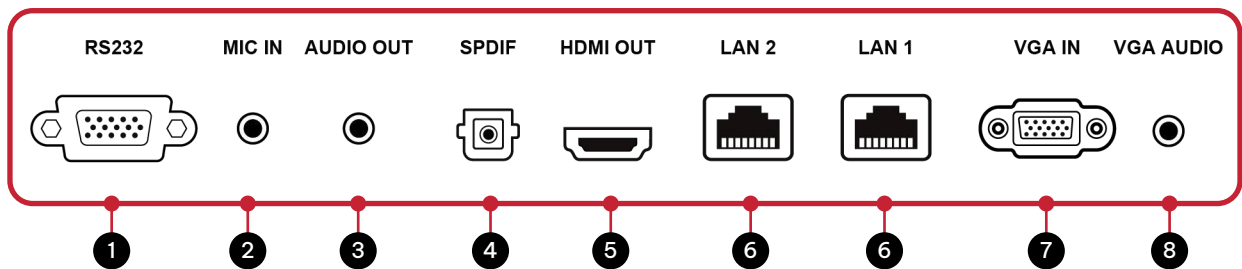
### 3.3.4 SIDE I/O PANEL



| REFERENCE | ITEM        | DESCRIPTION   |
|-----------|-------------|---|
| 1         | AV IN       | AV input. <ul style="list-style-type: none"> <li>To connect an video source device to input video the product</li> </ul>  |
| 2         | HDMI 2/3 IN | HDMI input. <ul style="list-style-type: none"> <li>Connect to a computer with HDMI output, set-top box, or other video device</li> <li>Supports 4K display; HDMI 2.0</li> </ul> |

| REFERENCE | ITEM             | DESCRIPTION  |
|-----------|------------------|--|
| 3         | DP IN            | Display input.<br><ul style="list-style-type: none"> <li>To input video and audio into the product.</li> <li>Supports 4K display; DP 1.2</li> </ul>  |
| 4         | TYPE-C           | USB Type C.<br><ul style="list-style-type: none"> <li>Full-function TYPE-C support: DP 1.2IN+USB2.0 HOST+ USB2.0 DEVICE + PD External charging (up to 5V*3A)</li> <li>Connect USB devices such as hard disks, keyboard, mouse, etc.</li> </ul>   |
| 5         | TOUCH            | USB Type B.<br><ul style="list-style-type: none"> <li>USB 3.0 standard.</li> <li>Touch signal output to external computer.</li> <li>After connection (with an external computer), the device connected to the USB port can directly be used by the external computer.</li> <li>Pairs with the front HDMI port next to it.</li> </ul> |
| 6         | USB2.0 (Public)  | USB Type A.<br><ul style="list-style-type: none"> <li>Public USB 2.0</li> <li>Public USB2.0 is switched with follow source</li> </ul>  |
| 7         | USB2.0 (Android) | USB Type A.<br><ul style="list-style-type: none"> <li>USB 2.0 standard.</li> <li>Connect USB devices such as hard disks, keyboard, mouse, etc.</li> </ul>  |
| 8         | USB3.0 (Public)  | USB Type A.<br><ul style="list-style-type: none"> <li>Public USB 3.0</li> <li>Public USB 3.0 is switched with follow source</li> </ul>   |
| 9         | USB3.0 (Android) | USB Type A.<br><ul style="list-style-type: none"> <li>USB 3.0 standard.</li> <li>Connect USB devices such as hard disks, keyboard, mouse, etc.</li> </ul>  |

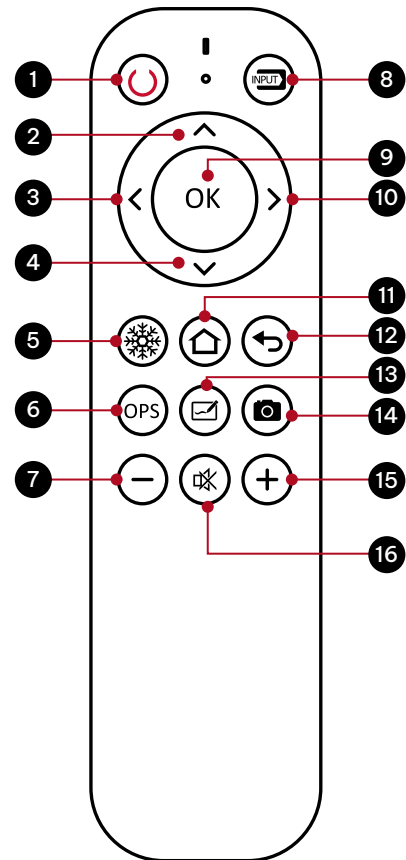
### 3.3.5 REAR I/O PANEL



| REFERENCE | ITEM          | DESCRIPTION   |
|-----------|---------------|---|
| 1         | RS-232        | Serial interface; used for mutual transfer of data between devices                                      |
| 2         | MIC IN        | To connect an external microphone to input audio into the product                                       |
| 3         | AUDIO OUT     | Audio output to an external speaker/headset   |
| 4         | SPDIF         | Multichannel sound via optical signals.   |
| 5         | HDMI OUT      | To connect the supplied HDMI cable to output video and audio of the product                             |
| 6         | LAN 2 / LAN 1 | To connect to the network using a LAN cable   |
| 7         | VGA IN        | To connect a video source device using a VGA cable to input video into the product                      |
| 8         | VGA AUDIO     | To connect an audio output device such as a headphone or active speaker to output audio of the product. |

## 3.3.6 REMOTE CONTROL

| REFERENCE | DESCRIPTION              |
|-----------|--------------------------|
| 1         | Power on/off             |
| 2         | Scroll Up                |
| 3         | Scroll Left              |
| 4         | Scroll Down              |
| 5         | Freeze Screen            |
| 6         | OPS button               |
| 7         | Decrease volume          |
| 8         | Input source selection   |
| 9         | Confirm selection/ state |
| 10        | Scroll Right             |
| 11        | Home Screen              |
| 12        | Return button            |
| 13        | Whiteboard button        |
| 14        | Screenshot button        |
| 15        | Increase volume          |
| 16        | Mute                     |

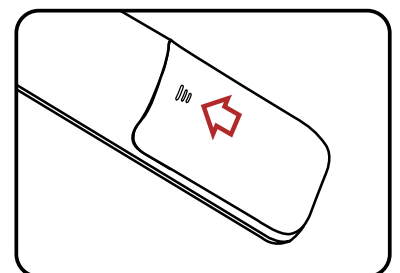
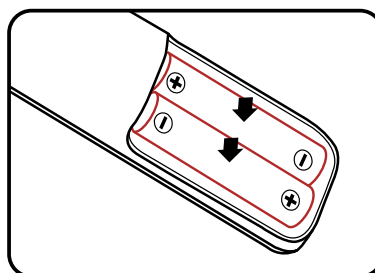
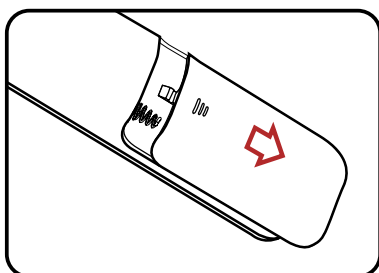


### Inserting Remote Control Batteries

The remote requires two AAA batteries (not included).

To insert batteries into the remote control:

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



### WARNING

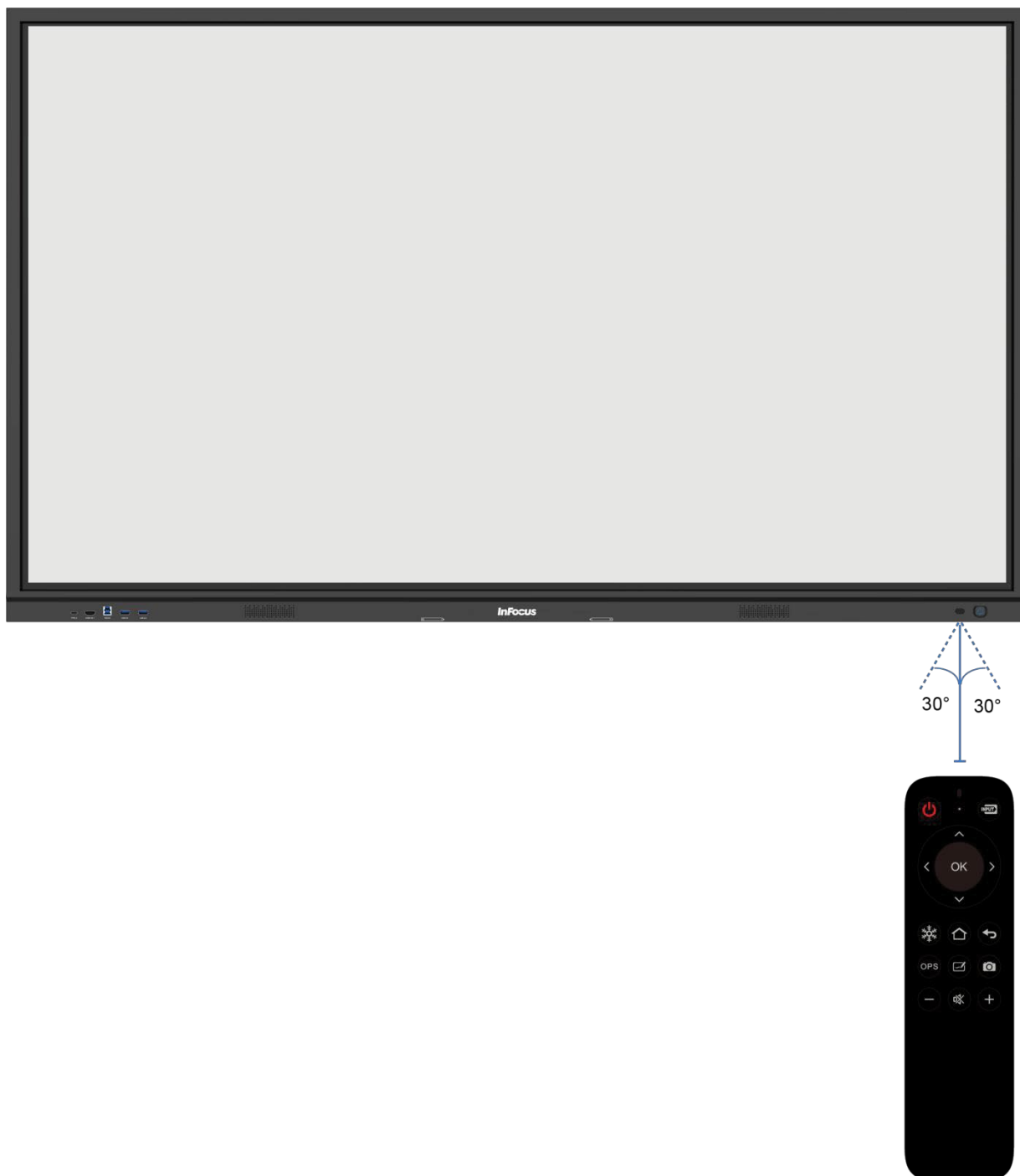
There is a risk of explosion if batteries are replaced with the incorrect type.

### Note

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

**Remote Control Receiver Range**

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

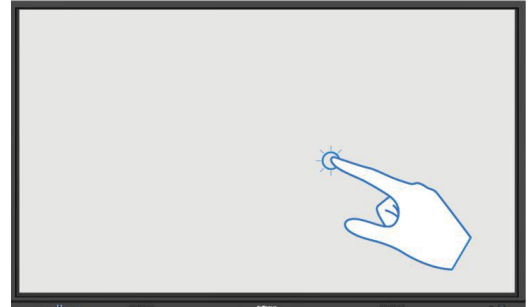


### 3.3.7 USING GESTURES

Touch gestures allow the user to use pre-determined commands without using a keyboard or mouse. Using gestures on the device, 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 device to select/deselect options or objects. This is like a single, standard left mouse click.



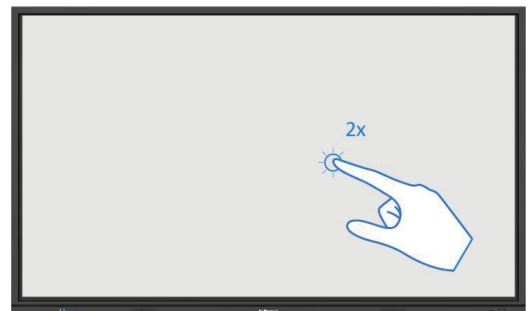
#### Display Menu Options (Right-Clicking)

Press and hold the device 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 device. This is like a double, standard left mouse click.



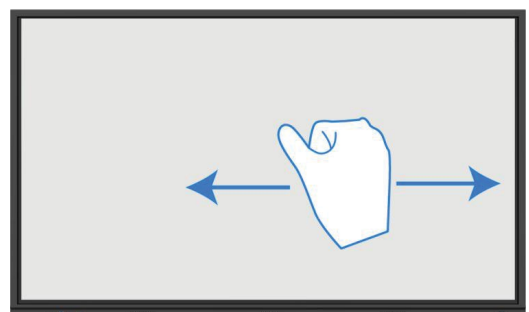
#### Moving an Object

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



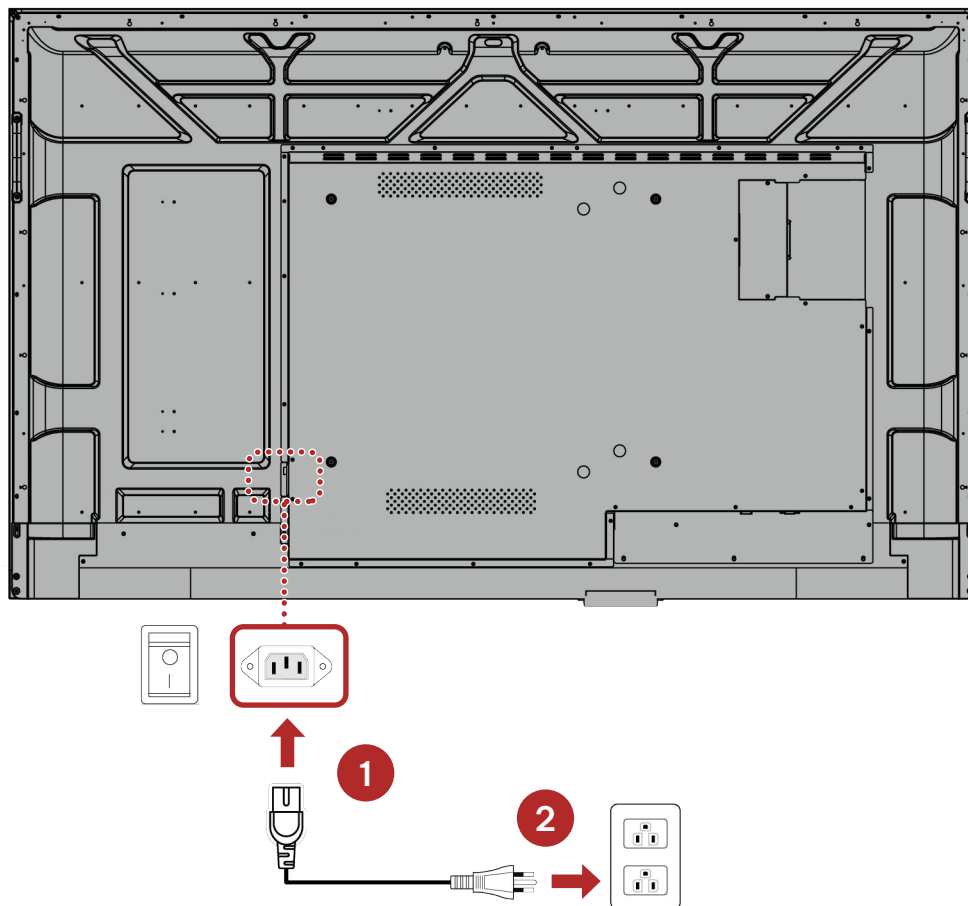
#### Erasing Digital Ink

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



## 4. MAKING CONNECTIONS

### 4.1 CONNECTING TO POWER

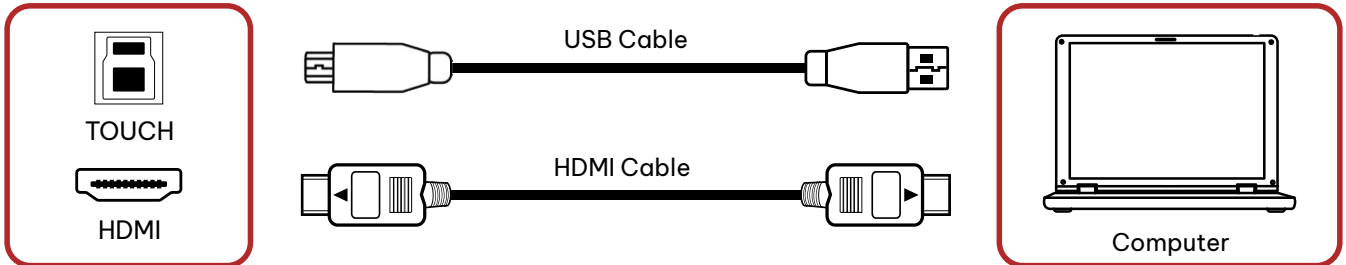


1. Connect the power cord to the AC IN jack at the rear of the display.
2. Plug the power cord plug into a power outlet.

## 4.2 CONNECTING TO EXTERNAL DEVICES AND TOUCH CONNECTION

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

### 4.2.1 HDMI CONNECTION

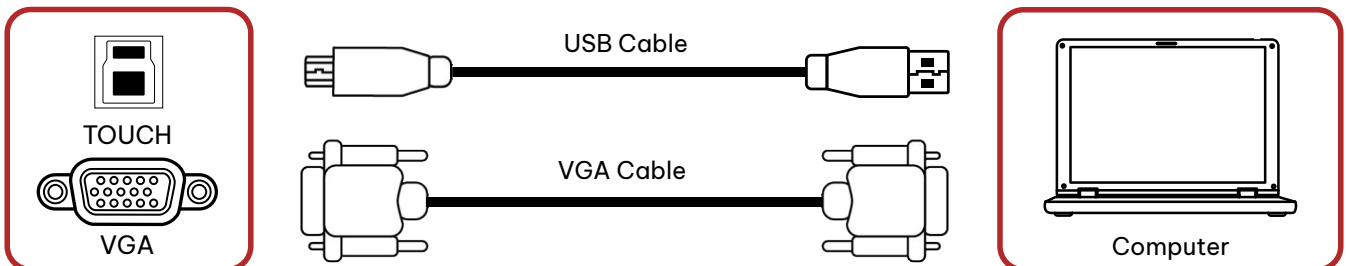


To connect via HDMI:

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

**Note** The front I/O **TOUCH** port is for the front I/O **HDMI 1** port.  
The side I/O **TOUCH** port is for the **HDMI 2/HDMI 3**, and **VGA** ports.

### 4.2.2 VGA CONNECTION



To connect via VGA:

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

**Note** The front I/O **TOUCH** port is for the front I/O **HDMI 1** port.  
The side I/O **TOUCH** port is for the **HDMI 2/HDMI 3**, and **VGA** ports.

### 4.3 RS-232 CONNECTION

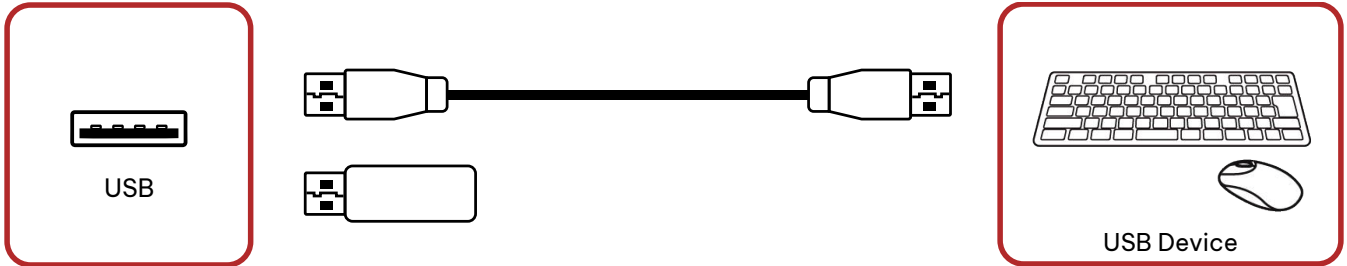


When you use a RS-232 serial cable to connect the display to an external computer or control system, certain functions can be controlled remotely such as: power on and off, volume adjustment, input select, brightness, and more.

## 4.4 USB CONNECTION

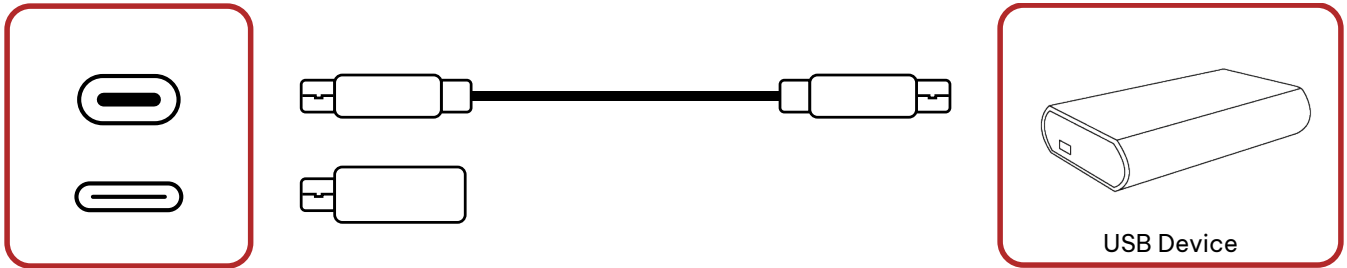
Just like any PC, it is easy to connect various USB devices and other peripherals to the display.

### 4.4.1 USB TYPE A



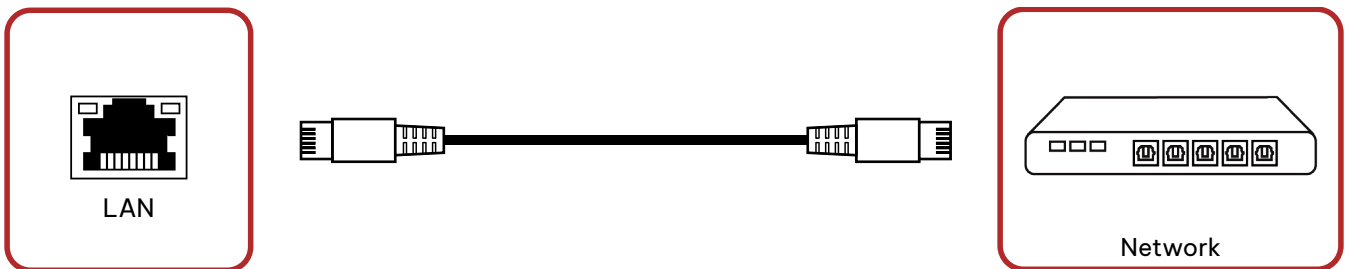
Plug the USB device or storage drive into a USB Type A port of the display.

### 4.4.2 USB TYPE C



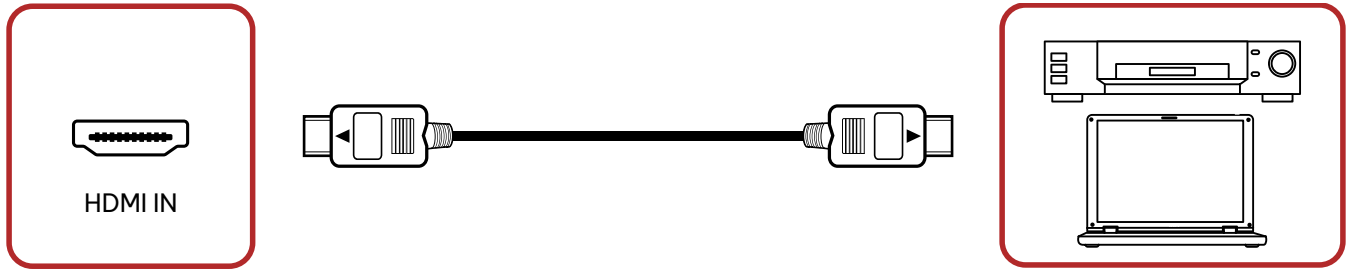
Plug the USB device or storage drive into the USB Type C port of the display.

## 4.5 NETWORK CONNECTION



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

### 4.6 MEDIA CONNECTION



To connect to a media source:

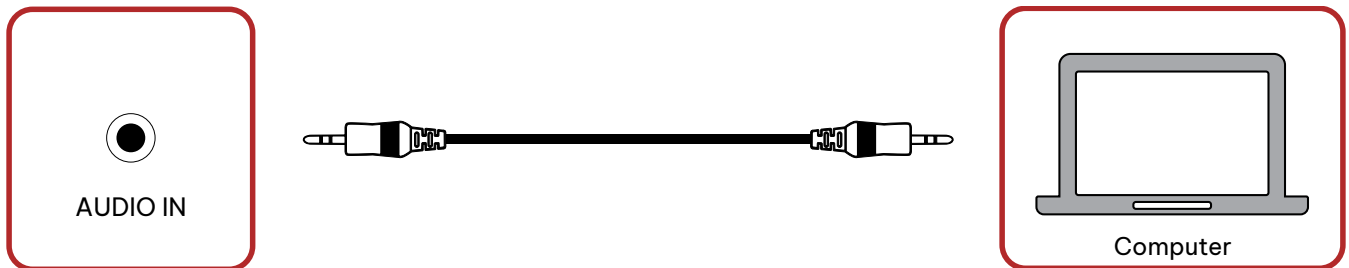
1. Connect an **HDMI** cable to a HDMI port on the display and peripheral device.
2. Press the **INPUT** button on the remote control and switch to the HDMI input source.

### 4.7 AUDIO CONNECTION

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

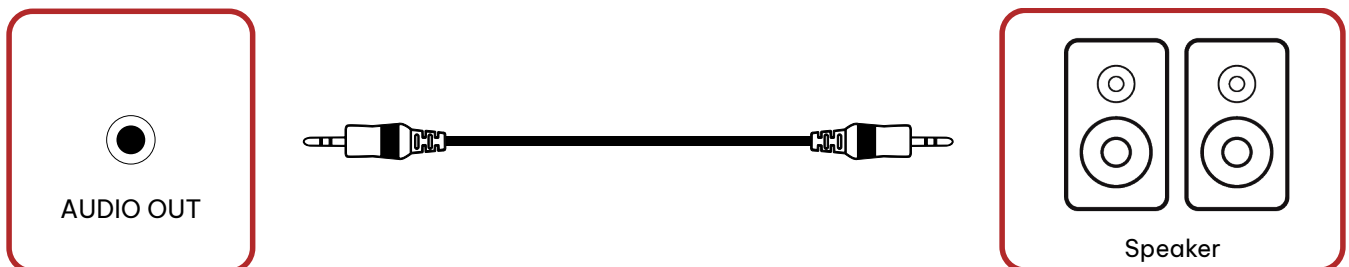
#### 4.7.1 AUDIO IN

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



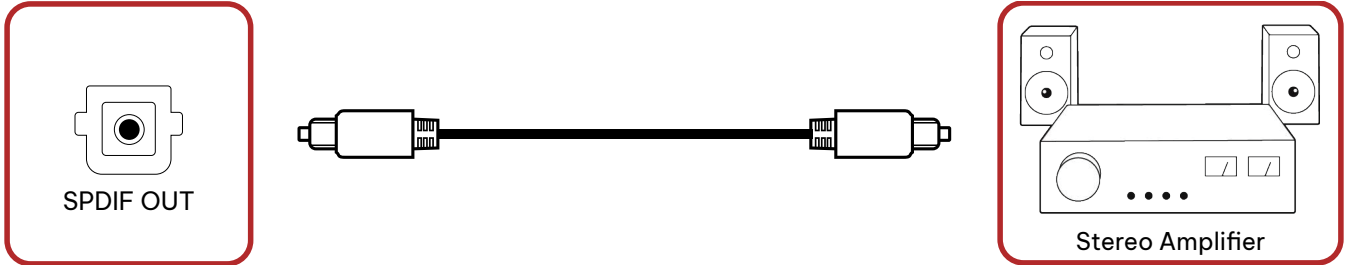
#### 4.7.2 AUDIO OUT

To play audio from the display through an external speaker, connect one end of an audio cable to the external speaker, and the other end to the display's **Audio Out** port.

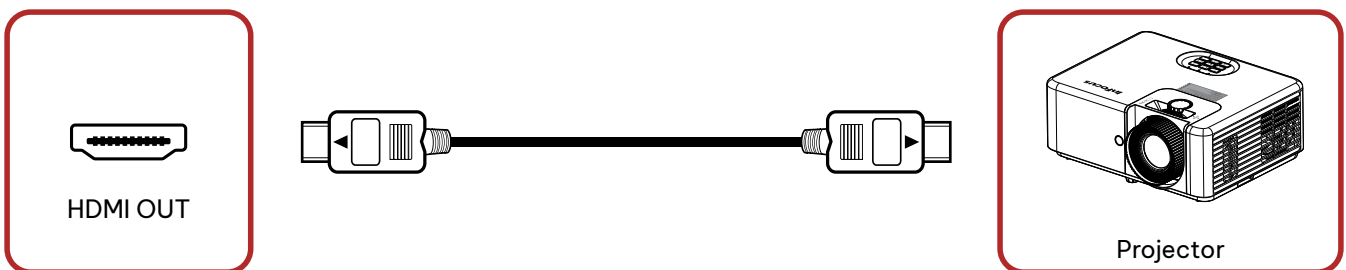


### 4.7.3 SPDIF CONNECTION

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



### 4.8 VIDEO OUTPUT CONNECTION (HDMI OUT)



To output video via a display device:

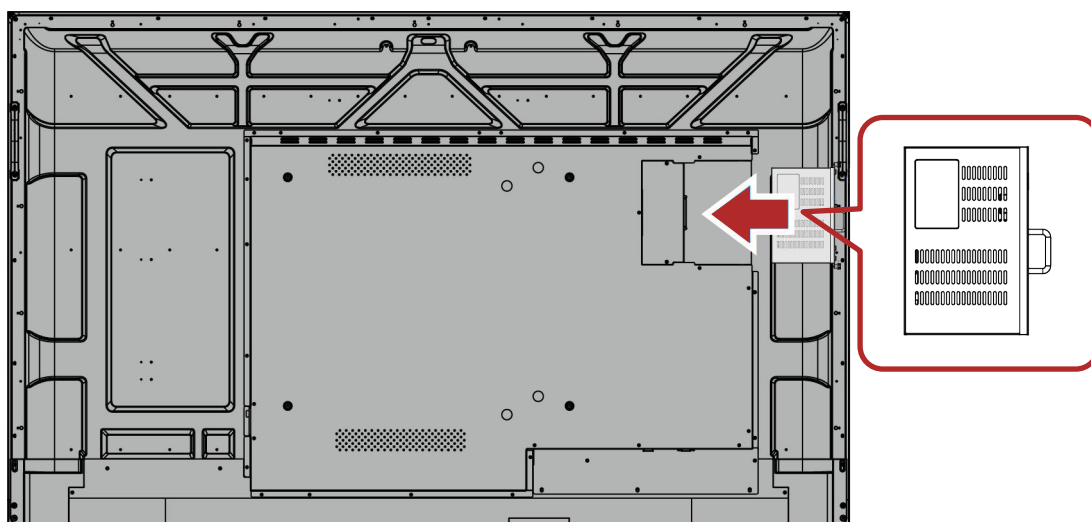
1. Connect an HDMI cable to the HDMI IN port of your display device, and the other end to the HDMI OUT port of the display.
2. Press the INPUT button on the remote control and switch to the HDMI IN input source.

### 4.9 OPTIONAL CONNECTIONS

The display comes with an OPS Slot for an optional add-on such as a slot-in PC (e.g., VPC-25-O).

