


# Interactive Flat Panel

User Manual

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# Preface

## Applicable Models

This manual is applicable to Interactive Flat Panel.

## Symbol Conventions

The symbols that may be found in this document are defined as follows.

| Symbol | Description |
| --- | --- |
|  **Note** | Provides additional information to emphasize or supplement important points of the main text. |
|  **Caution** | Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results. |
|  **Danger** | Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury. |

All products covered in this manual are developed based on the Product Security Redline V4.

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# Chapter 1 Introduction

The Interactive Flat Panel (hereafter referred to as “the device”) integrates functions of computers, projectors, interactive whiteboards, sound boxes, advertising machines, and so on. The device is empowered by multiple technologies like 4K display, infrared touch, human-machine interaction, multi-media information processing, and network transmission, providing users with various features such as writing, annotating, multi-screen sharing, and remote video call (optional).

The device is mainly used for events including remote video Interactives, trainings and guidance, medical consulting, and others in places of offices, meeting rooms, multi-media classrooms, exhibition halls, and so on.

***Key Features***

- Ultra HD display with up to 3840 × 2160 resolution of input signal available.
- 20px ultra fine writing, and 2 mm diameter recognizable with the precision of 1 mm.
- Supports USB 3.0.
- Built-in Wi-Fi realizes screen mirroring without any cable connection.
- Built-in interactive whiteboard system allows annotating and sharing by QR code.
- Looping-out display available.
- Various audio and video interfaces for device access.
- Built-in network switch module saves a network switch.
- Built-in Android system provides kinds of applications.
- Compatible with OPS/OPS-C devices, realizing smooth switch between built-in systems.
- Ultra-thin design with aluminum profile frame.

# Chapter 2 Operation and Maintenance Precautions

The LCD panel on the device is made by high-precision technology. However, tiny spots on the screen that are always or never lit may be observed, or when observed from side, the color and brightness may appear to be uneven. Yet the above phenomena are common among LCD displays rather than faults and will not affect the performance of the device.

- Our company is not responsible for any fault caused by third-party when operating the device and other failure or damage incurred.
- Do not operate the device in an environment of dust, high humidity, or oil and steam contacting to avoid the risk of fire and damage.
- Do not place the device under direct sunlight or near strong light source.
- Do not place the device near other equipment with strong radiation.
- Do not expose the device to rain or humid environment.
- Do not place the device on unstable or unsafe surface. Avoid strong impact, vibration or vibration.
- Do not operate the device near heating device or place of high temperature to avoid the risk of fire.
- After moving the device from low temperature environment to high temperature environment, please do not turn on the device immediately and wait for the condensation to evaporate.
- Do not insert any object into the device.
- Do not place heavy objects upon the device.
- The device and its accessories are subject to change without prior notice.
- The fragile materials of the display are vulnerable to falling and impact. Please hold with care.
- Improper operations during debugging and operating may cause damage to the device.
- Scratching or knocking the device with hard objects is strictly forbidden. Do not frequently turn on/off the power of the device when operating to avoid the risk of damage and faults.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

## 2.1 Use of Power Cable

- If the power cable is damaged or failed, contact service center. Make sure the power supply is properly grounded and matches the requirements specified by the plate on the shell.
- Do not expose the device to rain or humid environment. Disconnect power plug and antenna in thunderstorm weather.

- If the device will not be used for a long time. Shut down the power of the device and disconnect the power supply.
- Electric discharge may last for a short period of time after the power is shut down. Please wait for two minutes after the power shut down to operate the device.
- Only use the original power cable delivered with the device. Contact authorized dealer to purchase power cable with same specifications.
- Make sure the power supply is grounded.
- Do not let dust or metal attachment adhere to the power plug and socket.
- Do not modify the cable in any form.
- Do not place heavy object on the cable.
- Keep the cable away from heat.
- Do not disconnect the power plug by pulling the cable.
- Keep the power cable away from physical or mechanical damage.
- The cable is applicable only to the Interactive Display. Do not use it on other devices.

## 2.2 Cleaning and Maintenance

- The hole on the rear shell is for heat dissipation. Do not pour or spray liquid to the rear shell or use wet cloth for cleaning.
- Disconnect the power plug before cleaning.
- Do not display images with high brightness on the screen for too long.
- Use a dry, soft and dust-free cloth to clean the device.
- Contact service center for internal cleaning.
- Proper maintenance can avoid certain early-stage failures.
- Clean the device on a regular basis to make the device look new.
- Do not clean the device with water, spray cleaner or industrial chemical reagent. Prevent foreign matters from entering the device.
- Contact qualified service personnel for device maintenance. If the device is damaged, please contact our company, do not carry out unauthorized maintenance.

# Chapter 3 Connection and Installation

## 3.1 Precautions for Installation

- Clean the device screen and back before installation for best performance.
- For safety, only use the wall mount or base provided by the manufacturer.
- Contact professional staff for wall mounting.
- Check the accessories before the installation. Contact the dealer if anything is missing.
- Do not install the device too tight. Otherwise the screen may be distorted.
- Mount the device on load-bearing wall.
- Place the device on a stable surface or fix the device steadily on the wall.
- Install the device near an available AC power socket for easy power connection. Use the same ground cable with other devices to prevent signal interference.
- Do not place the device near mechanical vibration source.
- Do not place the device in an environment where insects have easy access.
- Do not let the device face the air conditioner directly to avoid condensing.
- Do not place the device in strong electromagnetic field to avoid radio interference.

## 3.2 Appearance and Interfaces

### 3.2.1 Front Panel and Interfaces

The interfaces of Interactive Flat Panel are shown as follows.

**Note**

- Interfaces of the device vary from different types.
- The following description is from the direction facing the screen.

**65 inch (With Camera)**

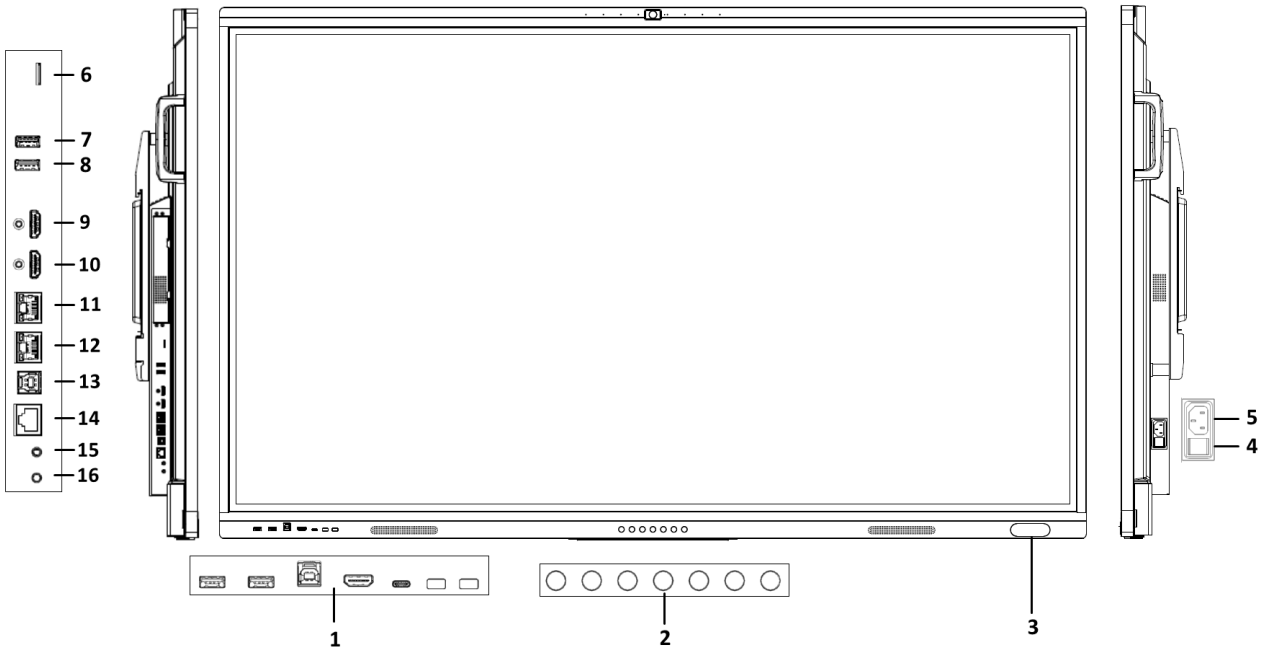



Figure 3-1 Front Panel and Interfaces (65 inch With Camera)

**65 inch (Without Camera)**

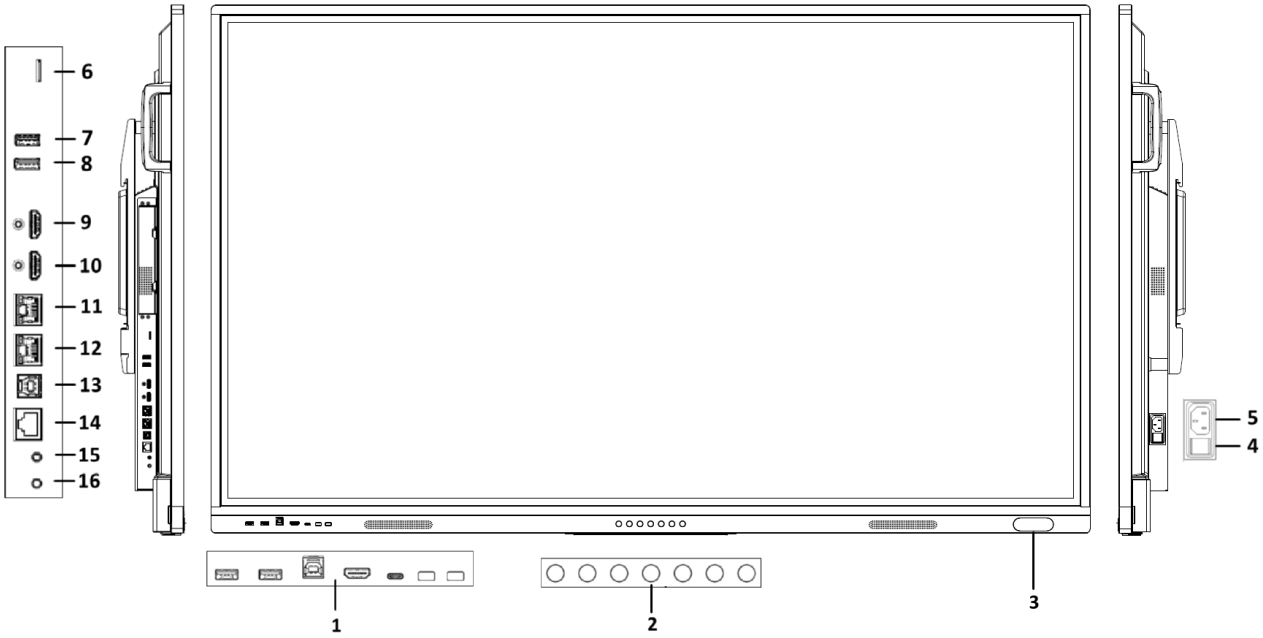



Figure 3-2 Front Panel and Interfaces (65 inch Without Camera)

**75 inch (With Camera)**

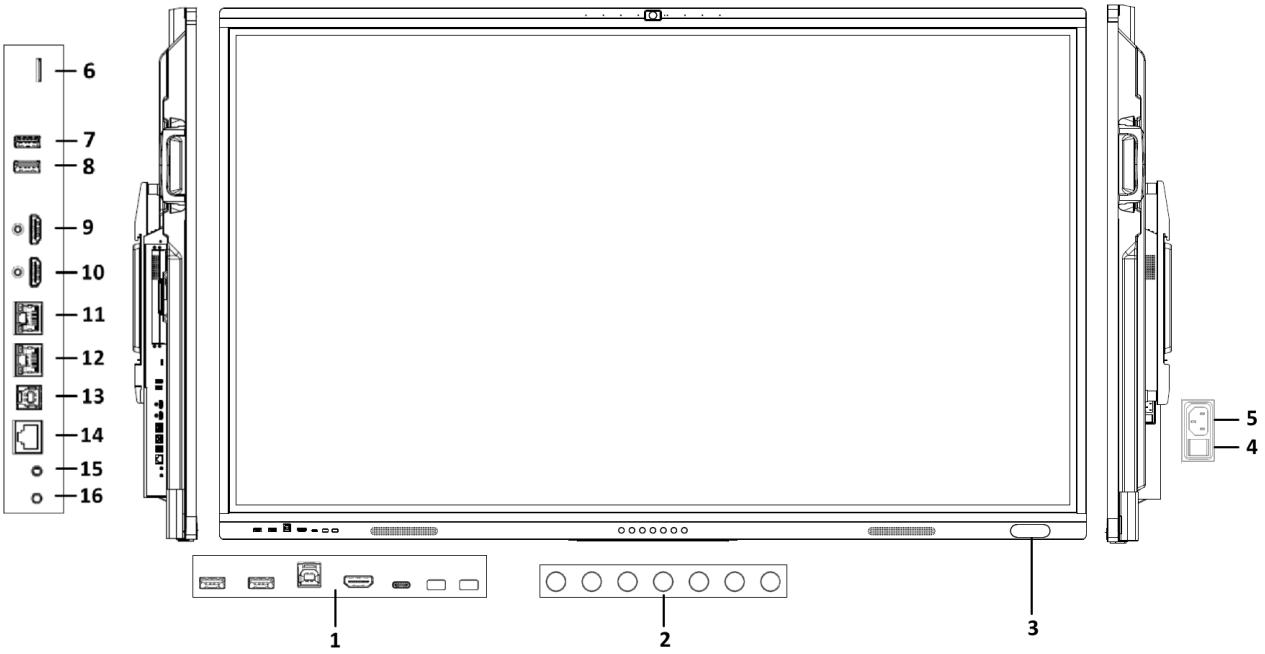



Figure 3-3 Front Panel and Interfaces (75 inch With Camera)

**75 inch (Without Camera)**

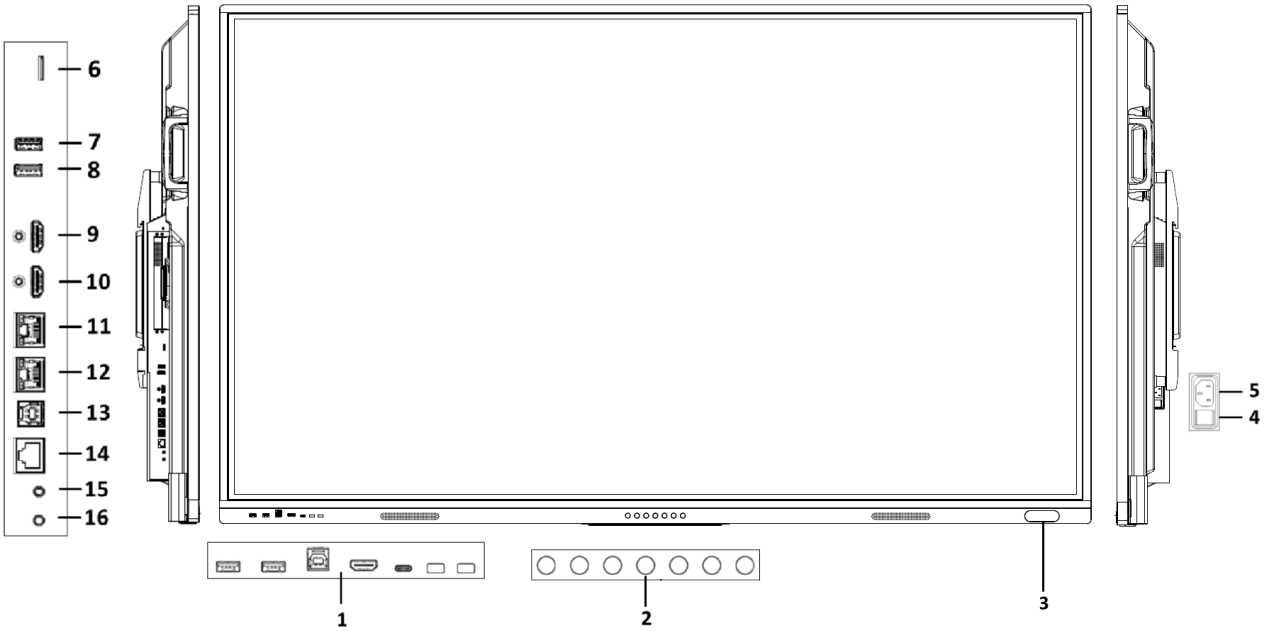



Figure 3-4 Front Panel and Interfaces (75 inch Without Camera)

**86 inch (With Camera)**

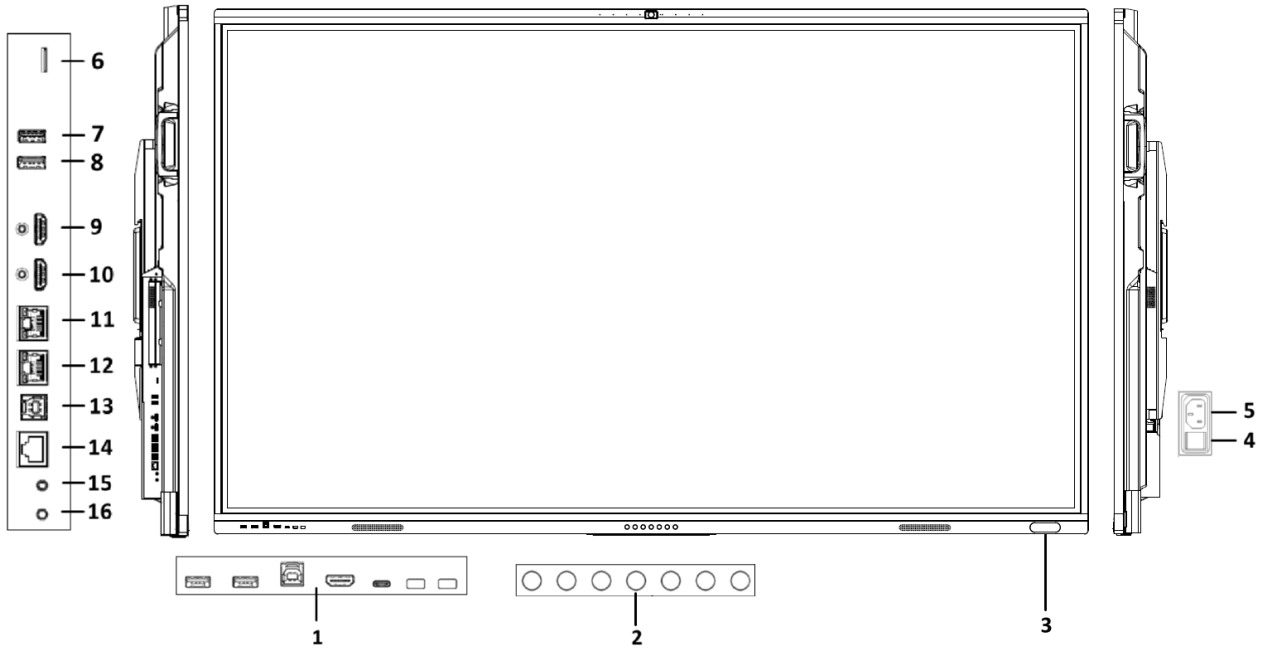



Figure 3-5 Front Panel and Interfaces (86 inch With Camera)

**86 inch (Without Camera)**

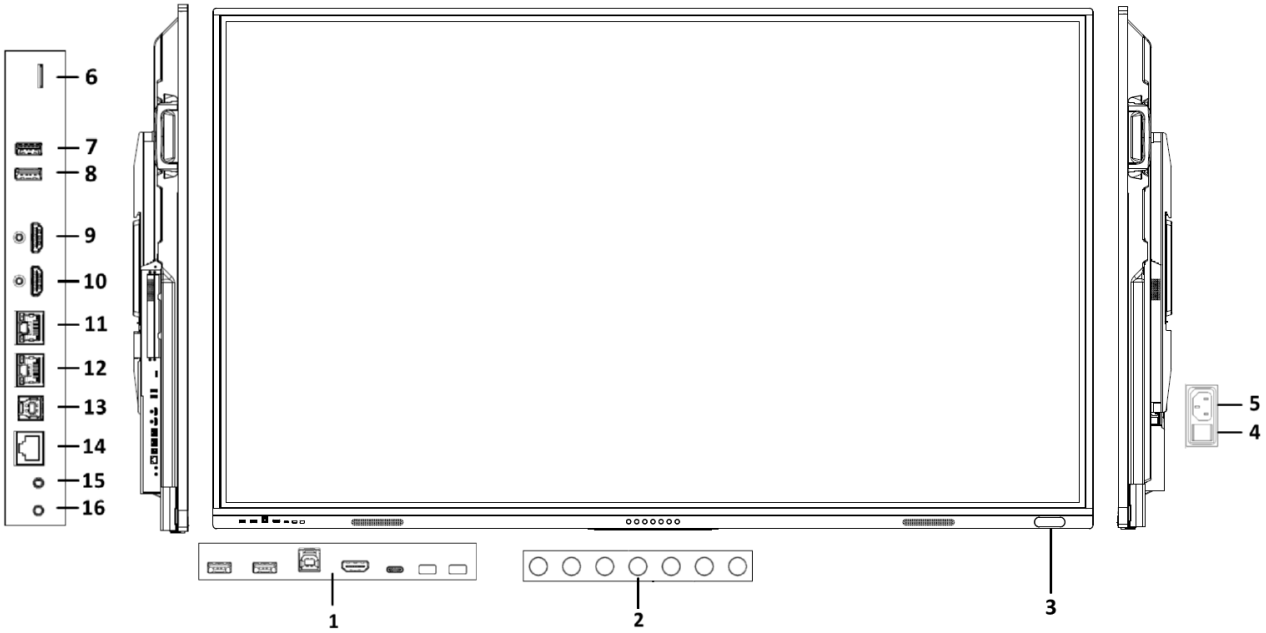



Figure 3-6 Front Panel and Interfaces (86 inch Without Camera)

Table 3-1 Panel Description

| No. | Description | No. | Description |
|---|---|---|---|
| 1<br>(From Left to Right) | USB 3.0<br>USB 3.0<br>Touch USB<br>HDMI IN<br>Type-C<br>Light sensor<br>IR | 2 | Power key<br>Volume –<br>Volume +<br>Android host menu<br>Return<br>Control menu<br>Physical button (operations refer to "***6.8.3 Physical Button Settings***") |
| 3 | NFC | 4 | Power switch |
| 5 | Power supply<br>AC 220 V | 6 | SD card |
| 7 | USB 3.0 | 8 | USB 2.0 |
| 9/10 | HDMI IN | 11/12 | Gigabit Ethernet |
| 13 | Touch USB | 14 | RS232 |
| 15 | Line IN (audio input interface) | 16 | Line OUT (audio output interface) |

## 3.2.2 Connection to Personal Computer (PC)

The connection of PC and the device is shown as below.

**Caution**

The device must be disconnected from power supply before installation or disassembly.

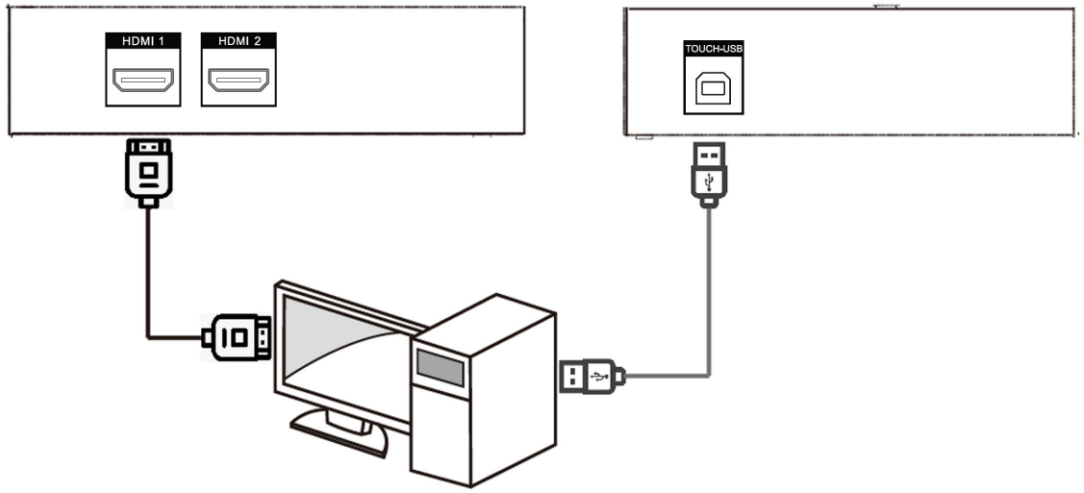



Figure 3-7 Connect to PC

**Note**

- The Touch-USB interface is needed only when the user needs to touch operate the external PC on the device.
- Use high quality signal cable less than 10 meters in length for high HDMI signal transmission quality.
- USB cable is not contained in the product. Please purchase USB cable with Type-A connector to Type-B connector.

# 3.3 Internal Computer Installation

**65 inch (With Camera)**

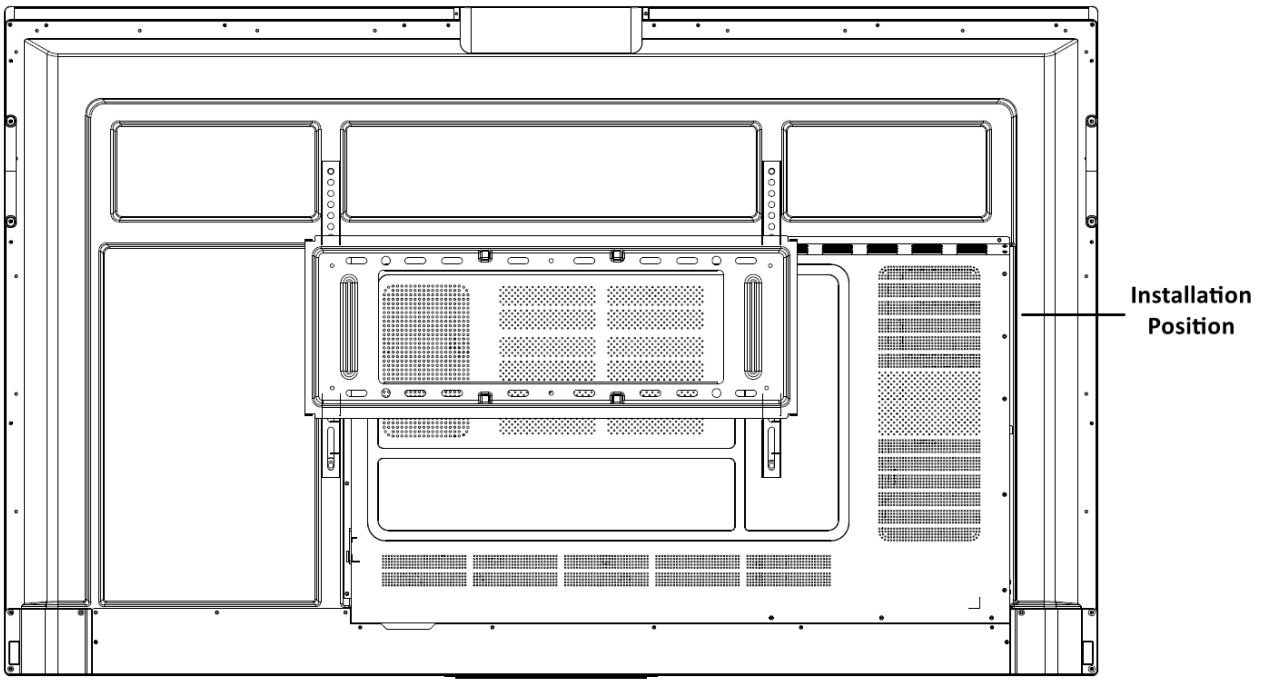



Figure 3-8 Internal Computer Installation (65 inch With Camera)

**65 inch (Without Camera)**

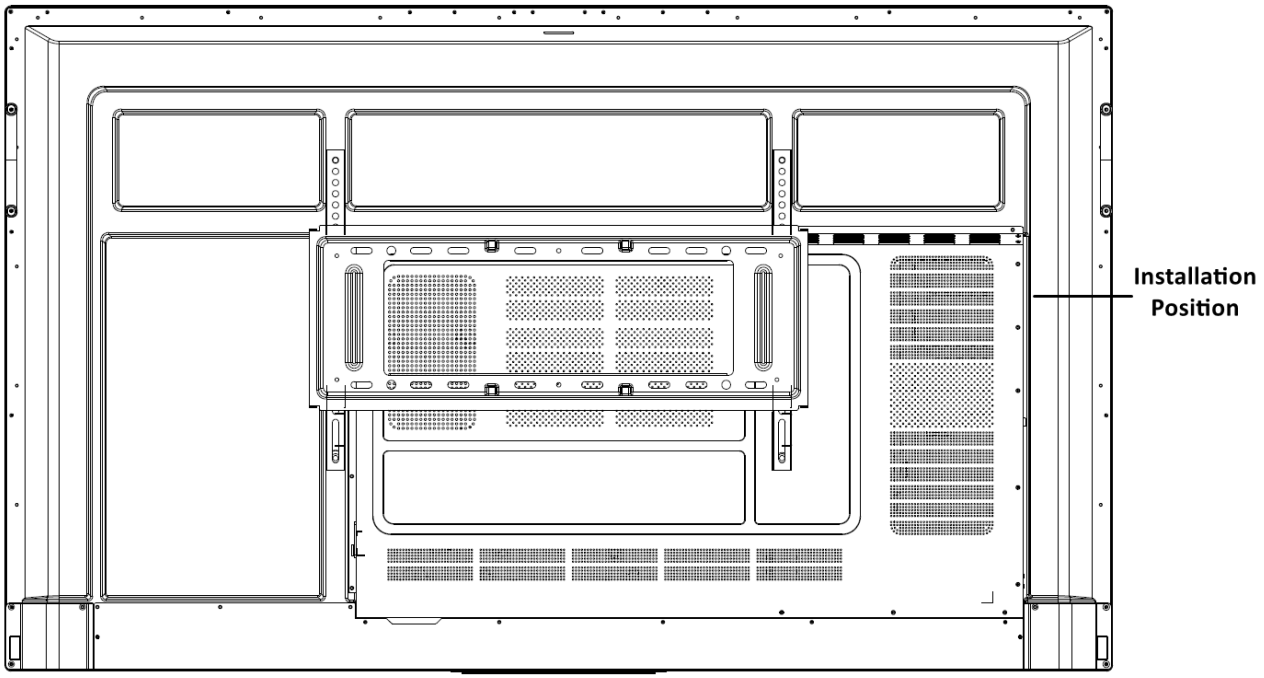



Figure 3-9 Internal Computer Installation (65 inch Without Camera)

**75 inch (With Camera)**

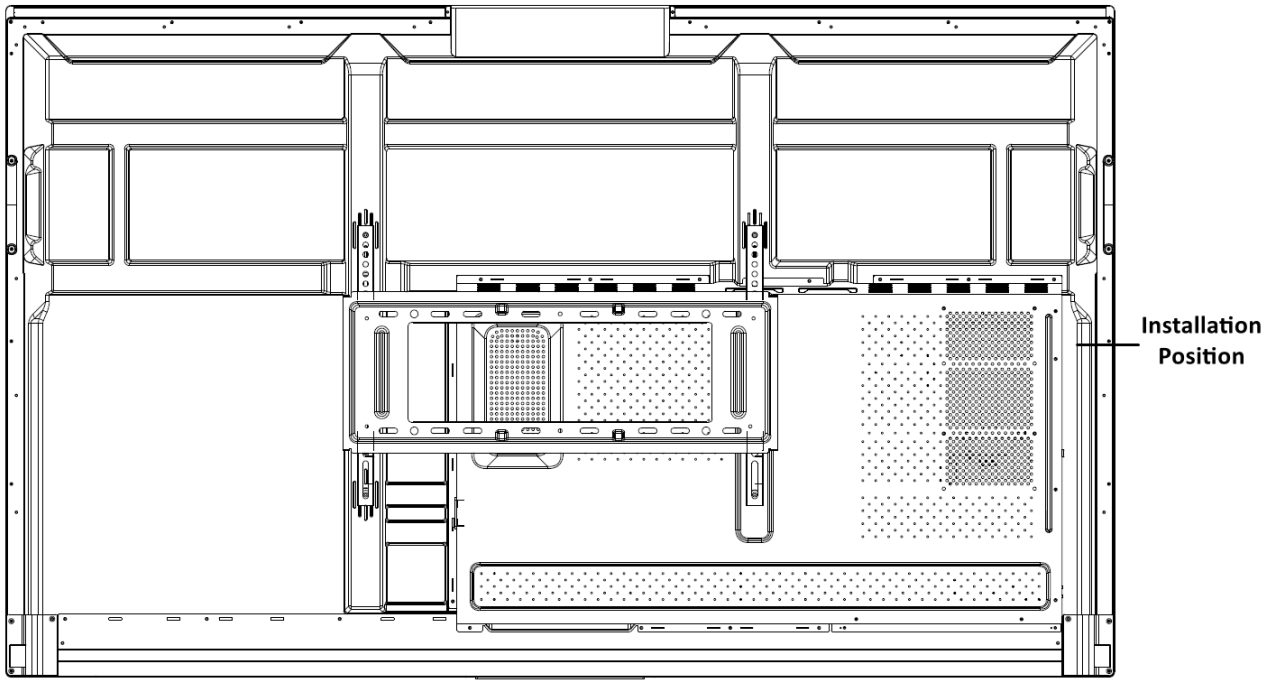



Figure 3-10 Internal Computer Installation (75 inch With Camera)

**75 inch (Without Camera)**

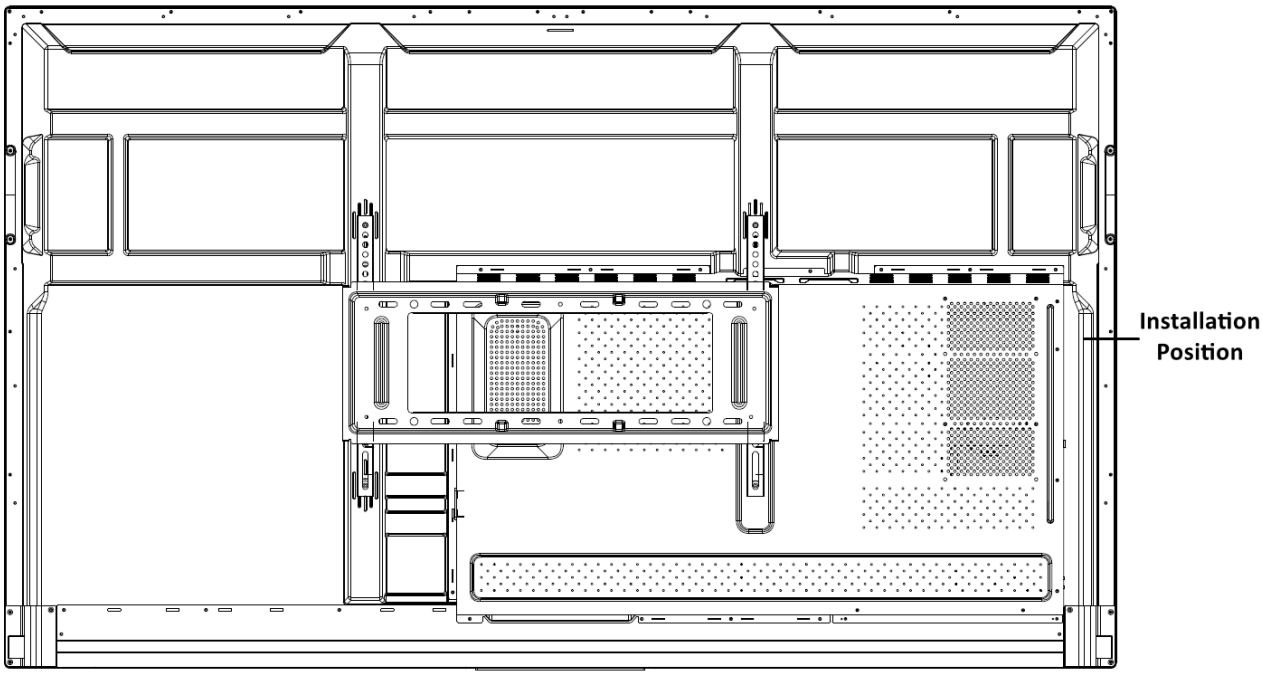



Figure 3-11 Internal Computer Installation (75 inch Without Camera)

**86 inch (With Camera)**

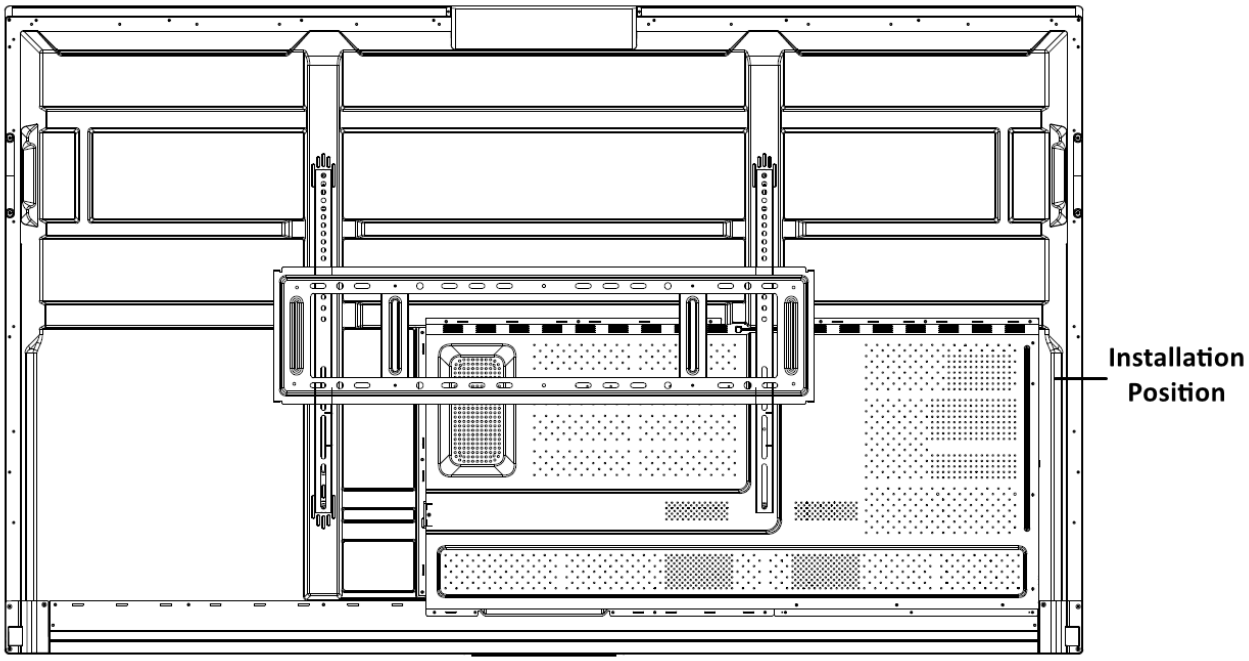



Figure 3-12 Internal Computer Installation (86 inch With Camera)

**86 inch (Without Camera)**

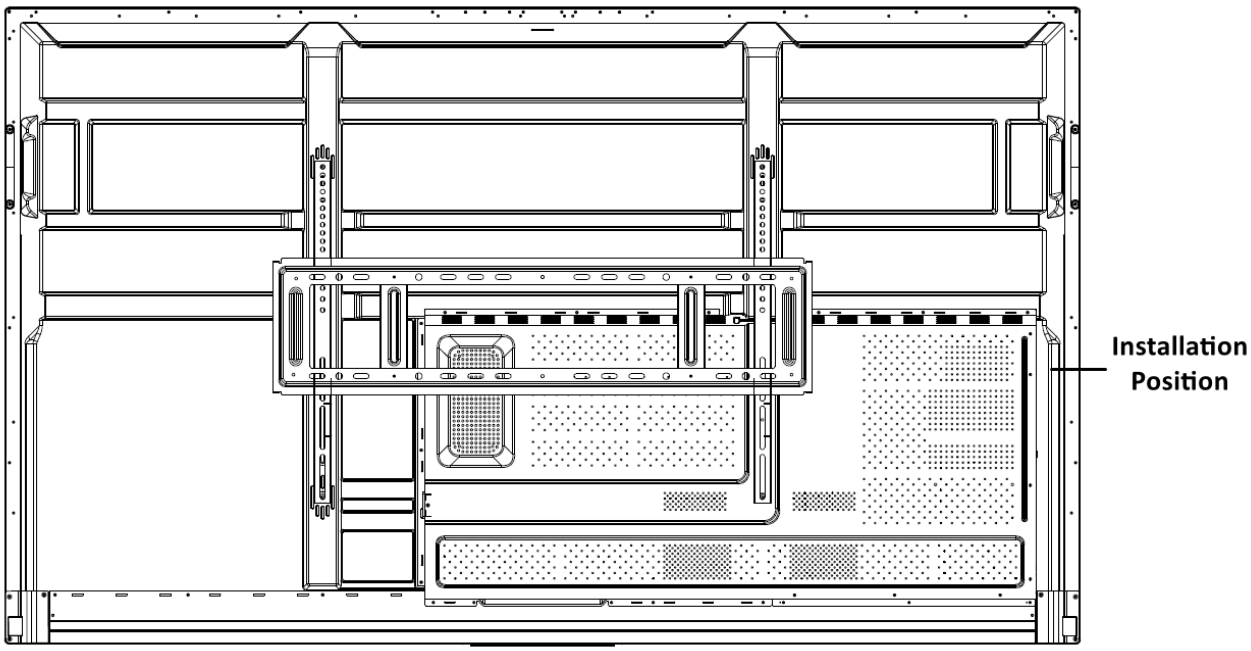



Figure 3-13 Internal Computer Installation (86 inch Without Camera)

The computer box is installed at the side slot of the device. When installing the box, make sure its ventilation hole is facing the same direction with the rear panel as shown above. Fasten the screws to fix the box into position.