#### 4.9.1 SLOT-IN PC (OPS SLOT) INSTALLATION

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

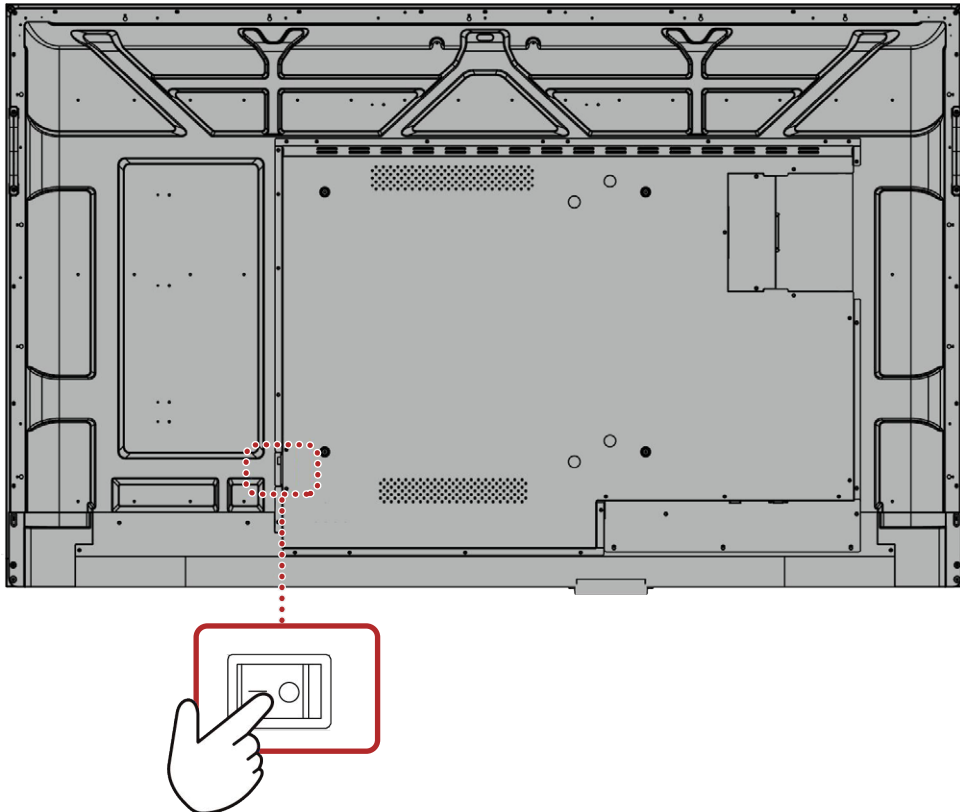


2. Secure the slot-in PC to the display.


### 5. USING THE DISPLAY

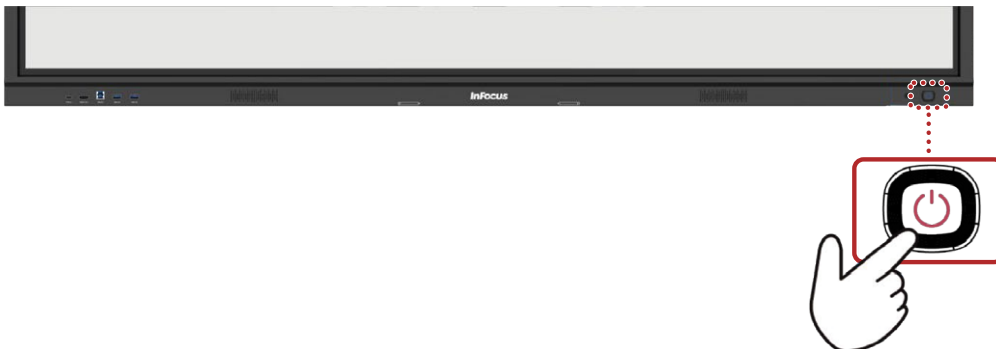
#### 5.1 TURNING ON/OFF THE DISPLAY


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



**Note** The Power Switch is located at the rear of the display.

2. Press the  Power button to turn on the display.



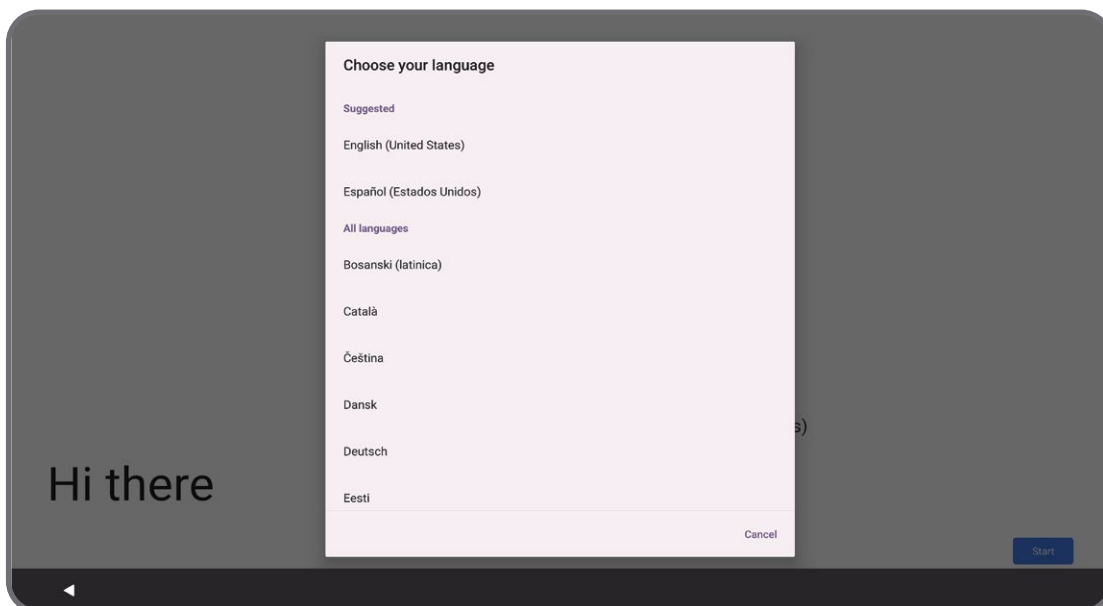
3. To turn the display off, press and hold the  Power button.

## 5.2 INITIAL LAUNCH SETUP

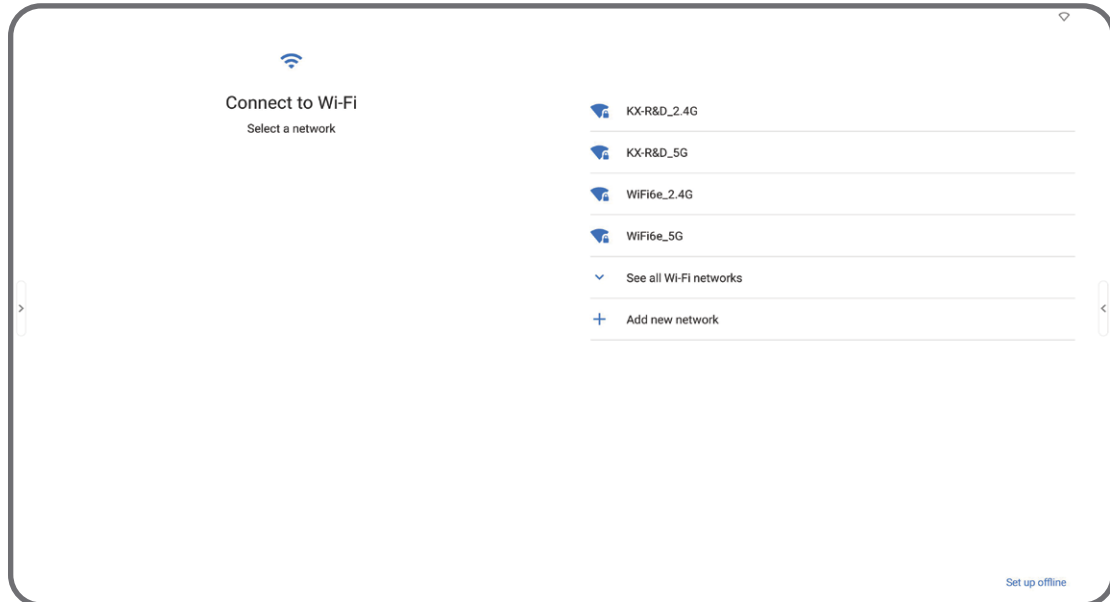
When you first turn on your device, an initial setup wizard will launch.



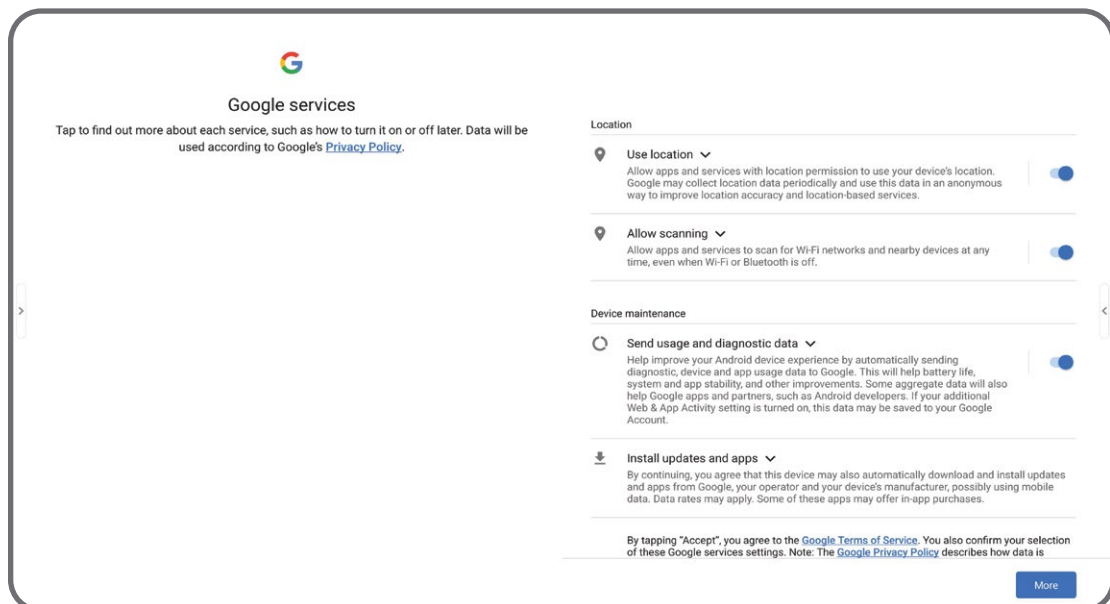
1. Choose your preferred Language.



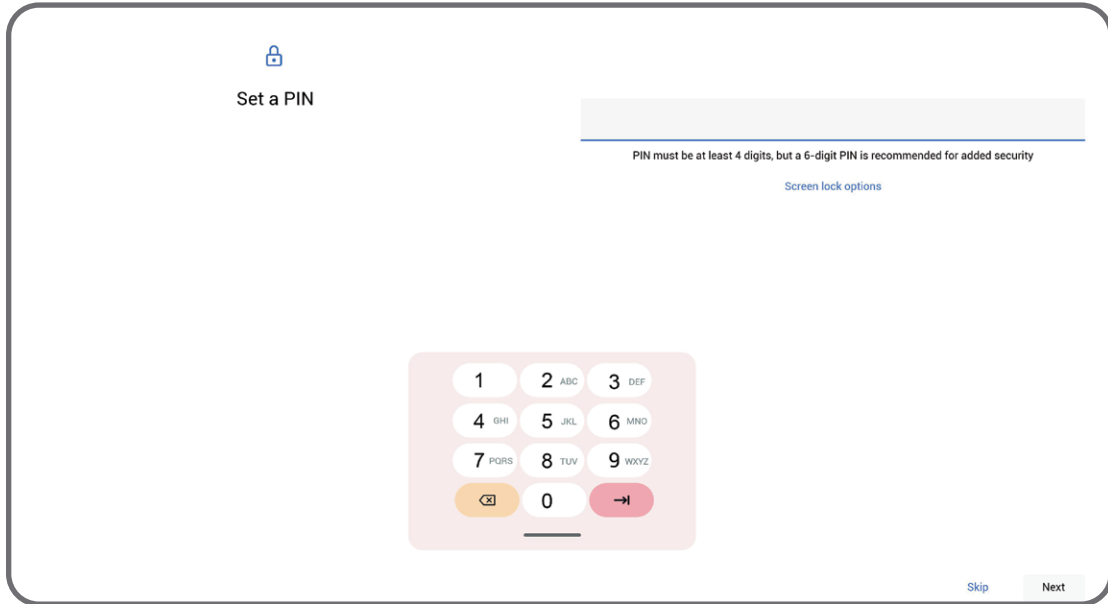
### 2. Setup and connect to a network.



### 3. Accept or decline the Google services.

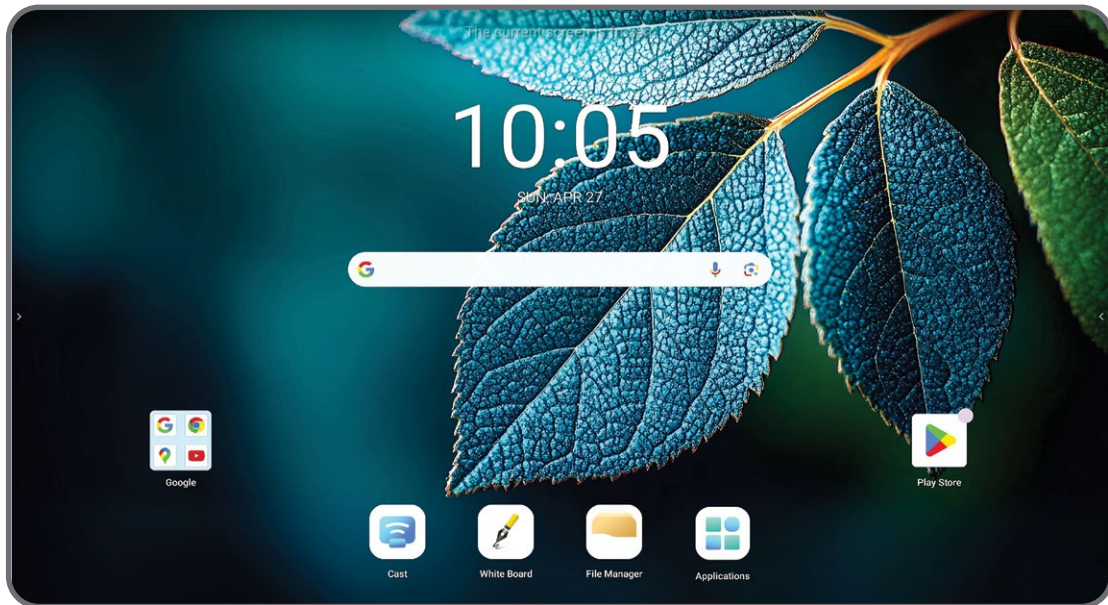




- Set a PIN to setup a Screen lock, or tap Skip to continue without setting one.





### 5.3 HOME SCREEN

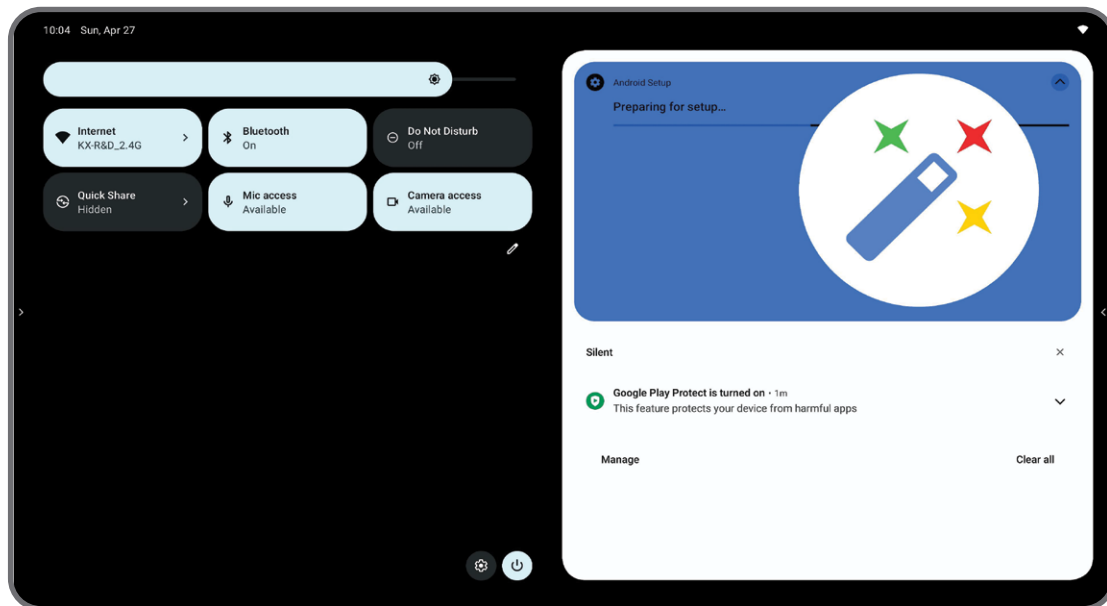
After the display is turned on and setup the Home Screen will load.

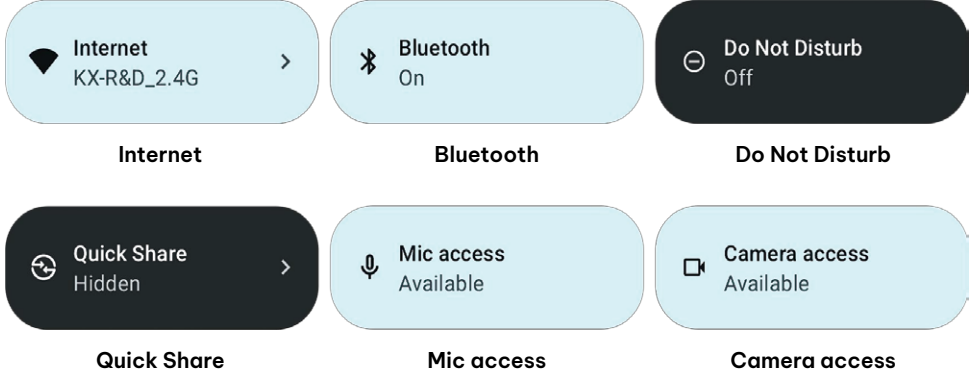
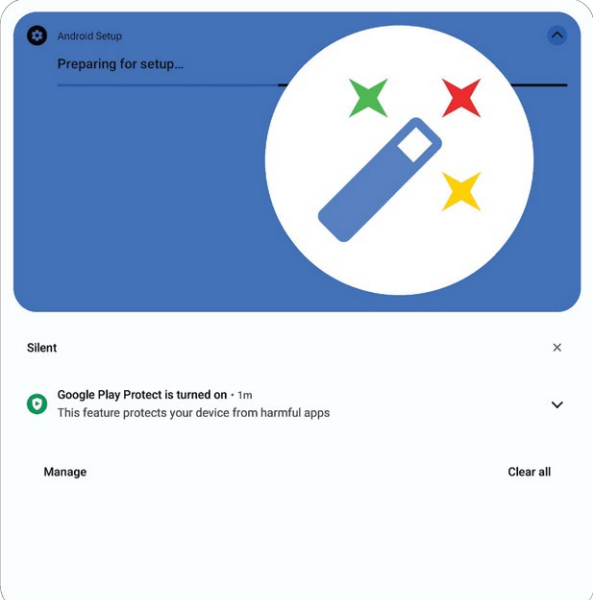


| ITEM  | DESCRIPTION                             |
|---|---|
| <br><b>Cast</b>        | Take you to EShare application.         |
| <br><b>White Board</b> | Take you to the whiteboard application. |

| ITEM   | DESCRIPTION                      |
|--|----------------------------------|
| <br><b>File Manager</b> | Take you to the file Explorer.   |
| <br><b>App list</b>     | View all installed applications. |

## 5.4 CONTROL AND NOTIFICATION PANEL



| ITEM                             | DESCRIPTION   |
|----------------------------------|---|
| <p><b>Control Panel</b></p>      |  <p>Internet      Bluetooth      Do Not Disturb</p> <p>Quick Share      Mic access      Camera access</p> |
| <p><b>Notification Panel</b></p> | <p>Receive and manage system and application notifications.</p>   |







### 5.5 TOOLBAR


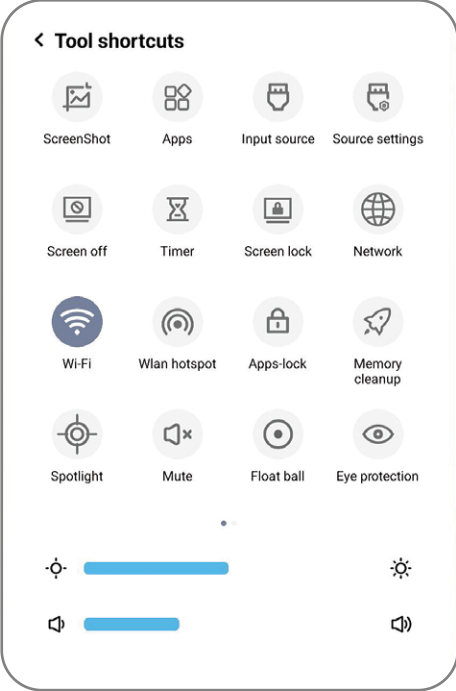
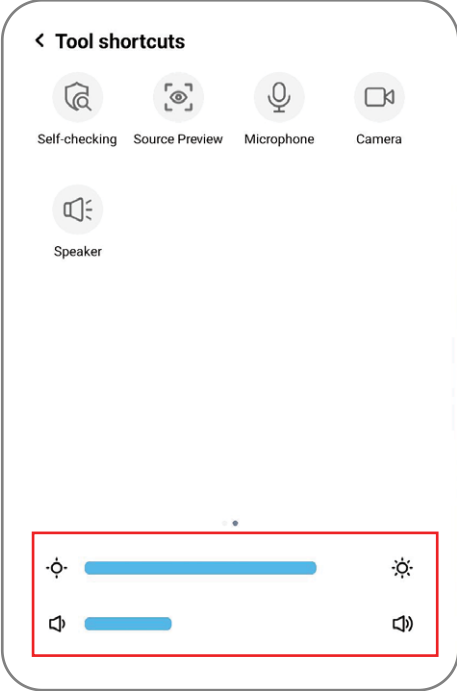
The Toolbar is where your applications and tools can be found. Trigger icons are on the edge of the launcher for quick access.



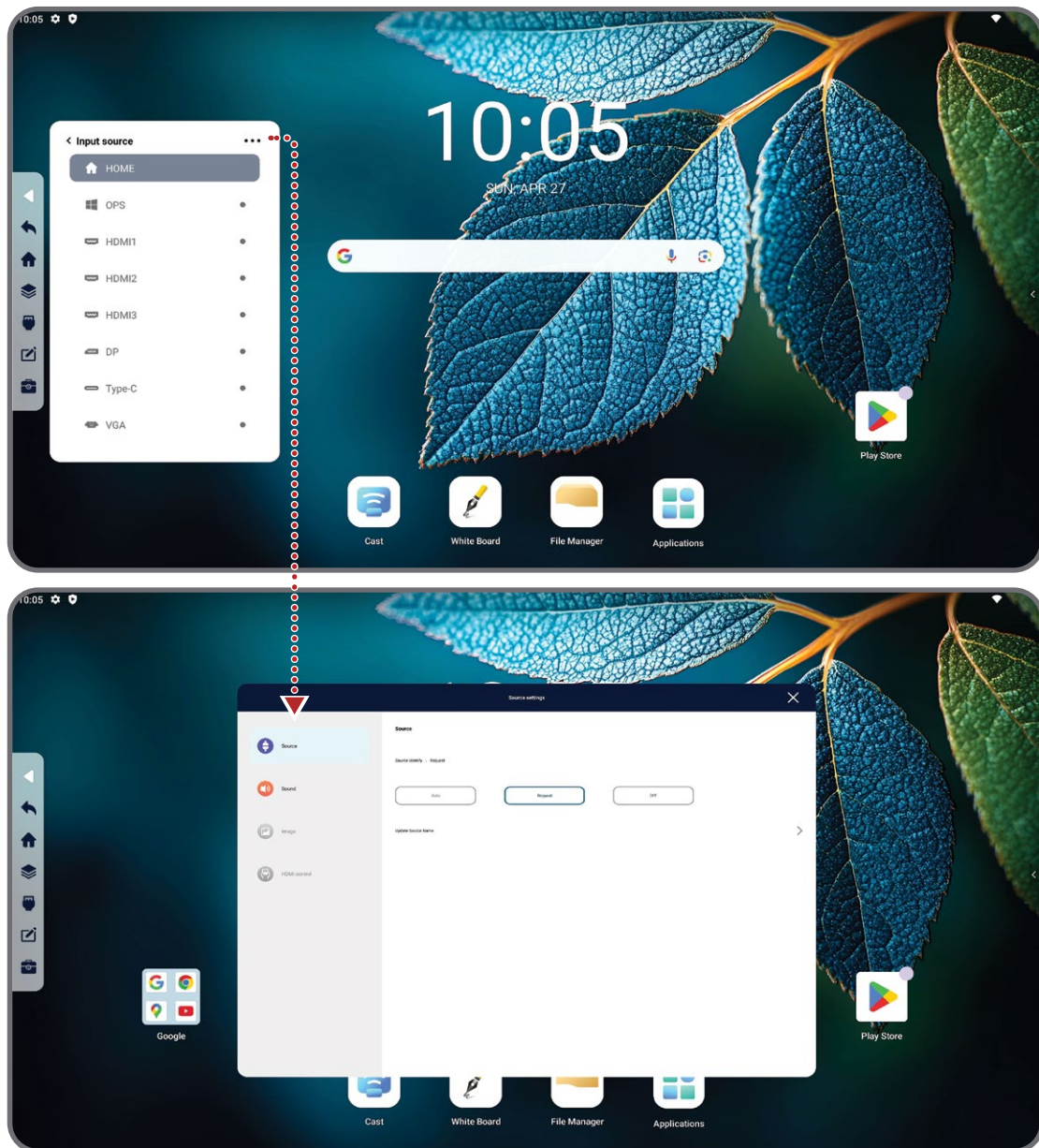
To launch an application or tool:

1. Select a Toolbar trigger icon.
2. Select the application or tool icon.



| ITEM  | DESCRIPTION                                       |
|---|---|
| <br><b>Fold</b>        | Click on the icon to hide the toolbar.            |
| <br><b>Return</b>      | Return to the previous operation screen.          |
| <br><b>Home</b>        | Return to the Home Screen of the display.         |
| <br><b>Recent task</b> | Display all applications that are currently open. |
| <br><b>Source</b>      | Select and change the input signal.               |
| <br><b>Annotation</b>  | Annotate the overlay of any input source.         |

| ITEM   | DESCRIPTION   |
|--|---|
|  <p><b>Tool shortcuts</b></p> | <p>Quickly view and adjust various frequently used tools, settings, and applications.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="368 367 826 1055"> <p><b>&lt; Tool shortcuts</b></p>  <p>ScreenShot   Apps   Input source   Source settings</p> <p>Screen off   Timer   Screen lock   Network</p> <p>Wi-Fi   Wlan hotspot   Apps-lock   Memory cleanup</p> <p>Spotlight   Mute   Float ball   Eye protection</p> <p>Brightness and Volume sliders</p> </div> <div data-bbox="852 367 1310 1055"> <p><b>&lt; Tool shortcuts</b></p>  <p>Self-checking   Source Preview   Microphone   Camera</p> <p>Speaker</p> <p>Brightness and Volume sliders (highlighted with red box)</p> </div> </div> <p><b>Note</b> Adjust the brightness of the screen and volume here.</p> |

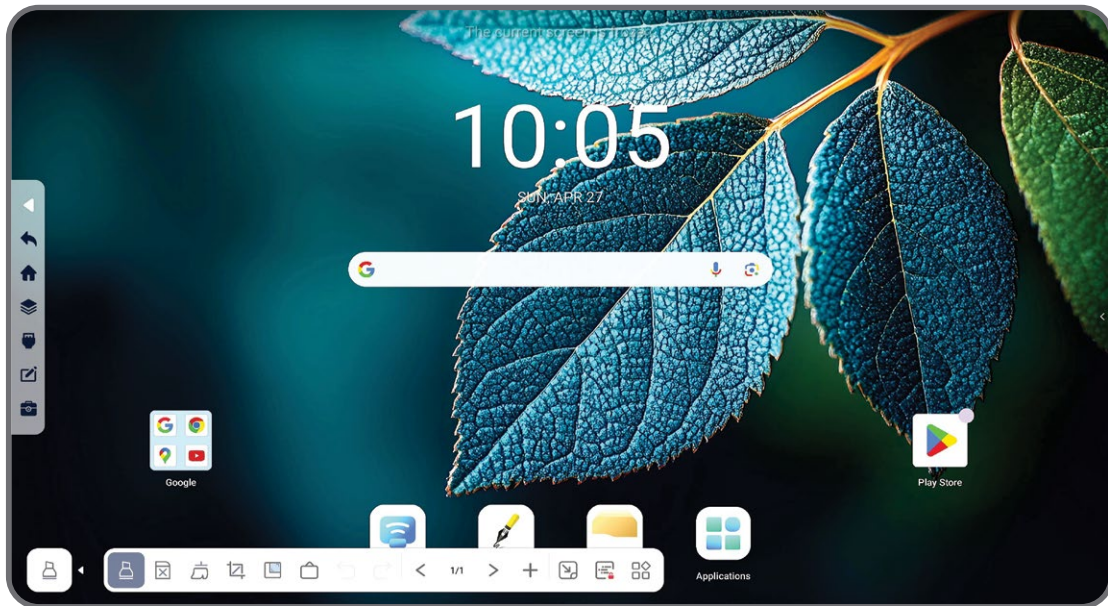
**5.6 SOURCE**














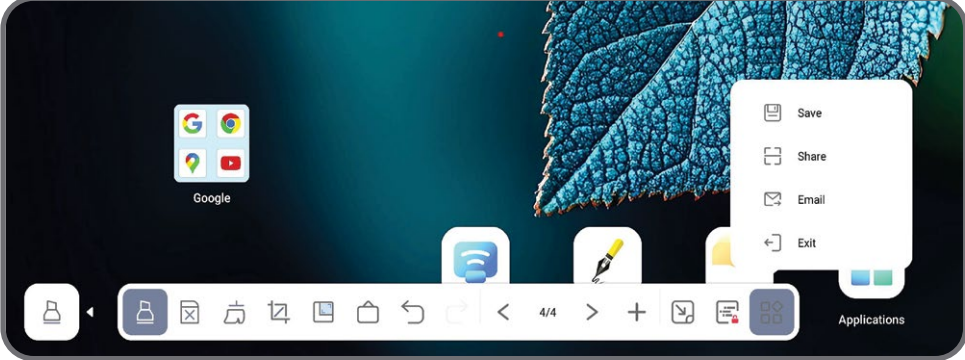




To select an input source:

1. Press **INPUT** on the remote control or touch the **Input Source** icon (  ) of the Toolbar to display the **Input Settings** menu.
2. Press **</>/^/∨** on the remote control to select the input source you want.  
**Note** The PC source will only be visible when a slot-in computer is installed.
3. Press **ENTER** on the remote control, or touch the input source.
4. Press **BACK** (  ) on the remote control, or touch a blank area outside of the menu to exit.

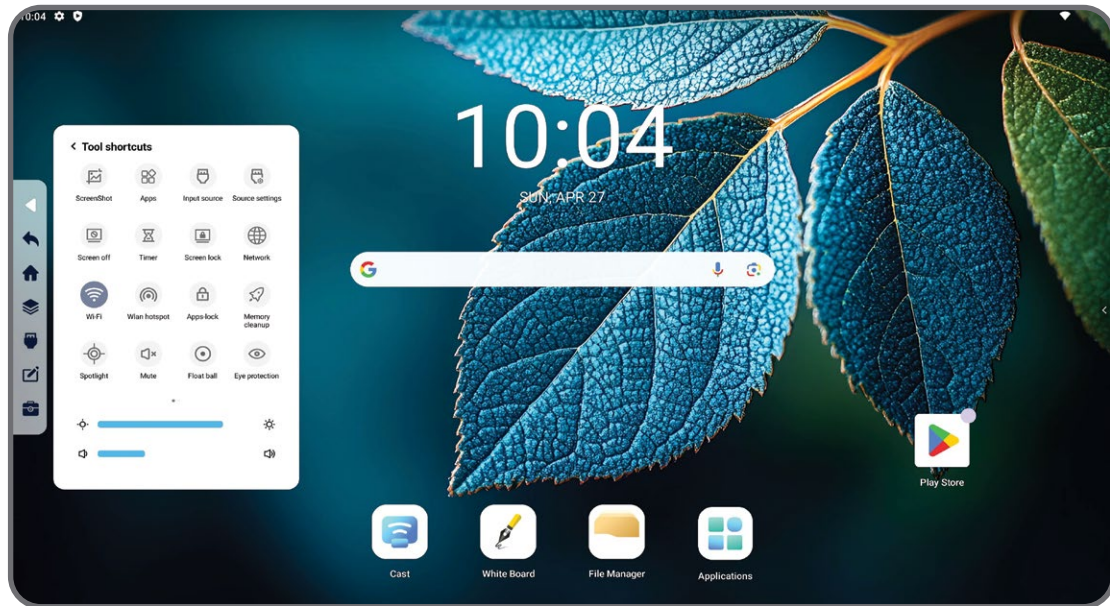
## 5.7. ANNOTATION



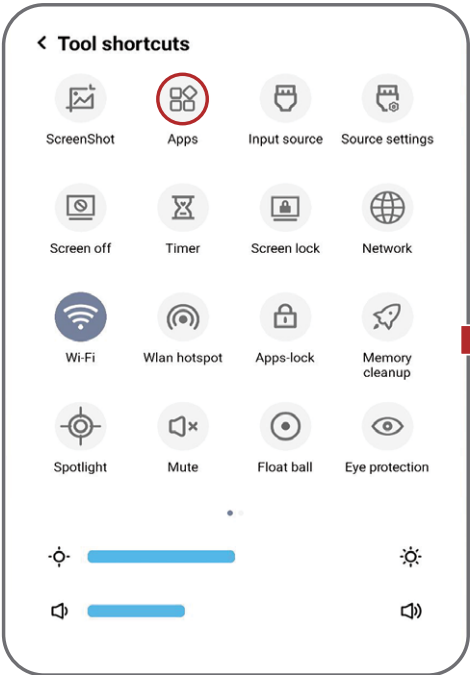
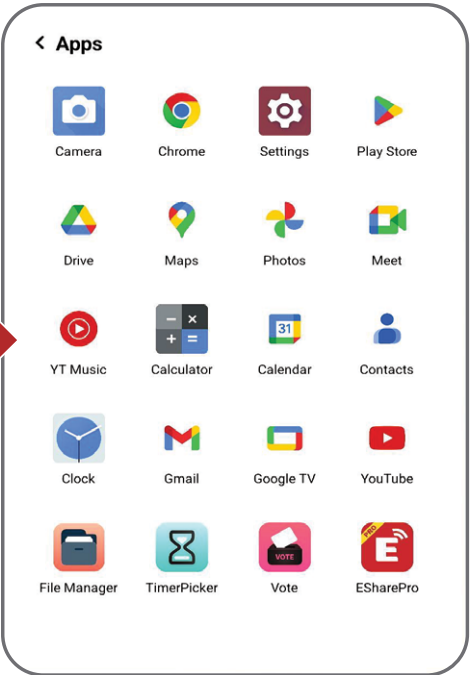






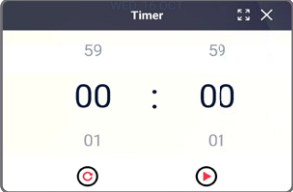







| ITEM  | DESCRIPTION   |
|---|---|
| <br><b>Pen</b>         | Annotate on screen.   |
| <br><b>Eraser</b>      | Remove the annotations you want to eraser.  |
| <br><b>Clear all</b>   | Remove any annotations.   |
| <br><b>Screenshot</b>  | Take a screenshot of an image.  |
| <br><b>AI Function</b> | You're able to not only take a screenshot , but also recognize the text in it. In addition, you can search it on the browser. |
| <br><b>Whiteboard</b>  | Switch to Whiteboard application.   |
| <br><b>Redo</b>        | Recover last operation step.  |


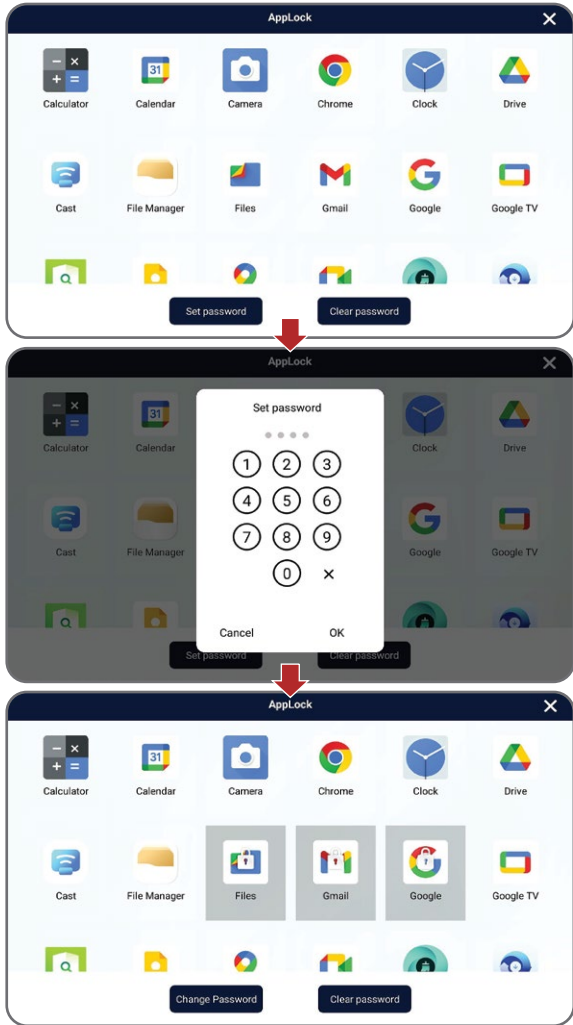


| ITEM   | DESCRIPTION   |
|--|---|
|  <p><b>Undo</b></p>     | <p>Return to last operation.</p>  |
|  <p><b>Minimize</b></p> | <p>Minimize Annotation.</p>   |
|  <p><b>Froze</b></p>    | <p>Froze current background or not.</p>   |
|  <p><b>Menu</b></p>   | <p>Open the menu of annotation.</p>  <ul style="list-style-type: none"> <li data-bbox="379 1167 1436 1256">  <p>Document types collection, save paths (Local/external Storage), collect pages; USB drive support FAT32 format; Save record won't erase current content, edit can be continued .</p> </li> <li data-bbox="379 1290 1422 1379">  <p>Scan the QR code can get content, Picture to mobile device; LAN and WAN are available.</p> </li> <li data-bbox="379 1413 740 1503">  <p>Send content by email.</p> </li> <li data-bbox="379 1536 644 1626">  <p>Close floater.</p> </li> </ul> |


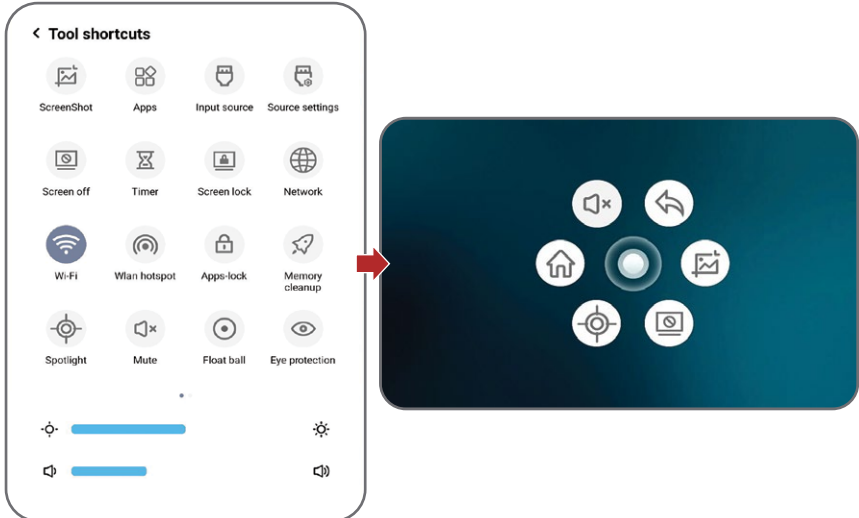




## 5.8 TOOL SHORTCUTS



| ITEM   | DESCRIPTION   |
|--|---|
|  <p><b>Screenshot</b></p>   | <p>Take a screenshot of the current screen and resize.</p>  |
|  <p><b>Apps</b></p>         | <p>View and open installed applications.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="432 1294 903 1966"> <p><b>&lt; Tool shortcuts</b></p>  </div> <div style="font-size: 2em; color: red; margin: 0 10px;">→</div> <div data-bbox="935 1294 1406 1966"> <p><b>&lt; Apps</b></p>  </div> </div> |
|  <p><b>Input source</b></p> | <p>Select and change the input signal.</p>  |

| ITEM   | DESCRIPTION   |
|--|---|
| <br><b>Source settings</b>  | Display the Input Settings menu.  |
| <br><b>Screen off</b>       | Enable or disable the screen backlight.   |
| <br><b>Timer</b>            | Countdown function.<br> Select the start icon (▶) to start the stopwatch.<br>Select the reset icon (⌂) to reset the time to zero.<br>Select the expand icon (⌵) to enter full screen mode.<br>Select the close icon (✕) to exit the application. |
| <br><b>Screen lock</b>      | Lock the display's screen for added security.   |
| <br><b>Network</b>        | Enable or disable LAN connection.   |
| <br><b>Wi-Fi</b>          | Enable or disable Wireless network connection.  |
| <br><b>Wlan hotspot</b>   | Enable or disable the hotspot function.   |
| <br><b>Memory cleanup</b> | Clean memory.   |
| <br><b>Spotlight</b>      | Concentrates the screen backlight in a designated area and the rest is dark. You can adjust the size of the spot area, or adjust the darkness of the rest of the area.  |
| <br><b>Mute</b>           | Turn off or turn on the sound.  |

| ITEM   | DESCRIPTION  |
|--|--|
|  <p><b>Apps-lock</b></p>        | <p>Enable or disable the Apps Lock function.</p>  <ul style="list-style-type: none"> <li>• Select the Apps-lock icon to open the window of Apps-lock.</li> <li>• You must input a 4-digit password before open this window.</li> <li>• Select the app that you want to lock. Then the app will be locked.</li> </ul> |
|  <p><b>Camera</b></p>         | <p>Turn on the camera and make sure it is connected.</p>   |
|  <p><b>Source Preview</b></p> | <p>Open the source window, select the signal source for preview</p>  |

| ITEM  | DESCRIPTION   |
|---|---|
|  <p><b>Float ball</b></p>      | <p>The float ball acts as a quick access method to select features and applications.</p>  |
|  <p><b>Eye protection</b></p>  | <p>Reduce the blue light emission of the screen.</p>  |
|  <p><b>Self-checking</b></p> | <p>Check whether the device hardware is working properly.</p>   |
|  <p><b>Microphone</b></p>    | <p>Microphone function.</p>   |
|  <p><b>Speaker</b></p>       | <p>Speaker function.</p>  |

## 5.9 LOW BLUE LIGHT FILTER AND EYE HEALTH

The low blue light filter blocks high-energy blue light for a more comfortable viewing experience.

### Calculating Breaks

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

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

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

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

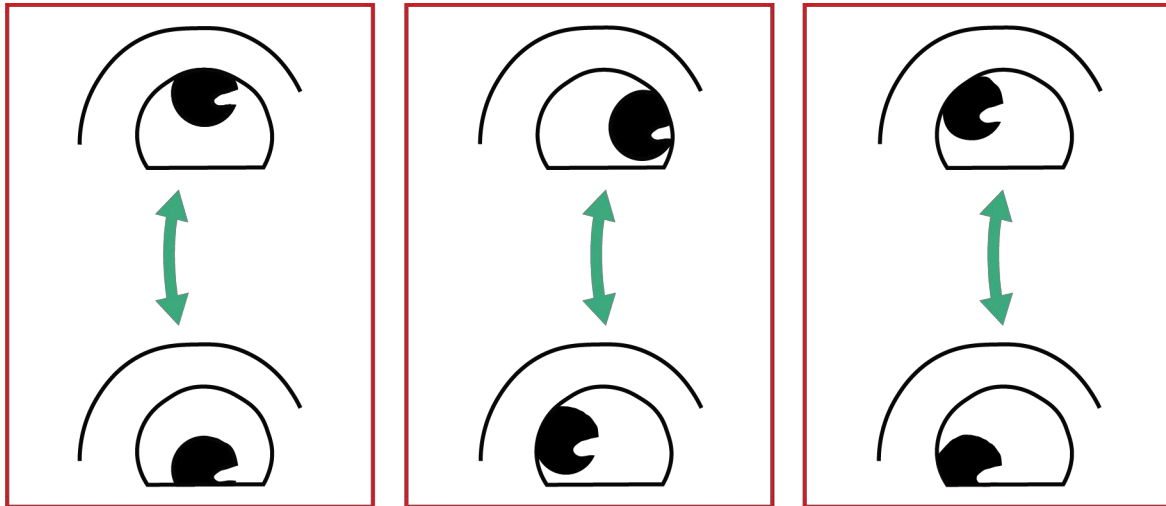
### Looking at Distant Objects

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

## 5.10 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.



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.

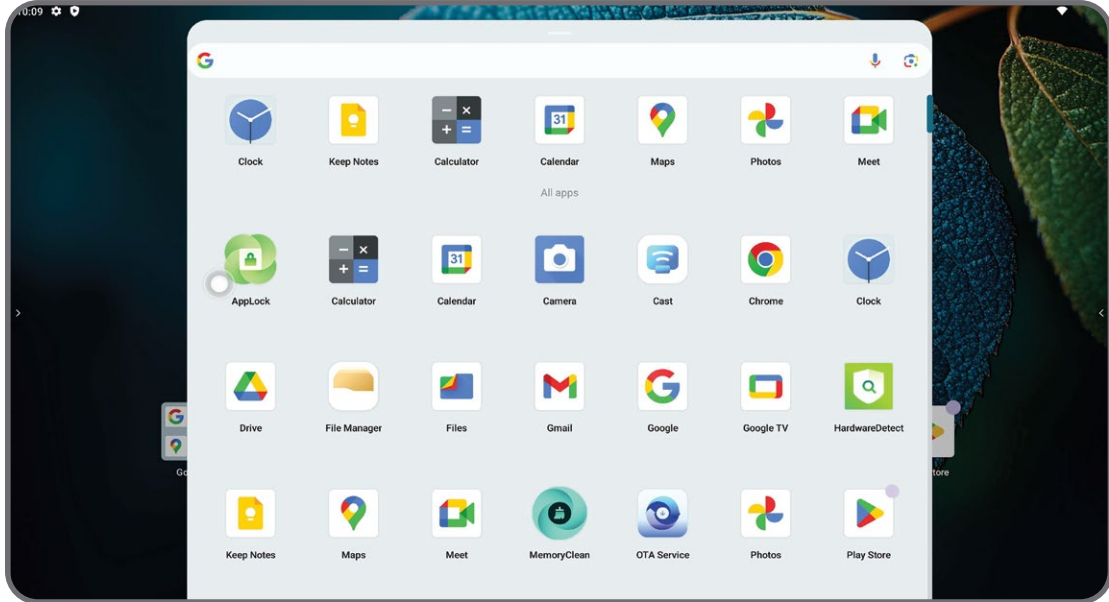
3. Move the eyes to look at objects at the right upper direction and then right lower direction. Repeat for the left upper and left lower directions.

### 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.






### 5.11 APPLICATIONS

Much like any smart phone or tablet you can install several different applications from the installed Google Play Store.



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

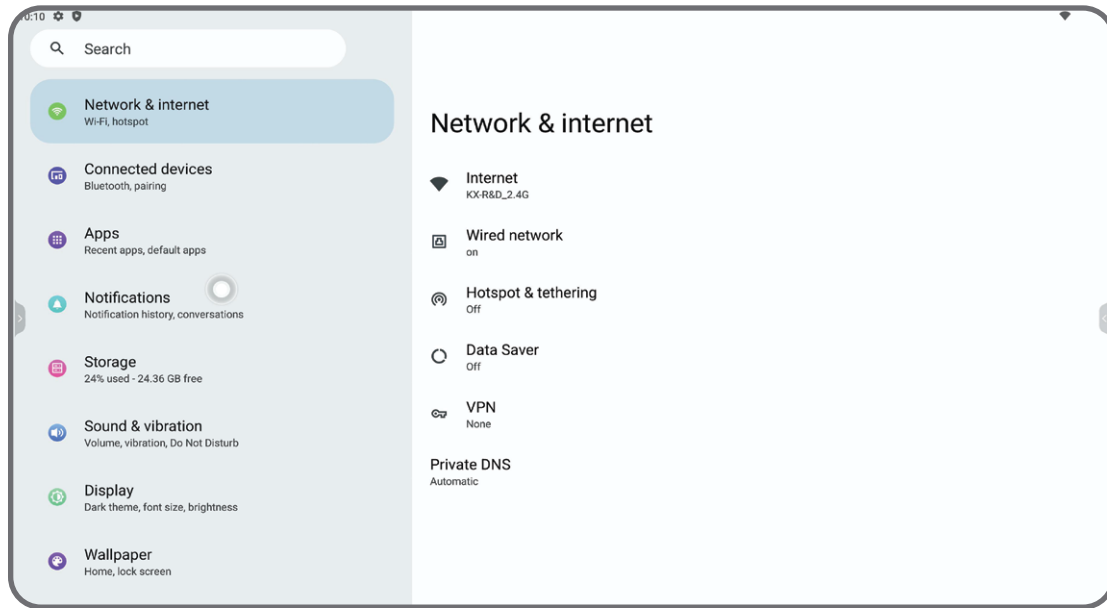
**Note** The following included application descriptions are not a comprehensive list and will vary by the user.

| ITEM  | DESCRIPTION   |
|---|---|
| <br><b>OTA Service</b>   | OTA upgrade.  |
| <br><b>Vote</b>          | Set voting topics.<br><b>Note</b> VoteKit requires a network connection to be used. |
| <br><b>Welcome</b>       | Choose from templates or create your own welcome screen.                            |
| <br><b>Record</b>        | Recording Voice.  |
| <br><b>Record Screen</b> | Recording Screen.   |

## 6. SETTINGS

### 6.1 NETWORK AND INTERNET

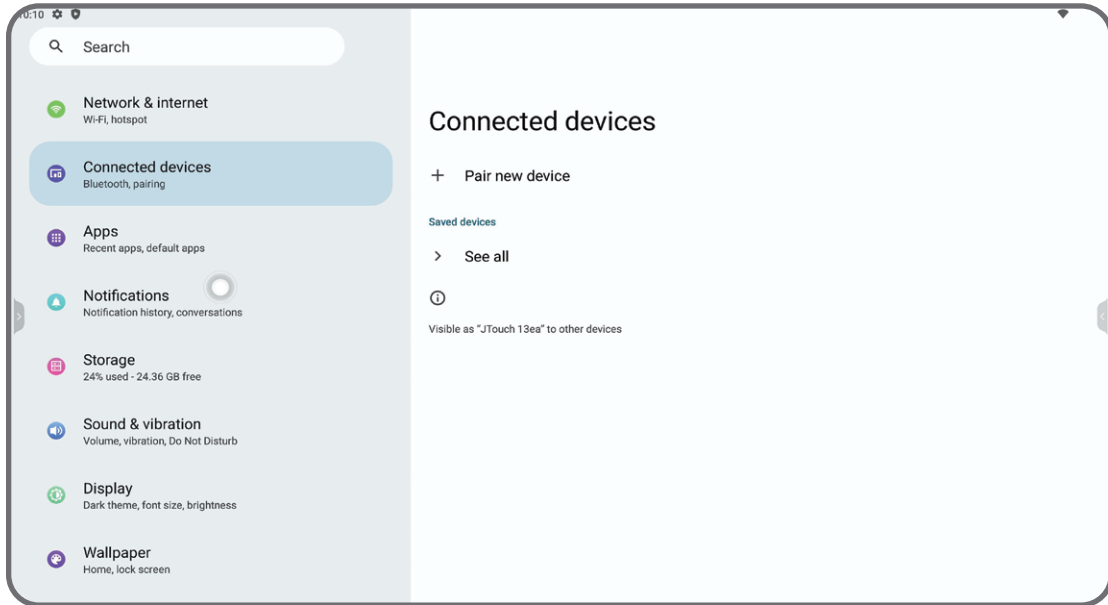
Check current connection status, set up and manage Wi-Fi, Wired network, Hotspot and tethering, Data Saver, VPN and Private DNS.



| ITEM                         | DESCRIPTION   |
|------------------------------|---|
| <b>Internet</b>              | Set up and manage Wi-Fi connection, as well as Network preferences.   |
| <b>Wired network</b>         | Set up and manage Wi-Fi connection, as well as Network preferences.   |
| <b>Hotspot and 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>Private DNS</b>           | Maintain an Automatic Private DNS or set one up manually for security and privacy.  |

## 6.2 CONNECTED DEVICES

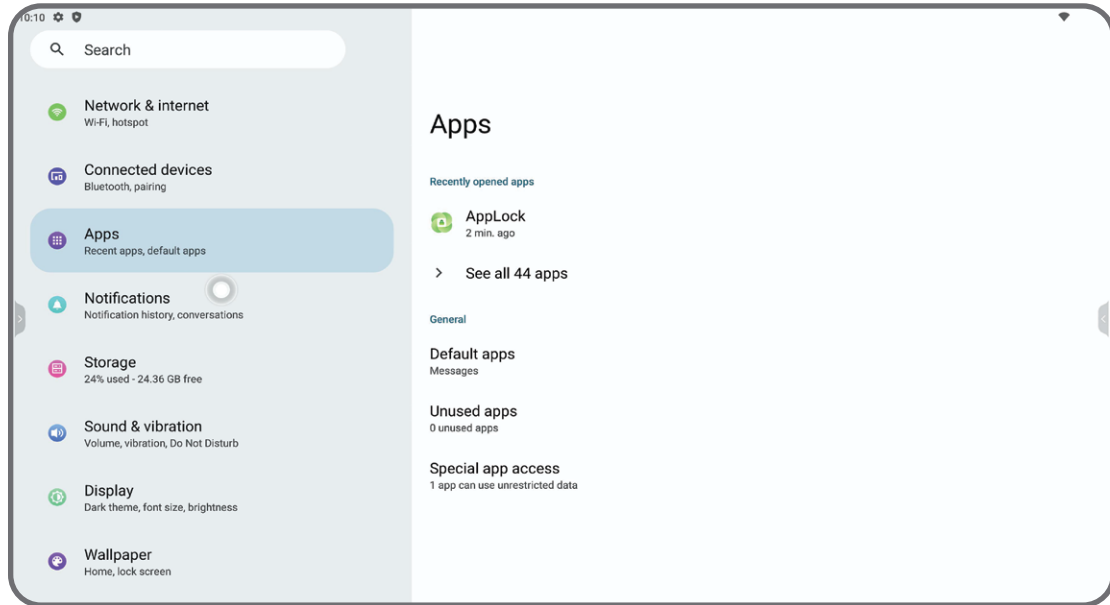
Set up and manage Bluetooth connections and saved devices.



| ITEM                   | DESCRIPTION   |
|------------------------|---|
| <b>Pair new device</b> | Enable Bluetooth to search for and connect to a Bluetooth device.                       |
| <b>Saved devices</b>   | View all previously connected Bluetooth devices.<br><b>Note</b> Bluetooth will turn on. |

## 6.3 APPS

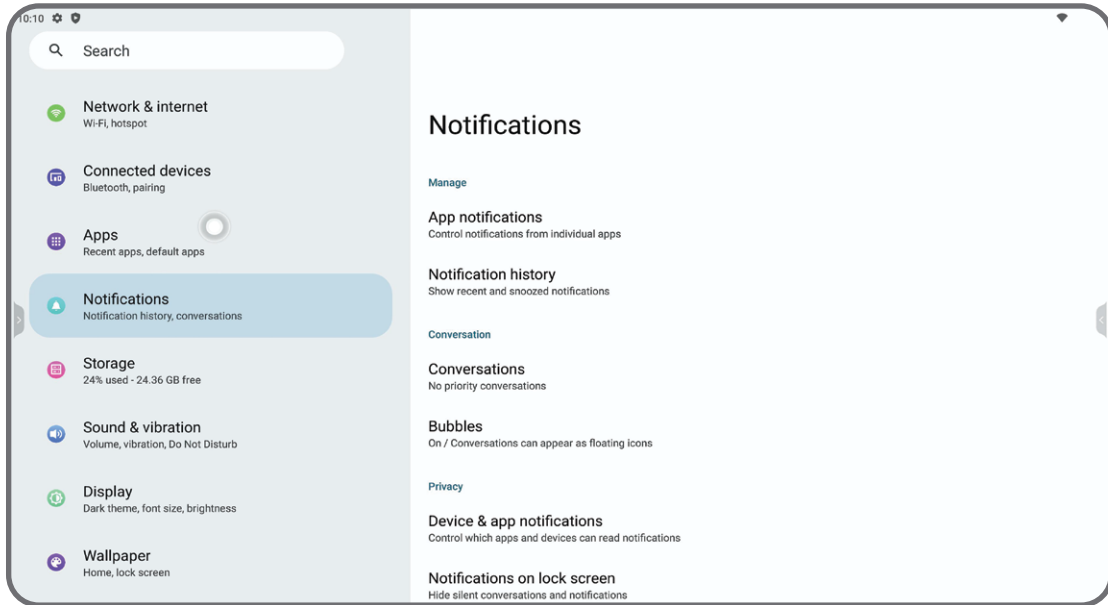
View any running or installed applications. Tap on them for more detailed information and options.



| ITEM                        | DESCRIPTION  |
|-----------------------------|--|
| <b>Recently opened apps</b> | Any recently used applications will be listed here.                                    |
| <b>Default apps</b>         | Set default applications for certain uses (e.g., default browser application).         |
| <b>Unused apps</b>          | Applications that have not been used for a certain period of time will be listed here. |
| <b>Special app Access</b>   | Set several access permissions for applications.                                       |

## 6.4 NOTIFICATIONS

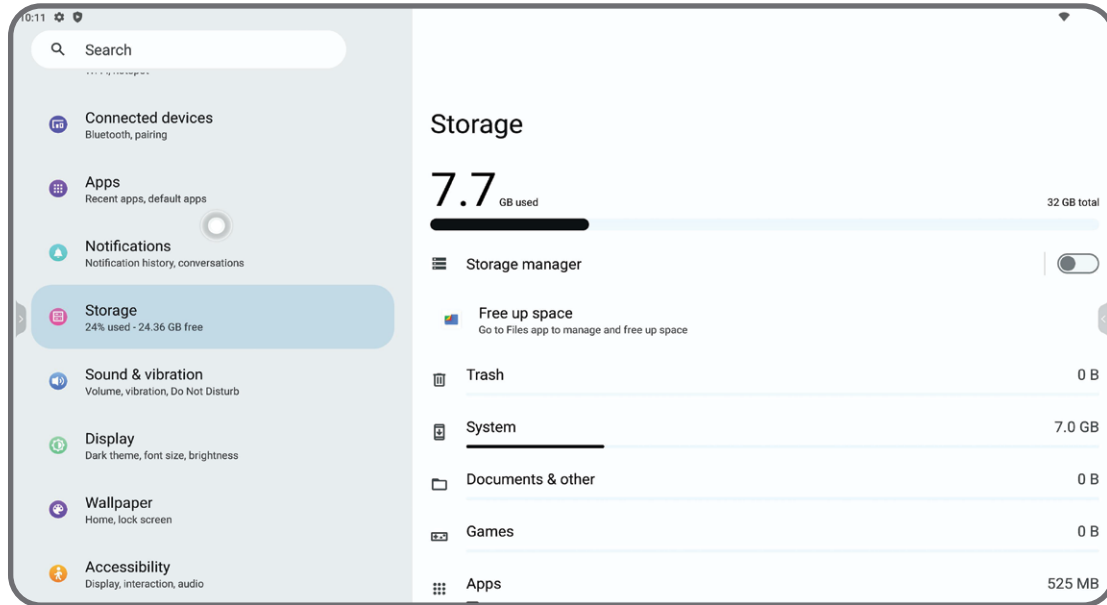
Manage notification and conversation settings and preferences.



| ITEM   | DESCRIPTION   |
|--|---|
| <b>Apps notifications</b>                      | Any recently used applications will be listed here.   |
| <b>Notification history</b>                    | Set default applications for certain uses (e.g., default browser application).                            |
| <b>Conversations</b>                           | Applications that have not been used for a certain period of time will be listed here.                    |
| <b>Bubbles</b>                                 | Set several access permissions for applications.  |
| <b>Device &amp; app Notifications</b>          | Control which applications and devices can read notifications.  |
| <b>Notifications on Lock Screen</b>            | Choose to show all, some, or no conversations or notifications on the lock screen.                        |
| <b>Do Not Disturb</b>                          | Set notification preferences for when “Do Not Disturb” mode is turned on.                                 |
| <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.  |

## 6.5 STORAGE

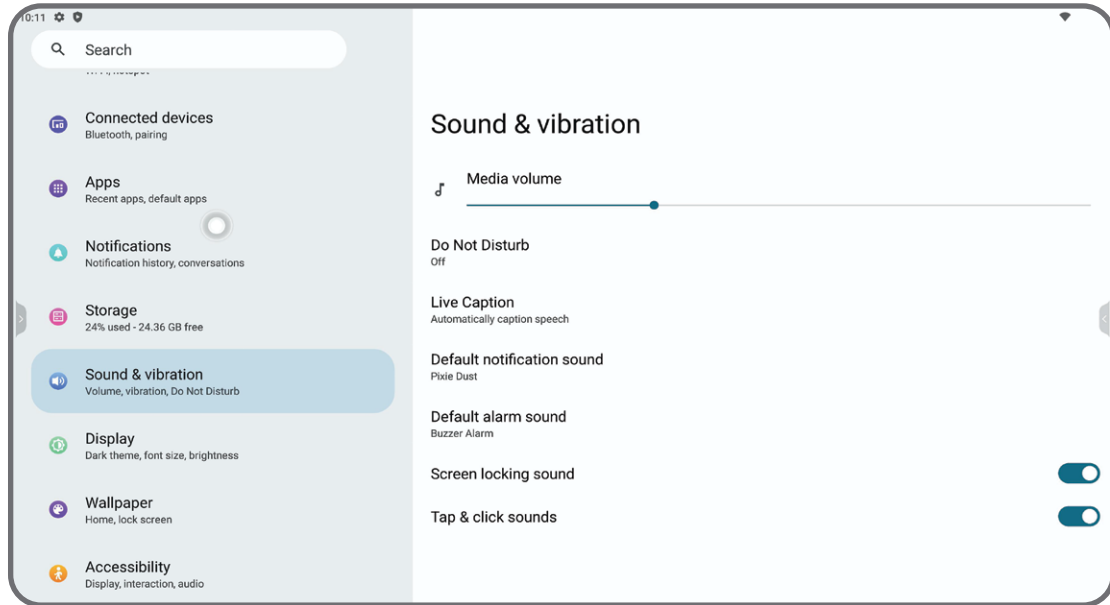
Check the storage status of the device.



| ITEM                         | DESCRIPTION  |
|------------------------------|--|
| <b>Storage manager</b>       | When enabled, the storage manager will remove backed up photos and videos. |
| <b>System</b>                | View the total storage space of system files.                              |
| <b>Apps</b>                  | View and manage the storage space used by applications.                    |
| <b>Documents &amp; other</b> | View and manage the Documents folder.                                      |
| <b>Games</b>                 | View and manage the storage space used by gaming applications.             |
| <b>Apps</b>                  | View and manage the storage space used by applications.                    |
| <b>Audio</b>                 | View and manage the Audio folder.  |
| <b>Videos</b>                | View and manage the Video folder.  |
| <b>Images</b>                | View and manage the Images folder.   |

## 6.6 SOUND AND VIBRATION

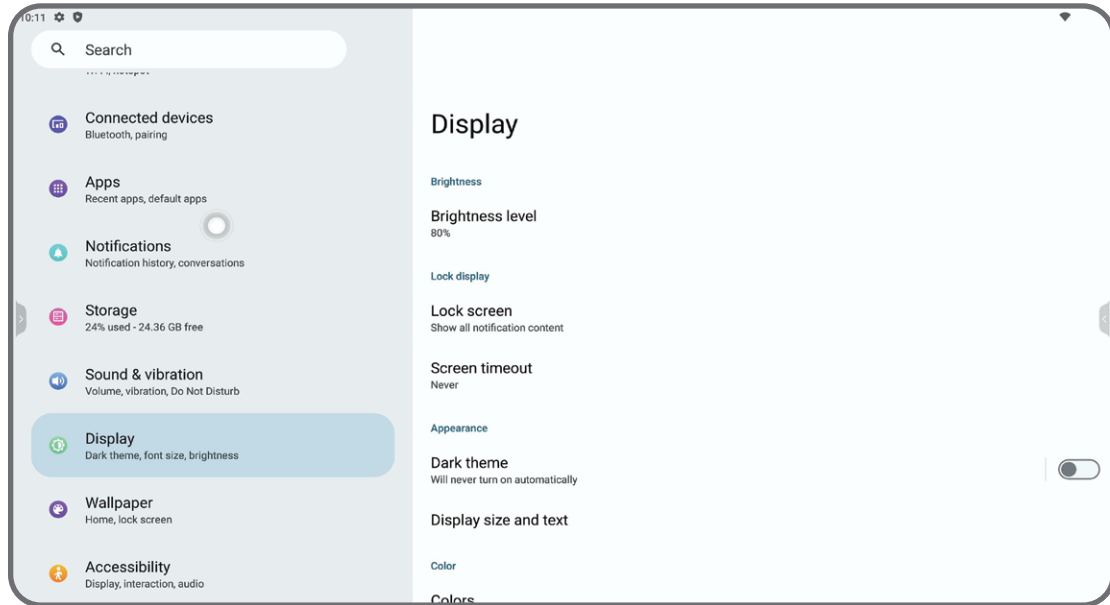
Adjust the volume level and set up various sound preferences.



| ITEM                              | DESCRIPTION  |
|-----------------------------------|--|
| <b>Media volume</b>               | Adjust the volume level.   |
| <b>Do Not Disturb</b>             | Set sound preferences for when “Do Not Disturb” mode is turned on.           |
| <b>Live Caption</b>               | When enabled, automatically caption.   |
| <b>Default notification sound</b> | Choose the default sound effect for notifications.                           |
| <b>Default alarm sound</b>        | Choose the default sound for alarms.   |
| <b>Screen locking sound</b>       | When enabled, a sound effect will play when the screen is locked.            |
| <b>Touch &amp; click sound</b>    | When enabled, a sound effect will play every time a touch input is received. |

## 6.7 DISPLAY

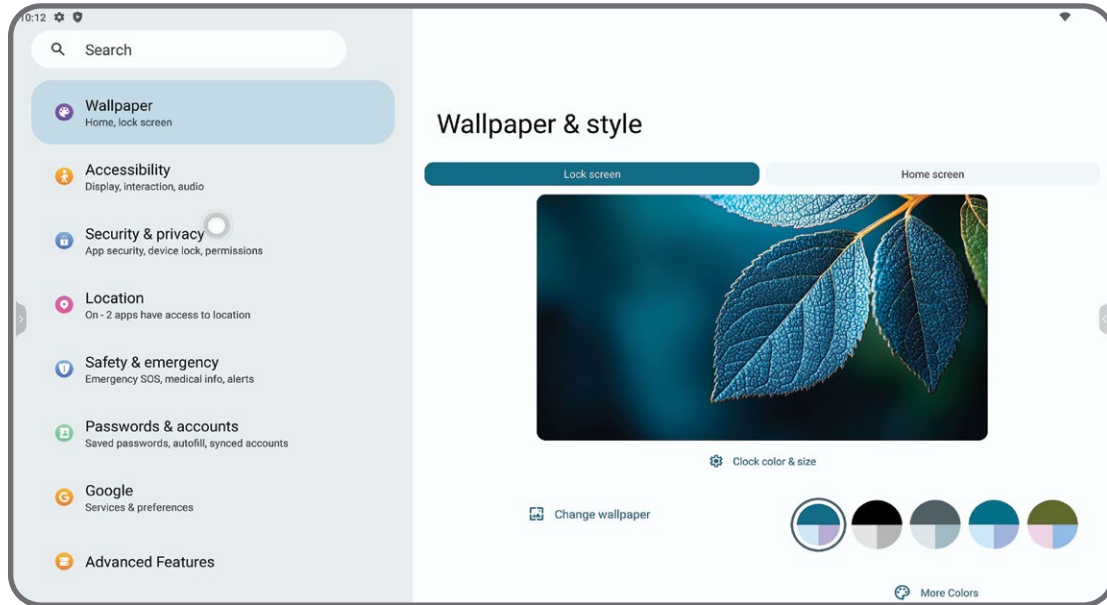
Adjust Brightness, Timeout, Theme, HDMI CEC, and other display related settings.



| ITEM                         | DESCRIPTION  |
|------------------------------|--|
| <b>Brightness level</b>      | Adjust the brightness level.   |
| <b>Lock screen</b>           | Set lock screen preferences.   |
| <b>Screen timeout</b>        | Set when the screen will lock after a period of inactivity.                          |
| <b>Dark theme</b>            | When enabled, the brighter default background color will be changed to a darker one. |
| <b>Display size and text</b> | Adjust the overall display size or only the text size.                               |
| <b>Colours</b>               | Show users the colours of the display screen.  |
| <b>Auto-rotate screen</b>    | Screen saver   |

## 6.8 WALLPAPER & STYLE

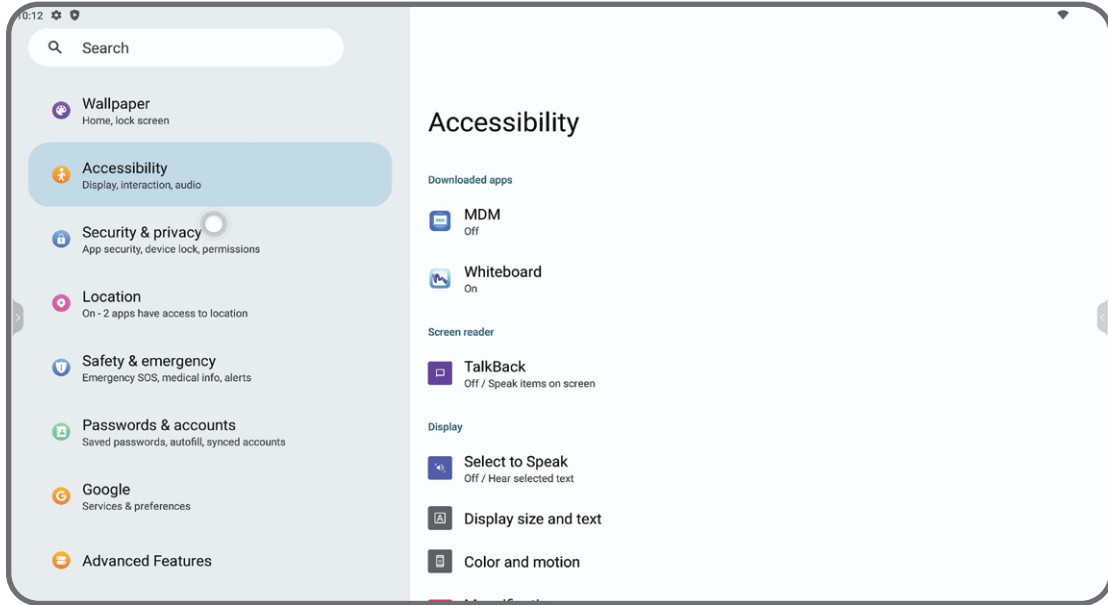
Adjust and personalize the Wallpaper, Colors and theme of the home screen.