**Danger**

- The computer is an optional accessory.
- To avoid potential device damage, the computer box can be removed only after the device is disconnected from power.

## 3.4 Mounting

The device can be installed with wall mount as shown below.

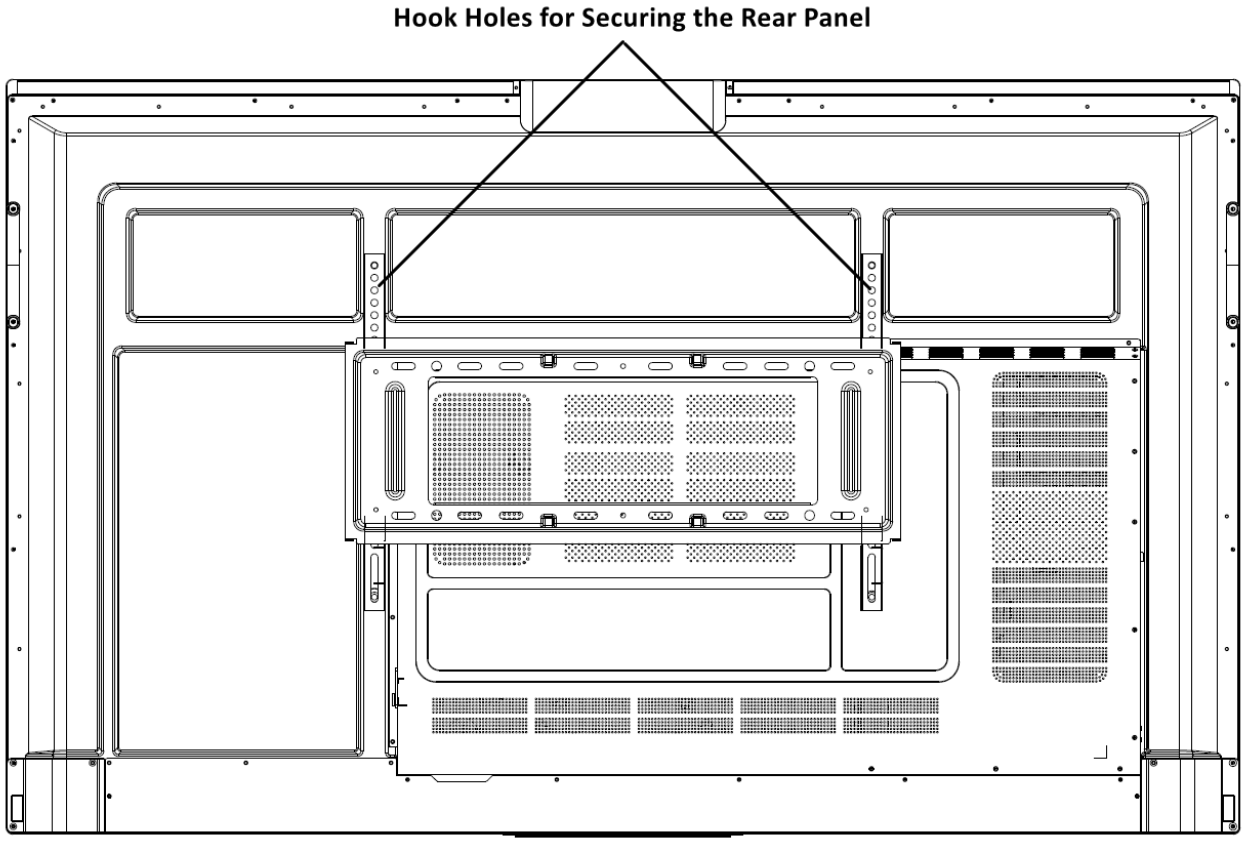



Figure 3-14 Wall Mounting Rear View (65 inch With Camera)

**Note**

The mounting position is illustrated using a 65-inch model with camera as an example. For rear views of other sizes, please refer to "***3.3 Internal Computer Installation***".

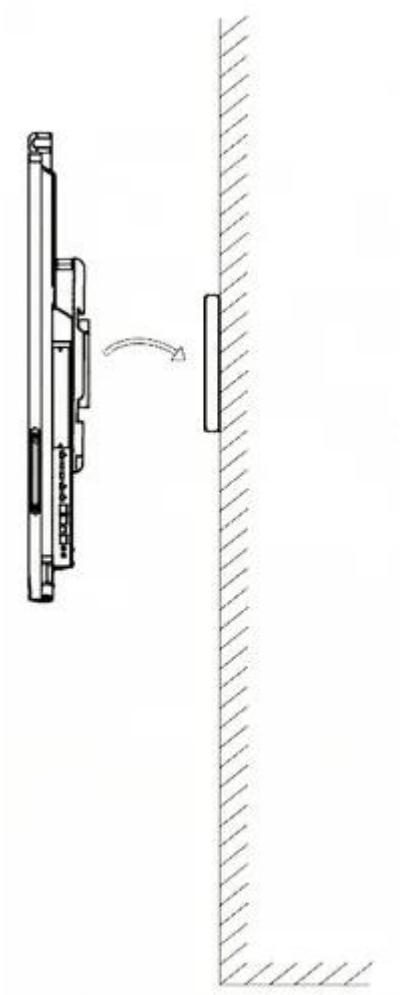


Figure 3-15 Wall Mounting Side View

**Note**

The wall mounting is mobile horizontally. Please leave a space no less than 6 cm at each side (or 12 cm at one side), and 5 mm at the top and bottom for maintenance service.

# Chapter 4 Startup and Shutdown

## 4.1 Device Startup

### 4.1.1 Installed Without a Computer Box

***Steps***

Step 1 Connect the device to power supply.

Step 2 Turn on the power switch, and the power indicator on the front panel will turn red.

Step 3 Push the power button on the front panel to start up the device, the indicator will turn blue.

### 4.1.2 Installed with a Computer Box

Install the box when the device is disconnected from power and turn on the power switch after the installation is finished. During the startup, the power indicator of the box will turn red and the fan will start. After a beep sound, the power indicator will turn green and the computer is switched on. Meanwhile, the power indicator on the front panel will turn blue which means the device is switched on.

## 4.2 Standby Mode

### 4.2.1 Networked Standby Mode

The device defaults to networked standby mode upon shipment or after a factory reset.

The device can enter the networked standby mode via the following methods (with the red power indicator):

- Long press the power button.
- Use the bundled infrared remote control.
- Configure scheduled shutdown.
- Send the corresponding command via the serial port.

Please go to ***6.9 Advanced Settings*** → **Wakeup Settings** to find methods to wake the device in the networked standby mode.

### 4.2.2 Normal Standby Mode

**Enter Normal Standby Mode**

Go to **Settings** → **Advanced Settings** → **Energy Saving Shutdown** to enter the normal standby mode (with the power indicator off).

**Note**

The device will enter standby mode by default after 10 minutes of no operation.

**Waking up the Device**

Wake up the device via the following methods:

- Press the power button on the front panel.
- Press the power-off button on the remote control.
- Touch anywhere on the screen twice.

## 4.3 Shutdown

- If the device is not installed with a computer box or the computer box is shut down, directly switch off the power to shut down the device.
- If the device is installed with a computer box which is powered on, tap **Start** and choose **Shutdown**, or press the power button on the computer box to shut it down (press and hold the power button to force shutdown). Then switch off the power to shut down the device.

  **Note**

  Switching off the power of the device directly leads to force shutdown of the computer box. Next time the device starts up, Windows may enter error recovery mode and screen touch will be disabled. In this case, you need to connect a mouse and a keyboard to the device.
- Press and hold the power-off button on the remote control.

# Chapter 5 Menu Operations

**Note**

Software interfaces and functions may vary with device models. All pictures in this manual are for illustration purpose only.

Turn on the device and go to the main page. The shortcut menu is displayed at the bottom of the screen.

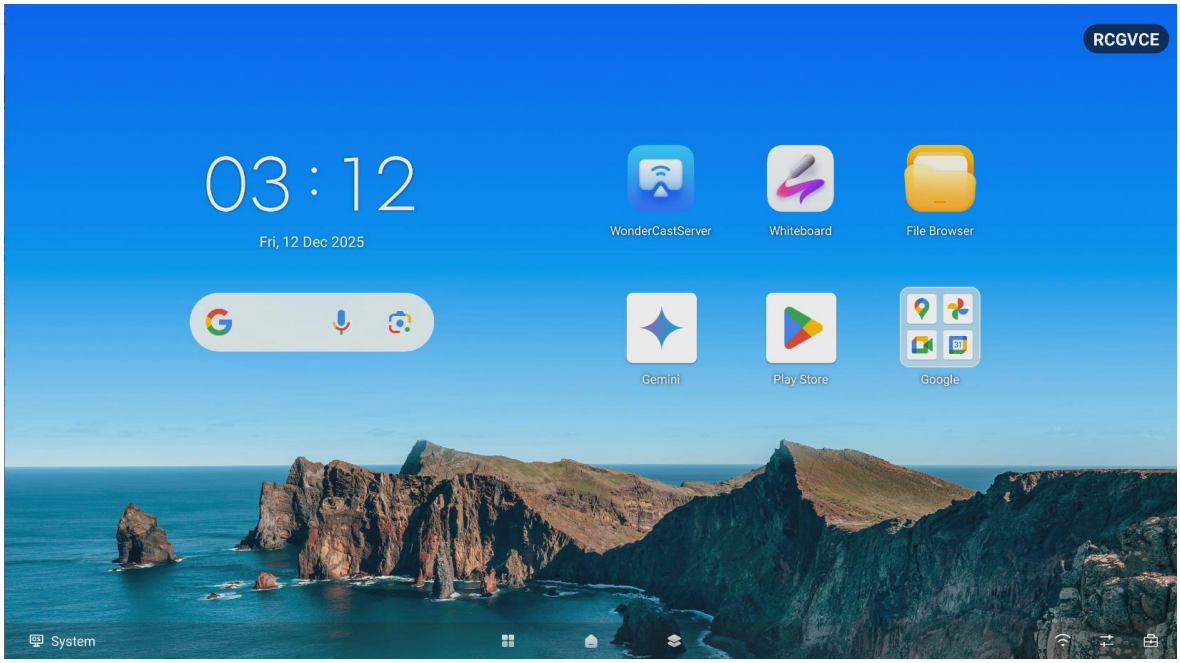



Figure 5-1 Main Page

**Note**

Press and hold the icons of applications on the main page to realize the following operations:

- Move applications cross screen.
- Merge applications into folders with other applications.

## 5.1 Basic Operations

Functions of the shortcut icons are described below.




Figure 5-2 Shortcuts

Table 5-1 Shortcuts Description

| No. | Function | No. | Function |
|---|---|---|---|
| 1 | Tap to hide the menu bar at the bottom. | 6 | Tap to check or clear all the apps of processes. |
| 2 | Tap to return to the previous page. | 7 | Tap to configure network parameters and hotspot. |
| 3 | Tap to select the input source. | 8 | Tap to configure brightness and volume. |
| 4 | Tap to check all the applications.<br>Press and hold to move the selected application to display in split-screen mode or window mode. | 9 | Tap to open the control menu. |
| 5 | Tap to return to the main page. | / | / |

**Note**

Up to 20 pens are allowed when lines with angled stroke is disabled, while only one when enabled.

After the bottom bar menu is hidden, it can be called out through .



Figure 5-3 Call Out Bottom Bar

## 5.2 System Bar

Press and hold the area of system bar to modify the layout of apps in the system bar.

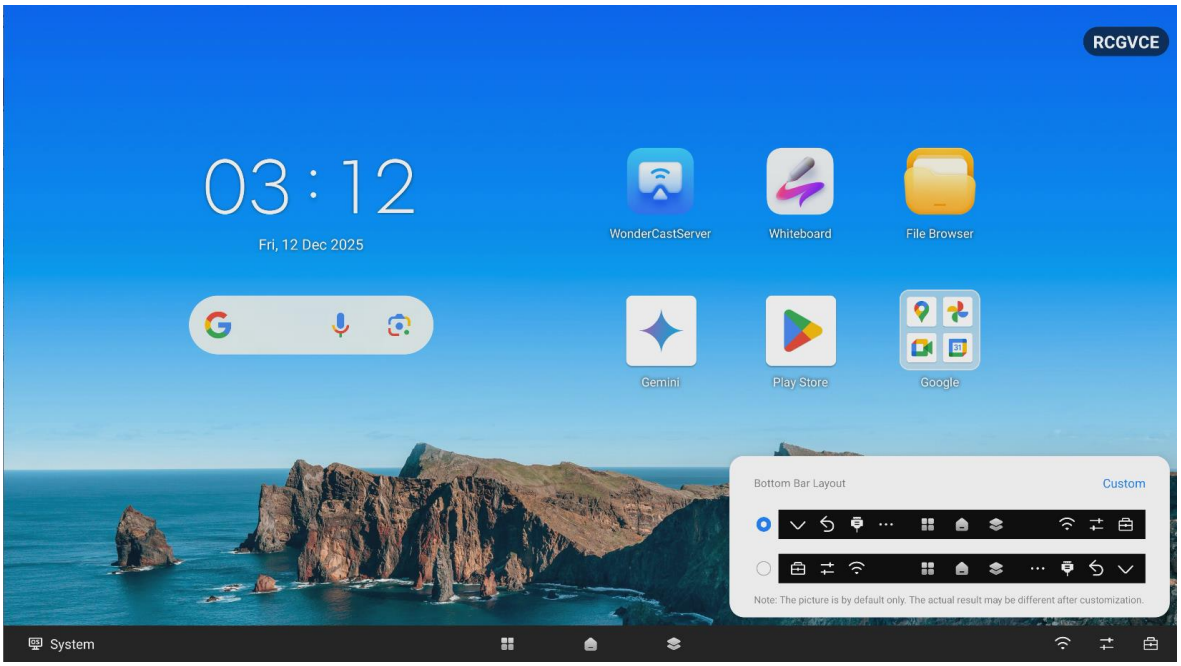



Figure 5-4 Layout of System Bar

Tap **Customize**, and move an icon to adjust its position.

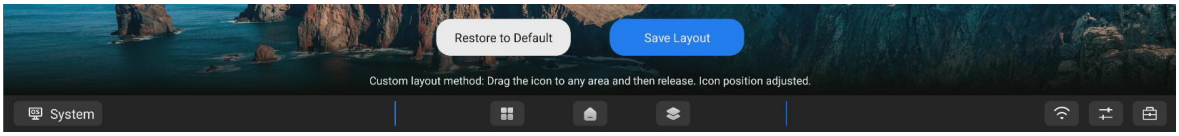



Figure 5-5 Customize the Layout of System Bar

## 5.3 Input Source

Tap the icon of input source at the bottom, and set the input source of the device. **System**, **HDMI 1**, **HDMI 2, Type-C, DP,** and **VGA** are available.

## 5.4 Network

Set the detailed parameters of wired network, wireless network, and WLAN hotspot. Refer to ***Network Settings*** for more details.

## 5.5 Control Menu

Tap  at the bottom to show the control menu. The following operations are available.

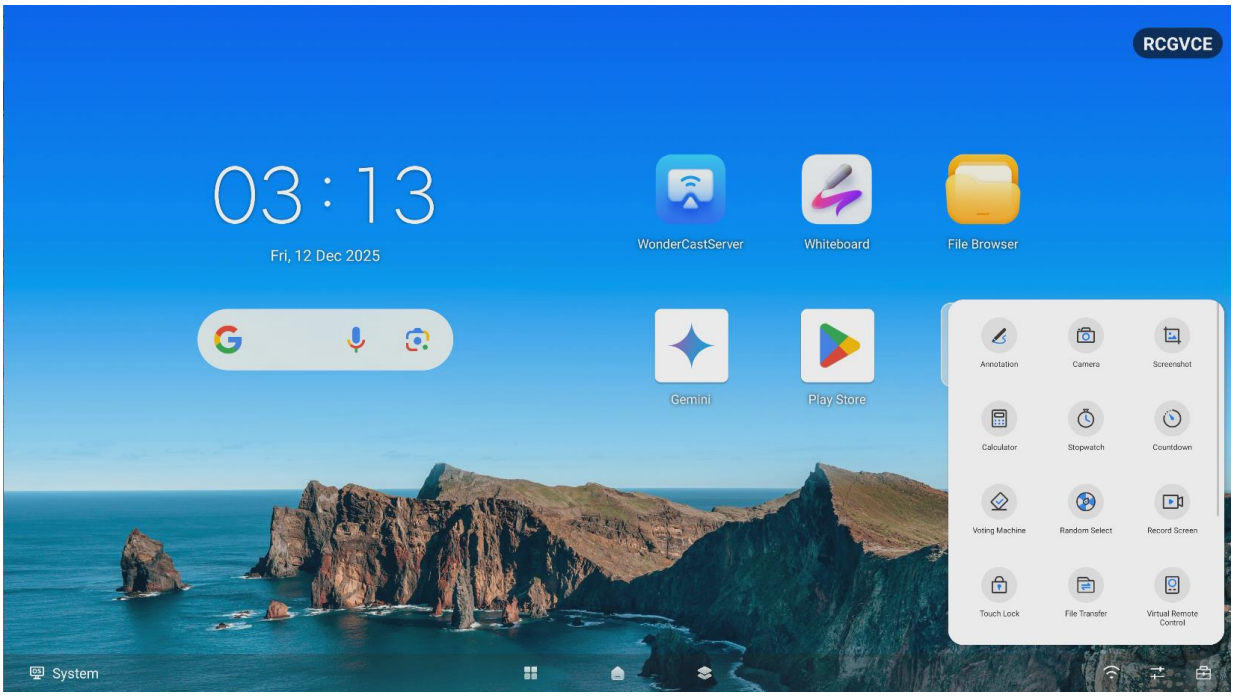



Figure 5-6 Control Menu

Table 5-2 Control Menu Descriptions

| Tool | Description |
|---|---|
| Annotation | Take annotations on the current page. |
| Camera | Open the camera bound to the device. |
| Screenshot | Capture the current page. |
| Calculator | Enable the built-in calculator. |
| Stopwatch | Measure the amount of time. |
| Countdown | Count seconds backwards to zero. |
| Voting Machine | Set vote settings to vote. |
| Record Screen | Record the screen as a video. |
| Touch Lock | Tap to enable touch lock, and no touch operation on the locked page is available. Tap the lock and exit, the touch function will return to normal. |
| File Transfer | Transfer files. |
| Virtual Remote Controller | Enable the virtual controller. The hovering display remote control menu supports up, down, left, right, confirm, return and home buttons, and the hovering virtual remote control position can be moved. |
| Metronome | Tap to see the Metronome. After tapping the start button, beat can be heard. The notes and beat can be adjusted. |
| Magnifier | Tap the Magnifier. Then touch the screen to see a zooming circle and move to see details. The size of the circle can be adjusted. |
| Spotlight | Tap to enable an aperture. The brightness and the size can be adjusted. |
| Freeze Screen | Freeze the current page. |
| Black Screen | Tap to turn off the screen. |
| Calendar | Check the date information. |
| Piano | A virtual piano tool. |
| Random Select | Set number of options to select one randomly. |

## 5.5.1 Annotation

Go to → **Annotation** to take notes. You can add notes anywhere on the page by touching and moving on the screen.