| ITEM                         | DESCRIPTION  |
|------------------------------|--|
| <b>Clock colour and size</b> | Choose a color scheme based on the selected wallpaper.                               |
| <b>Change wallpaper</b>      | Select a wallpaper for the background.   |
| <b>More Colors</b>           | Choose a color scheme from a select amount of options.                               |
| <b>Dark Theme</b>            | When enabled, the brighter default background color will be changed to a darker one. |

## 6.9 ACCESSIBILITY

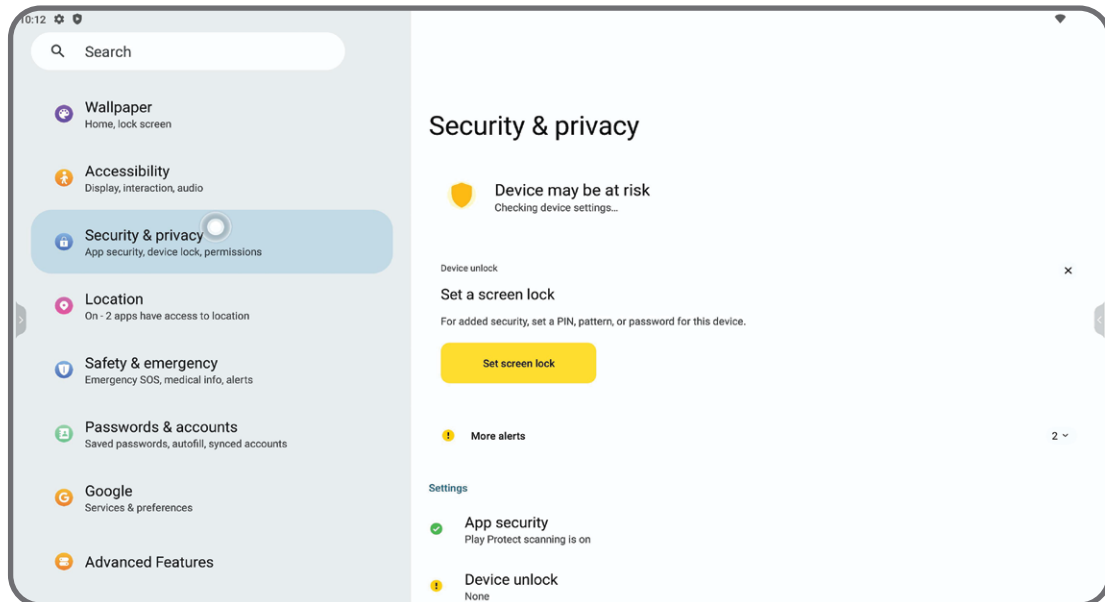
View and adjust various tools that can help people with visual, auditory, speech, or physical disabilities use the device.



| ITEM                           | DESCRIPTION  |
|--------------------------------|--|
| <b>TalkBack</b>                | When enabled, device actions will be described by audio so it can be used without looking at the screen.                             |
| <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>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>Magnification</b>           | Zoom in on the screen to enlarge the content.  |
| <b>Accessibility menu</b>      | Add a shortcut for an enlarged on-screen menu to control the device.   |
| <b>Switch access</b>           | Allows the use of one or more switch, keyboard, controller, etc. to control the device.  |
| <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>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.  |

## 6.10 SECURITY

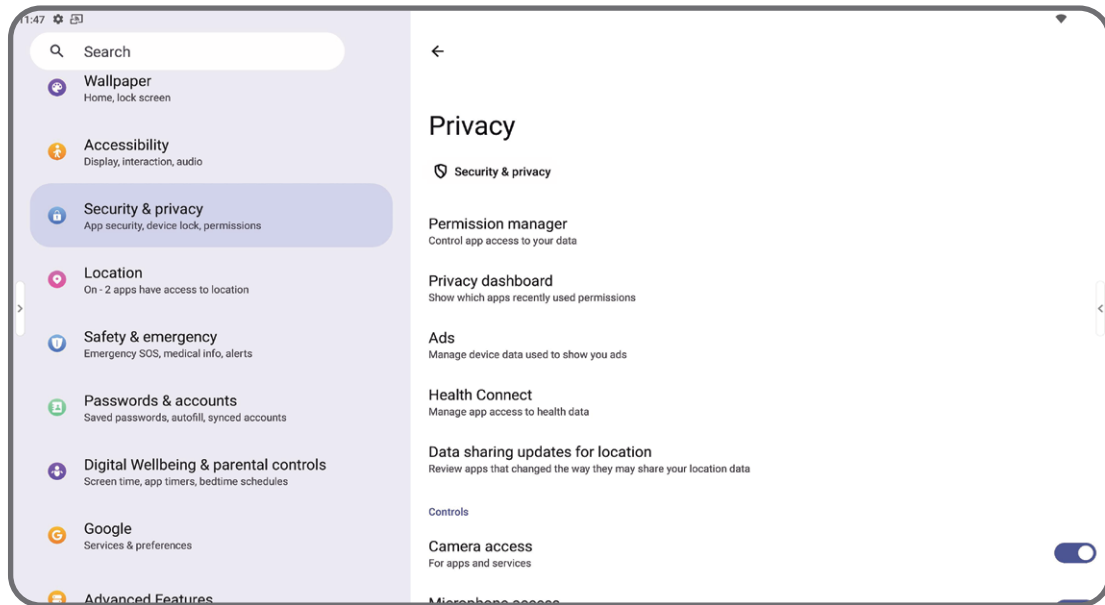
Review and adjust device security settings.



| ITEM                             | DESCRIPTION  |
|----------------------------------|--|
| <b>Set a screen lock</b>         | For added security, set a PIN or password for this device.   |
| <b>More alerts</b>               | Add google account and check for security updates.   |
| <b>App security</b>              | Regularly check the installed applications and device for any harmful behavior.                      |
| <b>Device unlock</b>             | Display whether the device is locked?  |
| <b>Device finders</b>            | Some settings, such as find my device and system updates, won't work until you add a Google account. |
| <b>System and updates</b>        | Check for system updates.  |
| <b>More security and privacy</b> | View and adjust various security related settings.   |

## 6.11 PRIVACY

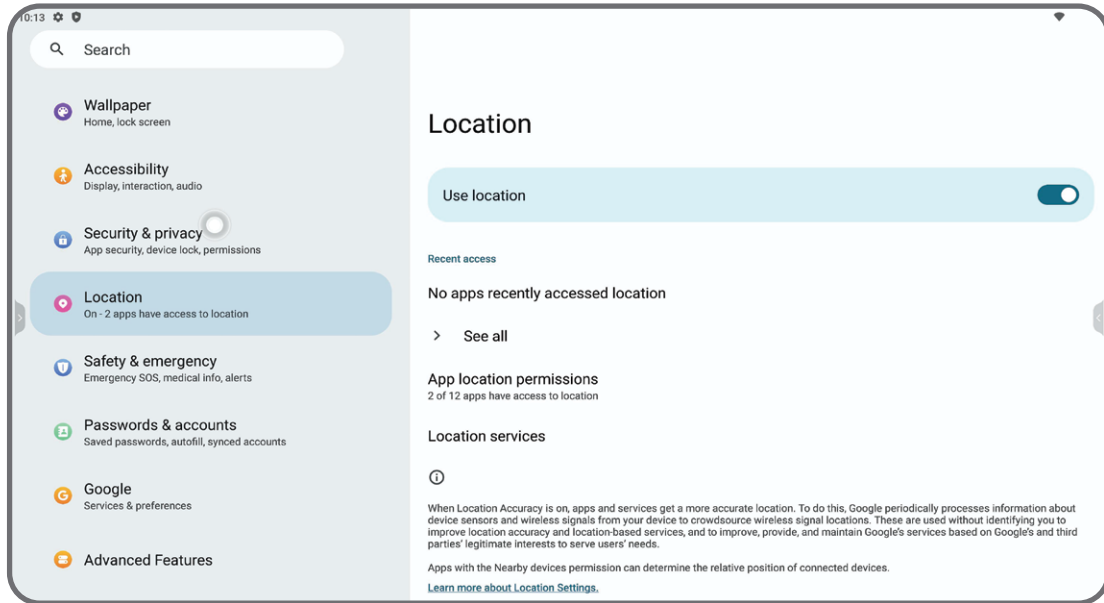
Check and manage current privacy settings.



| ITEM                                     | DESCRIPTION  |
|--|--|
| <b>Permission Manager</b>                | Control application access to your data.   |
| <b>Privacy Dashboard</b>                 | View which applications recently used permissions.   |
| <b>Ads</b>                               | Manage advertisement personalization.  |
| <b>Health Connect</b>                    | Manage app access to health data.  |
| <b>Date sharing updates for location</b> | Review apps that changed the way that they may share your location data.   |
| <b>Camera Access</b>                     | Allow or disallow camera access for applications or services.  |
| <b>Microphone Access</b>                 | Allow or disallow microphone access for applications or services.  |
| <b>Show Clipboard Access</b>             | When enabled, a message will appear when applications access something (e.g., text, image, etc.) that has been copied. |
| <b>Show Passwords</b>                    | When enabled, characters will be displayed briefly as a password is being inputted.                                    |
| <b>Location access</b>                   | For apps and services.   |
| <b>Activity controls</b>                 | Choose the activities and info that you allow Google to save.  |

## 6.12 LOCATION

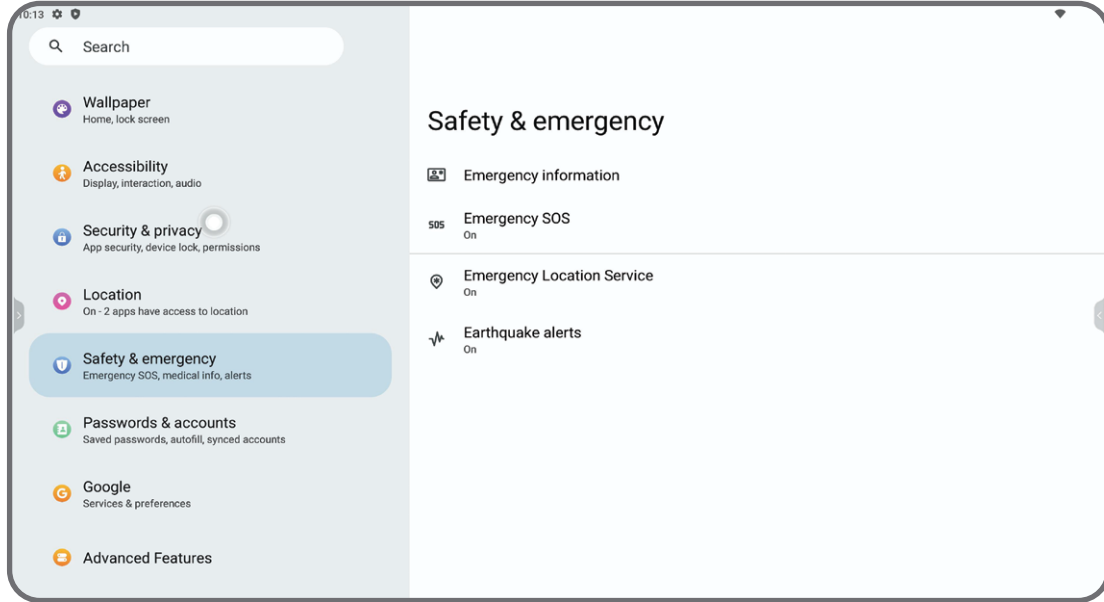
View and manage location settings.



| ITEM                            | DESCRIPTION   |
|---------------------------------|---|
| <b>Use location</b>             | When enabled, the location of the device will be accessible to applications.                  |
| <b>Recent access</b>            | Review which applications recently accessed the device's location.                            |
| <b>App location Permissions</b> | Review which applications have permission to access the device's location.                    |
| <b>Location services</b>        | Turn ON/OFF various alerts, services, and scanning related to location and location accuracy. |

**6.13 SAFETY AND EMERGENCY**

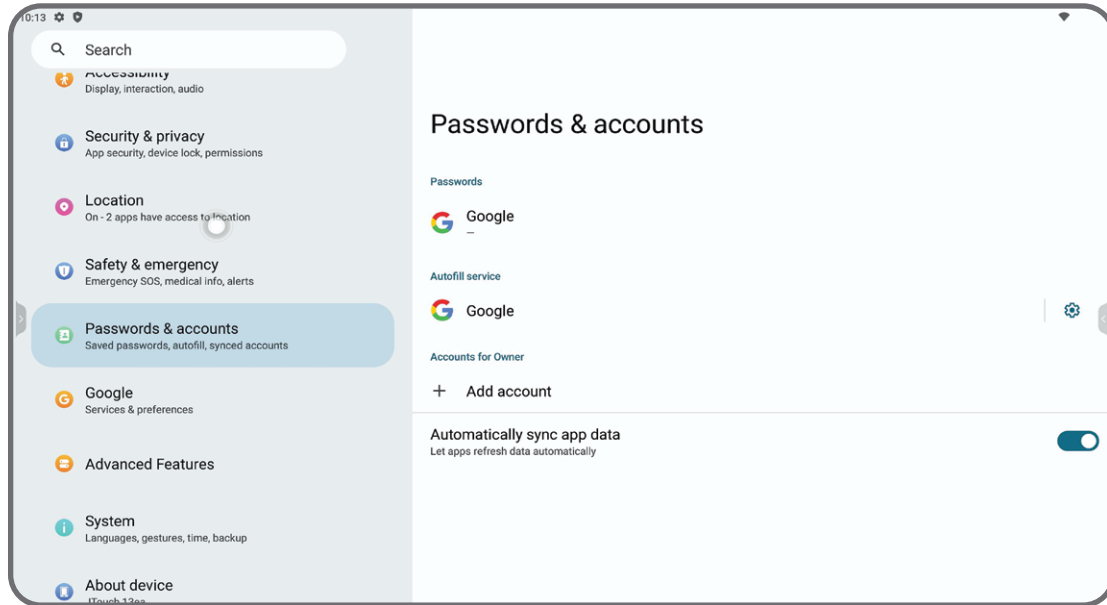
Review emergency information, receive Emergency SOS, Emergency Location Service and Earthquake alerts alarming.



| ITEM                              | DESCRIPTION  |
|-----------------------------------|--|
| <b>Emergency information</b>      | Adding medical information and emergency contacts can help first responders in an emergency.   |
| <b>Emergency SOS</b>              | When enabled, press the power button quickly five times to play a loud sound or call for help when Emergency SOS is starting.                                      |
| <b>Emergency Location Service</b> | When enabled, you call or text emergency number, Emergency Location Service may use your device's location with Google Location Accuracy to confirm your location. |
| <b>Earthquake alerts</b>          | When enabled, when an earthquake is detected nearby You'll get an alert with the initial estimated magnitude and distance from your location.                      |

## 6.14 PASSWORDS & ACCOUNTS

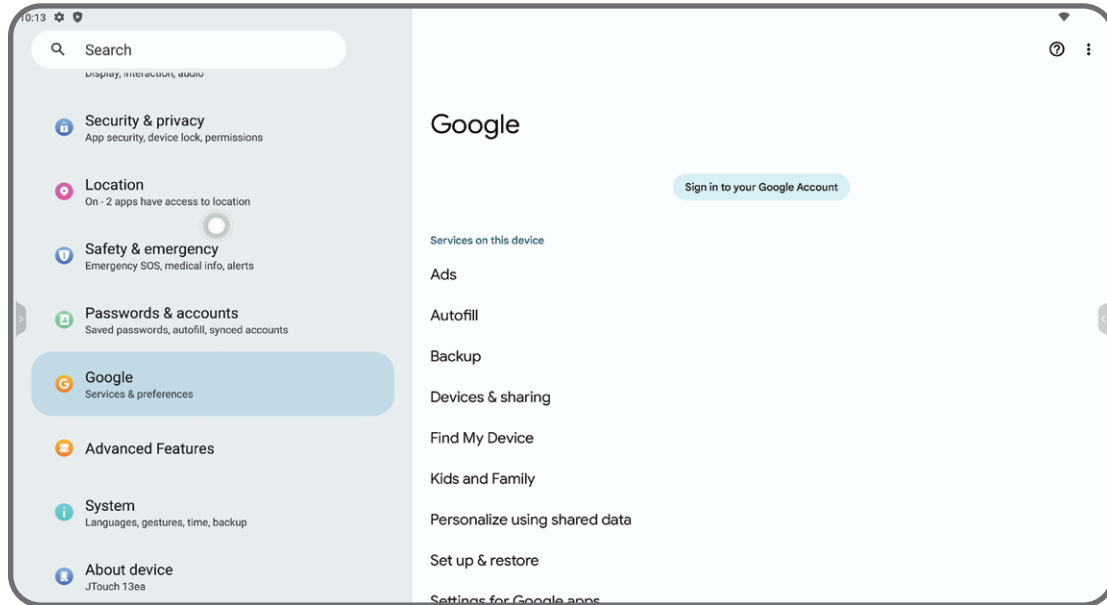
Review saved passwords, select auto-fill services, and add accounts.



| ITEM                               | DESCRIPTION  |
|------------------------------------|--|
| <b>Passwords</b>                   | Review saved passwords.                                    |
| <b>Autofill service</b>            | Select which auto-fill service to use if any.              |
| <b>Accounts for Owner</b>          | Add or remove accounts.                                    |
| <b>Automatically sync app data</b> | When enabled, applications can refresh data automatically. |

## 6.15 GOOGLE

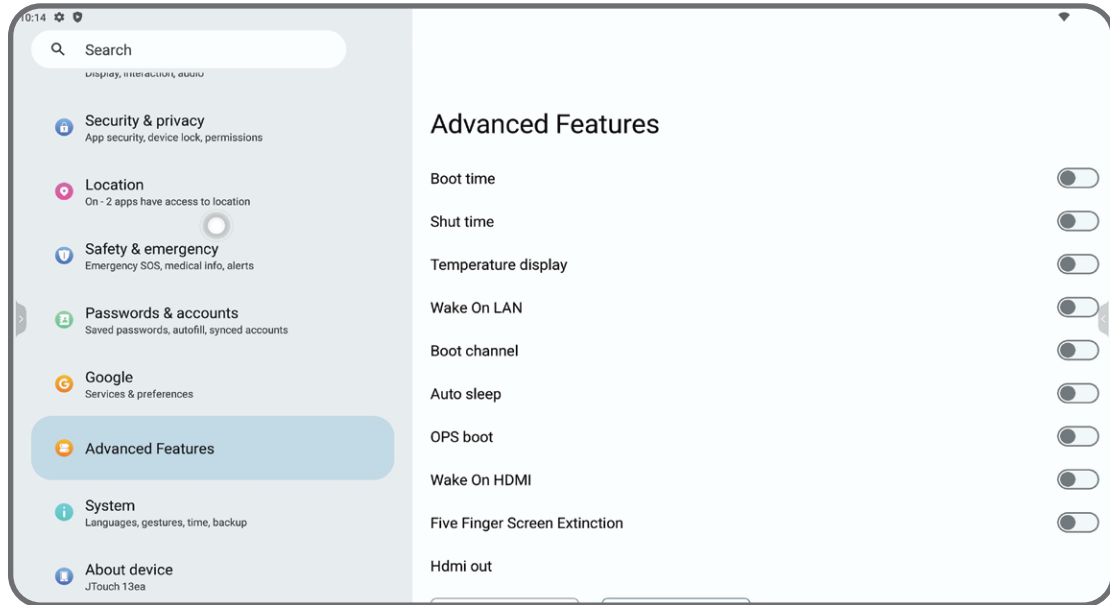
Review all of Google’s services and set up preferences.



| ITEM                                 | DESCRIPTION   |
|--------------------------------------|---|
| <b>Ads</b>                           | Manage advertisement personalization.   |
| <b>Autofill</b>                      | Review screen time, number of notifications, and number of device unlocks.                            |
| <b>Backup</b>                        | With a Google account, passwords and other information can be filled in automatically.                |
| <b>Devices &amp; sharing</b>         | Set Cast and device sharing options.  |
| <b>Find My Device</b>                | Locate the device remotely.   |
| <b>Kids and Family</b>               | Set up parental controls with Google’s Family Link application.                                       |
| <b>Personalize using shared data</b> | Allow or disallow Google to use the installed applications’ data for diagnostics and recommendations. |
| <b>Set Up &amp; restore</b>          | Set up a nearby device or a work profile.   |
| <b>Settings for Google apps</b>      | Review settings for Google-specific applications.   |

## 6.16 ADVANCED FEATURES

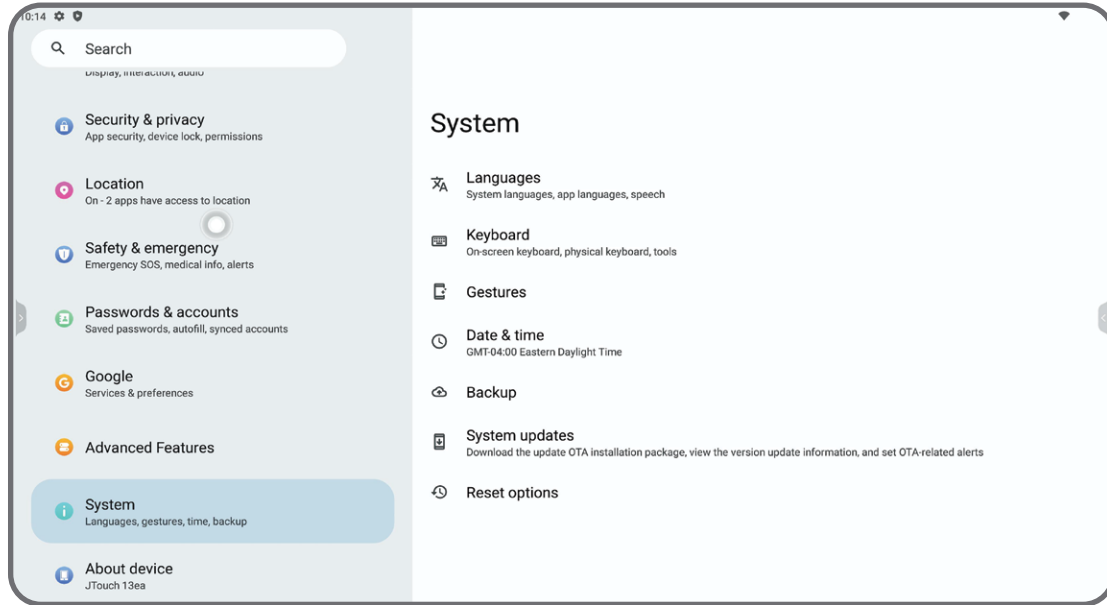
Set up a series of functions such as power on/off, temperature display, etc.



| ITEM                                 | DESCRIPTION  |
|--------------------------------------|--|
| <b>Boot time</b>                     | When enabled, set the desired boot time.   |
| <b>Shut time</b>                     | When enabled, set the desired shut time.   |
| <b>Temperature display</b>           | When enabled, the temperature will display on the screen.                                  |
| <b>Wake On LAN</b>                   | When enabled, Wake On LAN function is turned on.   |
| <b>Boot channel</b>                  | When enabled, all channels are displayed below.  |
| <b>Auto sleep</b>                    | When enabled, automatic sleep time can be set, with options of 15, 30, 45, and 60 minutes. |
| <b>OPS boot</b>                      | When enabled, there are two options to choose from: OPS source only and any source.        |
| <b>Wake On HDMI</b>                  | When enabled, Wake On HDMI function is turned on.  |
| <b>Five Finger Screen Extinction</b> | When enabled, hold five fingers for screen wake up/sleep Screen go to sleep mode.          |

## 6.17 SYSTEM

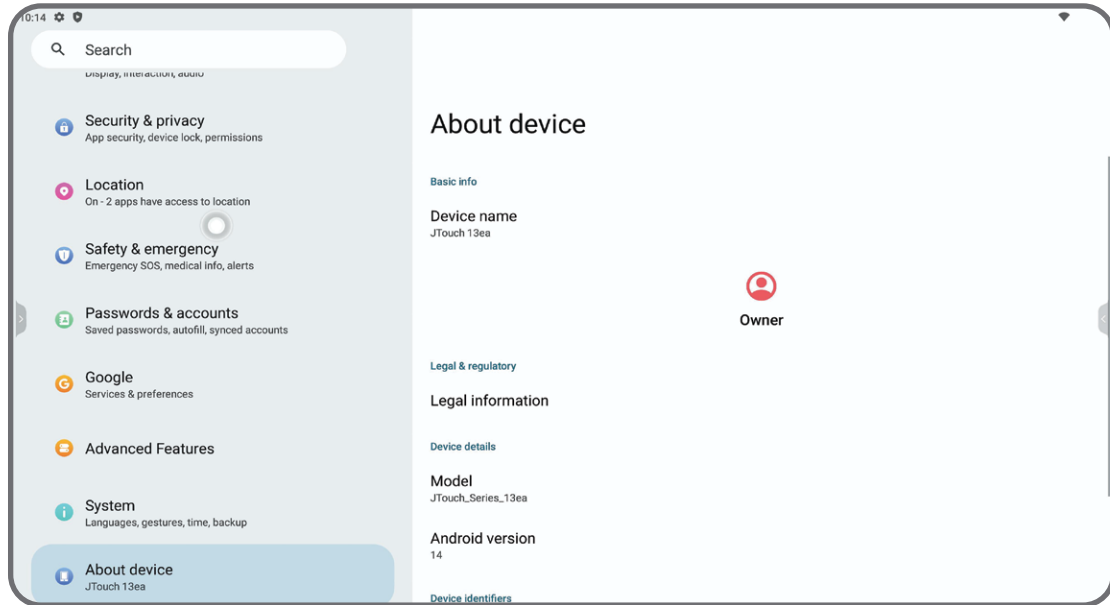
View and adjust various system settings.



| ITEM                  | DESCRIPTION                                       |
|-----------------------|---|
| <b>Languages</b>      | Choose the preferred language.                    |
| <b>Keyboard</b>       | Set the keyboard.                                 |
| <b>Gestures</b>       | Adjust the side toolbar settings.                 |
| <b>Date and time</b>  | Set the date and time.                            |
| <b>Backup</b>         | With a Google account, back up the device's data. |
| <b>System updates</b> | Check for system updates.                         |
| <b>Reset options</b>  | Reset the device to factory default settings.     |

## 6.18 ABOUT DEVICE

Review device information.

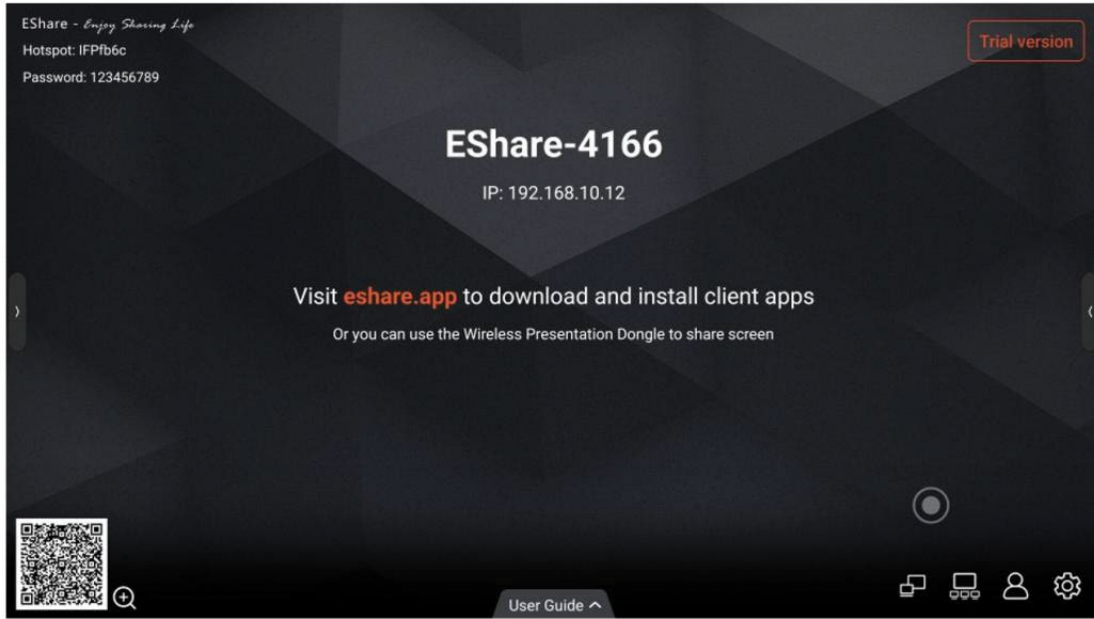


| ITEM                            | DESCRIPTION                                  |
|---------------------------------|--|
| <b>Device name</b>              | View the name of the device.                 |
| <b>Legal information</b>        | View the relevant legal information.         |
| <b>Model</b>                    | View the model of the device.                |
| <b>Android version</b>          | View the installed version of Android.       |
| <b>IP address</b>               | View the IP Address.                         |
| <b>Device Wi-Fi MAC address</b> | View the Device Wi-fi MAC address.           |
| <b>ETHERNET MAC address</b>     | View the ETHERNET MAC address.               |
| <b>Bluetooth address</b>        | View the Bluetooth address.                  |
| <b>Uptime</b>                   | View the current running time of the device. |
| <b>Build number</b>             | View the version number of current software. |

## 7. PRE-INSTALLED APPLICATIONS AND SETTINGS

### 7.1 ESHARE

EShare is a full-featured multi-screen interactive software designed for casting, wireless display, and remote control between mobile devices (e.g., phones, tablets, laptops, etc.) and large format displays.



#### 7.1.1 KEY FEATURES

| ITEM                        | DESCRIPTION  |
|-----------------------------|--|
| <b>Mirroring</b>            | Mirror client device screens (supporting iPhone, iPad, Android, MacBook, Chromebook, Windows, Ubuntu, etc.) to the display, and use touch control on the display to wirelessly control client devices. |
| <b>File Casting</b>         | Share files (such as audio, video, photo, office document, PDF, etc.) from phones or tablets to the display.   |
| <b>Remote Control</b>       | Supports wireless control via wireless mouse, air mouse, keyboard, touch pad, etc.   |
| <b>Camera</b>               | Cast the camera or microphone to a display in real-time.   |
| <b>Wireless Annotations</b> | Annotate the display with client applications in real-time.  |
| <b>TV Mirror</b>            | Mirror the display to multiple client devices, and allow touch control of the display wirelessly from a laptop or phone.   |
| Multiple Screens            | Cast multiple device screens to a display simultaneously and the display's screen will be split automatically.   |
| Display Group               | Duplicate the main display or the casting screen to all grouped displays.  |
| Moderator Mode              | The moderator can determine what client devices to mirror, annotate, etc.  |
| AirPlay                     | Compatible with the AirPlay feature of Apple devices.  |
| DLNA                        | Supports any application compatible with the DLNA protocol.  |
| Miracast                    | Supports screen casting and touch feedback for Windows laptops or Android phones that are compatible with the Miracast protocol.   |
| Chromecast                  | Supports direct casting from the Google Chrome browser, ChromeOS devices, YouTube application and Android phones.  |
| WebCast                     | Share screens through a web browser on the laptop without installing any applications when enabled.  |

### 7.1.2 DEVICE REQUIREMENTS

- Android 5.0 or later
- MacOS 10.9 or later
- iOS 9.0 or later
- Windows 7/8/10/11
- ChromeOS
- Ubuntu 12.04 or later

### 7.1.3 NETWORK REQUIREMENTS

When using EShare on your network, please use the below ports.

| PORT                           | TYPE | SERVICE OR PROTOCOL  | USED BY              |
|--------------------------------|------|--|----------------------|
| 80/443                         | TCP  | Hypertext Transfer Protocol (HTTP, HTTPS) <b>Destination:</b><br>casts.app<br>gw.casts.app<br>h1.ee-share.com                            | WebCast              |
| 1900                           | UDP  | Simple Service Discovery Protocol (SSDP)   | Bonjour              |
| 51010-51060                    | TCP  | EShare Proprietary   | EShare Apps, AirPlay |
| 8121, 57395, 8080, 52025, 8600 | TCP  | EShare Proprietary   | EShare Apps          |
| 48689                          | UDP  | Device Discovery   | EShare Apps          |
| 5353                           | UDP  | Multicast DNS (MDNS)   | Bonjour, AirPlay     |
| 10000-65535                    | UDP  | DTLS<br><b>Destination:</b><br>DNS: *.casts.app<br>IPV4: 3.124.195.37<br>54.169.2.51<br>64.64.232.232<br>119.28.92.194<br>106.55.235.101 | WebCast              |
| 8008, 8009                     | TCP  | GoogleCast Proprietary   | ChromeCast           |

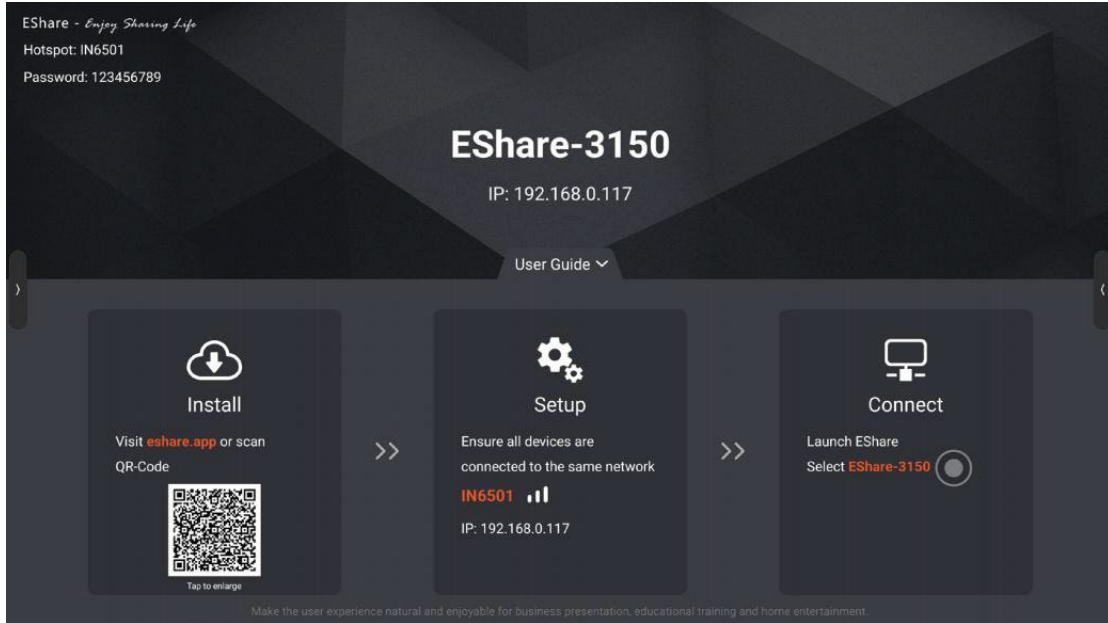
### 7.1.4 BANDWIDTH REQUIREMENTS

| ITEM  | DESCRIPTION   |
|---|---|
| <b>Mirroring</b><br>(from laptop or phone to display) | The maximum bit rate can be as high as 30 Mbps, but average bit rates will be significantly lower. For best results, it is recommended to use an Ethernet connection with the display and a 5 GHz Wi-Fi connection for laptops/phones.                        |
| <b>TV Mirror and Display Group</b>                    | The average bit rates of TV Mirror and Display Group are 4 Mbps. Please reserve bandwidth accordingly. For example, if there are 40 tablets or laptops in the classroom using TV Mirror, the required bandwidth could be calculated as 40 x 4 Mbps =160 Mbps. |
| <b>WebCast</b>  | The average bit rates of each WebCast connection are 4-5 Mbps. It's recommended to reserve a steady 5 Mbps bandwidth for each WebCast.  |

**7.2 ESHARE APPLICATION**

**7.2.1 DOWNLOAD THE ESHARE APPLICATION**

**Note** Please make sure the client device (e.g., phone, laptop, etc.) is connected to the same network as the display.



1. On the display, launch the ESharePro application.
2. On the client device, scan the QR code or go to: eshare.app.
3. Download and install the Eshare application onto the client device.