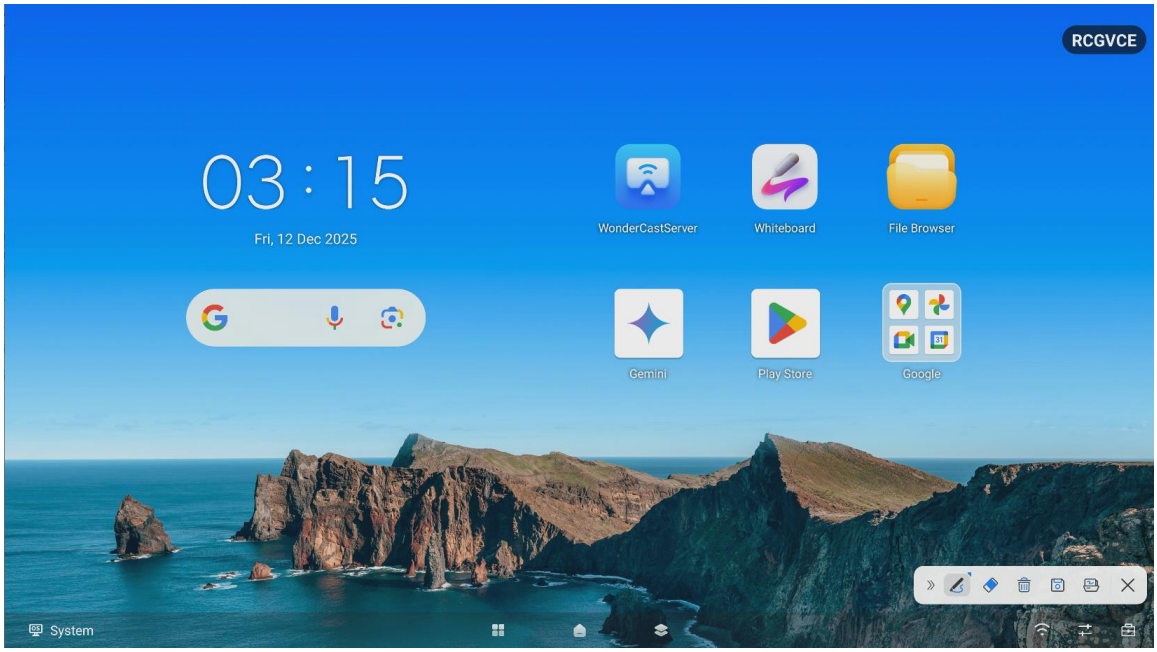



Figure 5-7 Take Notes

Table 5-3 Icon Descriptions

| Icon | Description |
|---|---|
| | Pen color and size are customizable.<br>Enable angled stroke or not. Tap to have lines with angled stroke, and tap to have lines without angled stroke. |
| | Erase the desired notes. |
| | Clear all the notes. |
| | Save the current page.<br>Generate QR code of notes when flat panel connects to the LAN. Devices in the same LAN can scan the QR code to download notes. |
| | Save the annotation temporarily. |
| | Exit note. |
| / | Collapse/Expand note toolbar. |

## 5.5.2 Screenshot

Go to → **Screenshot**, and a capture area pops up on the current page. Adjust the area by tapping and dragging the four corners. The screenshot toolbar pops up on the lower right corner of the area.

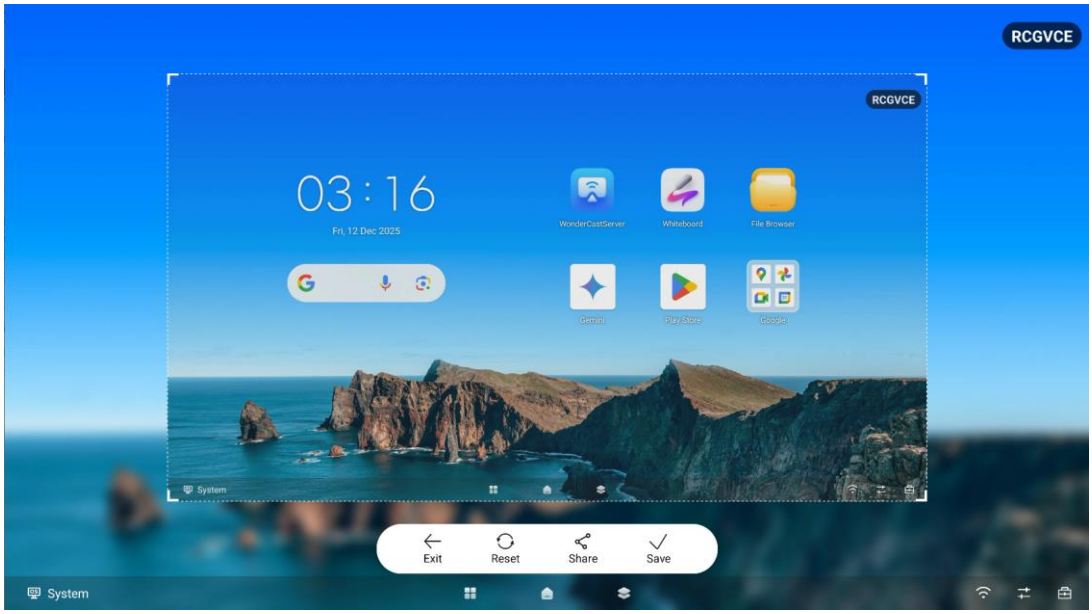



Figure 5-8 Screenshot

Table 5-4 Screenshot Toolbar Descriptions

| Icon | Description |
|---|---|
| ← | Exit screenshot. |
| ↻ | Capture the whole page. |
| ⋔ | Generate QR code from the screenshot, and devices in the same LAN can scan the QR code to download the screenshot. |
| ✓ | Save the screenshot in the capture area. |

## 5.5.3 Vote Machine

After the flat panel is connected to the public network, tap **Vote** in the Control Menu. You can choose quick vote or vote according to options have been set.

***Before You Start***

Make sure the device is connected to the network.

**Quick Vote**

***Steps***

Step 1 Tap **Quick** to select the number of voting options.

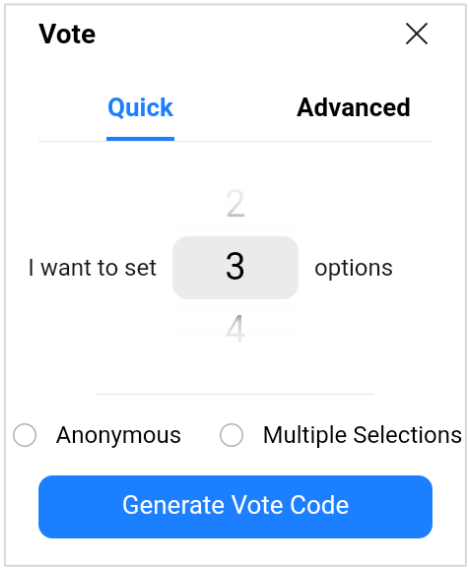



Figure 5-9 Quick Vote

Step 2 Configure the following parameters according to the actual needs.

- Anonymous: Vote without name.
- Multiple Selections: Select multiple-options when voting.

Step 3 Tap **Generate Vote Code** to vote through scanning the code by mobile phone.

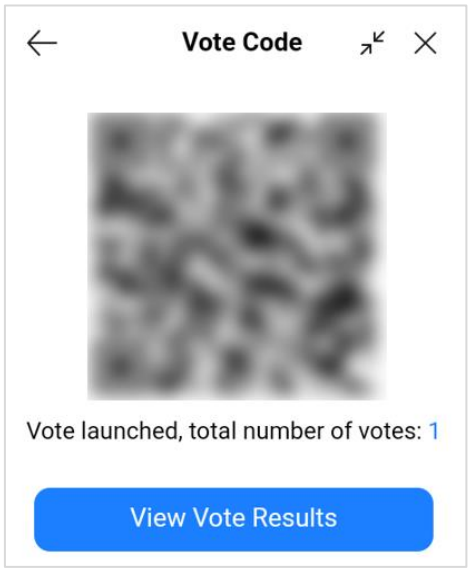



Figure 5-10 Vote by Mobile Phone

Step 4 Tap **View Vote Results** to end voting and check the details.

Step 5 (Optional) Tap **Scan to Download** to download the voting results through mobile phone.

**Advanced Vote**

***Steps***

Step 1 Tap **Advanced** to set the vote through scanning QR code by mobile phone.

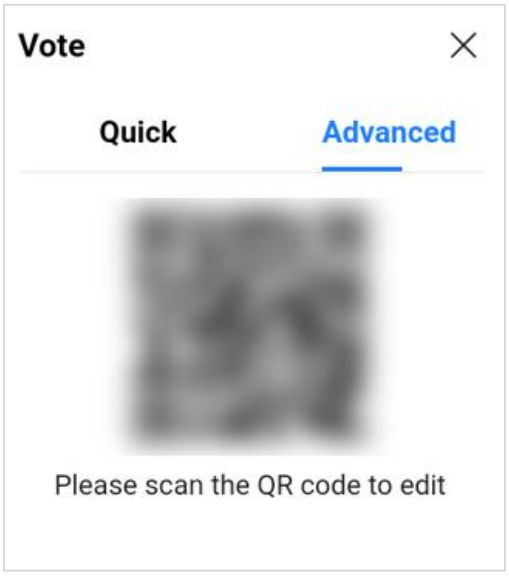



Figure 5-11 Advanced Vote

Step 2 Configure the following parameters according to the actual needs.

- Vote Theme/Vote Options: Custom configuration.
- Anonymous: Vote without name.
- Multiple Selections: Select multiple-options when voting.

Step 3 Tap **Launch Vote** to vote through scanning code by mobile phone.

Step 4 Tap **View Vote Results** to end voting and check the details.

Step 5 (Optional) Tap **Scan to Download** to download the voting results through mobile phone.

## 5.5.4 Random Select

In the classroom, you can initiate lucky draw or randomly select a student to answer questions.

***Steps***

Step 1 Go to → **Random Select**, and set the number of options. Tap **Next**.

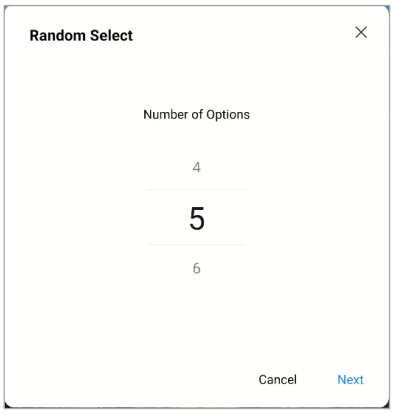



Figure 5-12 Set Number of Options

Step 2 Tap  to start spinning the lucky wheel, and tap again to stop. Then you will see the randomly selected option.

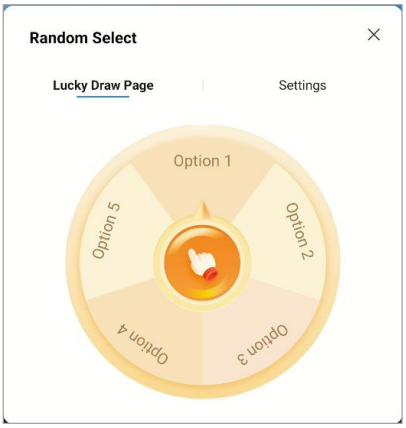



Figure 5-13 Lucky Wheel

**Note**

Tap **Settings**, and you can edit the name of options.

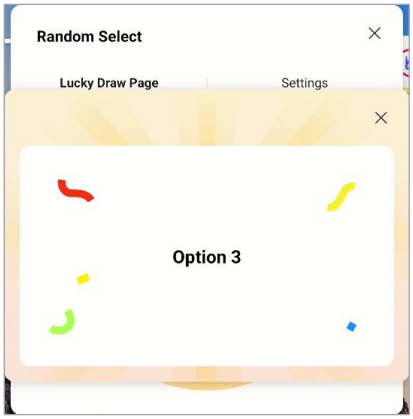



Figure 5-14 Selected Option

# 5.6 Camera Functions

## 5.6.1 Camera

Tap **Camera** to take a photo or video.

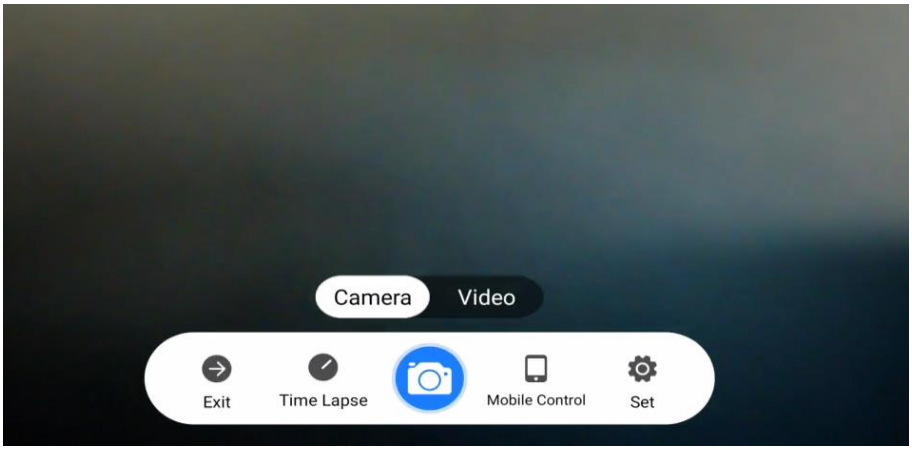



Figure 5-15 Camera

Table 5-5 Screenshot Toolbar Descriptions

| Icon | Description |
|---|---|
| | Exit camera. |
| | Delay taking pictures according to the selected delay time. |
| | Take photos. You can import the photos to the whiteboard or save them to your phone. |
| | After the mobile phone and the device are connected to the same LAN, you can control the camera to take photos by scanning the code. |

## 5.6.2 Video

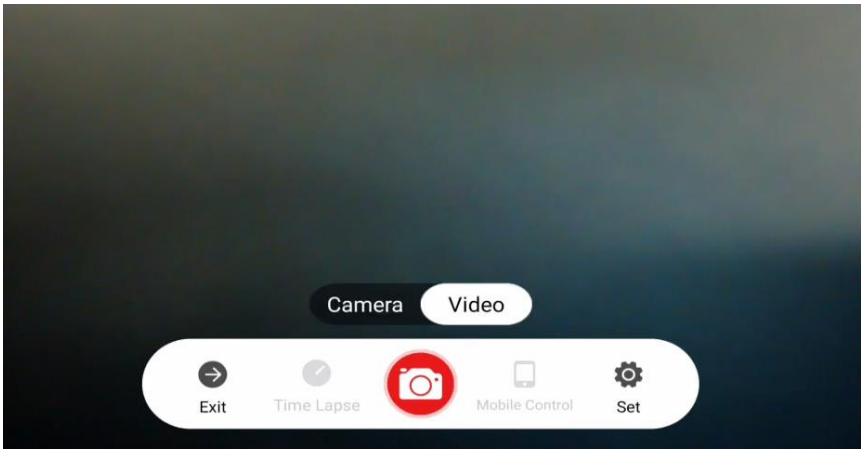



Figure 5-16 Video

Table 5-6 Screenshot Toolbar Descriptions

| Icon | Description |
|---|---|
|  | Exit video. |
|  | Start recording. |

## 5.6.3 Settings

Tap **Settings** to configure the following parameters.

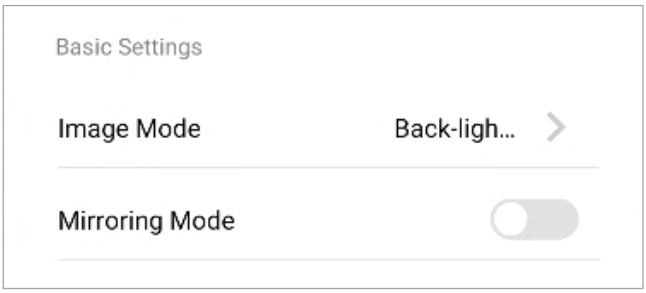



Figure 5-17 Set Camera

**Image Mode**

Tap to select image mode, including **Standard**, **Vivid**, and **Back-lighting**.

**Mirroring Mode**

Enable to mirror the camera's image.

# Chapter 6 System Settings

The screen displays the main page after the device is turned on. Slide the screen to the left of right to view applications, device status, and help documents.

## 6.1 Network Settings

The network status is displayed at the bottom of the screen.

Table 6-1 Different Network Status

| Icon | Description |
|---|---|
| | Connected to a wired network. |
| | Connected to a wireless network. |
| | No network connected. |

### 6.1.1 Wired Network Settings

***Steps***

Step 1 Go to **Settings** → **Network** → **Wired Network**.

Step 2 Enable **Wired Network**, and configure **IPv4** or **IPv6**.

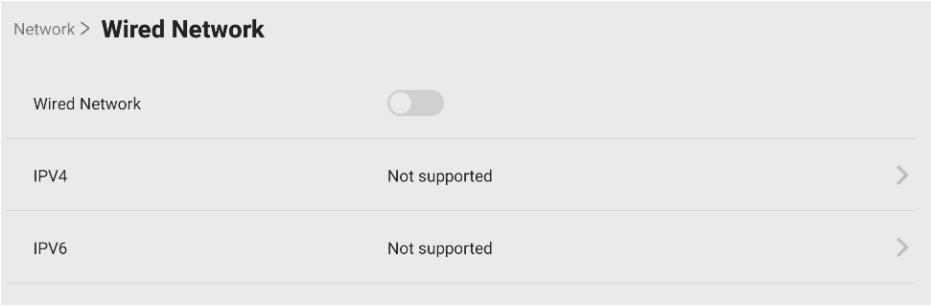



Figure 6-1 Wired Network Settings

Step 3 (Optional) Tap to enable **Proxy** or **Static IP**.

**Proxy Settings**

When proxy is enabled, you need to set **Proxy Host** and **Port No.**, and set the URLs that do not use the proxy.

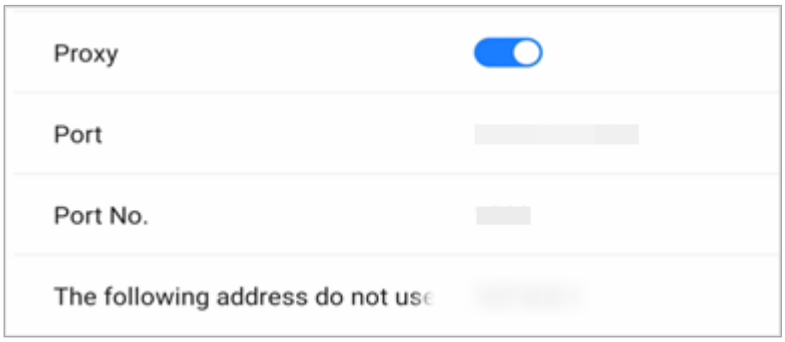



Figure 6-2 Proxy Settings

**Static IP Settings**

When static IP is enabled, you need to set network parameters, such as **Static IP**, **Gateway**, **Subnet Mask**, **DNS1**, and **DNS2**.

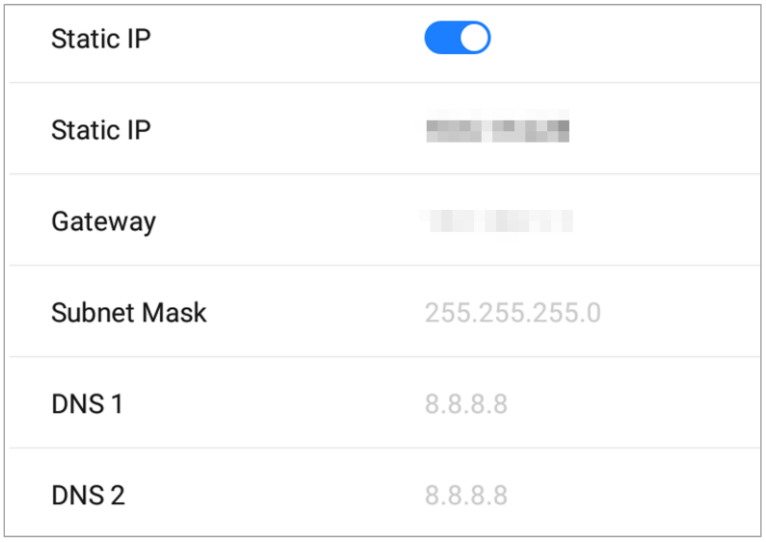



Figure 6-3 Static IP Settings

## 6.1.2 Wireless Network Settings

***Steps***

Step 1 Go to **Settings** → **Network** → **Wireless Network**.

Step 2 Enable WLAN, and you can add a new network or connect to an available network.

**Connect to Available Networks**

- Tap the desired network in the available network list, and enter the password to connect.
- Tap **Connect**, and network information page pops up. Tap **Clear Network** to delete the information of the selected network. Tap **Cancel** to exit the page.

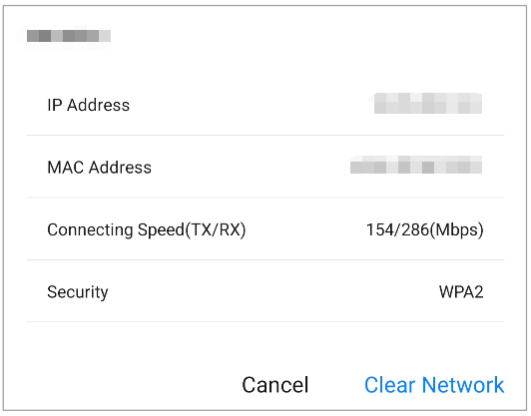



Figure 6-4 Wireless Network Information

**Add Other Networks**

***Steps***

Step 1 Tap **Add Other Networks**.

Step 2 Enter Wi-Fi name and select **Security**.

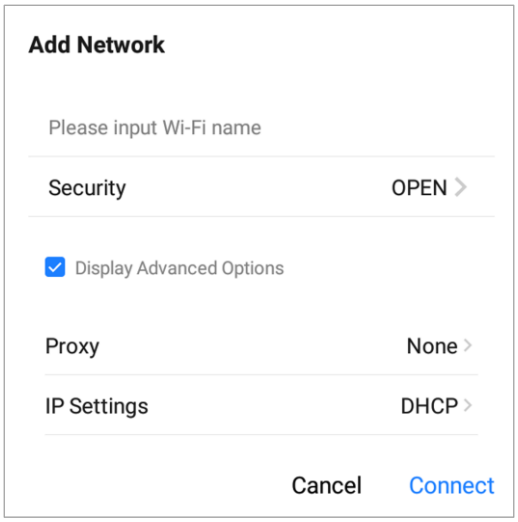



Figure 6-5 Add Other Network

Step 3 Optional: Check **Display Advanced Settings** to select proxy and network IP type.

Step 4 Tap **Connect** to connect the device to the added wireless network.

## 6.1.3 WLAN Hotspot Settings

When the device is connected to the wired network, it can provide wireless network for other devices with WLAN hotspot enabled.

***Steps***

Step 1 Go to **Settings** → **Network** → **Hotspot**.

Step 2 Enable **Portable WLAN Hotspot**.

**Optimal Channel:** After enabling, you can choose the optimal channel in the list.

**Hotspot Isolation:** AP isolation blocks communication between devices on the same Wi-Fi network to protect user privacy. After enabling AP isolation, even if the device is connected to the LAN, it cannot access resources such as websites in the LAN.

Step 3 Set parameters in the pop-up page.

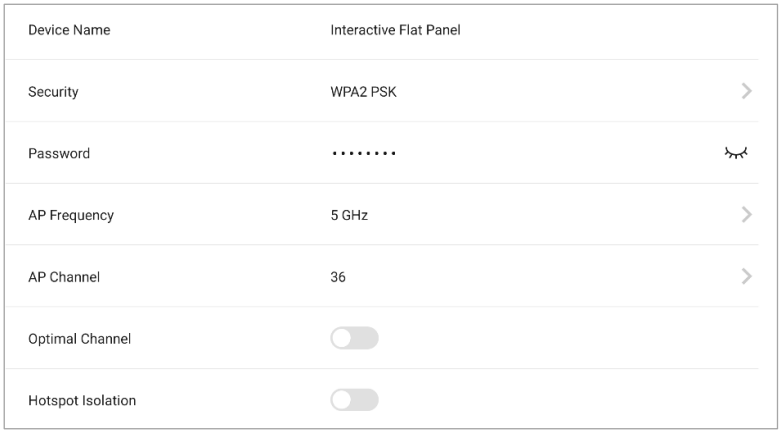



Figure 6-6 Hotspot Settings

**Note**

If the device supports both 2.4 GHz and 5 GHz, set 5 GHz as **AP Frequency**, and recommended channels as **AP Channel** for better experience functions such as wireless screen mirroring.

## 6.2 Display Settings

Go to **Settings** → **Display** to adjust parameters, such as brightness and sleeping time.

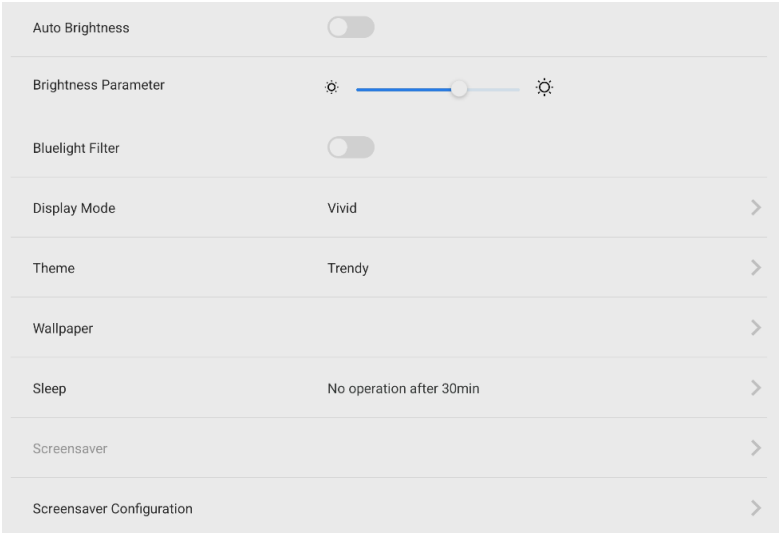



Figure 6-7 Display Settings

**Auto Brightness**

The device can adjust brightness according to the environment automatically when enabled.

**Brightness Parameter**

Slide the slider to adjust the brightness of the screen.

**Bluelight Filter**

Enable the function to protect your eyes by filtering blue light.

**Display Mode**

Configure display mode: **Bright**, **Standard**, **Dynamic**, **Vivid**, and **Custom**.

- Custom Mode
  1) Select **Custom** to enter custom mode.
  2) Tap **Custom** in the left-bottom corner, and slide to adjust parameters. Tap **Save** to save your own mode. Only one custom mode can be saved.

**Theme**

Set the device theme. Tap **Settings** to select a desired theme, and tap **Apply**.

**Wallpaper**

Tap **Wallpaper** to select a desired picture from wallpaper library or the system picture library as wallpaper, or restore to the default wallpaper.

**Sleep**

Set an inactivity period for sleep mode.

**Screensaver**

Set an inactivity period for enabling screensaver.

**Screensaver Configuration**

Tap to select a screensaver picture in the pop-up page, and tap **Live View** to preview the effect. Tap **Apply** to set the selected picture as the screensaver. The screensaver can also be customized.

**Note**

You can add new screensaver pictures in **Screensaver Configuration** by tapping +.

## 6.3 Audio Settings

***Steps***

Step 1 Go to **Settings** → **Audio** to set audio parameters.

Step 2 Select **Audio Mode** based on the actual installation method.

- Normal Mode: With bass, the sound is natural;
- Meeting Mode: Focusing on clear vocals, reducing bass, default meeting mode.

Step 3 Adjust the **Volume** value.




Figure 6-8 Audio Settings

## 6.4 Language and Input Settings

***Steps***

Step 1 Go to **Settings** → **Language & Input**.

Step 2 Tap **Language** to select the desired language.

Step 3 Tap **Input Method** to select the desired input method.

Step 4 Tap **Region** to select the region.

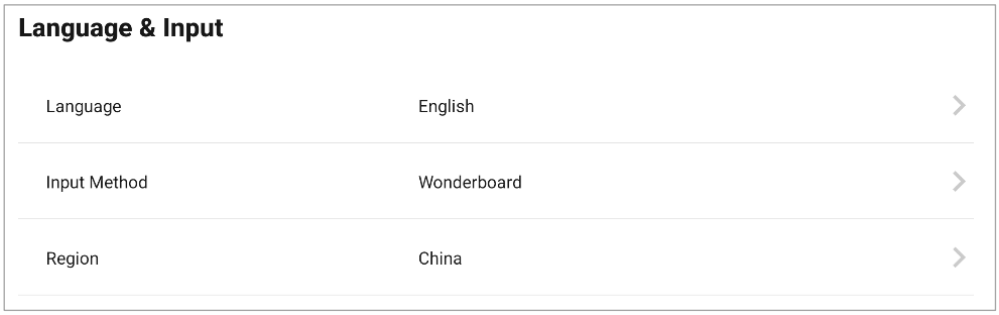



Figure 6-9 Language and Input Settings

## 6.5 Date and Time Settings

***Steps***

Step 1 Go **Settings** → **Date & Time**.

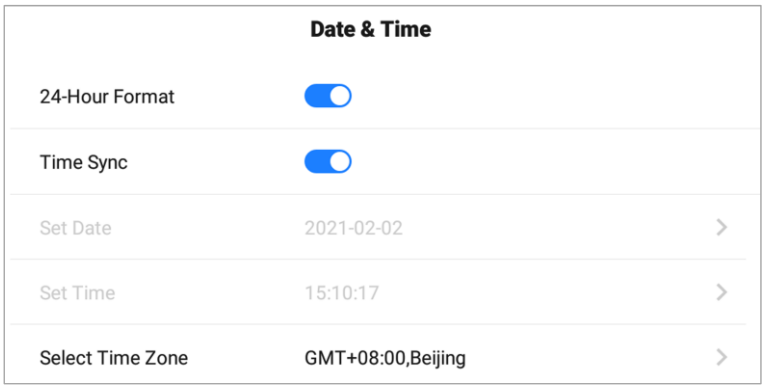



Figure 6-10 Date and Time Settings

Step 2 Enable **Time Sync**.

Step 3 Tap **Select Time Zone** to select the region.

Step 4 Optional: Enable **24-Hour Format** to display the time in 24-hour format.

**Note**

If **Time Sync** is disabled, you can set date and time manually.

## 6.6 Application Management

***Steps***

Step 1 Go to **Settings** → **Application Management**.

Step 2 Tap the desired application to check details.

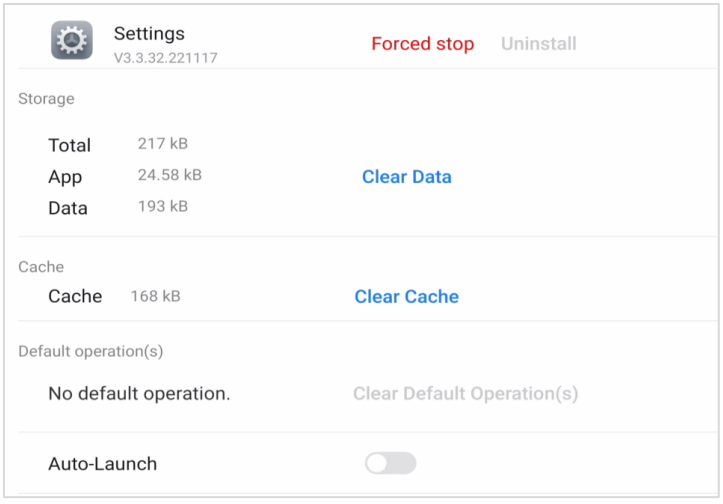



Figure 6-11 Application Details

**Note**

- The built-in applications cannot be uninstalled. You can tap the icon in **Application Details** to open the application.
- After the third-party application is installed, the 4K display can be enabled (effective after the equipment is restarted).

Step 3 Enable **Auto-Launch**. The selected application will be started automatically when the device is powered on.

## 6.7 Bluetooth

The remote control, audio, keyboard, etc. can be connected through Bluetooth, and file transfer can also be performed.

Enable **Bluetooth** to search the available devices nearby, and tap the desired one to connect.

## 6.8 Auxiliary Functions

### 6.8.1 Sidebar

Enable **Sidebar** to find quick operations of some functions, such as annotation, switching signal source, tools in control menu, adjusting brightness.

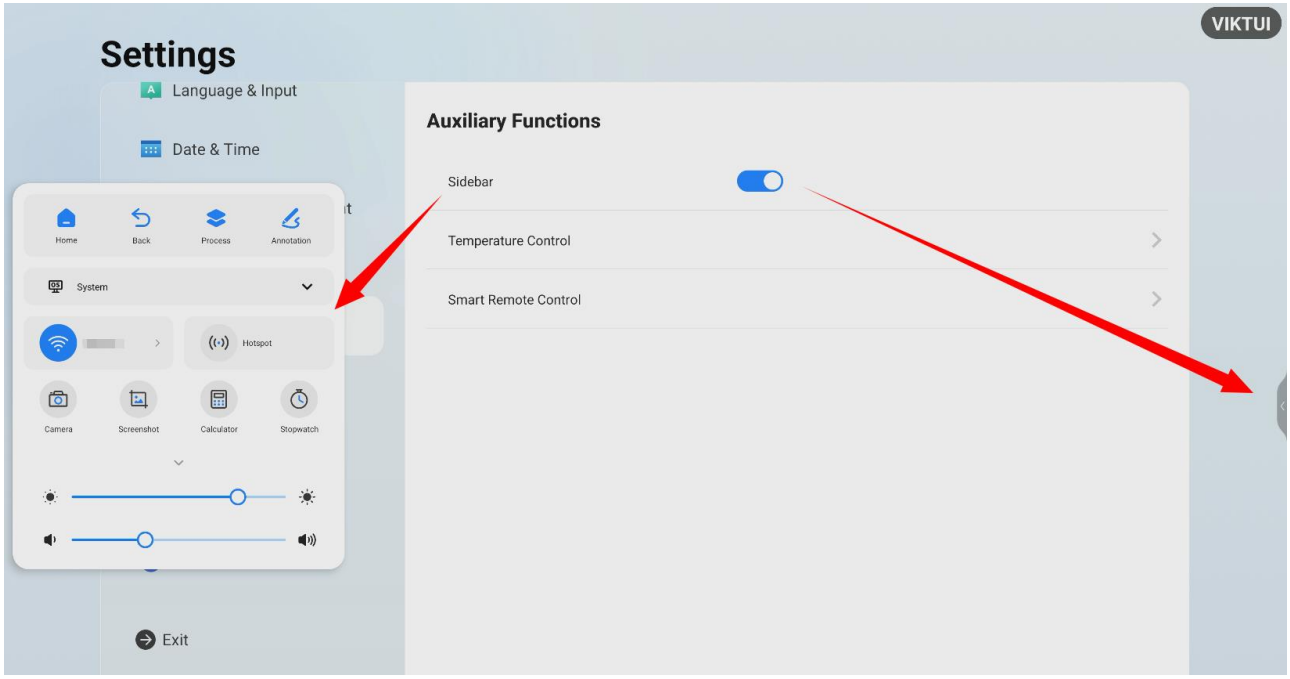



Figure 6-12 Sidebar

## 6.8.2 Temperature Control

The device monitors inner temperature in real time. When the temperature exceeds the set warning or alarming temperature, the device will display prompt messages for you to take measures in a timely manner.

***Steps***

Step 1 Go to **Settings** → **Auxiliary Functions** →**Temperature Control**.

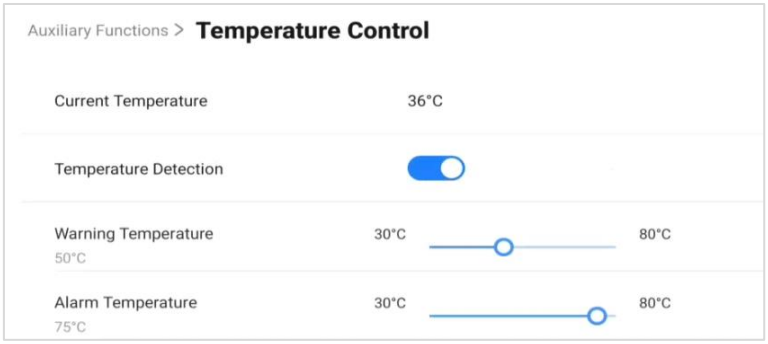



Figure 6-13 Intelligent Temperature Control

Step 2 Enable **Temperature Detection**.

Step 3 Slide the slider to set Warning Temperature and Alarming Temperature.

**Note**

When the temperature exceeds the set alarming temperature, the temperature information pops up and prompts you to turn off the device.

## 6.8.3 Physical Button Settings

The function of Physical Button can be customized.

***Steps***

Step 1 Go to **Settings** → **Auxiliary Functions** → **Physical Button Settings**.

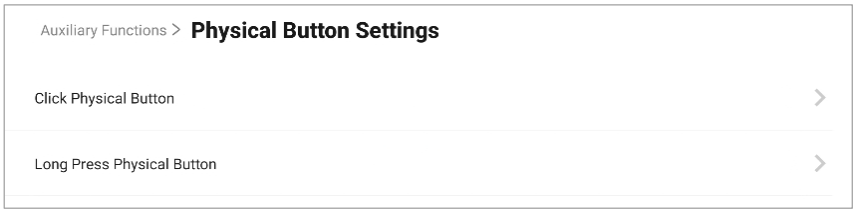



Figure 6-14 Physical Button Settings

Step 2 Tap **Click Physical Button** to set one of the following functions: OPS Switch, Quick Recording, Quick Open Whiteboard, Switch to PC, or No Operation. The default setting is **Switch to PC**. When you press the Physical Button, the device will switch to PC.

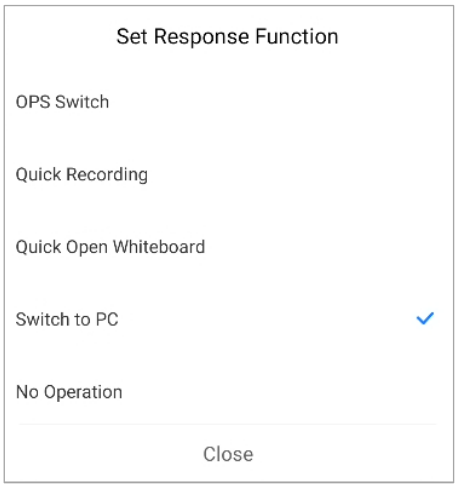



Figure 6-15 Response Function Settings

Step 3 Tap **Long Press Physical Button** to set the function. When you press and hold the Physical Button, the corresponding function that you set will be operated.

## 6.9 Advanced Settings

Select **Settings** → **Advanced Settings**. You can set parameters as follows.

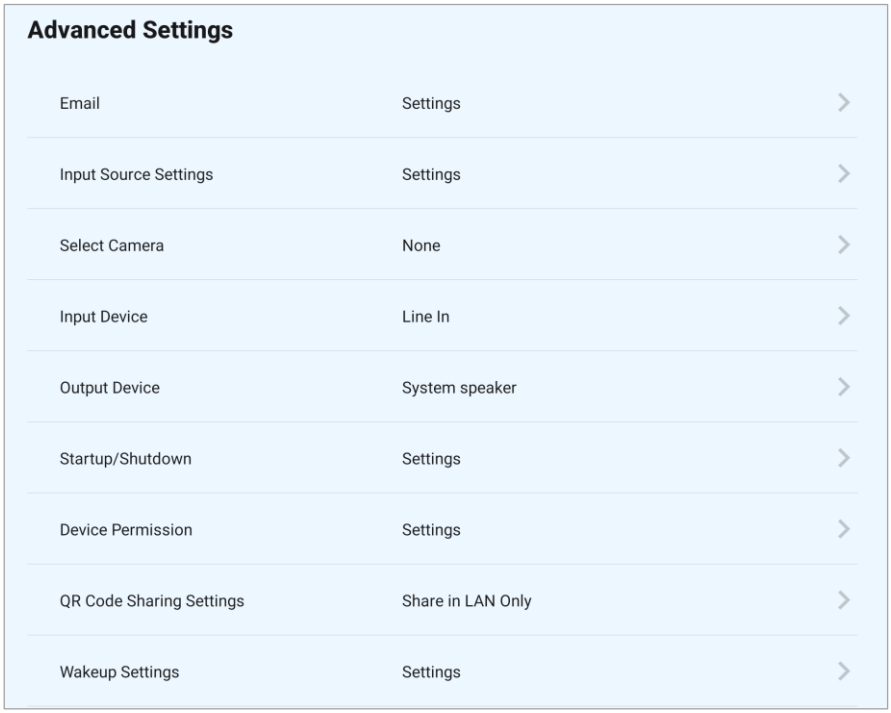



Figure 6-16 Advanced Settings

**E-mail**

Set the E-mail address for receiving shared contents from whiteboard.

**Input Source Settings**

- Startup Input Source

  Select the desired input source as the device starts up. You can select a built-in system, or an external input source. The default boot input source is Android. Customize input source names are supported.

- Auto Switch When Connecting Signal Source

  If this function is enabled, the system will switch to the newly-connected input source when an external input source is connected.

- Auto Switch When Disconnected from Signal Source

  If this function is enabled, the system will switch to the configured input source as the device is disconnected from the external input source.

**Select Camera**

Select a camera among those bound to the device.

**Input Device**

It supports external USB input audio devices, and can select audio input devices from multiple devices.

**Output Device**

It supports external USB output audio devices, and can select audio output devices from multiple devices.

**Startup/Shutdown Settings**

- Startup Mode

  Select Startup or Standby.

- Scheduled On/Off

  Set the schedule for startup and shutdown.

- No-Signal Shutdown

  Set the time for auto-shutdown if no signal is accessible.

**Device Permission Settings**

- Disable Wi-Fi

  If Wi-Fi is disabled, the device cannot be connected to the wireless network.

- Disable USB Flash Drive

  If you disable USB flash drive, the external storage device cannot be used.

**QR Code Sharing Settings**

Share the content of whiteboard through a QR code with other devices in the same LAN.

**Wakeup Settings**

- Wake from Serial Port

  If this function is enabled, the device in standby status can be woken up by serial port command.

- Wake from Signal Source

  HDMI signal wake-up is enabled by default. When the device is turned off, it can be turned on through HDMI input.

**Note**

If this function is disabled, the device in standby status can be waken up through the power switch or remote control power switch, and cannot be turned on through the serial port and HDMI.

**EDID Version**

Supports to select EDID's version.

**Energy Saving Shutdown**

Tap **Shutdown** to turn off the device and save energy.

# 6.10 User Settings

Go to **Settings** → **User Settings** to set the account information and login method.