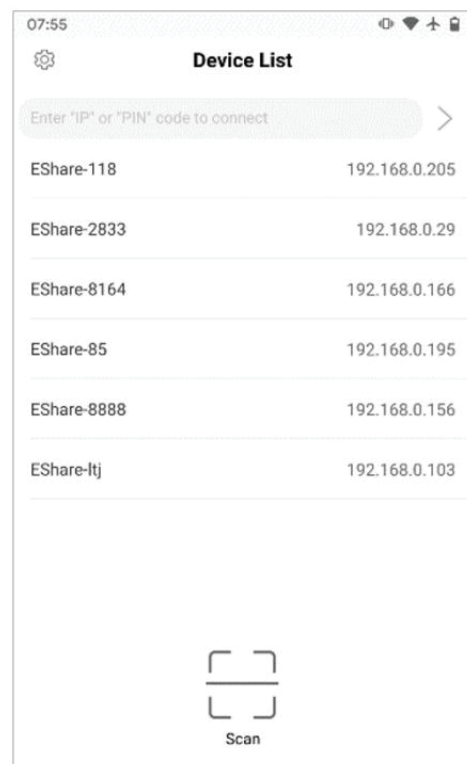
**7.2.2 FOR ANDROID/IOS DEVICES**

**Note** Please make sure the client device (e.g., phone) is connected to the same network as the display.

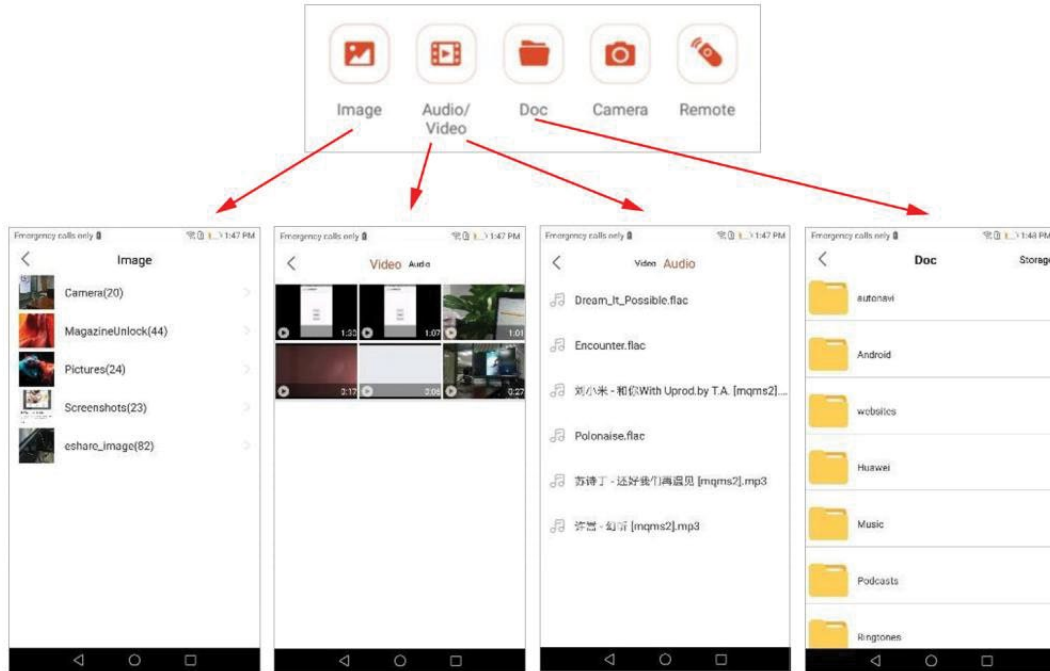
**Connecting to the Display**

There are four ways to connect the client device to the display.

| CONNECTION METHOD                       | DESCRIPTION                                     |
|---|---|
| <b>Device Name</b><br>(Default Setting) | Select the display's name from the Device List. |
| <b>PIN Code</b>                         | Enter the PIN code found on the display.        |
| <b>Enter IP Address</b>                 | Enter the IP address found on the display.      |
| <b>Scan QR Code</b>                     | Scan the QR code found on the display.          |



**File Sharing**

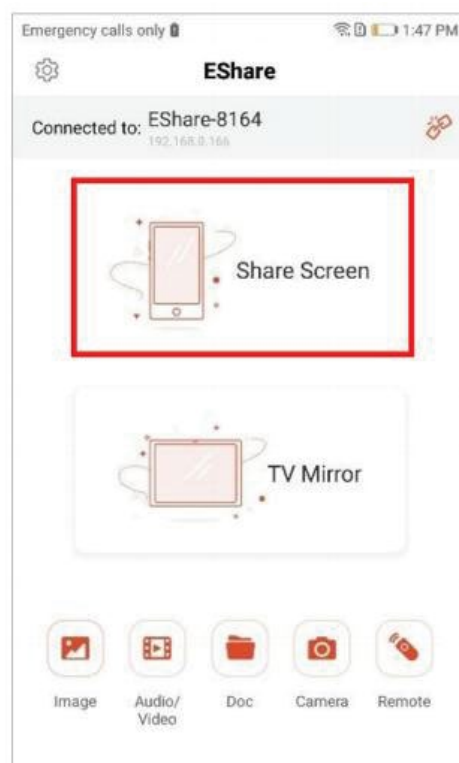


| ITEM               | DESCRIPTION   |
|--------------------|---|
| <b>Image</b>       | Select any image file to share to the display.  |
| <b>Audio/Video</b> | Select any audio/video file to share to the display.  |
| <b>Doc</b>         | Select any document (e.g., Word, PPT, Excel, TXT, etc.) to share to the display.  |
| <b>Storage</b>     | Select <b>Storage</b> in the top right corner of the Doc sharing page to enable wireless storage, then visit the URL shown on the client device to upload or download files from storage. |

**Screen Sharing**

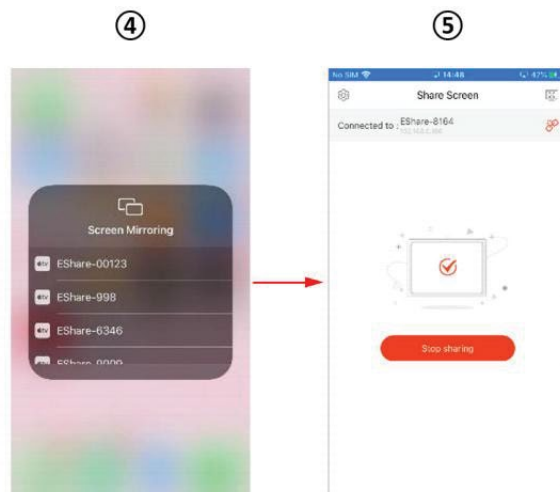
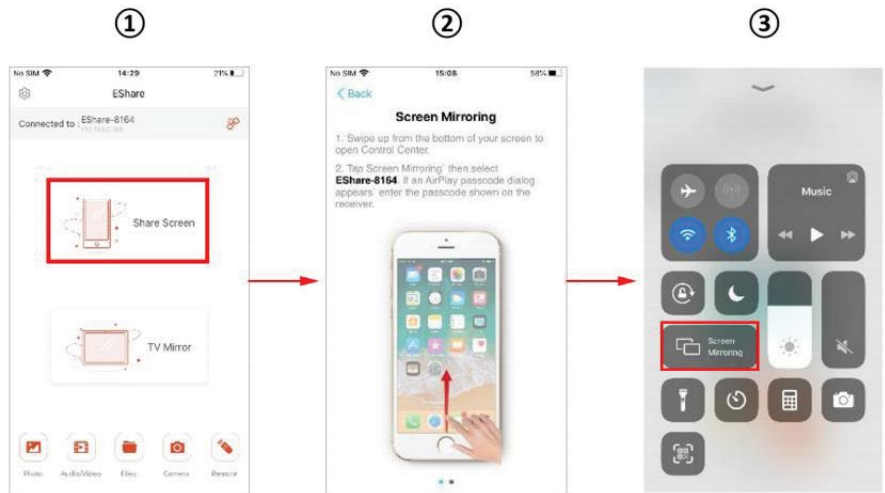
- Android Devices

Select **Share Screen** to share the client device's screen to the display.



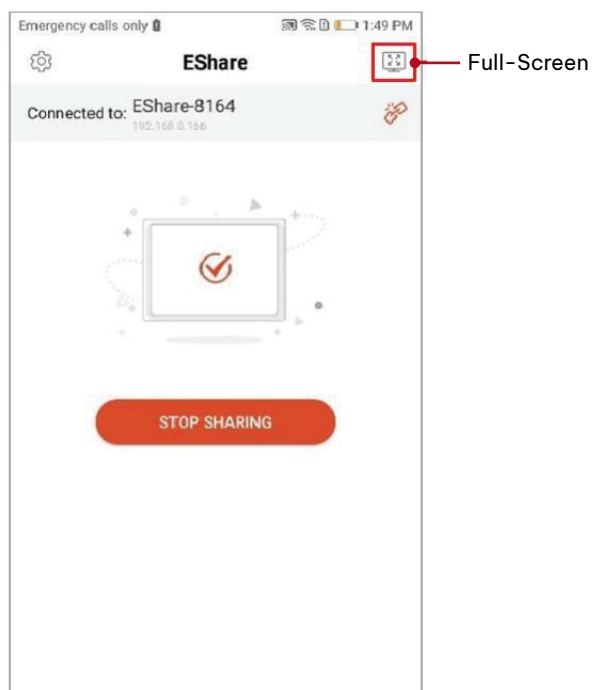
- iOS Devices

Select **Share Screen** then follow the iOS screen sharing guide to share the client device's screen to the display.



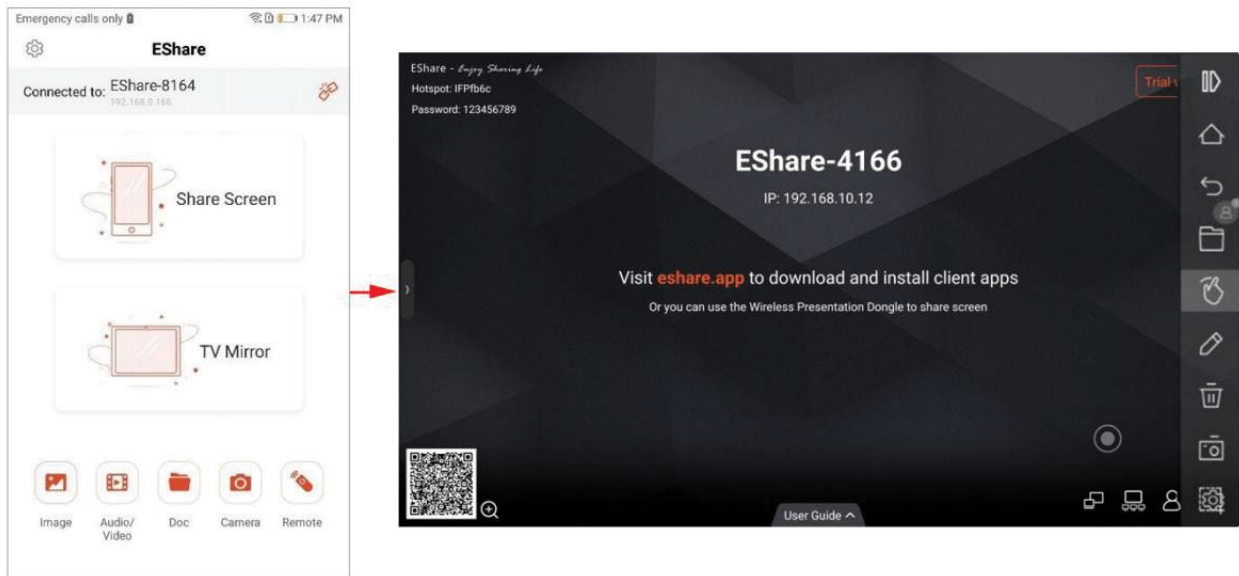
### Full Screen

If two or more client devices are sharing the display's screen, selecting **Full-Screen** will display a single client device's screen only.



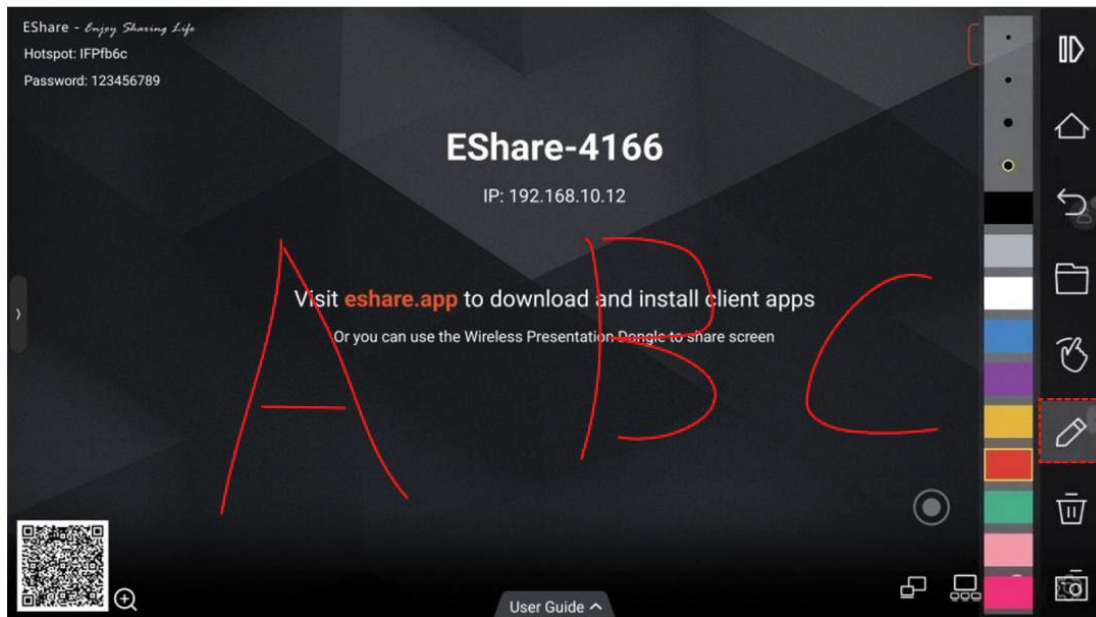
### TV Mirror

Select **TV Mirror** to mirror the screen of the display to the client device and control it.



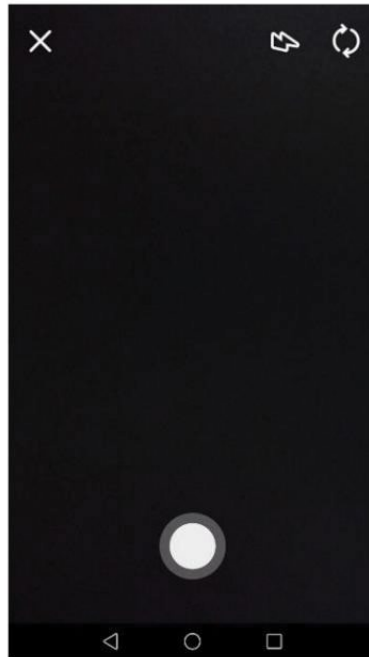
### Wireless Annotations

After selecting **TV Mirror**, select the pen icon to start wireless annotation on the display.



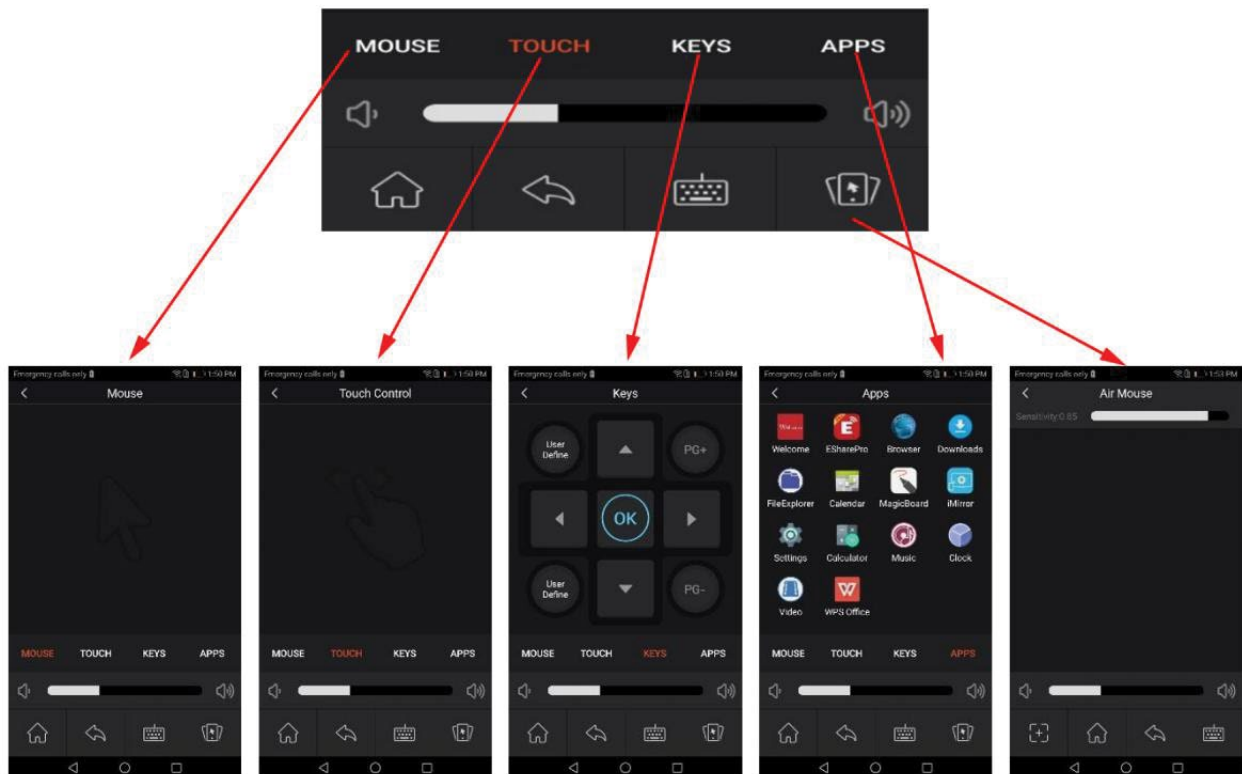
### Camera

Select **Camera** to share photos or audio from your client device's camera or microphone to the display in real-time.



### Remote Control

Select **Remote** to use the client device as a wireless mouse, remote control, keyboard, etc.



### Share Files from Other Applications to the Display

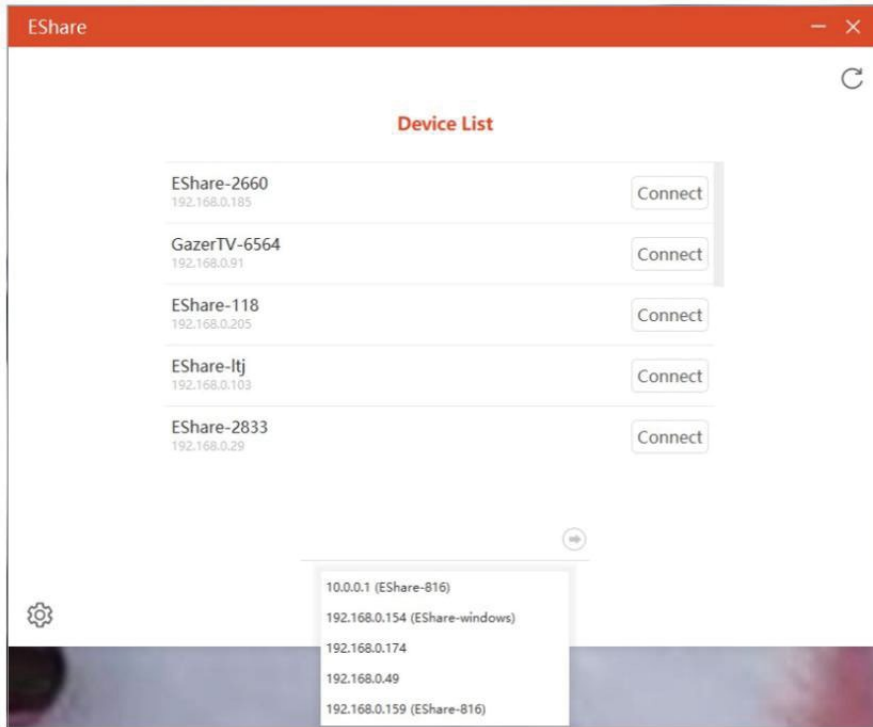
In email, browser, file manager, and other applications, you can share files to the display through the EShare application or you can share files to the display with other applications supporting DLNA.

### 7.2.3 FOR WINDOWS/MACOS/CHROMEOS/UBUNTU DEVICES

**Note** Please make sure the client device (e.g., laptop) is connected to the same network as the display.

#### Connecting to the Display

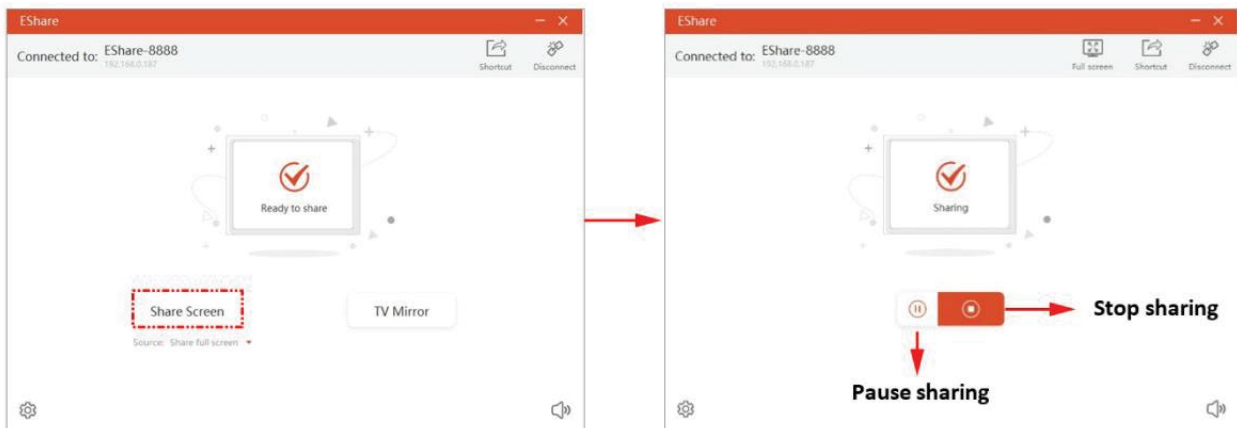
There are four ways to connect the client device to the display.



| CONNECTION METHOD                            | DESCRIPTION   |
|--|---|
| <b>Device Name</b><br>(Default Setting)      | Select the display's name from the Device List.   |
| <b>PIN Code</b>                              | Enter the PIN code found on the display.  |
| <b>Enter IP Address</b>                      | Enter the IP address found on the display.  |
| <b>Select the Device in the History List</b> | Click the input box "Enter IP or PIN code to connect" and a history list will appear (if applicable). Select the display to connect to. |

#### Screen Sharing

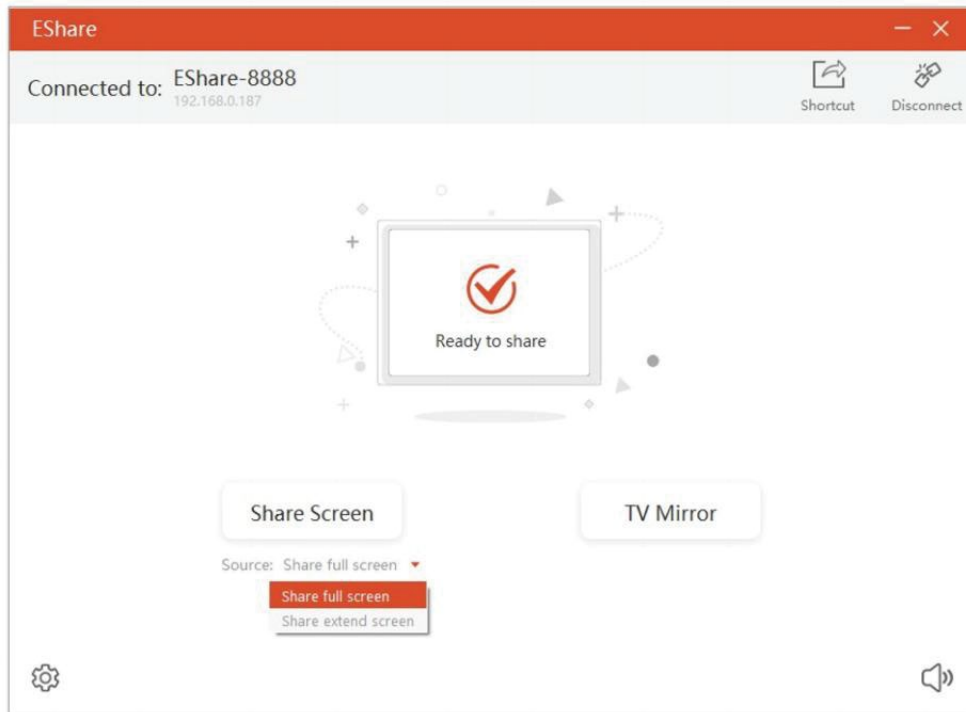
Select **Share Screen** to share the client device's screen to the display.



### Extend Screen

**Note** Only for Windows 10 1607 or later.

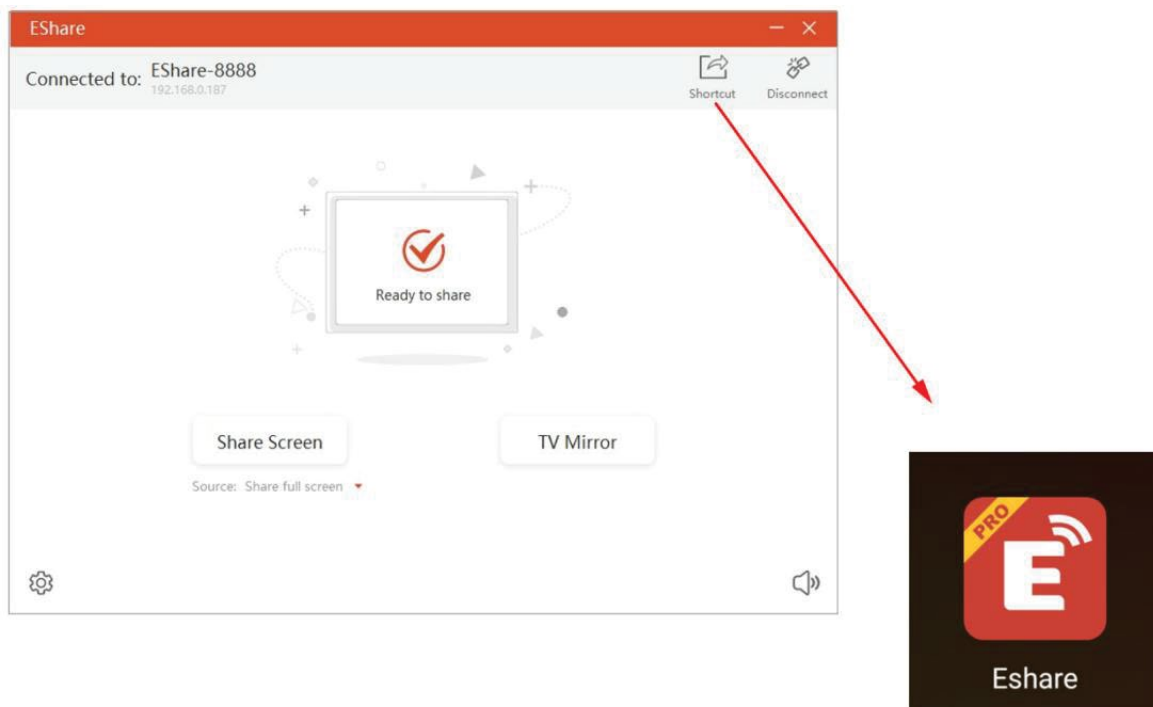
For Windows users, an extended screen can be shared by selecting **Source** then **Share extend screen**.



### Desktop Shortcut for Quick Screen Sharing

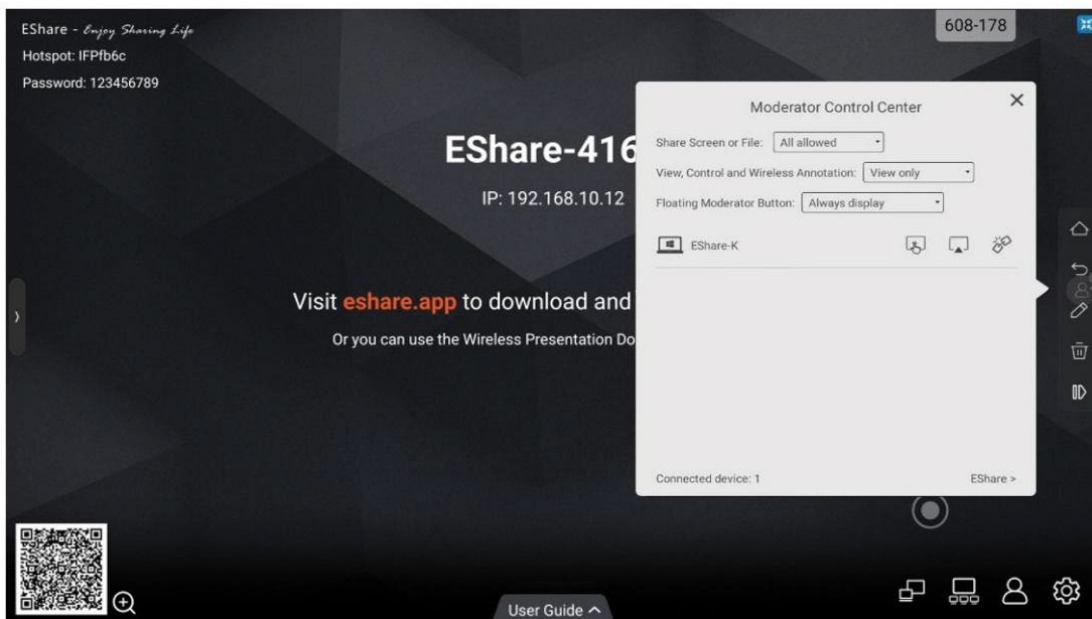
**Note** Only for Windows devices.

Once the client device is connected to the display, select **Shortcut** to create a desktop shortcut on the client device that will quickly share the client device's screen when selected.



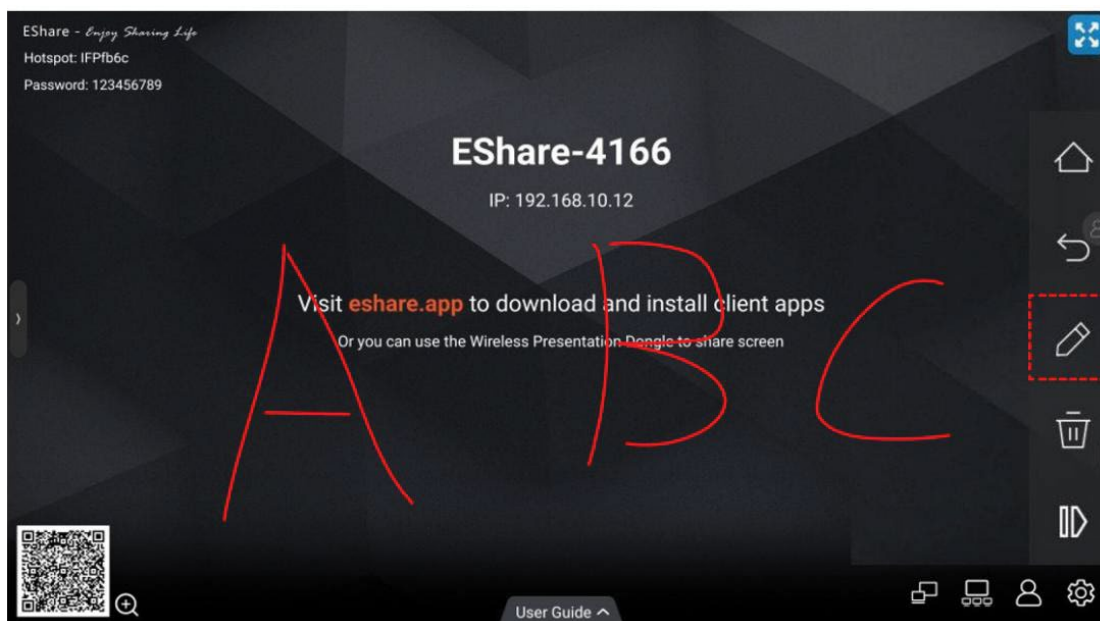
### TV Mirror

Select **TV Mirror** to mirror the screen of the display to the client device and control it.