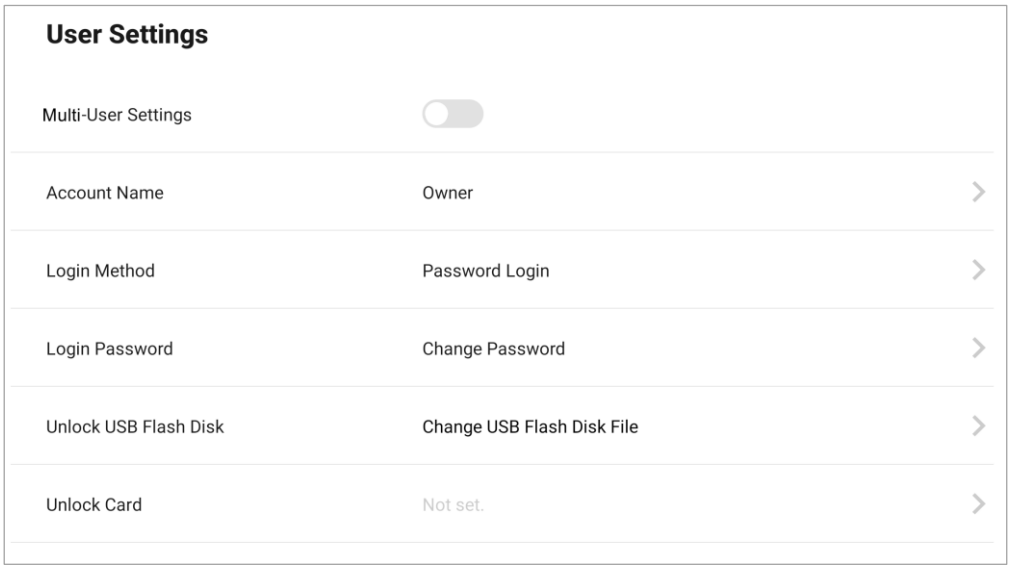



Figure 6-17 User Settings

**Multi-User Settings**

Enable **Multi-User Settings**, you can edit the current user, set the login methods, add, change and delete accounts.

**Account Name**

You can set and edit your own account name.

**Login Method**

Choose the login method from **Password-Free Login** or **Password Login**.

**Login Password**

Tap to set and change the login password.

**Unlock USB Flash Disk**

Tap to set the login method with USB Flash Disk.

***Steps***

Step 1 Tap **Unlock USB Flash Disk**.

Step 2 Enter the login password, and then insert one USB flash drive.

Step 3 Tap **Generate File**. The device will automatically generate the unlocking file in the USB flash drive. After the file is generated, you can log in easily by directly inserting the USB flash drive next time.




Figure 6-18 Link the Unlocking USB Flash Drive

**Unlock Card**

Tap to set the login method with the unlocking card.

***Steps***

Step 1 Tap **Unlock Card**.

Step 2 Enter the login password, and you can see **Link the Unlocking Card**.

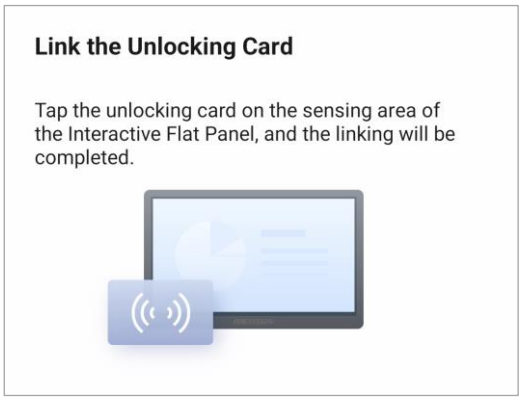



Figure 6-19 Link the Unlocking Card

Step 3 Tap the unlocking card on the sensing NFC area of the device. After the linking is completed, you can directly tap the unlocking card on the sensing area next time to log in.

## 6.11 Device Information

Go to **Settings** → **About** to check the device information. The device name is customizable, and you can restore the device to the default settings.

**Caution**

All the data will be lost if the settings are restored to the default status.

## 6.12 Negative Screens

Slide from the left side of the screen to the right to call up the negative screens, where you can view the device status and system help.

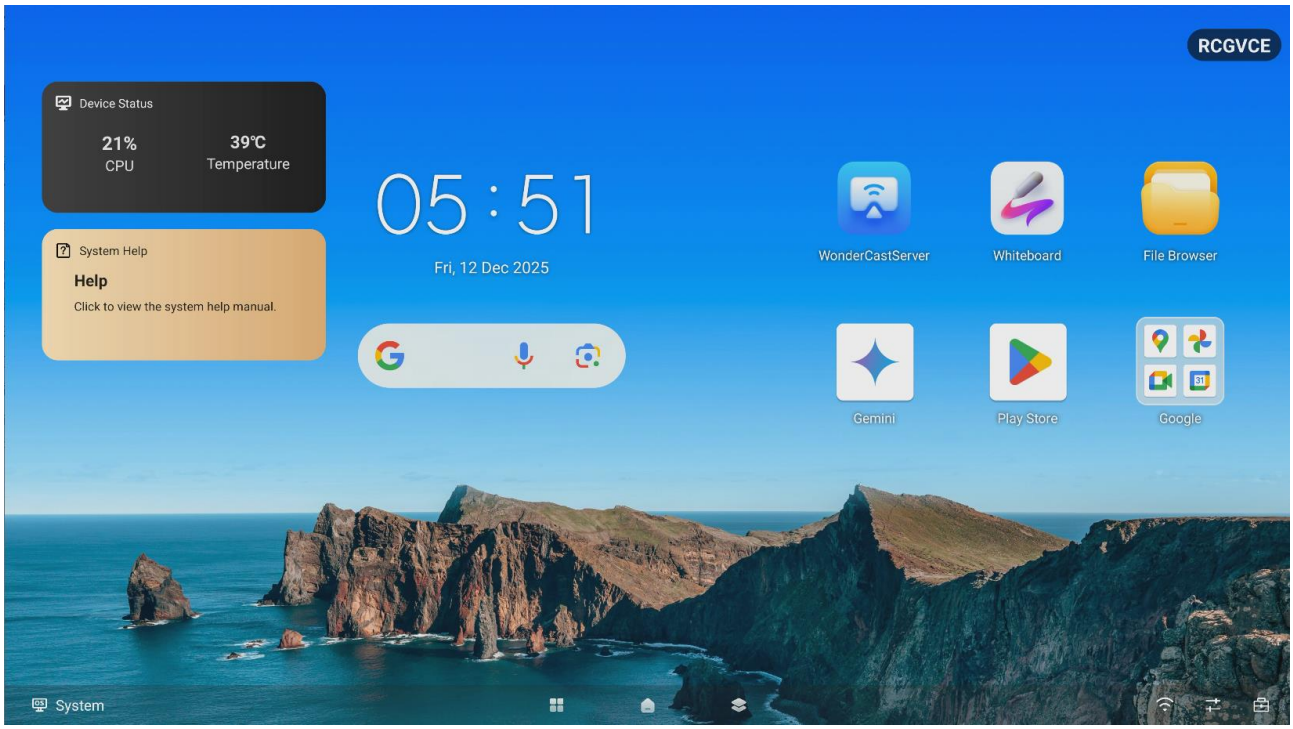



Figure 6-20 Negative Screens

# Chapter 7 Intelligent Applications

## 7.1 FileBrowser

Tap **FileBrowser** on the main page. All the files under the current directory are shown by default.

### 7.1.1 Local Storage

Tap **Image**, **Doc**, **A/V**, or **Installation Package** to view specified files. Icons are described as follows.

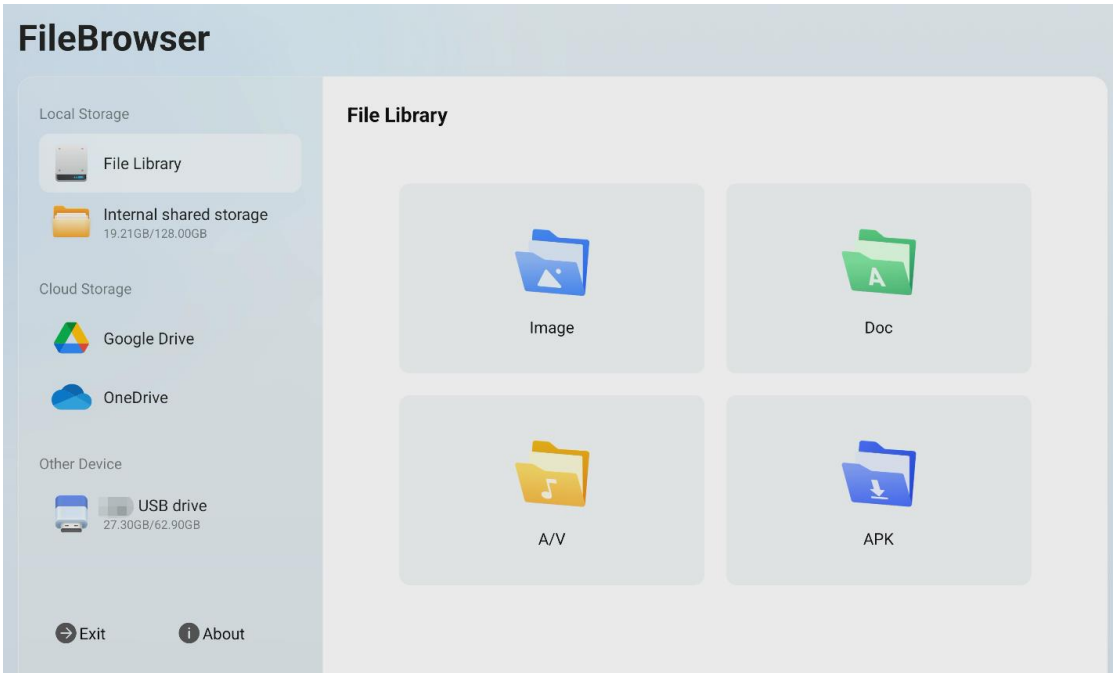



Figure 7-1 File Management

Table 7-1 Descriptions of File Management Icons

| Icon | Description | Icon | Description |
|---|---|---|---|
| Back/Forward | Go to the previous/next page. | Create | Create a new folder. |
| Grid/List | View the files in grid or list mode. | Sort | Change the file order. |
| Edit | Edit the files. | / | / |

Tap to edit documents. More functions are described as follows.

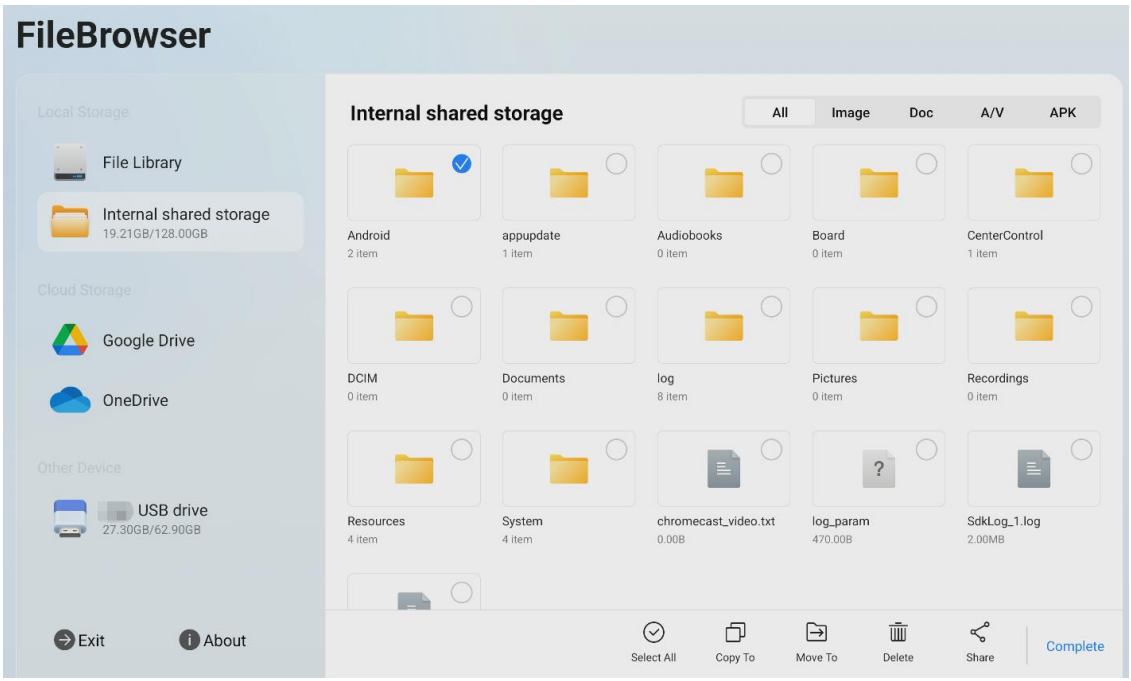



Figure 7-2 Edit the Files

Table 7-2 Descriptions of Editing Icons

| Icon | Description | Icon | Description |
|---|---|---|---|
| Select All | Select all the files. | Copy To | Copy the selected file(s) to another folder. |
| Move To | Move the selected file(s) to another folder. | Delete | Delete the selected file(s). |
| Share | Share the selected file(s). | / | / |

**Note**

Press and hold the file to perform other operations.

## 7.1.2 Cloud Storage

Log in your own account to see the content of cloud storage.

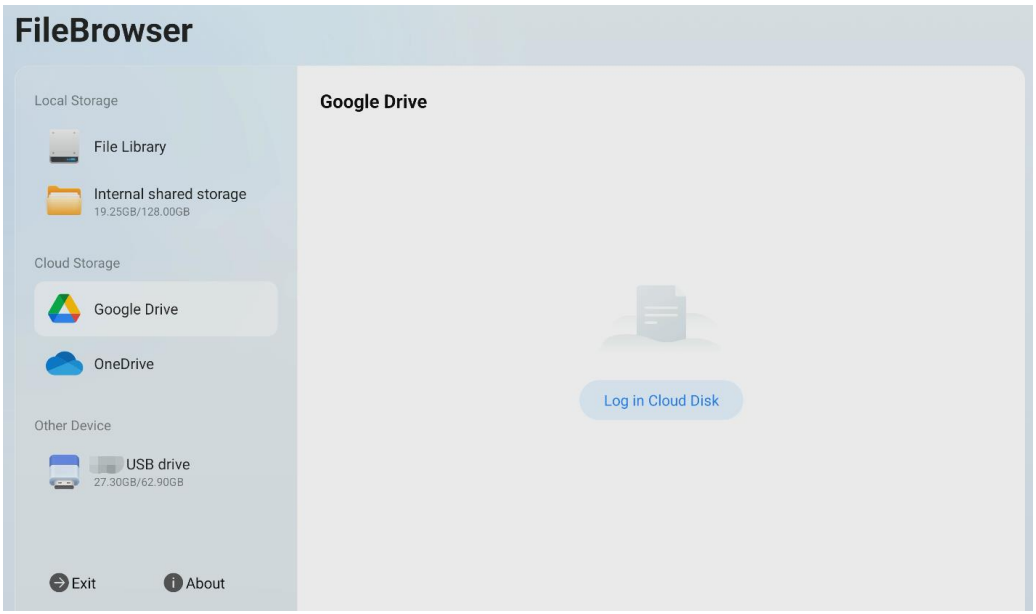



Figure 7-3 Cloud Storage

# 7.2 Browser

Connect the device to the Internet, and tap **Browser**. Enter URL in the address bar to view texts, pictures, audios and videos on the Internet.

# 7.3 Whiteboard

Whiteboard is an editing software that integrates functions such as touch writing, image insertion, and content sharing. Users can add boards with different backgrounds for touch writing, erasing, and page switching operations. It supports importing and editing images, and after the whiteboard content is completed, it can be saved locally or shared via email.

## 7.3.1 Toolbar Basic Operations

By using the toolbar, you can write, erase, select, restore/undo, and take other operations on the whiteboard.



Figure 7-4 Toolbar

**Write**

The writing function is used to write on a whiteboard. Tap on the toolbar to adjust parameters such as brush type, color, thickness, etc.

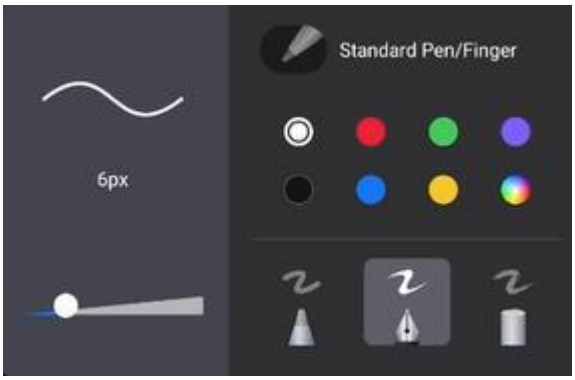



Figure 7-5 Set Wrtiting Parameters

**Erase**

The erase function is used to erase the content written on the whiteboard. Tap on the toolbar to select the following actions:

- Partial Erase: Tap , tap and drag the eraser on the area that needs to be deleted, and the content of the covered area will be deleted. Supports sliding the slider to adjust the size of the eraser.
- Circle Erase: Tap to circle the area that needs to be deleted. The content of the trajectory touched in the circle area will be deleted.
- Erase All: Tap to clear all written content on the current whiteboard page.
- Gesture Erasing: When your palm, or back of hand contact with the screen, you can perform large-scale erasing operations.

**Circle Selection**

Tap on the toolbar to circle any shaped area ( ) or rectangular area ( ) and edit the content in the area.

- : Change the color of the content in the selected area uniformly.
- : Copy the content of the area.
- : Lock the content within the selected area. Long press on the area or tap to unlock.
- : Search for the selected area in the browser. You can find the related results (image or web) in the pop-up window.

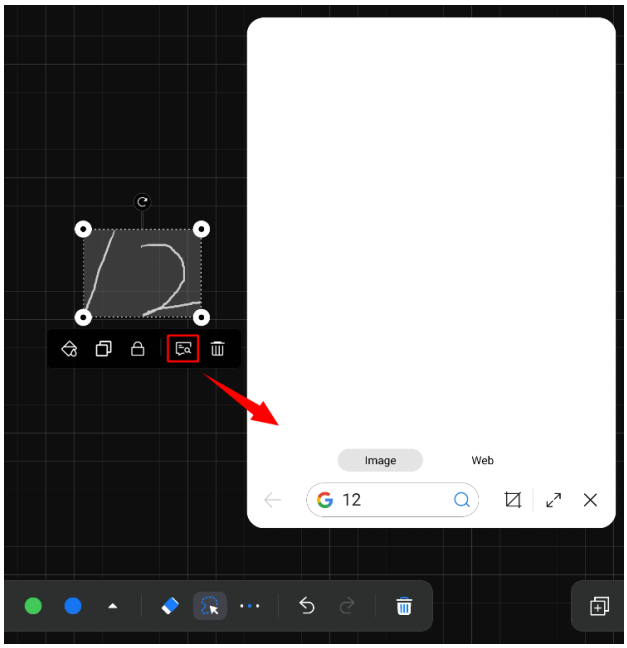



Figure 7-6 Search for the Selected Area

- : Delete the content within the selected area.

  **Note**

  - Support resizing, moving, and rotating the content in the selected area.
  - Tap outside the selected area to cancel the area selection.

**Undo or Redo**

When accidentally writing or erasing, the undo tool can be used to undo your operation.

- : Tap to undo the last action;
- : Tap to redo the previous action.

## 7.3.2 More Tools

Tap on the toolbar to call up the following tools:

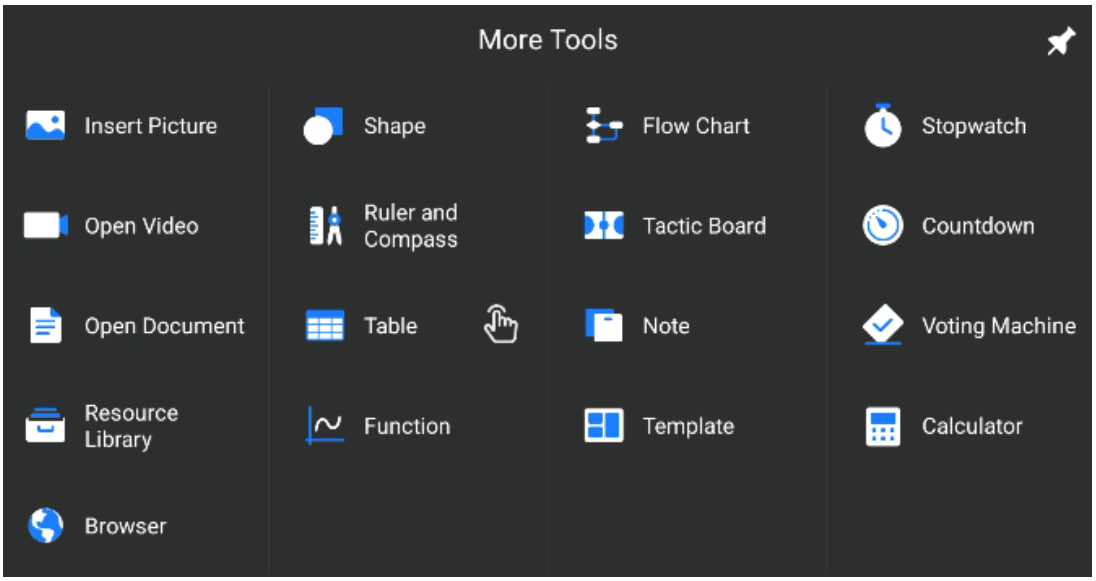



Figure 7-7 More Tools

Table 7-3 Tools Description

| Icon | Name | Description |
|---|---|---|
| | Shape | Insert 2D and 3D shapes. |
| | Ruler and Compass | Use a ruler, protractor, square, or compass. Drag to adjust size and angle. |
| | Table | • Insert a table.<br>• Long press the table to add/delete rows or columns;<br>• Drag the table to move or resize it;<br>• Tap the table to choose to modify the color of the content written in the table.<br>• Tap and enable **Shape Recognition**. You can draw horizontal and vertical lines to trigger table recognition. |
| | Function | • Insert linear, quadratic, and trigonometric function.<br>• You can edit coefficient, constant term, plus or minus, sine, cosine, or tangent function in the expressions.<br>• Tap **OK** to insert the function graph. You can move, zoom in/out, edit or delete the graph. Tap to reset the graph to original position. |
| | Flow Chart | • You can select different shapes and lines to draw a flowchart on the whiteboard.<br>• Tap to fix the shape bar. |

| Icon | Name | Description |
|---|---|---|
|  | Tactic Board | Tap to create a basketball tactic board. |
|  | Note | Insert a note. Support moving, resizing, copying notes, and changing the color of notes. |
|  | Template | • Insert P.D.C.A, S.M.A.R.T, and S.W.O.T template.<br>• You can directly write on the template, insert notes, export (in SVG format), or delete your template. |
|  | Stopwatch | Open the stopwatch. |
|  | Countdown | Open the countdown. |
|  | Voting Machine | Open the voter machine. |
|  | Calculator | Open the calculator. |
|  | Insert Picture | After inserting a picture, you can lock, resize, move, rotate, delete the picture, and modify the color of the content written in the area. |
|  | Open Video | Play video files. |
|  | Open Document | Open documents in PPT, PPTX, DOC, DOCX, and PDF for display. |
|  | Library | Tap to search images and videos and insert. |
|  | Browser | Call up the browser on the side of the whiteboard. |

**Note**

- You can tap  to bring up the sidebar.

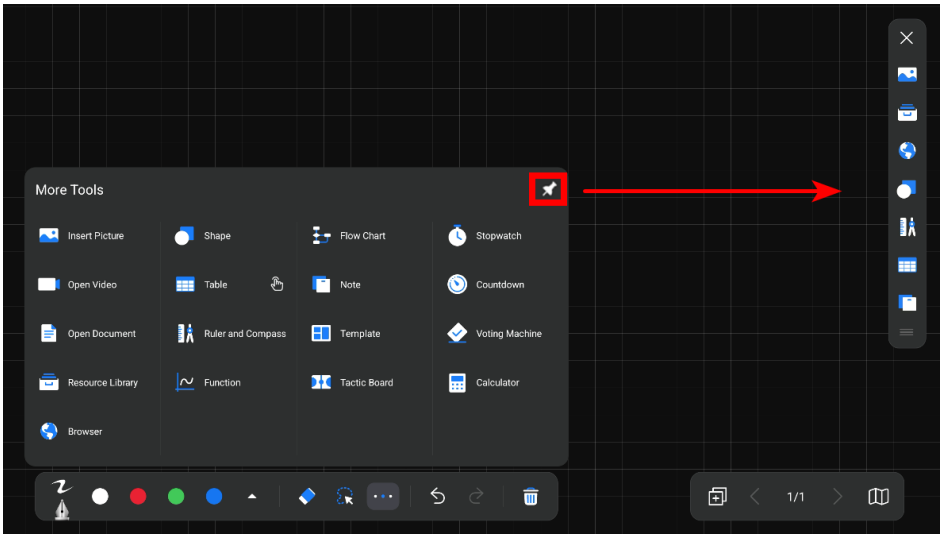



Figure 7-8 Tools Sidebar

- Shapes and tables automatically expand as you write beyond their original boundaries.

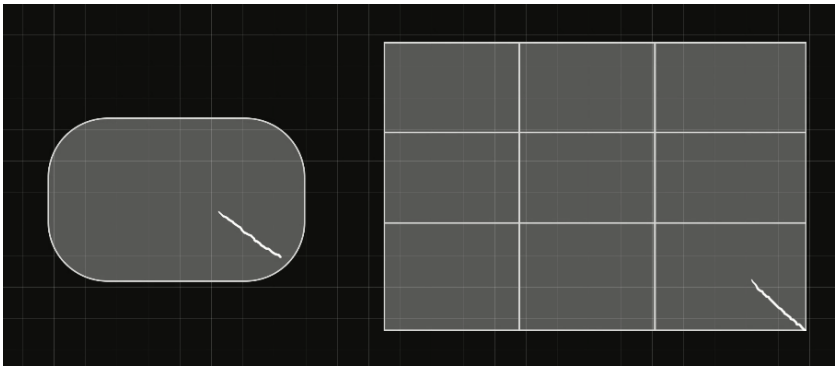


Figure 7-9 Expand Shape and Table

- **Library** and **Browser** are only supported when the Whiteboard application is full screen.
- Functions may vary in different scenarios. Please refer to the actual page.

**Tactic Board**

1) Tap  to create a basketball or football tactic board.

**Note**

Functions in basketball and football tactic board are consistent. Here the basketball tactic board will be introduced as the example.

2) Move  to change the player's position.

3) Enable on the lower-right corner to draw a line on a player. Line types will be prompted and you can select one.

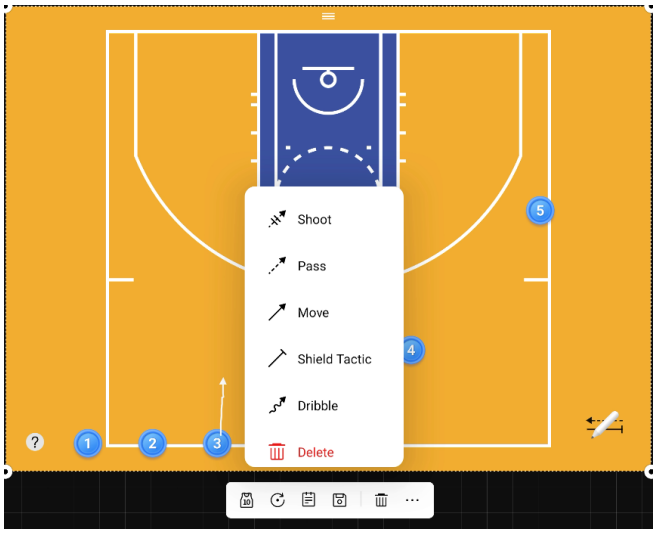



Figure 7-10 Select Line Type

4) Tap to select the number of players. Tap to select a tactic.

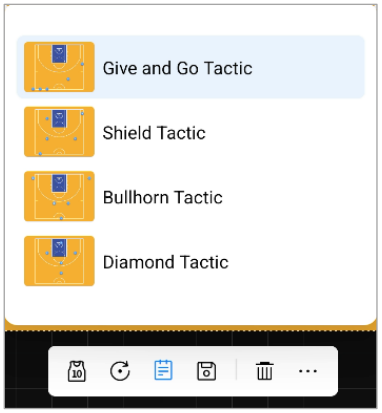



Figure 7-11 Select Tactic

**Note**

Tap to reset the position of players if you moved them.

5) Draw your own tactic on the board, and tap to name the tactic and save. You can find your own saved tactic in .

6) Tap on the lower-left corner to see the function guide.

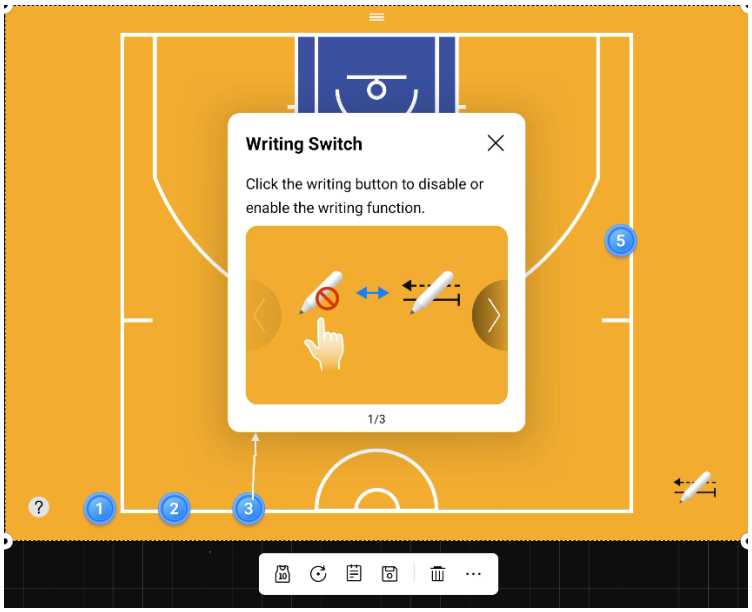



Figure 7-12 Function Guide

7) Tap ··· to change the position of the layer in whiteboard.

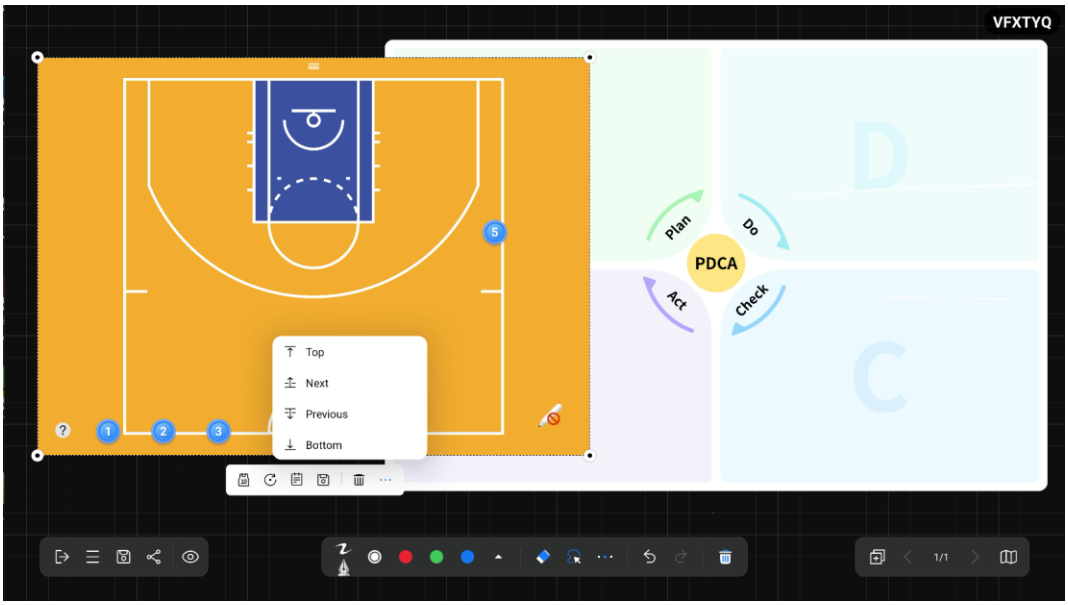



Figure 7-13 Change the Position of Layer

**Open Document**

You can insert a whiteboard document in PDF format and edit on it.

***Steps***

Step 1 Save the current whiteboard page in PDF format, and the file will be saved in FileBrowser automatically.

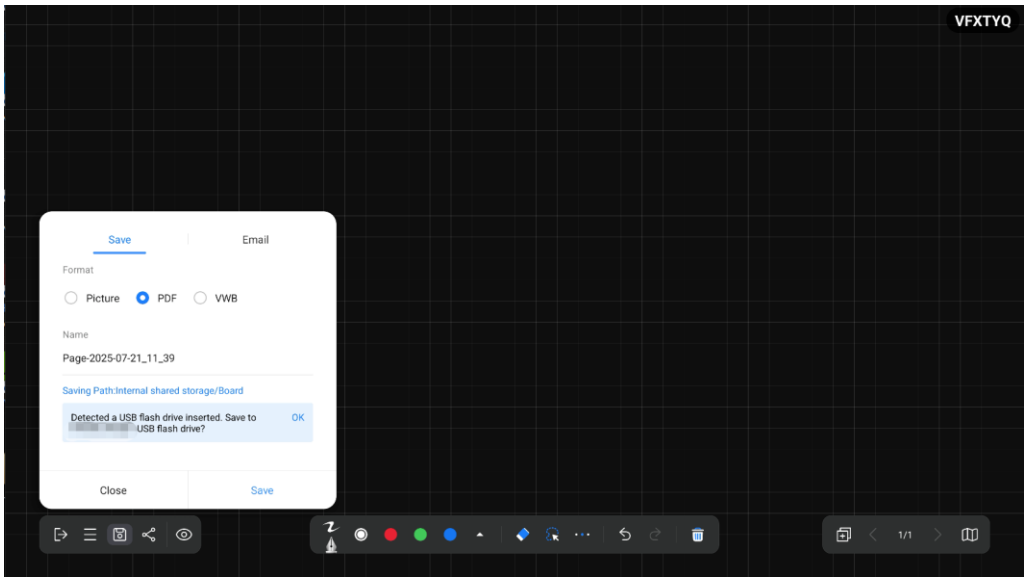
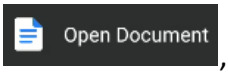



Figure 7-14 Save in PDF Format

Step 2 Tap  → 

, and select **File Library**. Tap **Board**, and you will find the saved whiteboard document.




Figure 7-15 Open Document

Step 3 Tap the document to insert, and you can edit on the saved whiteboard page.

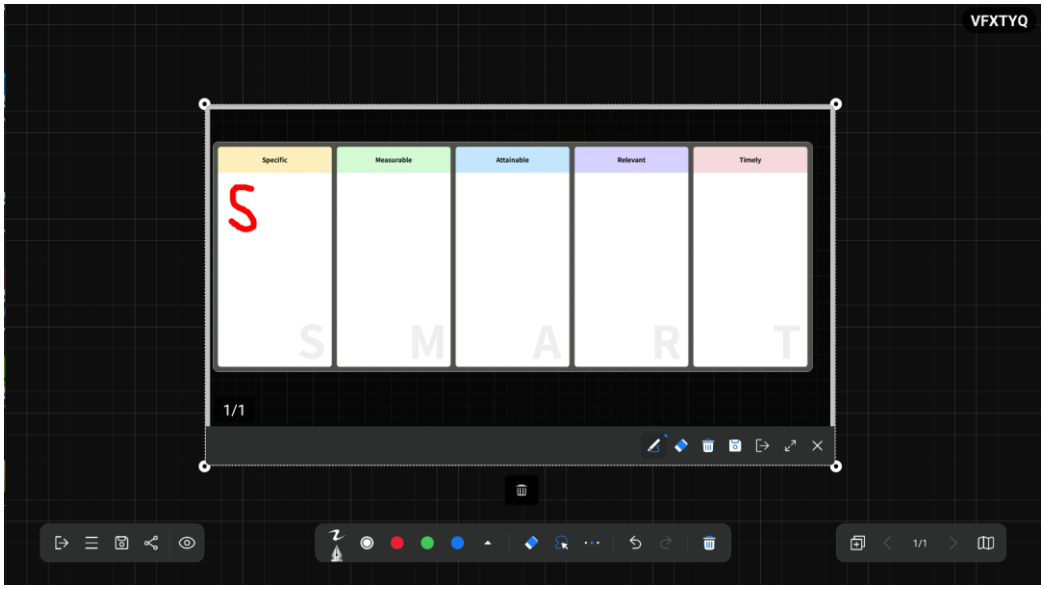



Figure 7-16 Edit on Document

Table 7-4 Functions on Inserted Document

| Icon | Description |
|---|---|
|  | Tap to find more editing options, and write on the document. |
|  | Erase content. |
|  | Delete content. |
|  | Save as a new document. |
|  | Exit editing. |
|  | Expand the document. |
|  | Close the document. |
|  | Delete the document. |
|  | Find the thumbnail on the left side. You can choose to see the thumbnail or the page number. |

## 7.3.3 Manage Whiteboard

You can create a new whiteboard, switch whiteboards, and delete whiteboards.

Table 7-5 Function Description

| Function | Description |
|---|---|
| Add Whiteboard | Tap  on the bottom right corner to add a whiteboard page. |
| Switch Whiteboard | Tap  to switch the whiteboard page. |
| Drag Whiteboard | A single whiteboard is infinitely large, and you can drag the whiteboard page up, down, left, right with five fingers to extend writing space. |
| View Whiteboard | Tap  on the page number area to display a thumbnail of the whiteboard page. Swipe the thumbnail up and down, and tap a page to jump to the displayed page. |
| Delete Whiteboard | Tap  on the page number area and tap  on the bottom right corner of the page to delete that page. |
| Global Navigation | Tap  to open global navigation. Drag the blue box in the pop-up window to move to other areas of the whiteboard. |

**Note**

All information will be reset after closing the whiteboard.

## 7.3.4 Save Whiteboard

After the whiteboard content is completed, the page can be saved locally on the device for reference or shared with others.

***Steps***

Step 1 Tap on the bottom left of the whiteboard.

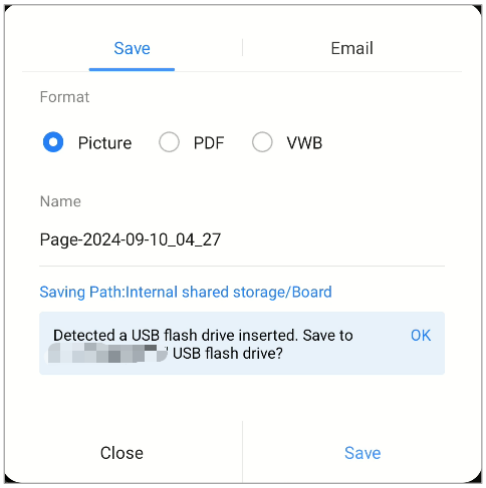



Figure 7-17 Save Whiteboard

Step 2 Select a format.

**Note**

Support saving the board as PNG format images, PDF format documents, or editable VWB format files.

Step 3 (Optional) Edit the name of the board.

Step 4 Tap **Save**.

## 7.3.5 Share Whiteboard

Users can share whiteboards with others via email or QR code.

**Share via Email**

Tap on the bottom left of the whiteboard and select **Email**.

**Note**

Make sure the Email server has been configured before you start.

**Share Via QR Code**

Tap on the bottom left corner, mobile devices on the same LAN can scan the code to download whiteboard content.

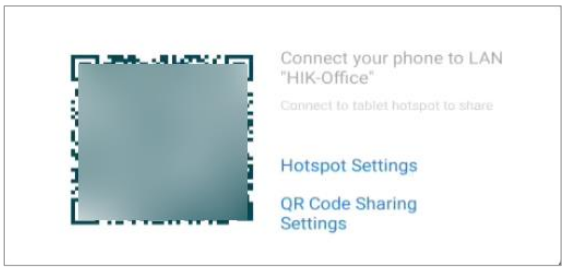



Figure 7-18 Share via QR Code

## 7.3.6 More Functions

Tap on the bottom left corner of the whiteboard to achieve functions such as split-screen writing and dual-color writing.

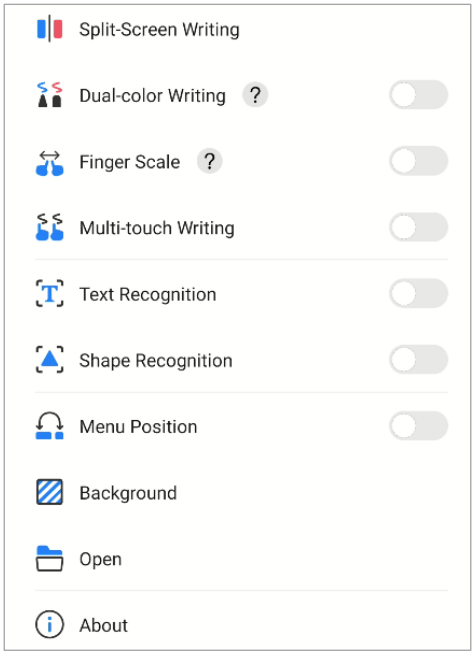



Figure 7-19 More Functions

**Split-Screen Writing**

Support whiteboard simultaneous writing on split screens.

- Tap or switch between two or three screens.
- Tap to exit split-screen writing mode.

**Note**

When changing the number of split screens and exiting split-screen writing, the current content will not be saved.

**Dual-Color Writing**

After enabling, different colors can be selected for writing on the tip and tail of the writing pen.

**Note**

- Long press the stroke support for adjusting the pen’s threshold.
- You can tap ? to see the function guide.

**Finger Scale**

After enabling, you can use 2 fingers to zoom in/out the page. Tap ? to see the function guide.

**Multi-Touch Writing**

After enabling, the whiteboard supports multi finger touch, meaning that multiple fingers can simultaneously edit the whiteboard.