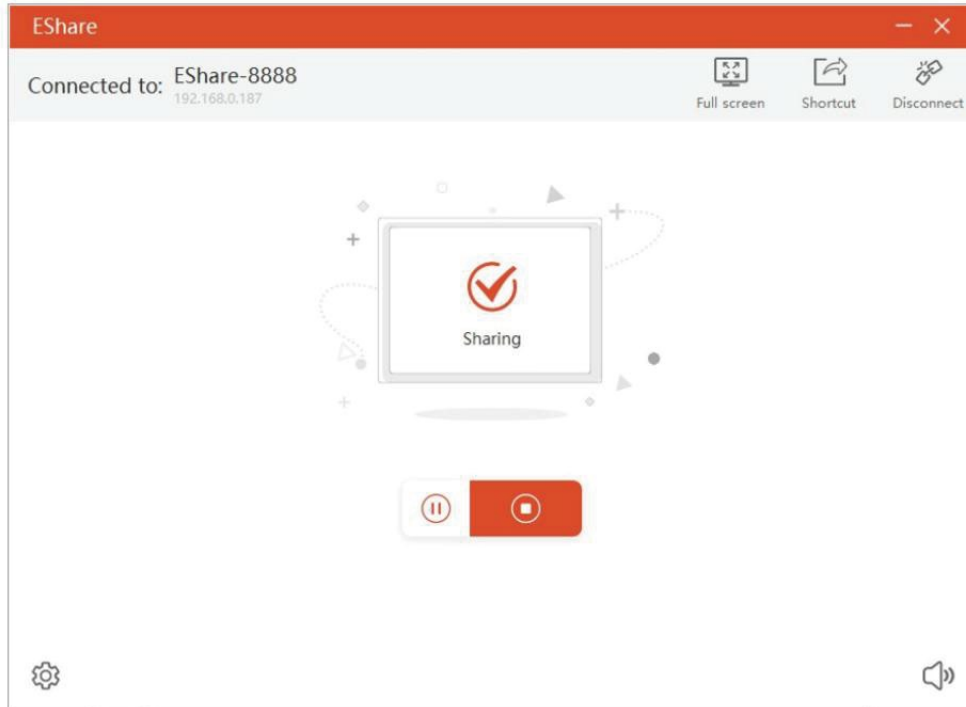
### Wireless Annotations

After selecting **TV Mirror**, select the pen icon to start wireless annotation on the display.



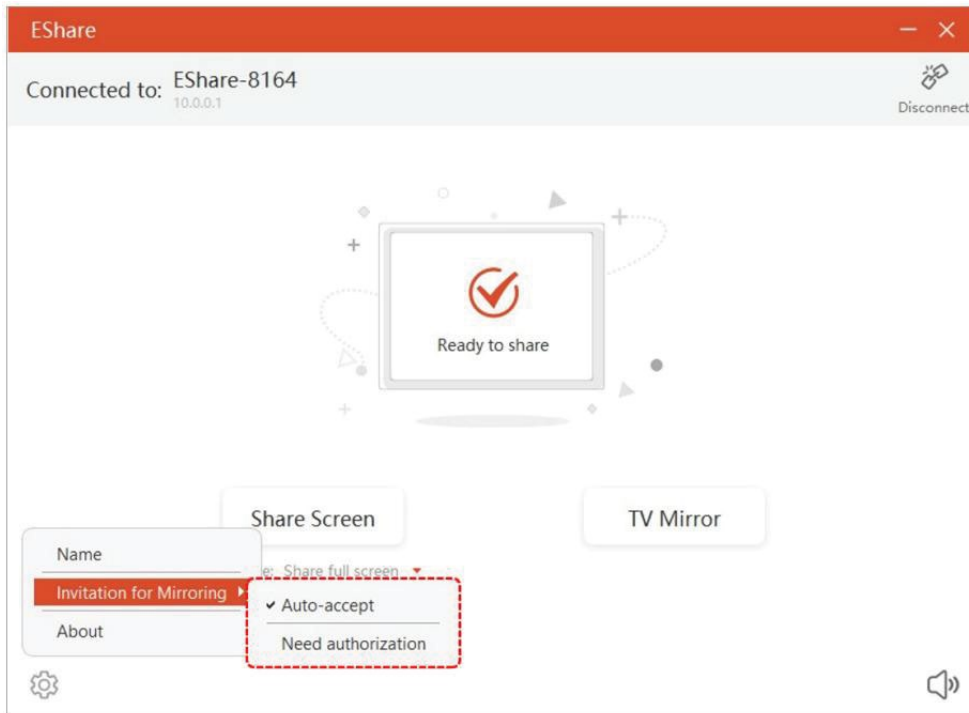
### Full Screen

If two or more client devices are sharing the display's screen, selecting **Full-Screen** will display a single client device's screen only.



### Invitation for Mirroring

Set the preference for when a moderator sends an invitation for screen sharing.

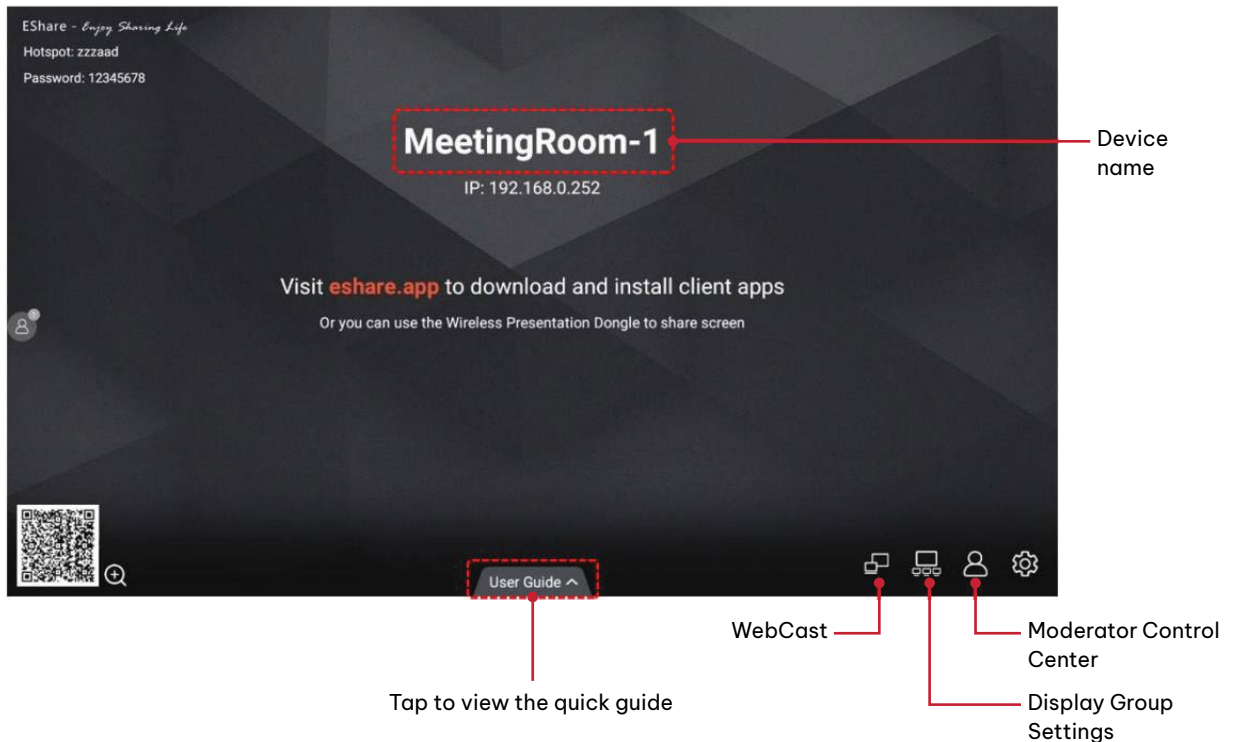


| ITEM                      | DESCRIPTION  |
|---------------------------|--|
| <b>Auto-accept</b>        | Automatically accept the invitation. When the Moderator selects <b>Screen Share</b> in the Moderator Control Center, the client device's screen will be shared on the display. |
| <b>Need authorization</b> | When the Moderator selects <b>Screen Share</b> in the Moderator Control Center, the client device's screen will not be shared until the invitation is accepted.                |

## 7.3 ESHARE PRO RECEIVER

### 7.3.1 KEY FEATURES

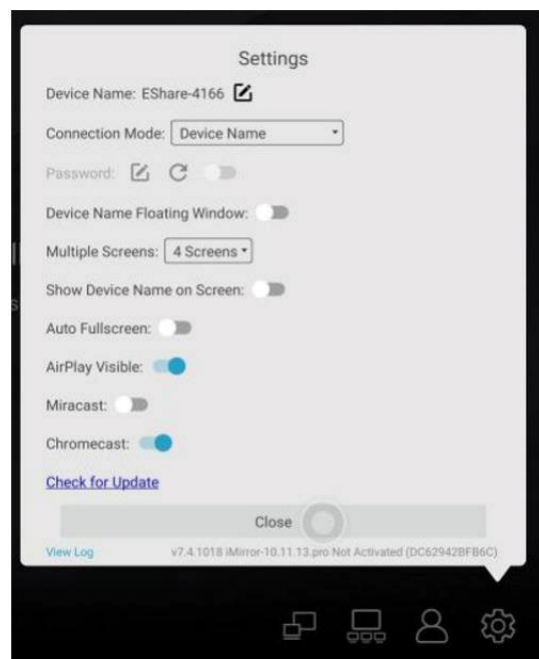
The main page of EShare Pro Receiver will show the network name, QR code, device name, IP address, and user guide. In the bottom right are the Display Group, Moderator Control Center, and Settings.



### 7.3.2 SETTINGS

Adjust the Device Name, Connection Mode, Multiple Screens, and other settings.

| ITEM                              | DESCRIPTION   |
|-----------------------------------|---|
| <b>Show Device Name on Screen</b> | When enabled, the client device's name will be shown in the top left of the display.  |
| <b>Auto Full Screen</b>           | When enabled, the client device's screen will cover the entire display screen.  |
| <b>AirPlay Visible</b>            | When enabled, iOS and macOS devices can share their screen with AirPlay directly. If disabled, the devices will need to use EShare client applications. |
| <b>Miracast</b>                   | When enabled, supported devices can share their screen with Miracast directly. If disabled, the devices will need to use EShare client applications.    |
| <b>Chromecast</b>                 | When enabled, supported devices can share their screen with Chromecast directly. If disabled, the devices will need to use EShare client applications.  |

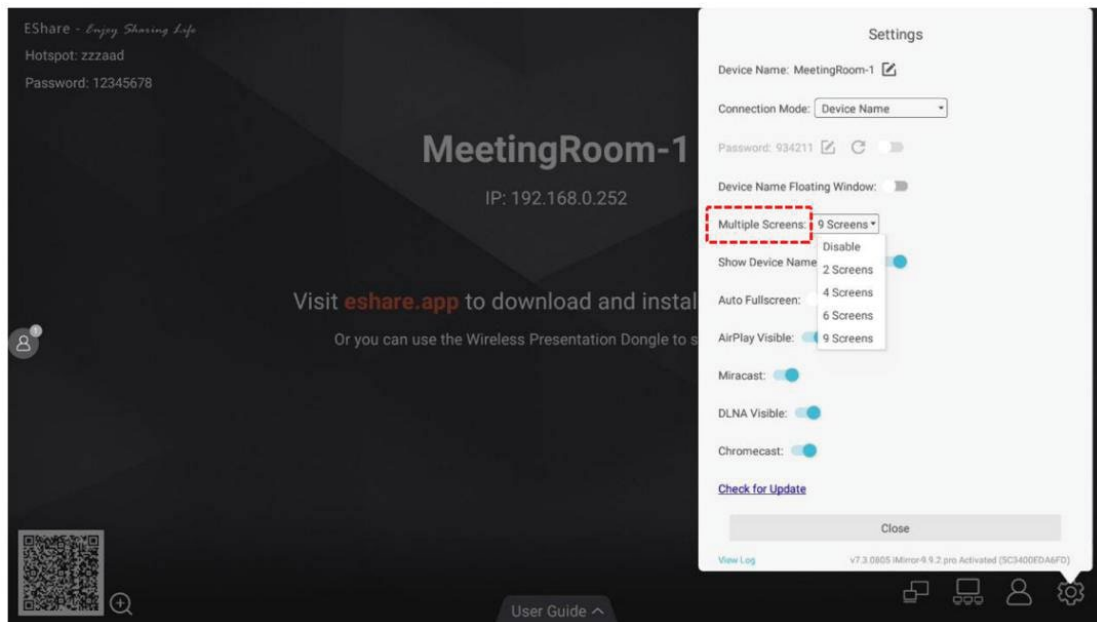


### 7.3.3 MULTIPLE SCREENS

#### Multiple Screens Setting

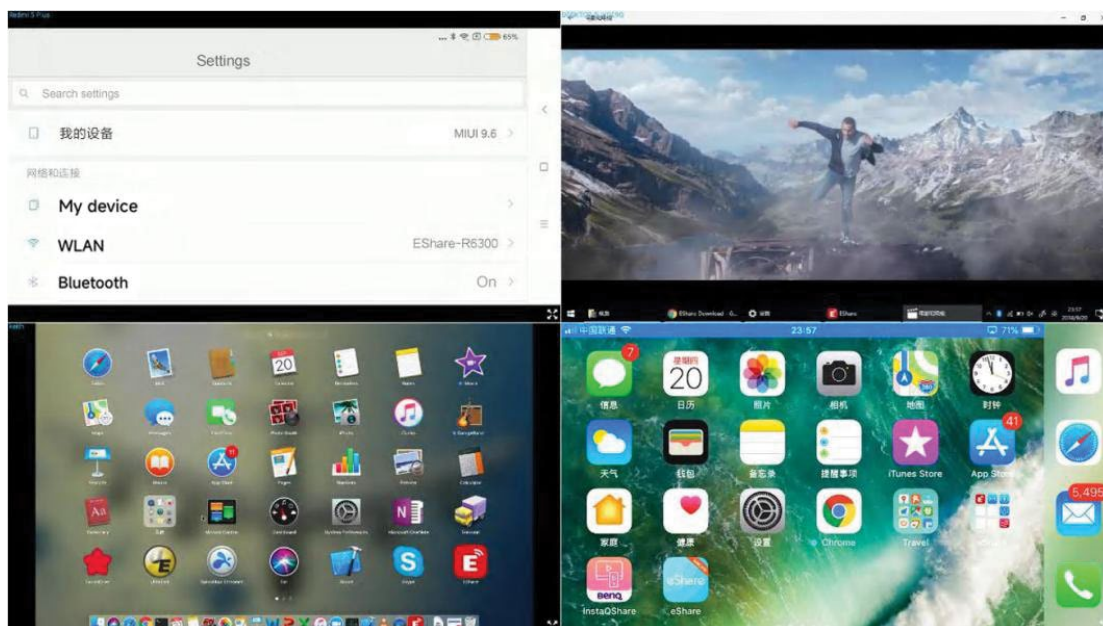
Select the **Settings** icon to set the number of Multiple Screens.

**Note** A maximum of nine screens can be set.



#### Multiple Screens Display

Multiple client device screens can be shared to the display at the same time and the display screen will be split automatically.



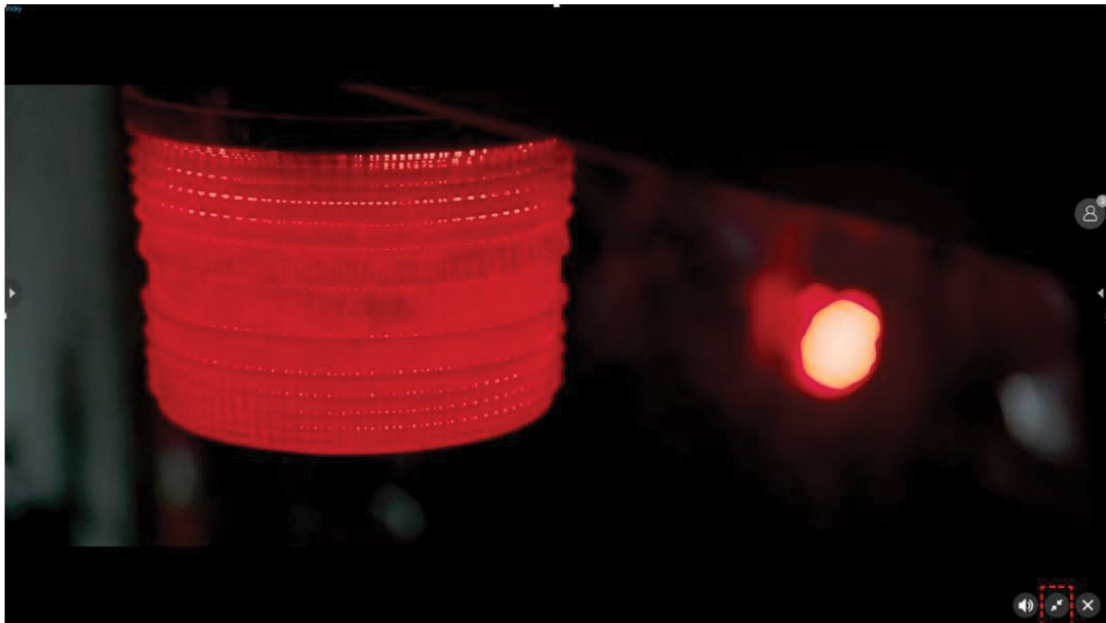
**Switch the Audio Source**

The audio of the last sharing device will be output by default from the display when in Multiple Screen mode. Selecting any one of the split windows on the display will change the audio output source.

**Note** For Android phones with Android 10.0 or later, audio can be played through the display while mirroring only if the other applications allow their audio to be recorded. For Android 9.0 or before, the audio cannot be casted as Google doesn't share the API needed for audio casting. The audio of those Android phones while screen sharing will only be output from the phone.

**Full Screen or Multiple Screens**

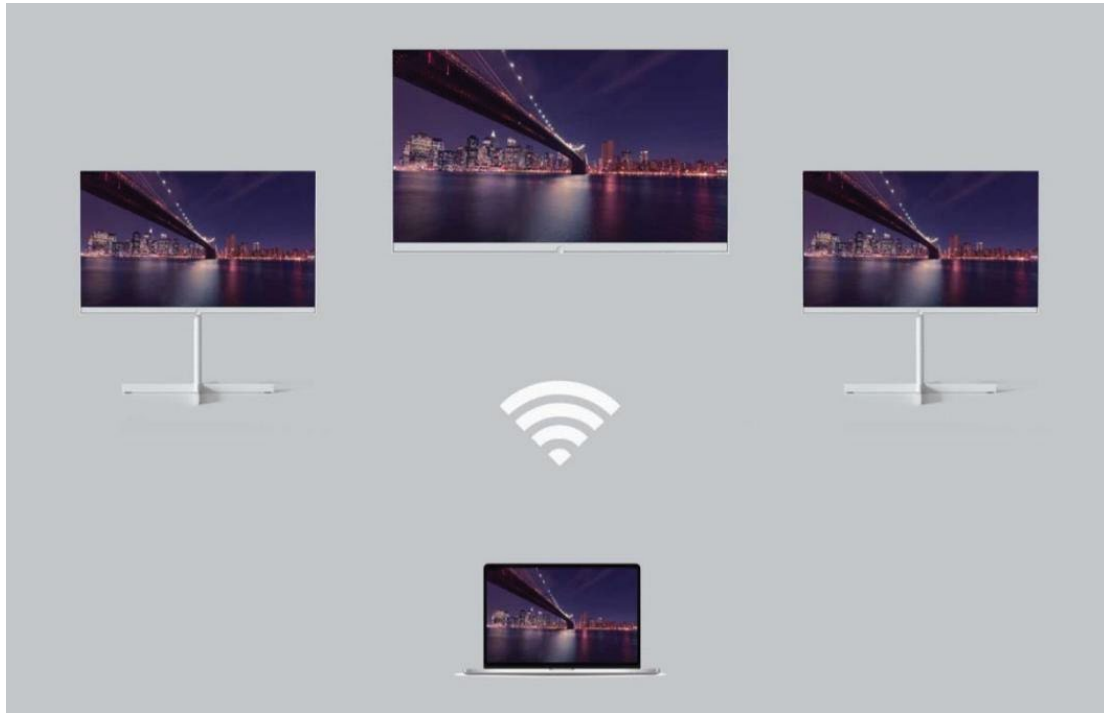
Select the **Full Screen** icon at the bottom right of the display when in Multiple Screen mode to change the aspect ratio to full screen. Select the icon again to exit Full Screen mode and go back to Multiple Screen mode.



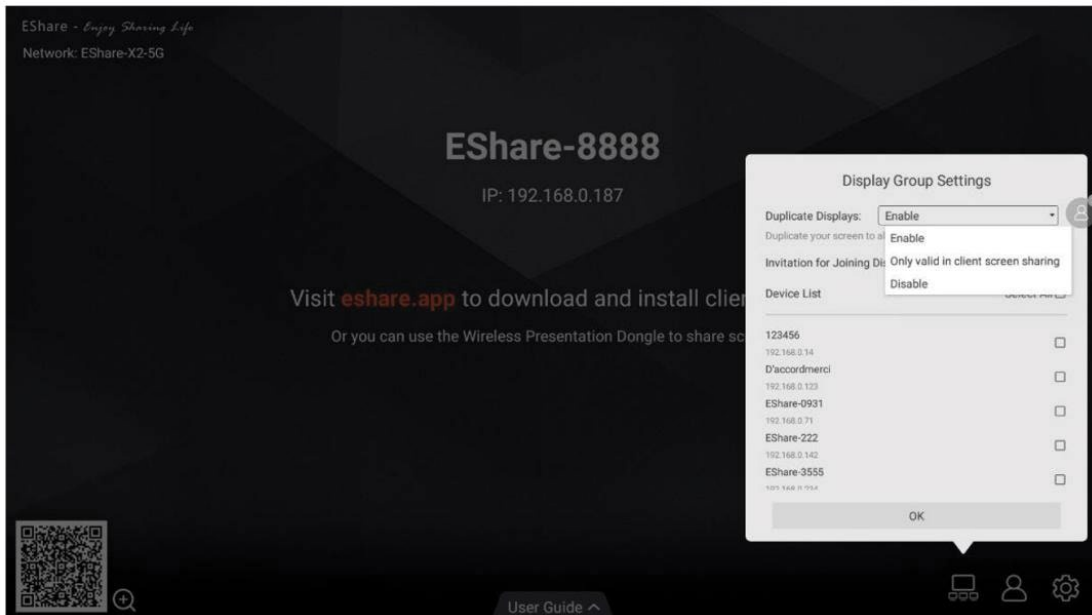
### 7.3.4 DISPLAY GROUP

The main screen can be duplicated to multiple displays simultaneously, and the client device can also be mirrored to multiple receiver displays.

**Note** EShare Pro must be installed and activated and the devices are on the same Local Area Network (LAN).

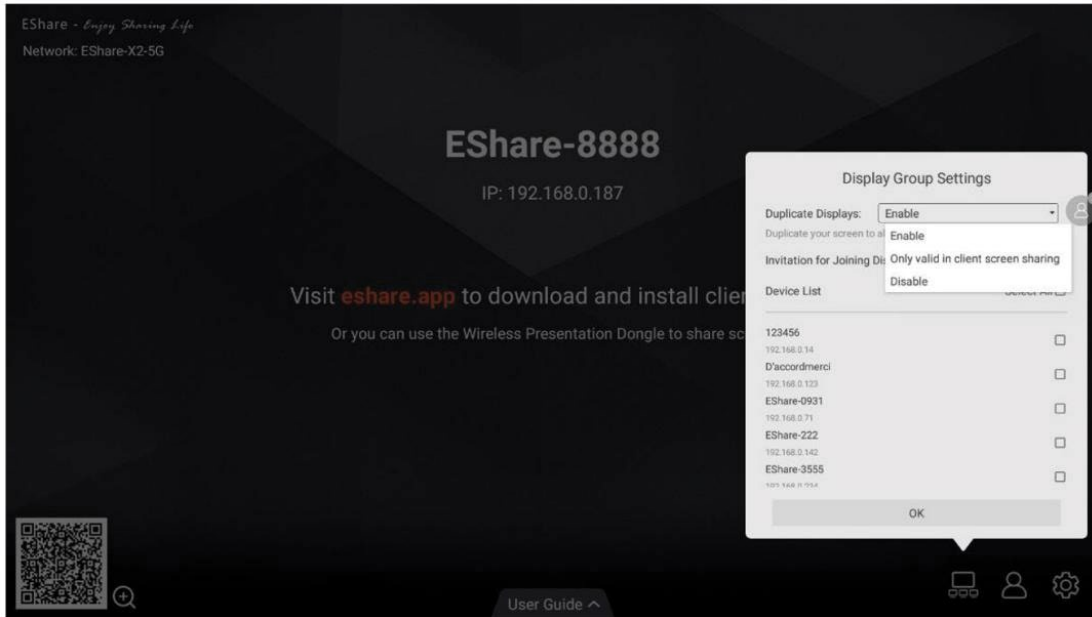


#### Options for Duplicate Displays



| ITEM                                       | DESCRIPTION   |
|--|---|
| <b>Enable</b>                              | Other EShare Pro preinstalled displays in the same network (if any) will be listed. Select a display to add to the display group, then select OK to apply the settings. |
| <b>Only valid in client screen sharing</b> | Only when the sender is casting a screen, will the devices in the display group be synchronized to the display.   |
| <b>Disable</b>                             | Disable the Display Group feature.  |

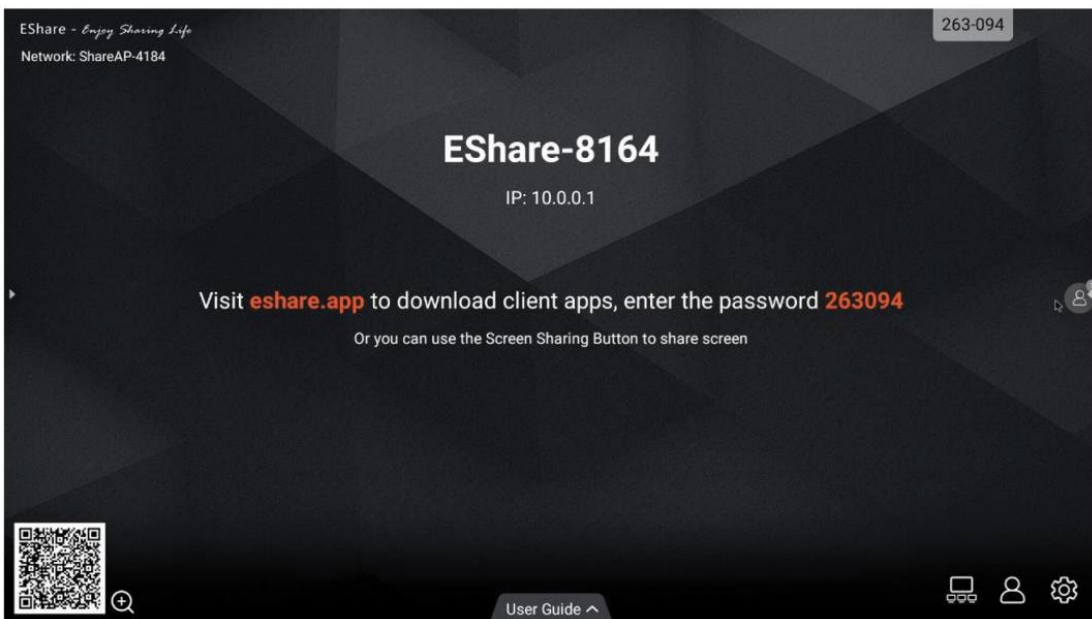
**Options for Invitation**



| ITEM               | DESCRIPTION  |
|--------------------|--|
| <b>Auto-accept</b> | Other displays can share their screen to this display without any permissions.   |
| <b>Notify me</b>   | You will see a dialog box when your screen is invited to join the group, and other displays can share their screen to this display only when you allow the invitation. |
| <b>Disable</b>     | All display group invitations will be automatically rejected.  |

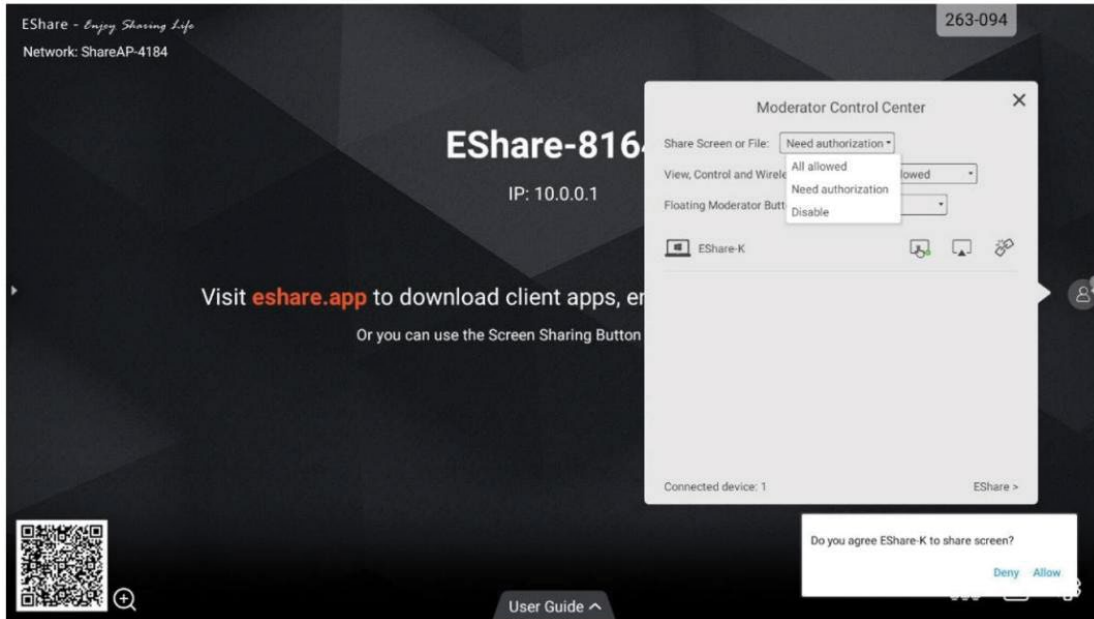
**7.3.5 MODERATOR CONTROL CENTER**

Select the **Moderator Control Button** in the bottom right corner to enter the Moderator Control Center. The Moderator Control Center can also be entered by selecting the floating moderator button.



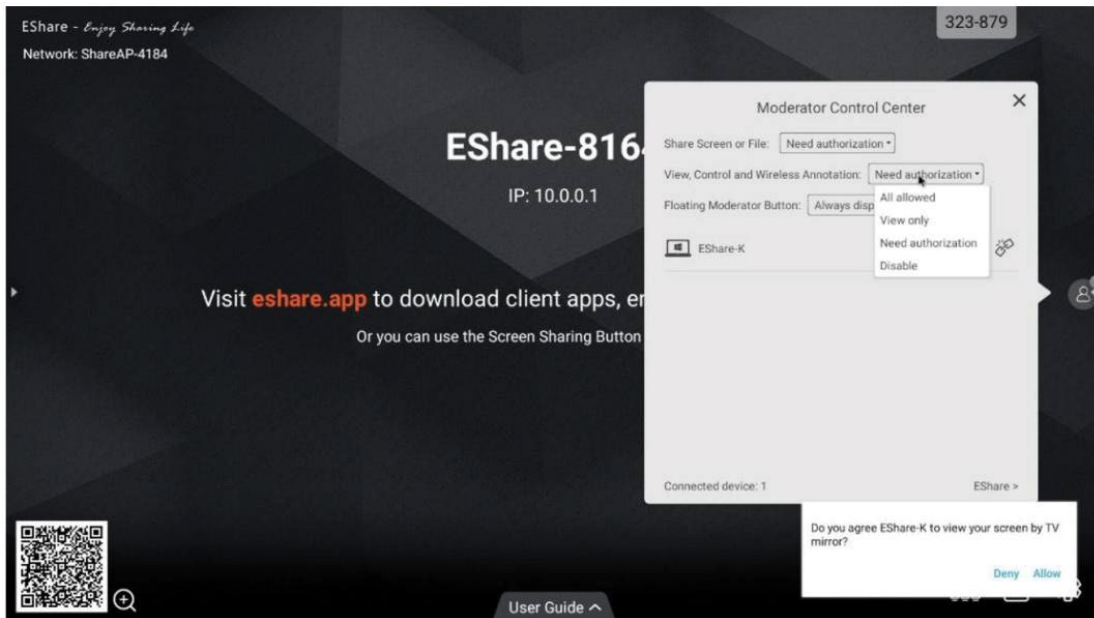
| ITEM               | DESCRIPTION  |
|--------------------|--|
| <b>Auto-accept</b> | Other displays can share their screen to this display without any permissions.   |
| <b>Notify me</b>   | You will see a dialog box when your screen is invited to join the group, and other displays can share their screen to this display only when you allow the invitation. |
| <b>Disable</b>     | All display group invitations will be automatically rejected.  |

## Options for Screen Sharing



| ITEM                      | DESCRIPTION  |
|---------------------------|--|
| <b>All allowed</b>        | Client devices can share their screen or share image/audio/ video files to the display. The client application for iOS or Android can also share the camera to the display in real-time.   |
| <b>Need authorization</b> | Client devices can share their screen or share image/audio/ videos files or camera to the display only when the option “Allow” is selected in the authorization dialog for screen sharing. |
| <b>Disable</b>            | No client device can share image/audio/video files or camera.  |

## Options for View, Control, and Wireless Annotation

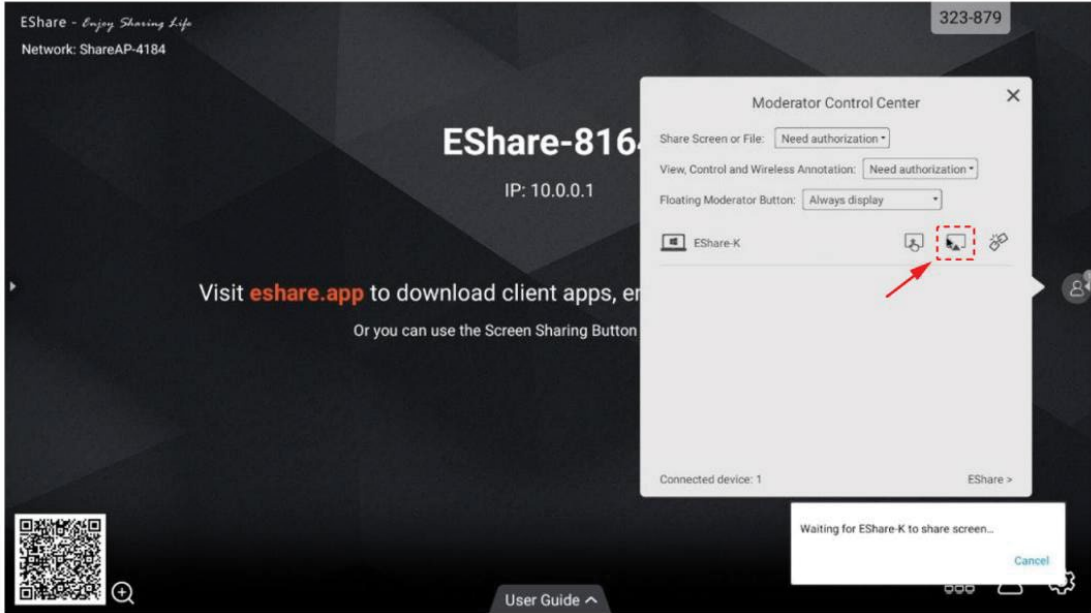


| ITEM                      | DESCRIPTION   |
|---------------------------|---|
| <b>All allowed</b>        | Client devices can view and control the display. They can also do annotations in TV Mirror or Remote Control mode.  |
| <b>View Only</b>          | Client devices can view the display in TV Mirror but cannot control the display or do annotations.  |
| <b>Need authorization</b> | Client devices can view and control the display. They can also do annotations in TV Mirror or Remote Control mode only when the option “Allow” is selected in the authorization dialog. |
| <b>Disable</b>            | No client device can view or control the display in TV Mirror or Remote Control mode.   |

### Other Options in the Moderator Control Center

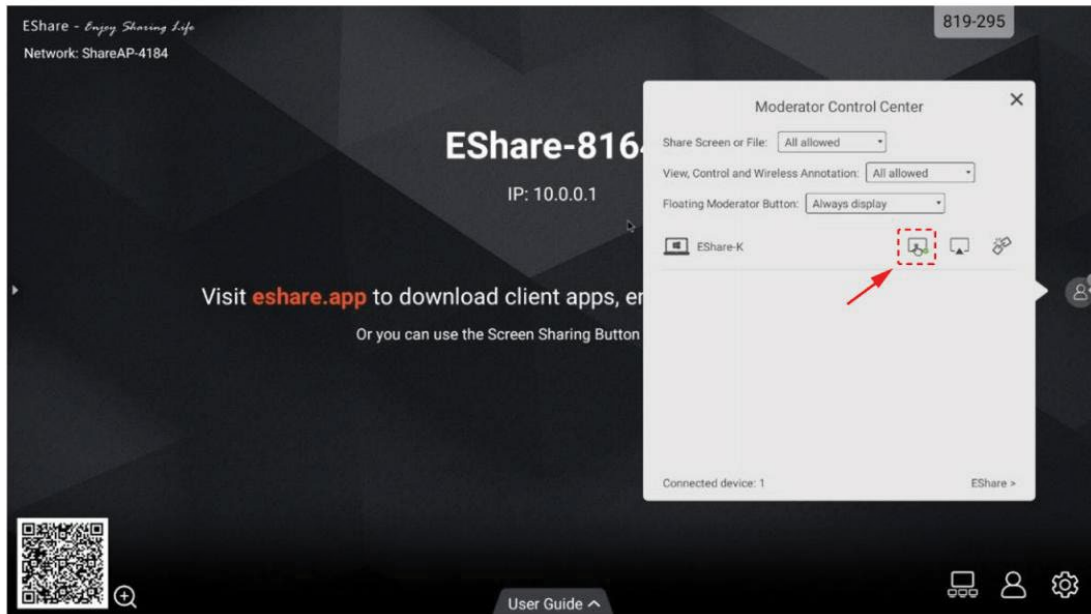
**Note** The client device needs to be connected to the display.