**Text Recognition**

After enabling, the whiteboard can recognize the drawn text and correct it to the regular text.

**Note**

Multi-Touch Writing and Text Recognition cannot be enabled at the same time.

**Shape Recognition**

After enabling, the whiteboard can recognize the drawn graphics and correct them to the regular graphics.

**Note**

- The recognizable shapes include circles, triangles, rectangles, and lines.
- Text recognition and shape recognition do not support simultaneous activation.

**Menu Position**

After enabling, the menu on the left and page numbers on the right of the whiteboard are swapped for easy access to the function icons and menus.

**Background**

Set the background and shading of the whiteboard, and you can customize the whiteboard background style as needed.

**Open**

Open the whiteboard file saved as a VWB format for editing again.

**About**

View the current version, open source agreement, etc.

### Update Settings

***Steps***

Step 1 Go to **About** → **Update Settings**.

Step 2 (Optional) Enable **Check for Update**. After a new version detected, a prompt will remind you whether to update the software when exiting Whiteboard.

Step 3 (Optional) Enable **Auto Update**. The software will update automatically.

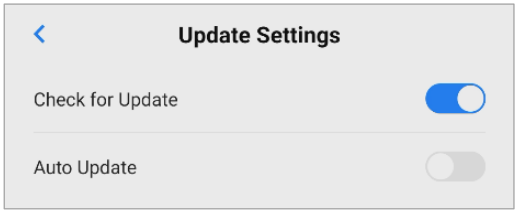



Figure 7-20 Update Settings

**Hide Toolbar**

Tap  on the bottom left corner to hide the toolbar. Tap  to expand.

## 7.4 WonderCastServer

You can mirror the screen of your PC or mobile phone on the Interactive Flat Panel, or control the Flat Panel through your PC or phone. Please scan the following QR code for more details about WonderCastServer.

Figure 7-21 WonderCastServer

# 7.5 WonderSeminar

WonderSeminar enables seamless collaboration by supporting group connections of up to 8 devices simultaneously. This innovative solution allows devices to broadcast content, facilitate group comparisons, implement permission controls, etc., making it ideal for various professional scenarios. WonderSeminar perfectly accommodates multi-screen classroom discussions and enhances conference room connectivity for synchronized presentations across multiple meeting spaces.

***Steps***

Step 1 Go to **WonderSeminar**, and firstly select a group role for your device. Then tap **OK**.

**Note**

The following example will show the operations of the administrator device.

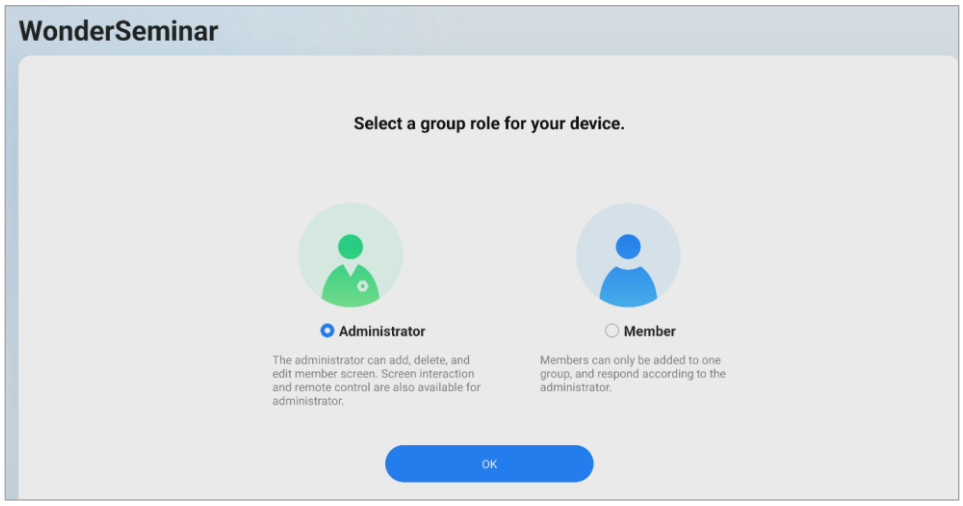
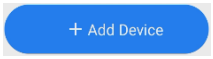



Figure 7-22 Select Group Role

Step 2 Tap 

to add devices, and you can find the detected devices on the right. If some devices cannot be detected temporarily, please enter the passcode of these devices to add.

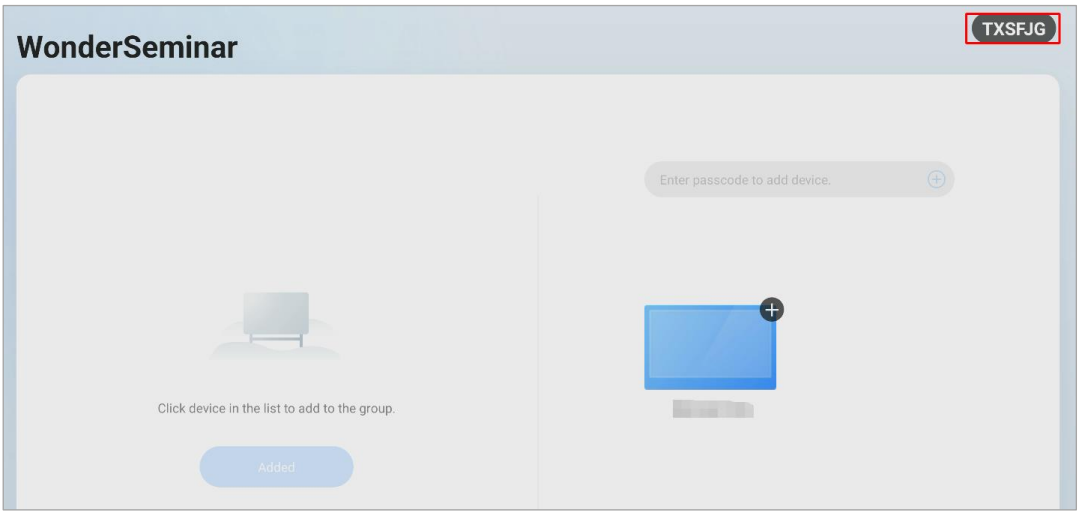
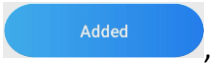



Figure 7-23 Add Devices

Step 3 Tap  to add devices to the group. Tap , and you will find all devices added in the group.

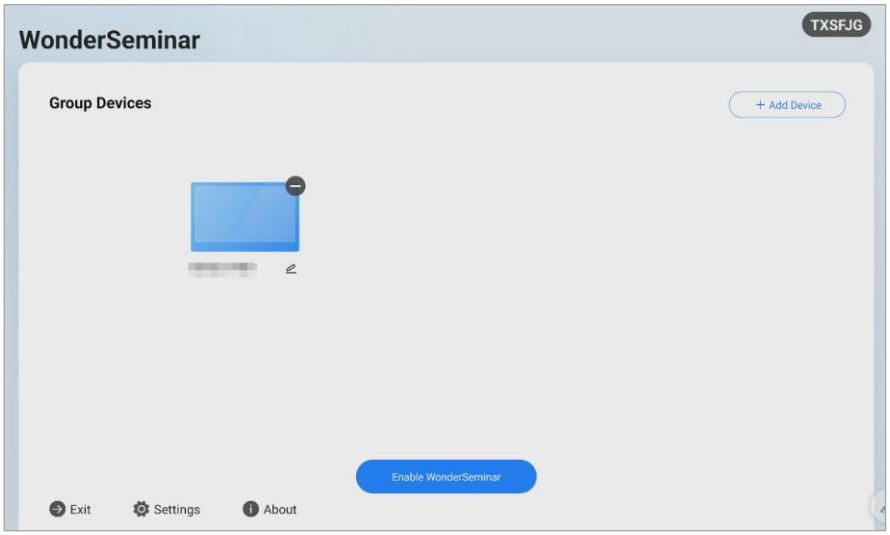
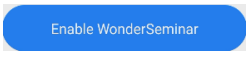
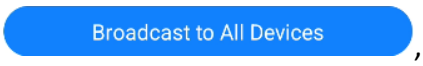



Figure 7-24 Added Devices

Step 4 Tap  to find more functions.

## 7.5.1 Broadcast and Call Screens

**Broadcast**

Tap  → , and then you will find the administrator device has been broadcast to all member devices.

**Note**

For example, in a classroom, now all students devices can show the operations from the teacher device.

**Call Screens**

Tap Edit Broadcast Image , and you can drag up to 4 devices, whose images can be displayed on the administrator device.

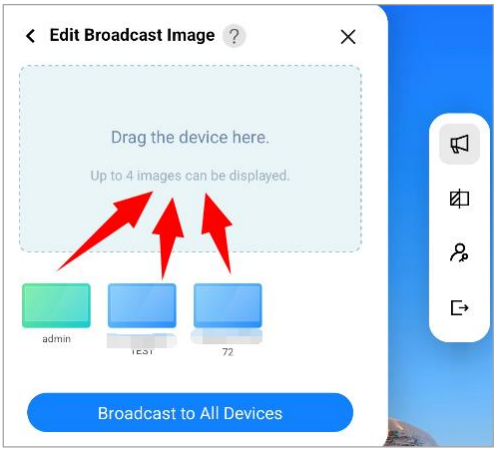



Figure 7-25 Drag Devices

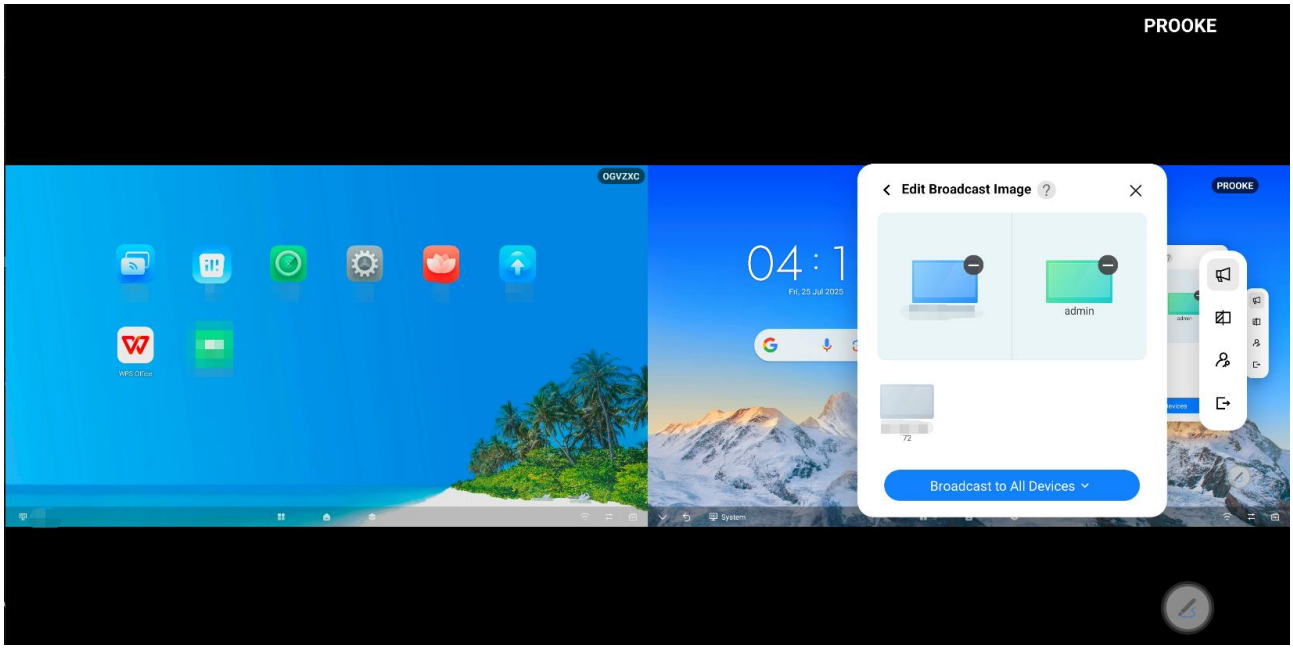



Figure 7-26 Call Screens on the Administrator Device

After calling screens, you can still broadcast the image from the administrator device to other member devices:

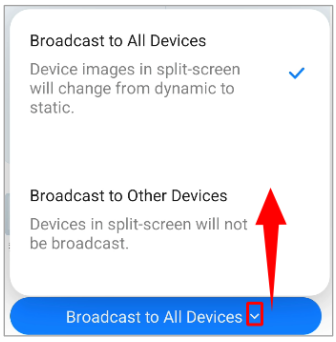



Figure 7-27 Broadcast to Devices

- Broadcast to All Devices: All member devices can see the image from the administrator device.
- Broadcast to Other Devices: Extra member devices will see the image from the administrator device, except the device called on the administrator device.

## 7.5.2 Group Comparing

In group comparing mode, you can display up to 4 images on one other screen.

***Steps***

Step 1 Tap  to enter group comparing page.

Step 2 Select a device in the left list, and drag up to 4 devices to display on it.

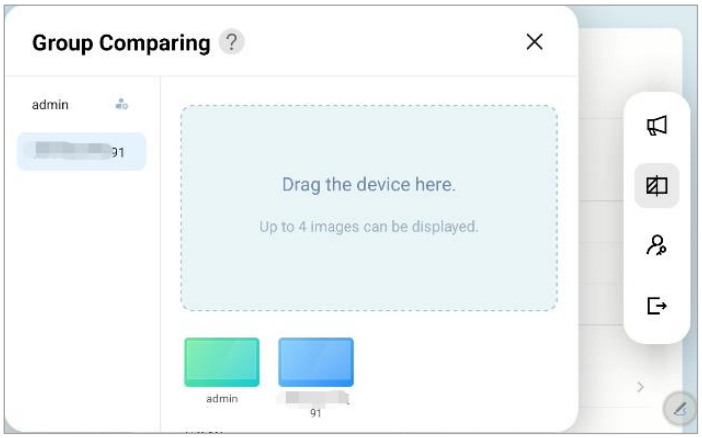



Figure 7-28 Drag Devices

Step 3 (Optional) Select another device, and drag up to 4 devices to display on it.

Any device in the left list can display the image of any device.

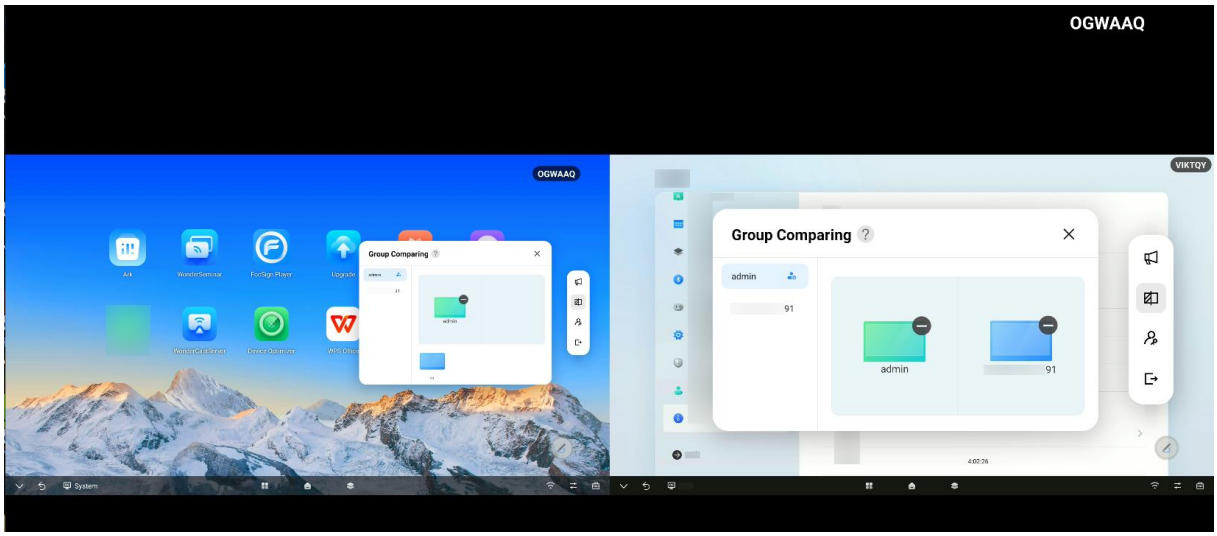



Figure 7-29 Select Any Device to Display Image of Any device

## 7.5.3 Permission Control

Tap  to enter the permission control page.

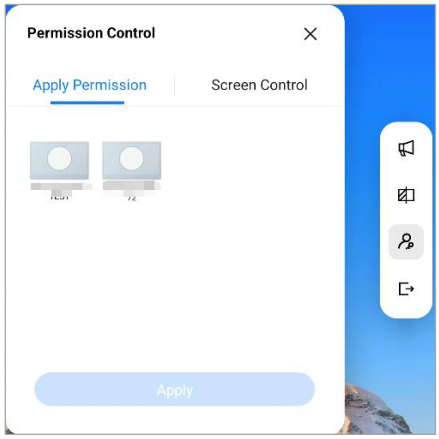



Figure 7-30 Permission Control

- Apply Permission: Tap any member device, and then tap **Apply**. The member device will be granted temporary administrator status, possessing the same permissions as the administrator device.
- Screen Control: Tap **Screen Control**, the administrator can quickly turn on/off screens of member devices.

## 7.5.4 Other Operations

**Exit**

Tap  or  on the lower-left corner of main page to exit WonderSeminar.

**Settings**

Tap **Settings** on the lower-left corner of main page to change group role of the device.

**About**

Tap **About** on the lower-left corner of main page to find software version, open source software licenses, etc.

## 7.6 System Pre-installed Applications

The following table briefly describes the applications pre-installed in the system. Refer to the help document of desired application, to get more details.

**Note**

The system pre-installed applications vary from different device types.

Table 7-6 Introduction of System Pre-Installed Applications

| Application | Introduction |
|---|---|
| Whiteboard | It is applied to draw and write. You can use it to save, move, zoom in, zoom out, delete, and download the contents. |
| FileBrowser | Manage your files. |
| Browser | After the device is connected to the network, it can browse internet information through a browser. |
| Gallery | It is used for viewing pictures in SD card and USB disk. |
| Upgrade | It provides remote upgrade and local upgrade, and upgrade of local components. |
| WonderCastServer | An application used to connect flat panel, mobile phone, or PC for screen mirroring. |
| WonderSeminar | It is used for managing group devices. |
| Gemini | A highly capable AI model developed by Google DeepMind, designed for multimodal reasoning and advanced natural language understanding. |
| Google Play Store | It is a marketplace for devices to find and download apps, games, books, movies, and other forms of entertainment. |
| Google Maps | It provides detailed information about geographical regions and sites worldwide. |
| Google Photos | It is a service that backs up your entire photo and video library for free. |
| Google Drive | It is a cloud storage service that lets you upload, sync, and share files online. |

| | |
|---|---|
| Google TV | It is a platform that combines streaming apps, live TV, and personalized recommendations in one unified user interface. |
| Google Chrome | It is a free web browser developed by Google, used for accessing web pages on the internet. |
| Gmail | It is a free service provided by Google that enables users to send and receive e-mail over the Internet. |
| Google | It is a search engine provided by Google. |
| Google Meet | It is a video conferencing service. |
| Youtube | It is a social media platform and website for sharing videos. |
| Youtube Music | It is a music streaming service from Google. |
| Google Calendar | It is a time management and scheduling tool created by Google. |

# Chapter 8 Appendix A FAQs

| Question | Cause and Solution |
|---|---|
| Why do the condensations appear frequently on the screen? | Tempered glass is installed on the outer screen to provide protection. There is a gap between the screen and the tempered glass for air convection. The main reason is that there is a temperature difference between the screen and the outside. Hot air condenses on the glass surface at a lower temperature, which results in condensations. Condensations will evaporate after the device starts up and will not affect the use of the device. |
| Why there is no sound coming from my laptop after connection? | If only audio cable is accessed, both audio output and image output will be unavailable.<br>● Access HDMI cable.<br>● Select the device as the audio output device in Windows. |
| Why does the screen get hot after a period of use? | Screen temperature rise is caused by heat dissipation and is completely normal. Our heat dissipation design is industrial-leading and is the formulator of the industry standards, which is in accordance with the national health standard. |
| Does long-time use damage the eyes? | The recognition of flicker by human eyes is 50Hz. If the frequency is lower than 50Hz, then the flicker will be recognized and cause eye muscles fatigue. We use 60Hz LCD screen, human eyes will not recognize the flicker of the screen. Compared with other products of the same kind, it can reduce eye fatigue to a large extent. |
| Why there is no image in screen nor sound coming from the device? | ● Check if the power cable is connected.<br>● Check if the socket works normally.<br>● Check if the power switch is turned on. |
| Why does the device HDMI channel have no input signal? | ● Check if the input source works normally.<br>● Change HDMI interface or cable.<br>● If PC is accessed, set HDMI output on your PC. |
| Why is wired network unstable? | Try to disable the auto network detection option. |


See Far, Go Further