- Invite the Client Device to Share Their Screen



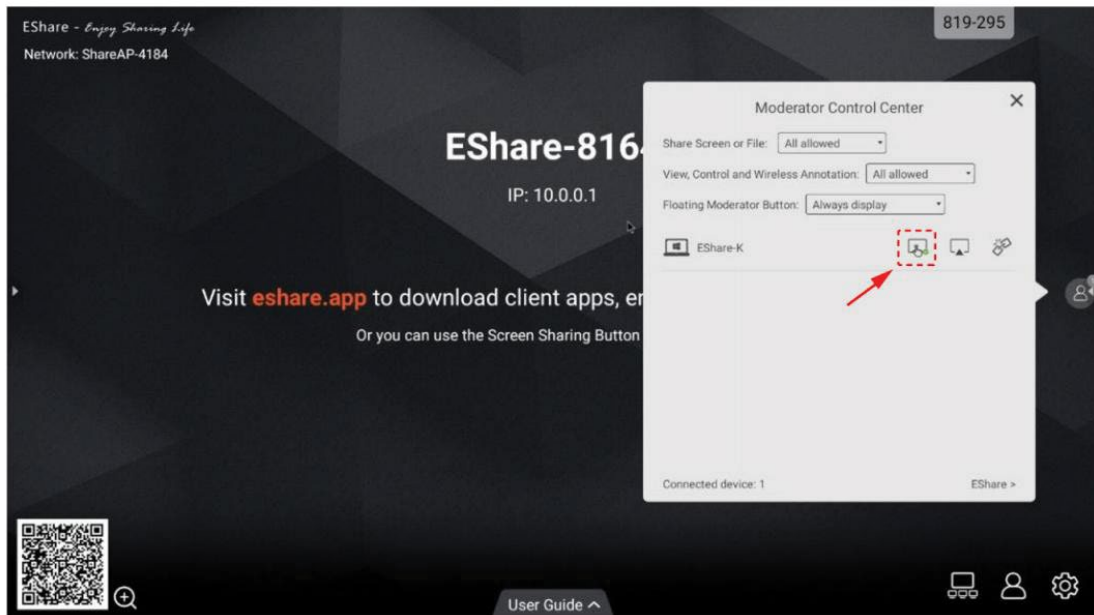
Select any one client device in the Moderator Control Center, and select the button to invite the client device to share their screen. Select this button to stop sharing when the client device is sharing their screen.

- Allow the Client Device to Control the Display



Select the **Screen Control** button to enable or disable the client’s control permission for the display. If this button is marked with a small green tick, it means the client can control the display.

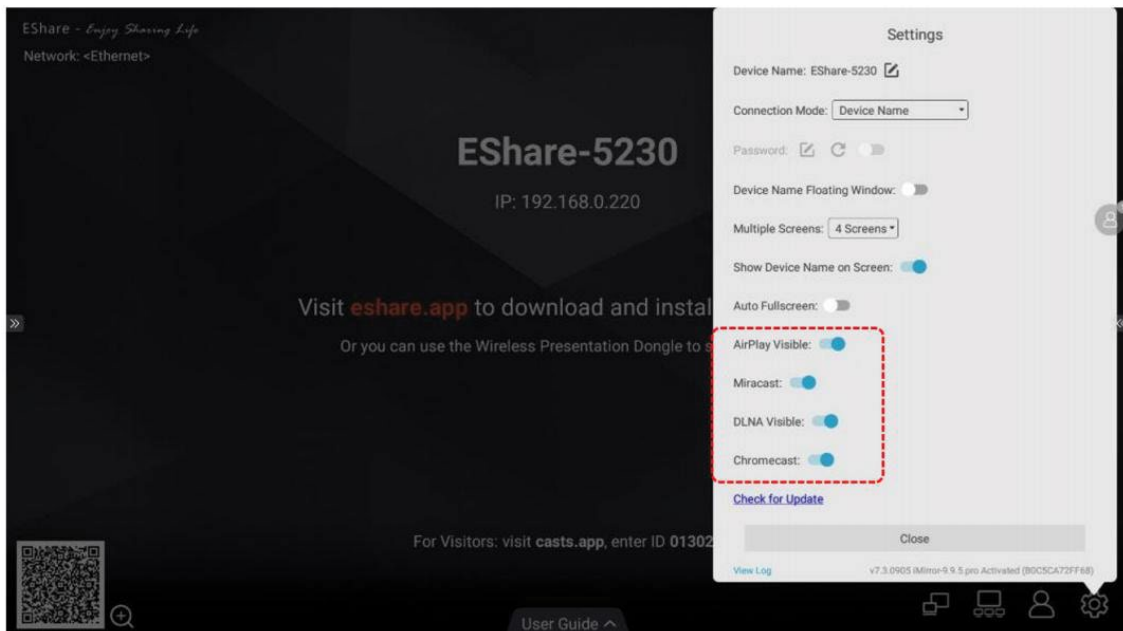
- **Disconnect the Client Device**



Select the **Disconnect** button and then **OK** in the dialog box to disconnect the client device.

## 7.4 CASTING WITHOUT ESHARE

If the AirPlay, Miracast, Chromecast and DLNA applications are preinstalled on the display, you can find the corresponding switches on the EShare Pro settings page to enable them.

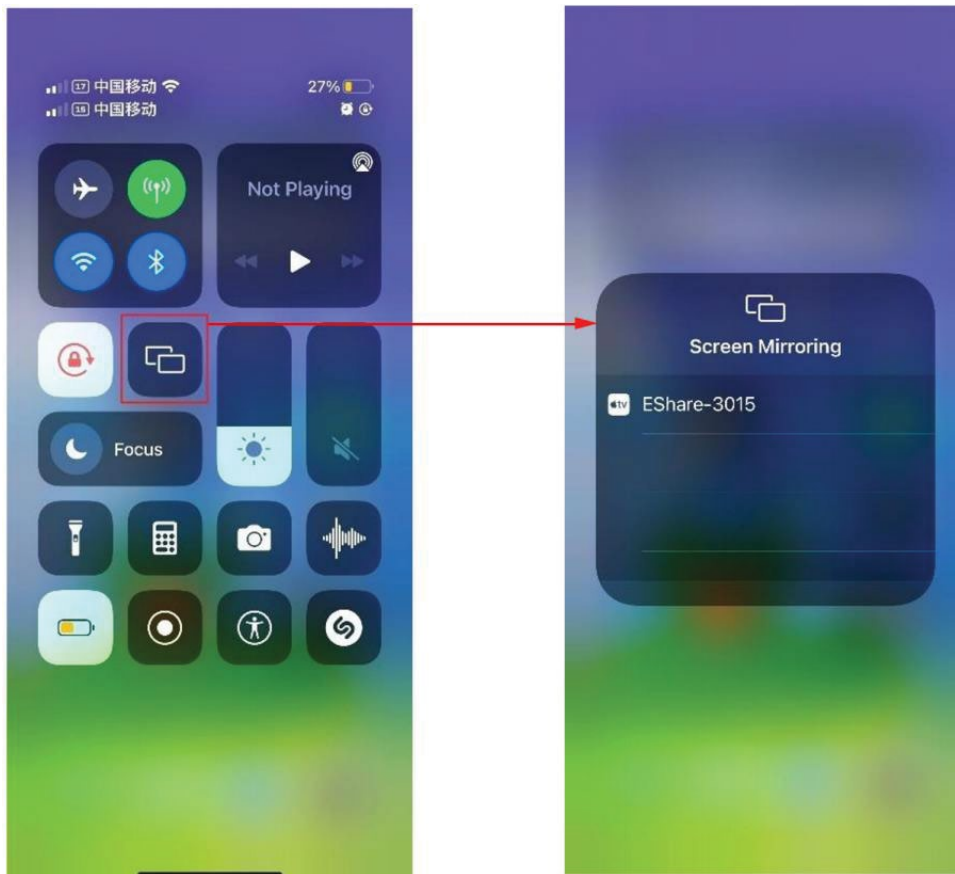


## 7.5 AIRPLAY

With AirPlay enabled, Apple devices (e.g., iPhone, iPad, MacBook, iMac) can cast content to the display.

### For iPhones:

Directly select Screen Mirroring then select the display to cast to.



### For MacBooks:

Directly select Screen Mirroring then select the display to cast to.



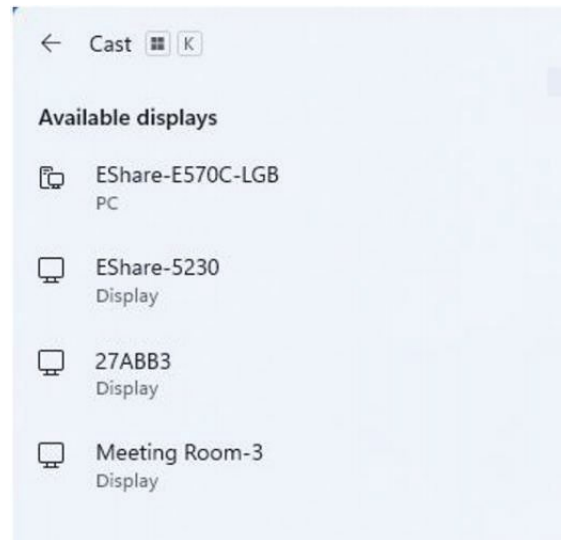
## 7.6 MIRACAST

Wirelessly cast content from Windows and Android devices to the display.

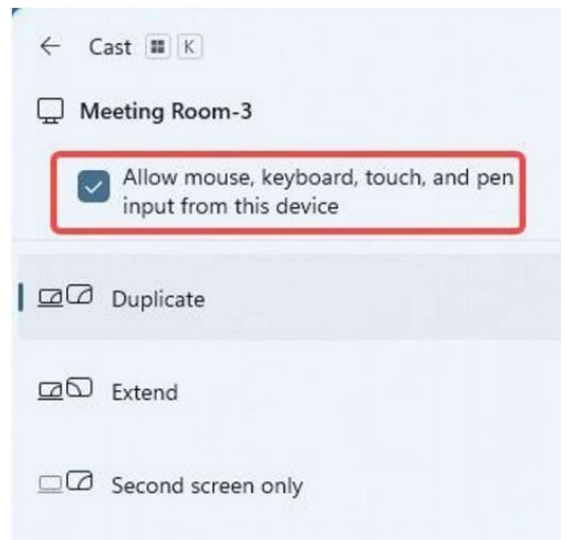
**Note** Please make sure the Windows and Android devices are connected to the same network as the display.

### For Windows devices:

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



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



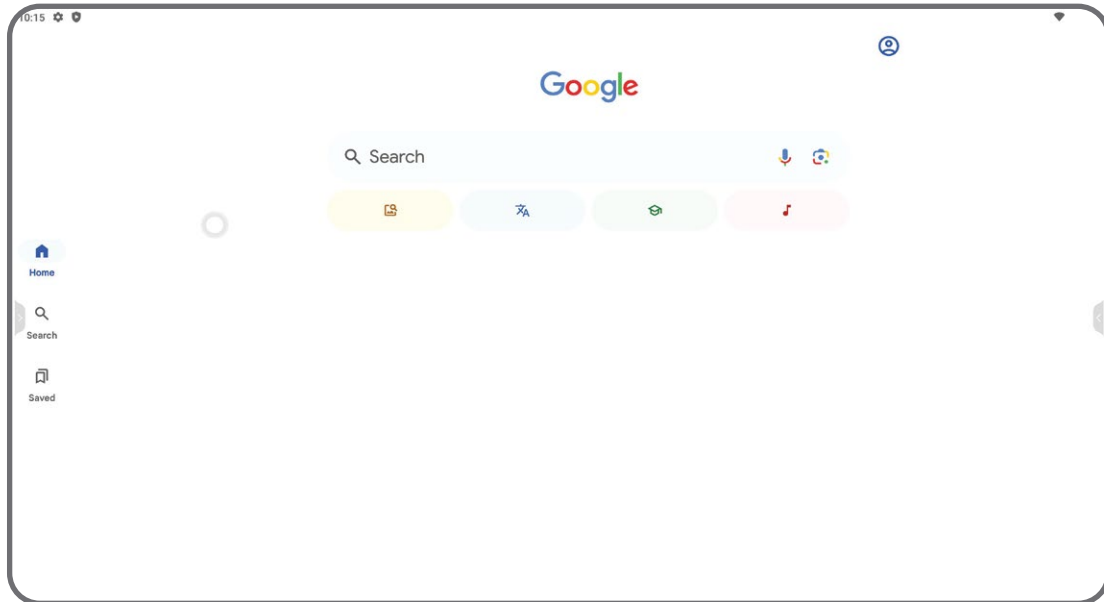
### For Android devices:

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


## 8. OTHER DEFAULT APPLICATIONS

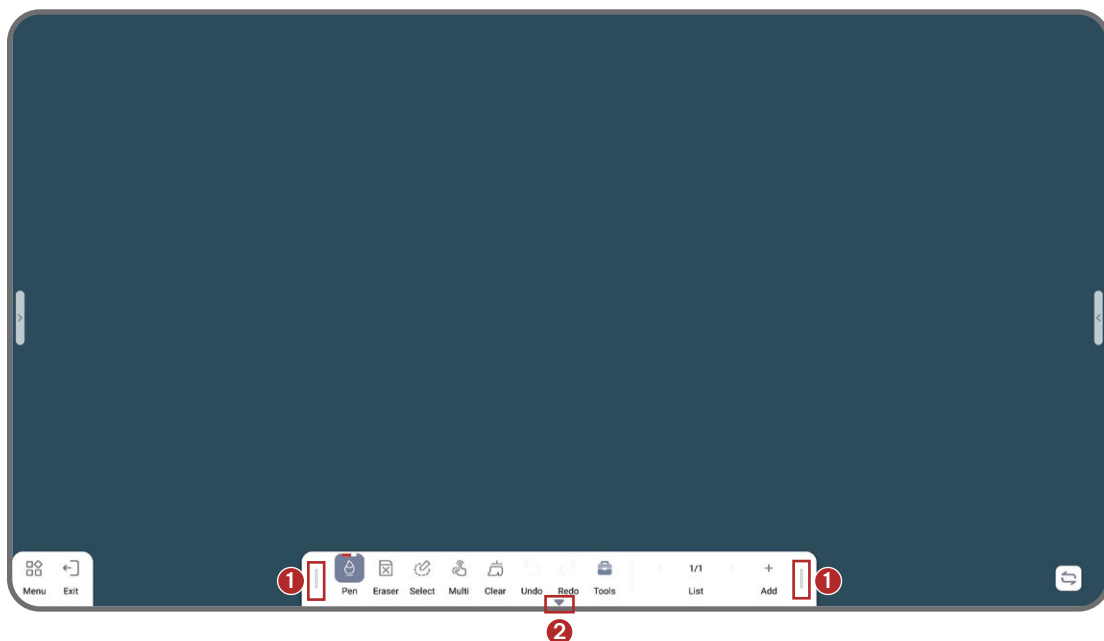
### 8.1 BROWSER

Web browser for surfing the Internet.



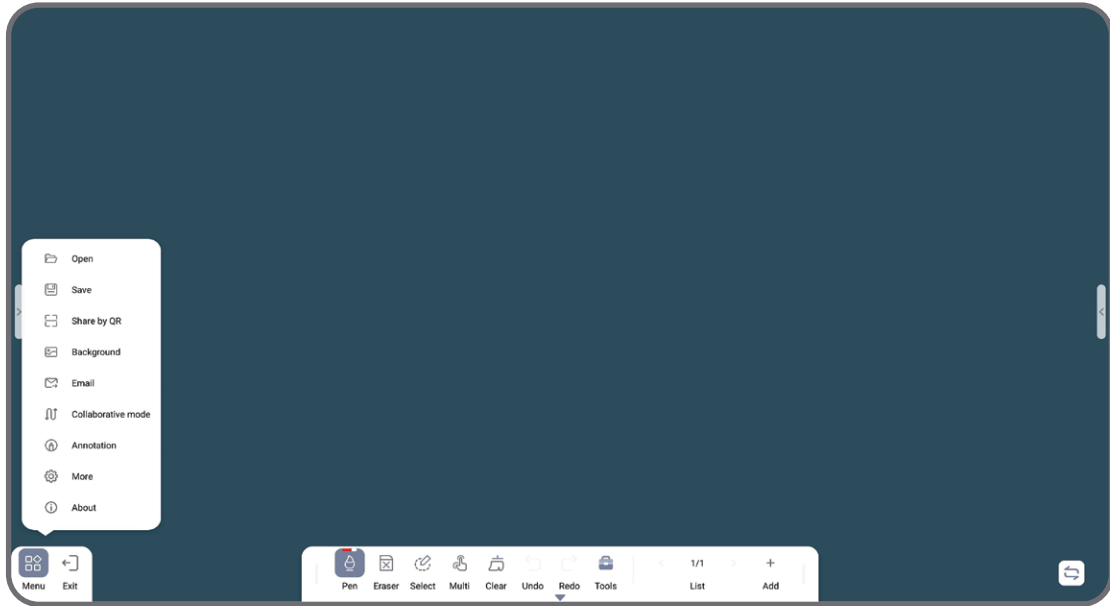
### 8.2 WHITEBOARD





Select the Whiteboard icon (  ) to open the whiteboard application.


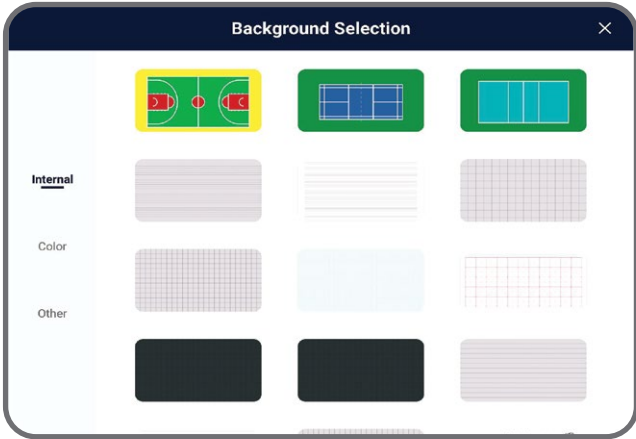

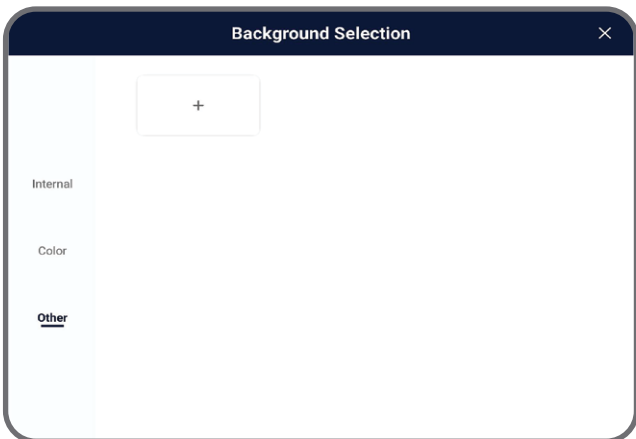



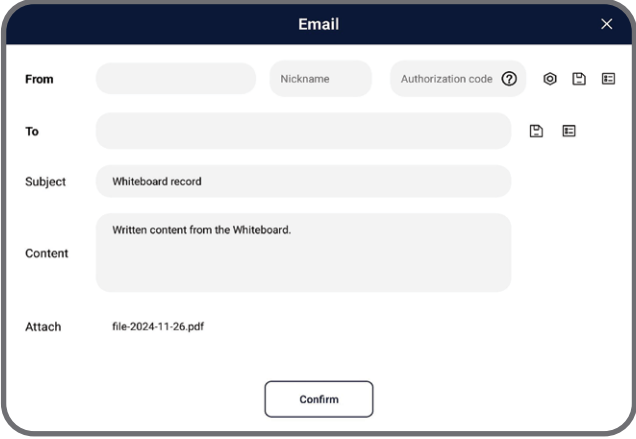









| ITEM | DESCRIPTION   |
|------|---|
| 1    | Touching "   " with a single finger and move it to the left or right side, and the bottom toolbar will be moved to the same side. |
| 2    | The button toolbar will be concealed after the hide cursor option is selected.  |

8.2.1 MENU

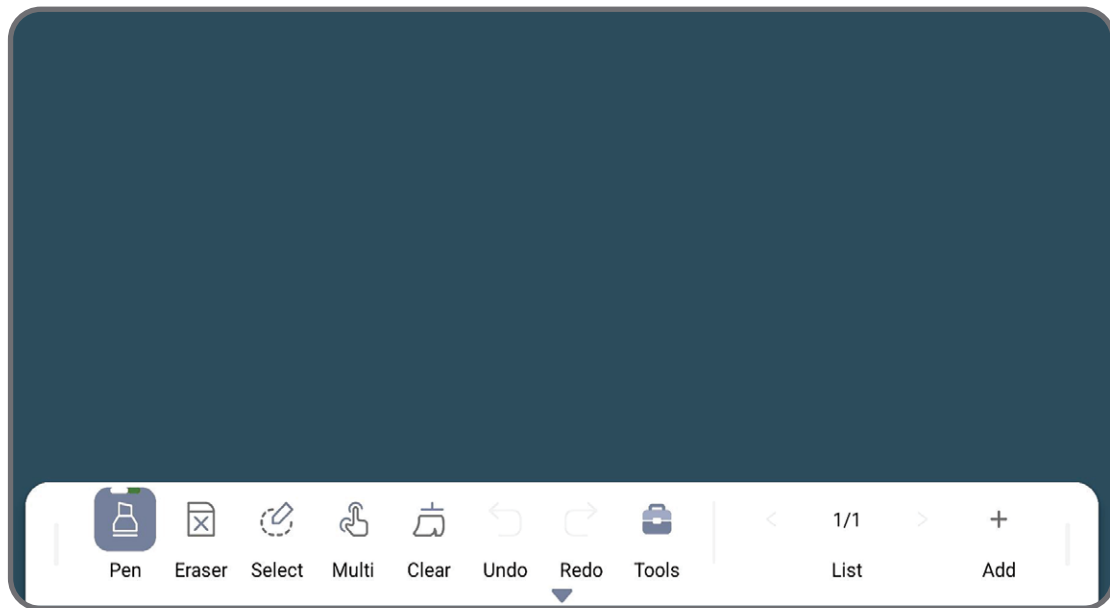



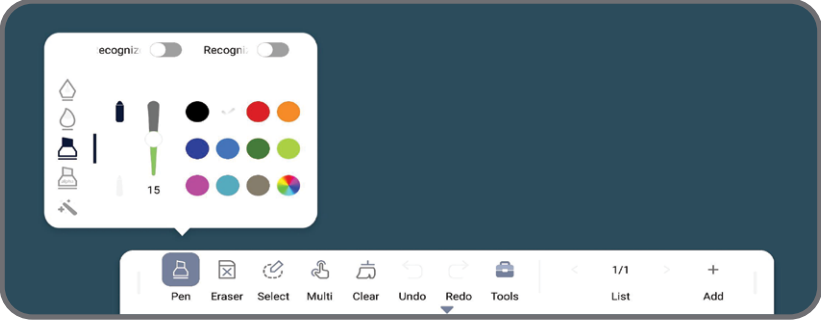






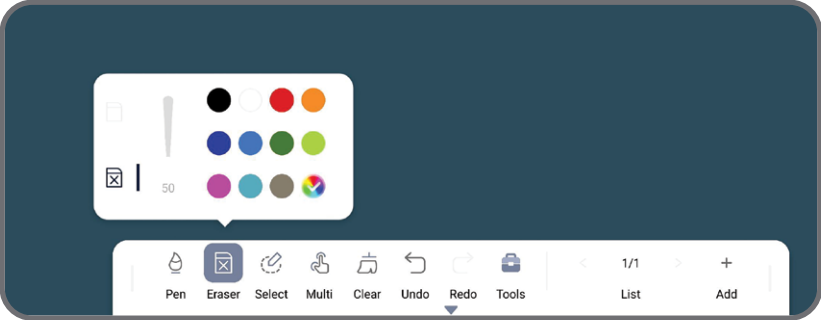
| ITEM  | DESCRIPTION   |
|---|---|
| <br><b>Open</b>        | <p>This function supports the user to find a file to open or import to the whiteboard in the following pages.</p>   |
| <br><b>Save</b>        | <p>Users could save the current whiteboard content in specific format to a specified location.</p>  |
| <br><b>Share by QR</b> | <p>This feature supports users to share the whiteboard content to external devices (e.g., mobile phones, tablets) using QR codes under network connection.<br/>                 This function contains two sharing modes, <b>LAN sharing</b> and <b>WAN sharing</b>.<br/> <b>Encryption function</b> is also supported for improve the security of transmission.</p> <div data-bbox="715 1447 1118 1904" style="border: 1px solid gray; border-radius: 15px; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;"><b>Share by QR</b></p> <div style="text-align: center;">  </div> <p style="text-align: center;">Encrypt: <input type="checkbox"/></p> <hr style="width: 50%; margin: 0 auto;"/> <p style="text-align: center;">LAN   WAN</p> </div> |


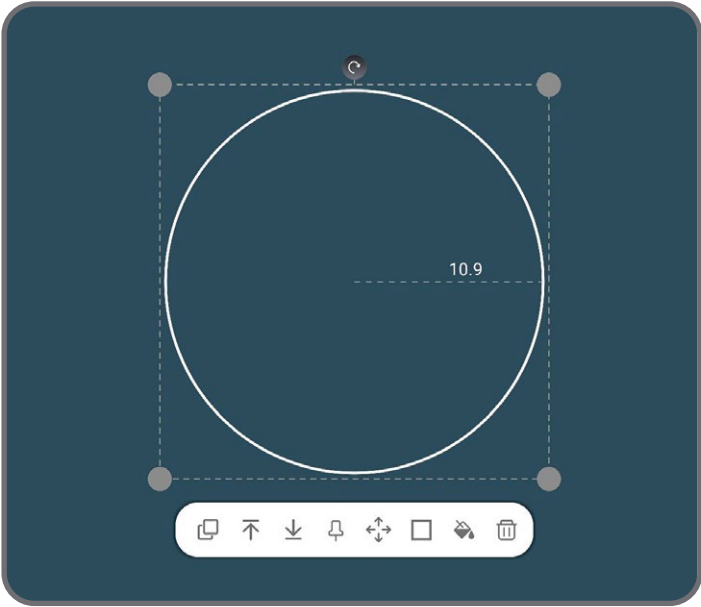




| ITEM  | DESCRIPTION   |
|---|---|
|  <p data-bbox="167 1124 300 1153">Background</p> | <p data-bbox="363 309 1316 338">Users could customize their preferred whiteboard backgrounds in the following three modes.</p> <div data-bbox="598 347 1236 784" style="border: 1px solid #ccc; padding: 10px; margin-bottom: 10px;">  </div> <p data-bbox="363 801 1109 831"><b>Built-in backgrounds:</b> Users could choose from 15 built-in backgrounds.</p> <div data-bbox="598 840 1236 1276" style="border: 1px solid #ccc; padding: 10px; margin-bottom: 10px;">  </div> <p data-bbox="363 1294 1340 1346"><b>Color backgrounds:</b> Users can set solid backgrounds, or customize colors in the color panel as background.</p> <div data-bbox="598 1355 1236 1792" style="border: 1px solid #ccc; padding: 10px; margin-bottom: 10px;">  </div> <p data-bbox="363 1809 1428 1861"><b>Other backgrounds:</b> Users can import images from the device's storage space, external USB sticks and network drives.</p> |

| ITEM   | DESCRIPTION  |
|--|--|
|  <p><b>E-mail</b></p>               | <p>Email content from whiteboard directly.</p>  <ul style="list-style-type: none"> <li> – Authorization code instruction.</li> <li> – Click to save the sender/receiver.</li> <li> – Configure email address.</li> <li> – Sender/recipient contact list.</li> </ul> |
|  <p><b>Collaborative mode</b></p> | <p>Opening two machines with whiteboard collaboration function simultaneously in the same LAN, fill in the IP of the other party, and once the connection is successful, the collaboration function can be performed.</p>  |
|  <p><b>Annotation</b></p>         | <p>This is a shortcut that is given to the user to leave the whiteboard and to open the annotations.</p>   |
|  <p><b>More</b></p>               | <p>Switch pen thickness recognition.</p>   |
|  <p><b>About</b></p>              | <p>Here displays the version of the accelerate library and the whiteboard.</p>   |
|  <p><b>Exit</b></p>               | <p>Close the whiteboard APP.</p>   |

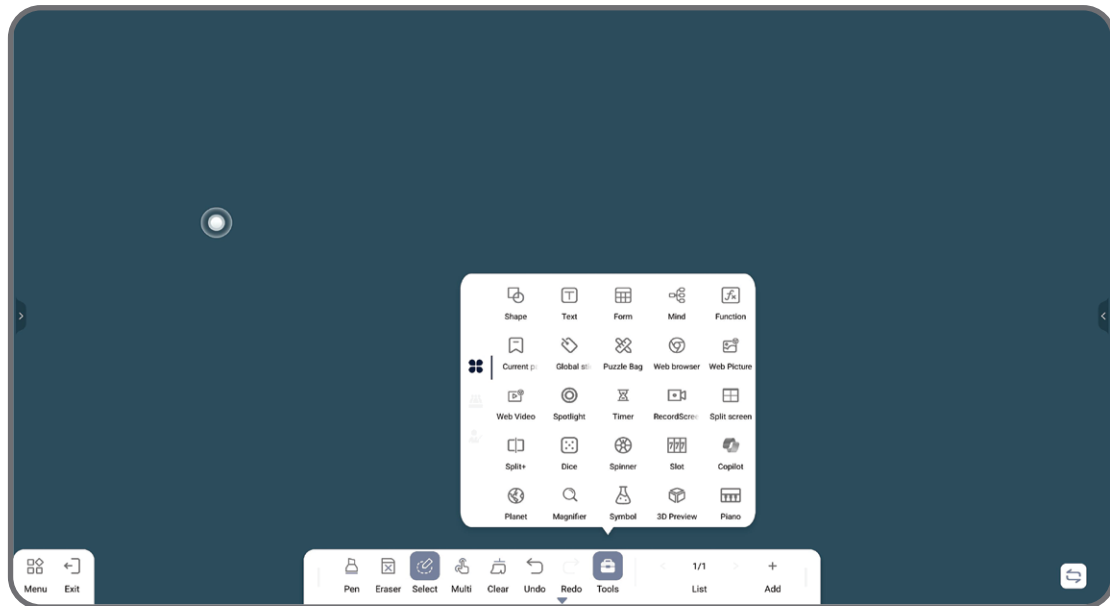
## 8.2.2 BOTTOM TOOLBAR



















| ITEM   | DESCRIPTION   |
|--|---|
|  <p><b>Pen</b></p>    | <p>Writing tools with customization options.</p>  <div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="text-align: center;">  <p>– Regular Pen;</p> </div> <div style="text-align: center;">  <p>– Brush Pen;</p> </div> <div style="text-align: center;">  <p>– Ink Pen;</p> </div> <div style="text-align: center;">  <p>– Mark Pen;</p> </div> <div style="text-align: center;">  <p>– Magic Pen;</p> </div> </div> |
|  <p><b>Eraser</b></p> | <p>Select to erase canvas content.</p>    |


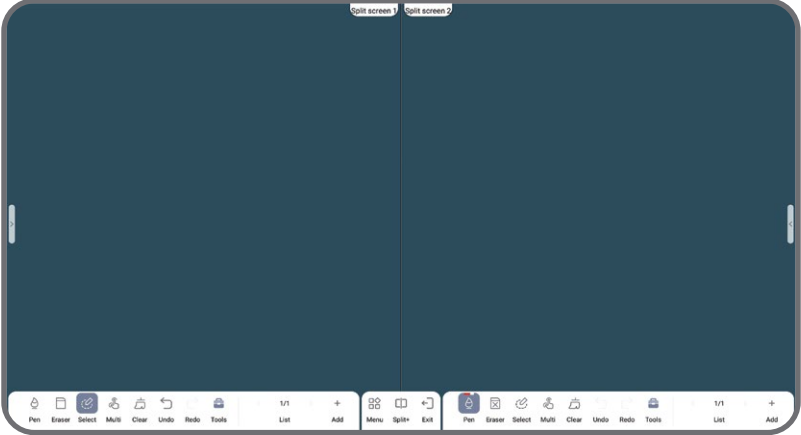








| ITEM  | DESCRIPTION   |
|---|---|
| <br><b>Select</b>  | Select elements on the canvas<br> |
| <br><b>Multi</b>  | Choose between single point and multiple point (up to 20 points) input.   |
| <br><b>Clear</b> | Clear all the whole page.   |
| <br><b>Undo</b>  | Undo the last action.   |
| <br><b>Redo</b>  | Redo the previously undone action.  |


## 8.2.3 TOOLS



| ITEM  | DESCRIPTION   |
|---|---|
| <br><b>Shape</b>         | <p>Draw various types of graphics on the canvas.</p>  |
| <br><b>Text</b>          | <p>Input text;<br/>                     After input the text, select the language you want to translate, click the translation button, then you can translate it into the language you choose.</p>  |
| <br><b>Select</b>        | <p>Shows the table, set the number of rows and columns of the table, currently you can write a line in any item of the table, and the line is bound to this item, you can move, copy, delete, zoom and other operations, and bind at the same time Data is operated synchronously. After the table is circled, you can add or delete rows and columns to the table in real time, and bind the data synchronously to correct the position.</p> |
| <br><b>Form</b>          | <p>Shows the table, set the number of rows and columns of the table, currently you can write a line in any item of the table, and the line is bound to this item, you can move, copy, delete, zoom and other operations, and bind at the same time Data is operated synchronously. After the table is circled, you can add or delete rows and columns to the table in real time, and bind the data synchronously to correct the position.</p> |
| <br><b>Mind</b>          | <p>A smart mind map that supports moving, changing ownership, editing text, adding and deleting nodes, and switching layouts. This operation is flattening and takes effect in real time.</p>   |
| <br><b>Current page</b>  | <p>The Current page note identifies what to focus on in the current page and is only displayed on the current whiteboard page. The sticky note is also cleared when the Clear function is used.</p>   |
| <br><b>Global sticky</b> | <p>Global sticky note could be displayed under all whiteboard pages and cannot be cleared by the eraser. When users need to modify a sticky note, they can double-click the global sticky note to enter the edit mode for text editing, style modification, and deletion.</p>   |





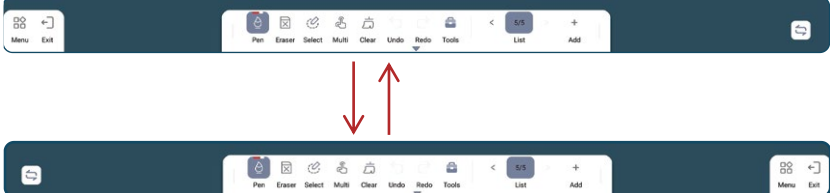
| ITEM   | DESCRIPTION   |
|--|---|
|  <p><b>Puzzle Bag</b></p>     | <p>Global sticky note could be displayed under all whiteboard pages and cannot be cleared by the eraser. When users need to modify a sticky note, they can double-click the global sticky note to enter the edit mode for text editing, style modification, and deletion.</p>   |
|  <p><b>Web browser</b></p>    | <p>You can browse the network content. Support forward, back, refresh, return to the home page, view the current URL, jump to a URL, search for a keyword, capture browser content into the whiteboard and move the window freely.</p>  |
|  <p><b>Web Picture</b></p>    | <p>You can browse picture of PX. Support forward, back, refresh, return to the home page, view the current URL, jump to a URL, search for a keyword, capture browser picture into the whiteboard and move the window freely.</p>  |
|  <p><b>Web Video</b></p>      | <p>You can browse video of YouTube. Support forward, back, refresh, return to the home page, view the current URL, jump to a URL, search for a keyword, capture browser video into the whiteboard and move the window freely.</p>   |
|  <p><b>Spotlight</b></p>      | <p>Under the spotlight function, users can drag to form a highlighted circle at any position and drag it at will to attract readers' attention. Tap the Exit text directly below to exit the Spotlight mode.</p>  |
|  <p><b>Timer</b></p>        | <p>Timer can be displayed in widget/ full screen. The widget is displayed by default, and the full screen display can be turned on by clicking the full screen button in the upper right corner. When display in the full screen, clicking the Exit button at the bottom to close the full screen display and enter the widget mode. This widget mode display is centered on the screen by default, and users can adjust the position by dragging according to their habits.</p>  |
|  <p><b>RecordScreen</b></p> | <p>RecordScreen displays in widget and display is right corner of the screen by default, and users can adjust the position by dragging according to their habits.</p>   |
|  <p><b>Split screen</b></p> | <p>The split screen function evenly divides the entire large screen into 2-4 independent small split screens, supporting multiple users to use the large screen at the same time for simple operations (writing, erasing and clearing the screen). The operations between each split screen are independent of each other, users can switch the number of split screens and set the default number of split screens in real time, and the data is cleared after exiting the Lite Split Screen.</p>  |

| ITEM   | DESCRIPTION   |
|--|---|
|  <p><b>Split+</b></p>       | <p>Split Screen+ only supports 2 split screens, but retains the functionality and both sides of the whiteboard operate independently without affecting each other. For example, when one side doing drawing, clearing, withdraw or other functions, the other side is not affected by the function, can still write normally.</p>  <p>The difference between Split screen and Split+ is that Split+ can support 2-4 splits, while Split+ can only support 2 splits; in addition, screen can only use the simplest functions, such as simple writing, erasing and clearing operations.</p> |
|  <p><b>Dice</b></p>        | <p>Users can simulate the virtual dice rolling on the large screen through this function. By using the settings menu, they can roll up to six dice simultaneously at most.</p>  |
|  <p><b>Spinner</b></p>    | <p>Users can simulate the virtual spinning of a turntable on the large screen through this function. By default, it is a fruit turntable. Users can also customize the content of their turntable through the settings menu.</p>  |
|  <p><b>Slot</b></p>       | <p>Users can simulate the virtual slot machine on the large screen through this function. By default, it has 2 columns and supports up to 3 columns at most.</p>  |
|  <p><b>Copilot</b></p>    | <p>The whiteboard toolbox has the Copilot application built-in, enabling users to utilize the artificial intelligence companion Copilot to enhance productivity and creativity.</p>   |
|  <p><b>Planet</b></p>     | <p>Users can also choose to lock the Earth image for writing or unlock it for browsing. By clicking the reset button, users can restore the Earth image to its original state.</p>  |
|  <p><b>Magnifier</b></p>  | <p>It supports users to zoom in on the local area of the picture, with a maximum zoom factor of 4.0.</p>  |
|  <p><b>Symbol</b></p>     | <p>The model supports insertion into the whiteboard and covers models for 3 subjects, including 10 physical models, 16 chemical models, and 9 biological models.</p>  |
|  <p><b>3D Preview</b></p> | <p>It supports opening various 3D pictures with different suffixes, such as obj, stl, dae, and gltf.</p>  |

| ITEM   | DESCRIPTION   |
|--|---|
|  <p>Piano</p> | <p>An electronic piano allows users to play their favorite pieces of music.</p> |

### 8.2.4 PAGE



| ITEM   | DESCRIPTION   |
|--|---|
|  <p>Last page</p> | <p>Click to the last page.</p>  |
|  <p>Next page</p> | <p>Click to the next page.</p>  |
|  <p>Add</p>       | <p>Click to add a new page.</p>   |
|  <p>Switch</p>    | <p>Click to exchange tool bars' position</p>  |

## 9. RS-232 PROTOCOL

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

The protocol contains three command sections:

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

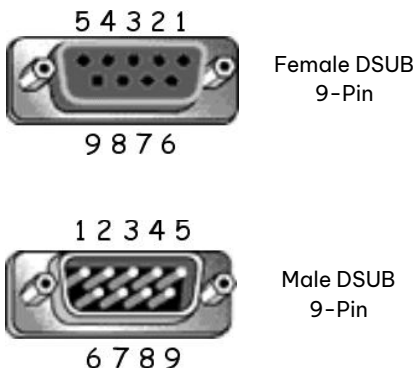
**Note** Below, “PC” represents all the control units that can send or receive the RS-232 protocol command.

### 9.1 DESCRIPTION

#### 9.1.1 RS-232 HARDWARE SPECIFICATION

IFPD communication port on the rear side:

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

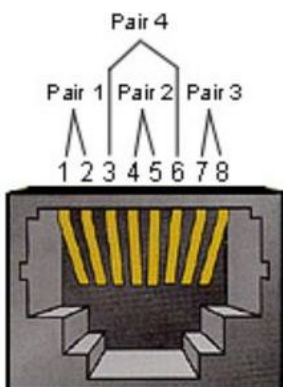


| PIN # | SIGNAL | REMARK              |
|-------|--------|---------------------|
| 1     | NC     |                     |
| 2     | RXD    | Input to Display    |
| 3     | TXD    | Output from Display |
| 4     | NC     |                     |
| 5     | GND    |                     |
| 6     | NC     |                     |
| 7     | NC     |                     |
| 8     | NC     |                     |
| 9     | NC     |                     |
| frame | GND    |                     |

#### 9.1.2 LAN HARDWARE SPECIFICATION

IFPD 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    |                     |

### 9.1.3 RS232 COMMUNICATION SETTING

|                   |                  |
|-------------------|------------------|
| Baud Rate Select: | 38400bps (fixed) |
| Data bits:        | 8 bits (fixed)   |
| Parity:           | None (fixed)     |
| Stop Bits:        | 1 (fixed)        |

### 9.1.4 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                       |

## 9.2 PROTOCOL

### 9.2.1 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.

| ITEM                               | DESCRIPTION                                    |             |
|------------------------------------|--|-------------|
| <b>Communication Configuration</b> | Communication interface                        | RS-232      |
|                                    | Communication protocol                         | Uart        |
|                                    | Baud rate                                      | 38400       |
|                                    | Data bits                                      | 8           |
|                                    | Stop bits                                      | 1           |
|                                    | Parity check                                   | None        |
| <b>Packet Description</b>          | Packet byte encoding                           | Hexadecimal |
|                                    | Is there a maximum limit on the package length | No          |
|                                    | Whether there is package verification          | No          |

### 9.2.2 SET-FUNCTION TABLE (BASIC FUNCTION)

| DESCRIPTION               | COMMAND CODE   | RESPONSE CODE  | RETURN CODE DESCRIPTION   |
|---------------------------|----------------|----------------|---|
| <b>Power On</b>           | 55 00 8E 00 E3 | null           |   |
| <b>Power off</b>          | 55 00 8E 0F F2 | 55 00 8E 0F F2 |   |
| <b>Get Device status</b>  | 55 00 45 00 9A | 55 00 45 XX XX | 02 9C:Standby<br>01 9B:Power on                                   |
| <b>Signal source</b>      | 55 00 80 00 D5 | 55 00 80 00 D5 |   |
| <b>Get current source</b> | 55 00 81 00 D6 | 55 00 81 XX XX | 00 D6:Android 0B E1:OPS<br>05 DB:VGA<br>11 E7:HDMI<br>08 DE:HDMI1 |
| <b>Up</b>                 | 55 00 00 01 56 | 55 00 00 01 56 |   |
| <b>Down</b>               | 55 00 00 02 57 | 55 00 00 02 57 |   |

| DESCRIPTION                   | COMMAND CODE                    | RESPONSE CODE  | RETURN CODE DESCRIPTION |
|-------------------------------|---------------------------------|----------------|-------------------------|
| <b>Left</b>                   | 55 00 00 03 58                  | 55 00 00 03 58 |                         |
| <b>Right</b>                  | 55 00 00 04 59                  | 55 00 00 04 59 |                         |
| <b>OK</b>                     | 55 00 00 00 55                  | 55 00 00 00 55 |                         |
| <b>Menu</b>                   | 55 00 14 00 69                  | 55 00 14 00 69 |                         |
| <b>Exit</b>                   | 55 00 16 00 6B                  | 55 00 16 00 6B |                         |
| <b>Info</b>                   | 55 00 18 00 6D                  | 55 00 18 00 6D |                         |
| <b>Mute</b>                   | 55 00 1A 00 6F                  | 55 00 1A 00 6F |                         |
| <b>Sleep Mode</b>             | 55 00 20 00 75 (15 minutes)     | 55 00 20 00 75 |                         |
|                               | 55 00 20 01 76 (30 minutes)     | 55 00 20 01 76 |                         |
|                               | 55 00 20 02 77 (45 minutes)     | 55 00 20 02 77 |                         |
|                               | 55 00 20 03 78 (60 minutes)     | 55 00 20 03 78 |                         |
|                               | 55 00 20 04 79 (OFF)            | 55 00 20 04 79 |                         |
| <b>Sound Mode</b>             | 55 00 22 00 77 (Standard)       | 55 00 22 00 77 |                         |
|                               | 55 00 22 02 79 (Sports)         | 55 00 22 02 79 |                         |
|                               | 55 00 22 03 7A (User)           | 55 00 22 03 7A |                         |
| <b>Set Bass</b>               | 55 00 3A 00 8F (Bass 0)         | 55 00 3A 00 8F |                         |
|                               | 55 00 3A 32 C1 (Bass 50)        | 55 00 3A 32 C1 |                         |
|                               | 55 00 3A 64 F3 (Bass 100)       | 55 00 3A 64 F3 |                         |
| <b>Set Treble</b>             | 55 00 3C 00 91 (Treble 0)       | 55 00 3C 00 91 |                         |
|                               | 55 00 3C 32 C3 (Treble 50)      | 55 00 3C 32 C3 |                         |
|                               | 55 00 3C 64 F5 (Treble 100)     | 55 00 3C 64 F5 |                         |
| <b>Set Balance</b>            | 55 00 3E 00 93 (Balance 0)      | 55 00 3E 00 93 |                         |
|                               | 55 00 3E 32 C5 (Balance 50)     | 55 00 3E 32 C5 |                         |
| <b>Picture mode</b>           | 55 00 28 00 7D (Standard)       | 55 00 28 00 7D |                         |
|                               | 55 00 28 01 7E (Soft)           | 55 00 28 01 7E |                         |
|                               | 55 00 28 02 7F (Bright)         | 55 00 28 02 7F |                         |
|                               | 55 00 28 03 80 (User)           | 55 00 28 03 80 |                         |
| <b>Set Contrast (0~100)</b>   | 55 00 2A 00 7F (Contrast 0)     | 55 00 2A 00 7F |                         |
|                               | 55 00 2A 32 B1 (Contrast 50)    | 55 00 2A 32 B1 |                         |
|                               | 55 00 2A 64 E3 (Contrast 100)   | 55 00 2A 64 E3 |                         |
| <b>Set Brightness (0~100)</b> | 55 00 2C 00 81 (Brightness 0)   | 55 00 2C 00 81 |                         |
|                               | 55 00 2C 32 B3 (Brightness 50)  | 55 00 2C 32 B3 |                         |
|                               | 55 00 2C 64 E5 (Brightness 100) | 55 00 2C 64 E5 |                         |
| <b>Set Saturation (0~100)</b> | 55 00 2E 00 83 (Saturation 0)   | 55 00 2E 00 83 |                         |
|                               | 55 00 2E 32 B5 (Saturation 50)  | 55 00 2E 32 B5 |                         |
|                               | 55 00 2E 64 E7 (Saturation 100) | 55 00 2E 64 E7 |                         |
| <b>Set HUE(0~100)</b>         | 55 00 30 00 85 (HUE 0)          | 55 00 30 00 85 |                         |
|                               | 55 00 30 64 E9 (HUE 100)        | 55 00 30 64 E9 |                         |
| <b>Set Sharpness (0~100)</b>  | 55 00 32 00 87 (Sharpness 0)    | 55 00 32 00 87 |                         |
|                               | 55 00 32 32 B9 (Sharpness 50)   | 55 00 32 32 B9 |                         |
|                               | 55 00 32 64 EB (Sharpness 100)  | 55 00 32 64 EB |                         |
| <b>Set Color Temp</b>         | 55 00 34 00 89 (Cool)           | 55 00 34 00 89 |                         |
|                               | 55 00 34 01 8A (Standard)       | 55 00 34 01 8A |                         |
|                               | 55 00 34 02 8B (Warm)           | 55 00 34 02 8B |                         |

| DESCRIPTION                   | COMMAND CODE                    | RESPONSE CODE  | RETURN CODE DESCRIPTION |
|-------------------------------|---------------------------------|----------------|-------------------------|
| <b>Aspect</b>                 | 55 00 4C 00 A1 (4:3)            | 55 00 4C 00 A1 |                         |
|                               | 55 00 4C 01 A2 (point to point) | 55 00 4C 01 A2 |                         |
|                               | 55 00 4C 02 A3 (16:9)           | 55 00 4C 02 A3 |                         |
| <b>Volume plus +</b>          | 55 00 0C 00 61                  | 55 00 0C 00 61 |                         |
| <b>Volume plus -</b>          | 55 00 0E 00 63                  | 55 00 0E 00 63 |                         |
| <b>Set Volume (0~100)</b>     | 55 00 0F 00 64 (Volume 0)       | 55 00 0F 00 64 |                         |
|                               | 55 00 0F 32 96 (Volume 50)      | 55 00 0F 32 96 |                         |
|                               | 55 00 0F 64 C8 (Volume 100)     | 55 00 0F 64 C8 |                         |
| <b>Return</b>                 | 55 00 0A 00 5F                  | 55 00 0A 00 5F |                         |
| <b>Switch to VGA 1</b>        | 55 00 80 05 DA                  | 55 00 80 05 DA |                         |
| <b>Switch to HDMI 1</b>       | 55 00 80 08 DD                  | 55 00 80 08 DD |                         |
| <b>Switch to OPS</b>          | 55 00 80 0B E0                  | 55 00 80 0B E0 |                         |
| <b>"Switch to front HDMI"</b> | 55 00 80 0A DF                  | 55 00 80 0A DF |                         |
| <b>Switch to English</b>      | 55 00 42 02 99 (English)        | 55 00 42 02 99 |                         |
| <b>Factory Reset</b>          | 55 00 84 00 D9                  | 55 00 84 00 D9 |                         |
| <b>Backlight mode</b>         | 55 00 88 00 DD (Customize)      | 55 00 88 00 DD |                         |
|                               | 55 00 88 01 DE (Auto)           | 55 00 88 01 DE |                         |
|                               | 55 00 88 02 DF (Energy Saving)  | 55 00 88 02 DF |                         |
| <b>Set Backlight (0~100)</b>  | 55 00 89 00 DE (Backlight 0)    | 55 00 89 00 DE |                         |
|                               | 55 00 89 32 10 (Backlight 50)   | 55 00 89 32 10 |                         |
|                               | 55 00 89 64 42 (Backlight 100)  | 55 00 89 64 42 |                         |
| <b>Screen shot</b>            | 55 00 8A 00 DF                  | 55 00 8A 00 DF |                         |
| <b>Home</b>                   | 55 00 91 00 E6                  | 55 00 91 00 E6 |                         |
| <b>WhiteBoard</b>             | 55 00 93 00 E8                  | 55 00 93 00 E8 |                         |
| <b>Audio Only</b>             | 55 00 97 00 EC                  | 55 00 97 00 EC |                         |
| <b>File Manager App</b>       | 55 00 98 00 ED                  | 55 00 98 00 ED |                         |
| <b>Setting App</b>            | 55 00 99 00 EE                  | 55 00 99 00 EE |                         |

## 10. APPENDIX

### 10.1 SPECIFICATIONS-55"

| ITEM                                    | CATEGORY             | SPECIFICATIONS  |
|---|----------------------|---|
| <b>Model</b>                            | P/N.                 | IME55G3   |
| <b>Display</b>                          | Display Size         | 55"   |
|   | Active Size(H x V)   | 1209.6 x 680.4mm  |
|   | Surface Treatment    | Front Polarizer: Haze 1%, 3H, Antiglare treatment Bottom Polarizer: Clear |
|   | Brightness           | 450 nits (Typical)  |
|   | Native Resolution    | UHD 3840 x 2160 (Pixels)  |
| <b>Input Signal</b>                     |                      | 3 x HDMI 2.0 (3840 x 2160 @ 60 Hz)  |
|   |                      | 1 x DP (3840 x 2160 @ 60 Hz)  |
|   |                      | 1 x AV (NTSC: 720 x 480 @ 30Hz; PAL: 720 x 576 @ 25Hz)                    |
|   |                      | 1 x VGA (1920 x 1080 @ 60 Hz)   |
|   |                      | 1 x VGA Audio (3.5 mm)  |
|   |                      | 1 x MIC in (3.5 mm)   |
| <b>Output Signal</b>                    |                      | 1 x Audio (3.5 mm)  |
|   |                      | 1 x SPDIF   |
|   |                      | 1 x HDMI out  |
| <b>USB</b>                              | Type A               | 4 x USB 3.0<br>2 x USB 2.0  |
|   | Type B               | 2 x USB 3.0   |
|   | Type C               | 2 x Full-function TYPE-C  |
| <b>Network</b>                          | LAN                  | 2 x RJ45 (10M/100M/1000M)   |
|   | Wireless             | Built-in Wi-Fi 6e & Bluetooth 5.4   |
| <b>PC Slot</b>                          |                      | 1 x 80-pin OPS (18V/3.5A)   |
| <b>Audio</b>                            | Speakers             | 2 x 15W (Rated 10W, Peak 15W)<br>1 x woofer 20W                           |
| <b>RS-232</b>                           |                      | 1 x RS-232 Communication  |
| <b>Built-in port of the motherboard</b> | Micro SD(TF)         | 1   |
|   | MIC Public USB2.0    | 1   |
|   | CAM Public USB3.0    | 1   |
| <b>Power</b>                            | Voltage              | 100~240V +/- 10% 50/60 Hz   |
|   |                      |   |
| <b>Operating Conditions</b>             | Altitude             | 3,000 m<br>9,842.52 ft  |
|   | Relative Humidity    | 10% ~ 80% (non-condensing)  |
|   | Temperature          | 0° C ~ 40° C  |
|   |                      | 32° F ~ 104° F  |
| <b>Storage Conditions</b>               | Altitude             | 2,500 m<br>8,202.1 ft   |
|   | Relative Humidity    | 0% ~ 93% (non-condensing)   |
|   | Temperature          | -25°C ~ 55°C  |
|   |                      | -13°F ~ 131°F   |
| <b>Dimensions</b>                       | Physical (W x H x D) | 1270.84 x 785.86 x 94.06 mm   |
|   |                      | 50.03" x 30.94" x 3.7"  |
| <b>Weight</b>                           | Physical             | /   |
|   |                      | /   |
| <b>Power Consumption</b>                | On                   | 210W (Normal), 280W (Maximum)   |
|   | Off                  | < 0.5W  |

**Note** Product specifications are subject to change without notice.

## 10.2 SPECIFICATIONS-65”

| ITEM                                    | CATEGORY             | SPECIFICATIONS   |
|---|----------------------|--|
| <b>Model</b>                            | P/N.                 | IME65G3  |
| <b>Display</b>                          | Display Size         | 65”  |
|   | Active Size(H x V)   | 1428.48 x 803.52mm                                     |
|   | Surface Treatment    | Haze 25%, Hardness 2H, AG25/Clear (CF / TFT POL)       |
|   | Brightness           | 450 nits (Typical)                                     |
|   | Native Resolution    | UHD 3840 x 2160 (Pixels)                               |
| <b>Input Signal</b>                     |                      | 3 x HDMI 2.0 (3840 x 2160 @ 60 Hz)                     |
|   |                      | 1 x DP (3840 x 2160 @ 60 Hz)                           |
|   |                      | 1 x AV (NTSC: 720 x 480 @ 30Hz; PAL: 720 x 576 @ 25Hz) |
|   |                      | 1 x VGA (1920 x 1080 @ 60 Hz)                          |
|   |                      | 1 x VGA Audio (3.5 mm)                                 |
|   |                      | 1 x MIC in (3.5 mm)                                    |
| <b>Output Signal</b>                    |                      | 1 x Audio (3.5 mm)                                     |
|   |                      | 1 x SPDIF  |
|   |                      | 1 x HDMI out   |
| <b>USB</b>                              | Type A               | 4 x USB 3.0<br>2 x USB 2.0                             |
|   | Type B               | 2 x USB 3.0  |
|   | Type C               | 2 x Full-function TYPE-C                               |
| <b>Network</b>                          | LAN                  | 2 x RJ45 (10M/100M/1000M)                              |
|   | Wireless             | Built-in Wi-Fi 6e & Bluetooth 5.4                      |
| <b>PC Slot</b>                          |                      | 1 x 80-pin OPS (18V/3.5A)                              |
| <b>Audio</b>                            | Speakers             | 2 x 20W (Rated 16W, Peak 20W)<br>1 x woofer 20W        |
| <b>RS-232</b>                           |                      | 1 x RS-232 Communication                               |
| <b>Built-in port of the motherboard</b> | Micro SD(TF)         | 1  |
|   | MIC Public USB2.0    | 1  |
|   | CAM Public USB3.0    | 1  |
| <b>Power</b>                            | Voltage              | 100 ~ 240V +/- 10% 50/60 Hz                            |
|   |                      |  |
| <b>Operating Conditions</b>             | Altitude             | 3,000 m<br>9,842.52 ft                                 |
|   | Relative Humidity    | 10% ~ 80% (non-condensing)                             |
|   | Temperature          | 0° C ~ 40° C   |
|   |                      | 32° F ~ 104° F   |
| <b>Storage Conditions</b>               | Altitude             | 2,500 m<br>8,202.1 ft                                  |
|   | Relative Humidity    | 0% ~ 93% (non-condensing)                              |
|   | Temperature          | -25° C ~ 55° C   |
|   |                      | -13° F ~ 131° F  |
| <b>Dimensions</b>                       | Physical (W x H x D) | 1493.4 x 909.3 x 93.7 mm                               |
|   |                      | 58.8” x 35.8”x 3.7”                                    |
| <b>Weight</b>                           | Physical             | 34.8 kg  |
|   |                      | 76.72 lbs  |
| <b>Power Consumption</b>                | On                   | 300W (Normal), 330W (Maximum)                          |
|   | Off                  | < 0.5W   |

**Note** Product specifications are subject to change without notice.

### 10.3 SPECIFICATIONS-75"

| ITEM                                    | CATEGORY             | SPECIFICATIONS   |
|---|----------------------|--|
| <b>Model</b>                            | P/N.                 | IME75G3  |
| <b>Display</b>                          | Display Size         | 75"  |
|   | Active Size(H x V)   | 1649.664 x 927.936mm                                   |
|   | Surface Treatment    | Haze 25%, Hardness 3H, AG25/Clear (CF / TFT POL)       |
|   | Brightness           | 450 nits (Typical)                                     |
|   | Native Resolution    | UHD 3840 x 2160 (Pixels)                               |
| <b>Input Signal</b>                     |                      | 3 x HDMI 2.0 (3840 x 2160 @ 60 Hz)                     |
|   |                      | 1 x DP (3840 x 2160 @ 60 Hz)                           |
|   |                      | 1 x AV (NTSC: 720 x 480 @ 30Hz; PAL: 720 x 576 @ 25Hz) |
|   |                      | 1 x VGA (1920 x 1080 @ 60 Hz)                          |
|   |                      | 1 x VGA Audio (3.5 mm)                                 |
|   |                      | 1 x MIC in (3.5 mm)                                    |
| <b>Output Signal</b>                    |                      | 1 x Audio (3.5 mm)                                     |
|   |                      | 1 x SPDIF  |
|   |                      | 1 x HDMI out   |
| <b>USB</b>                              | Type A               | 4 x USB 3.0<br>2 x USB 2.0                             |
|   | Type B               | 2 x USB 3.0  |
|   | Type C               | 2 x Full-function TYPE-C                               |
| <b>Network</b>                          | LAN                  | 2 x RJ45 (10M/100M/1000M)                              |
|   | Wireless             | Built-in Wi-Fi 6e & Bluetooth 5.4                      |
| <b>PC Slot</b>                          |                      | 1 x 80-pin OPS (18V/3.5A)                              |
| <b>Audio</b>                            | Speakers             | 2 x 20W (Rated 16W, Peak 20W)<br>1 x woofer 20W        |
| <b>RS-232</b>                           |                      | 1 x RS-232 Communication                               |
| <b>Built-in port of the motherboard</b> | Micro SD(TF)         | 1  |
|   | MIC Public USB2.0    | 1  |
|   | CAM Public USB3.0    | 1  |
| <b>Power</b>                            | Voltage              | 100 ~ 240V +/- 10% 50/60 Hz                            |
|   |                      |  |
| <b>Operating Conditions</b>             | Altitude             | 3,000 m<br>9,842.52 ft                                 |
|   | Relative Humidity    | 10% ~ 80% (non-condensing)                             |
|   | Temperature          | 0° C ~ 40° C   |
|   |                      | 32° F ~ 104° F   |
| <b>Storage Conditions</b>               | Altitude             | 2,500 m<br>8,202.1 ft                                  |
|   | Relative Humidity    | 0% ~ 93% (non-condensing)                              |
|   | Temperature          | -25° C ~ 55° C   |
|   |                      | -13° F ~ 131° F  |
| <b>Dimensions</b>                       | Physical (W x H x D) | 1715.6 x 1032.9 x 93.7 mm                              |
|   |                      | 67.5" x 40.7" x 3.7"                                   |
| <b>Weight</b>                           | Physical             | 46 kg  |
|   |                      | 101.6 lbs  |
| <b>Power Consumption</b>                | On                   | 300W (Normal), 330W (Maximum)                          |
|   | Off                  | < 0.5W   |

**Note** Product specifications are subject to change without notice.

## 10.4 SPECIFICATIONS-86”

| ITEM                                    | CATEGORY             | SPECIFICATIONS  |
|---|----------------------|---|
| <b>Model</b>                            | P/N.                 | IME86G3   |
| <b>Display</b>                          | Display Size         | 86”   |
|   | Active Size(H x V)   | 1895.04 x 1065.96mm                                   |
|   | Surface Treatment    | Haze 22%, Hardness 3H, AG25/Clear (CF / TFT POL)      |
|   | Brightness           | 450 nits (Typical)                                    |
|   | Native Resolution    | UHD 3840 x 2160 (Pixels)                              |
| <b>Input Signal</b>                     |                      | 3 x HDMI 2.0 (3840 x 2160 @ 60 Hz)                    |
|   |                      | 1 x DP (3840 x 2160 @ 60 Hz)                          |
|   |                      | 1 x AV(NTSC: 720 x 480 @ 30Hz; PAL: 720 x 576 @ 25Hz) |
|   |                      | 1 x VGA (1920 x 1080 @ 60 Hz)                         |
|   |                      | 1 x VGA Audio (3.5 mm)                                |
|   |                      | 1 x MIC in (3 . 5 mm)                                 |
| <b>Output Signal</b>                    |                      | 1 x Audio (3.5 mm)                                    |
|   |                      | 1 x SPDIF   |
|   |                      | 1 x HDMI out  |
| <b>USB</b>                              | Type A               | 4 x USB 3.0<br>2 x USB 2.0                            |
|   | Type B               | 2 x USB 3.0   |
|   | Type C               | 2 x Full-function TYPE-C                              |
| <b>Network</b>                          | LAN                  | 2 x RJ45( 10M/100M/1000M)                             |
|   | Wireless             | Built-in Wi-Fi 6e & Bluetooth 5.4                     |
| <b>PC Slot</b>                          |                      | 1 x 80-pin OPS (18V/3.5A)                             |
| <b>Audio</b>                            | Speakers             | 2 x 20W (Rated 16W, Peak 20W)<br>1 x woofer20W        |
| <b>RS-232</b>                           |                      | 1 x RS-232 Communication                              |
| <b>Built-in port of the motherboard</b> | Micro SD(TF)         | 1   |
|   | MIC Public USB2.0    | 1   |
|   | CAM Public USB3.0    | 1   |
| <b>Power</b>                            | Voltage              | 100 ~ 240V +/- 10% 50/60 Hz                           |
| <b>Operating Conditions</b>             | Altitude             | 3,000 m   |
|   |                      | 9,842.52 ft   |
|   | Relative Humidity    | 10% ~ 80% (non-condensing)                            |
|   | Temperature          | 0° C ~ 40° C  |
| 32° F ~ 104° F                          |                      |   |
| <b>Storage Conditions</b>               | Altitude             | 2,500 m   |
|   |                      | 8,202.1 ft  |
|   | Relative Humidity    | 0% ~ 93% (non-condensing)                             |
|   | Temperature          | -25°C ~ 55°C  |
| -13°F ~ 131°F                           |                      |   |
| <b>Dimensions</b>                       | Physical (W x H x D) | 1961.7 x 1171.8 x 93.7 mm                             |
|   |                      | 77.2” x 46.1” x 3.7”                                  |
| <b>Weight</b>                           | Physical             | 59.7 kg   |
|   |                      | 131.62 lbs  |
| <b>Power Consumption</b>                | On                   | 380W (Normal) , 450W (Maximum)                        |
|   | Off                  | < 0.5W  |

**Note** Product specifications are subject to change without notice.

### 10.5 RESOLUTION AND TIMINGS

#### 10.5.1 HDMI

| RESOLUTION  | REFRESH RATE (@)             |
|-------------|------------------------------|
| 720 x 480   | 60Hz                         |
| 720 x 576   | 60Hz                         |
| 1280 x 720  | 60Hz                         |
| 1920 x 1080 | 60Hz                         |
| 3840 x 2160 | 24Hz, 25Hz, 30Hz, 50Hz, 60Hz |
| 4096 x 2160 | 50Hz,60Hz                    |

#### 10.5.2VGA

| RESOLUTION  | REFRESH RATE (@) |
|-------------|------------------|
| 640 x 480   | 60Hz             |
| 800 x 600   | 60Hz             |
| 1024 x 768  | 60Hz             |
| 1280 x 960  | 60Hz             |
| 1280 x 1024 | 60Hz             |
| 1360 x 768  | 60Hz             |
| 1920 x 1080 | 60Hz             |

### 10.6 TROUBLESHOOTING

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

| 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>                                     |

#### 10.6.1 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>  |

### 10.6.2 TOUCH FUNCTION

| PROBLEM OR ISSUE | POSSIBLE SOLUTIONS   |
|------------------|--|
| No sound         | <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> |

### 10.6.3 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>                          |

### 10.6.4 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> |