



Flat Panel video conferencia

Manual de uso

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Conference Flat Panel User Manual

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Preface

Applicable Models

This manual is applicable to Conference Flat Panel.

Symbol Conventions

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

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

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Chapter 1 Introduction

The Conference Flat Panel (hereafter referred as 'the device') integrates functions of computers, projectors, interactive whiteboards, sound boxes, cameras (optional), HDTVs, advertising machines and so on. The device applies 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 remote video conferences, trainings and guidance, medical consulting, and other events in kinds 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.
- Built-in Wi-Fi realizes miracasting 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 manufacture.
- 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

The interfaces of Conference Flat Panel are shown as followed.

Note

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

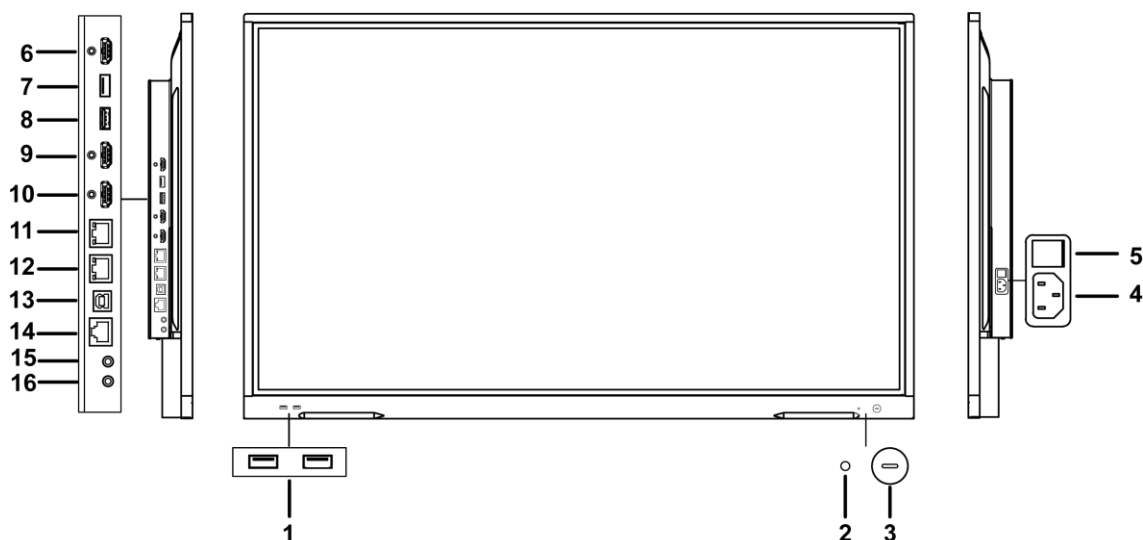


Figure 3-1 Front Panel and Interfaces

Table 3-1 Panel Description

No.	Description	No.	Description
1	Multi-functional USB interface	9	HDMI input interface 2
2	Environmental light sensor	10	HDMI input interface 1
3	Power button Short press to turn to power-saving status. Long press to turn on or turn off the device.	11	Network interface 2
4	Power switch	12	Network interface 1
5	Power supply interface 100 to 240 VAC	13	External touch interface
6	HDMI output interface	14	RS-232 debug serial port
7	Multi-functional USB interface	15	Audio input interface
8	USB 2.0 interface	16	Audio output interface

3.3 Connection to Personal Computer (PC)

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

Warning

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

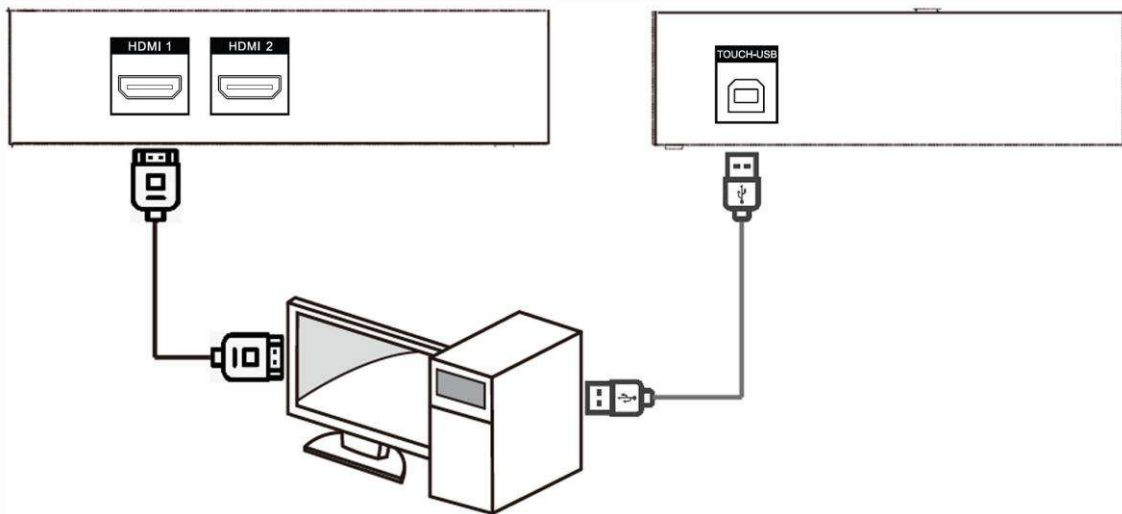


Figure 3-2 Connect to PC

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.
-

3.4 Internal Computer Installation

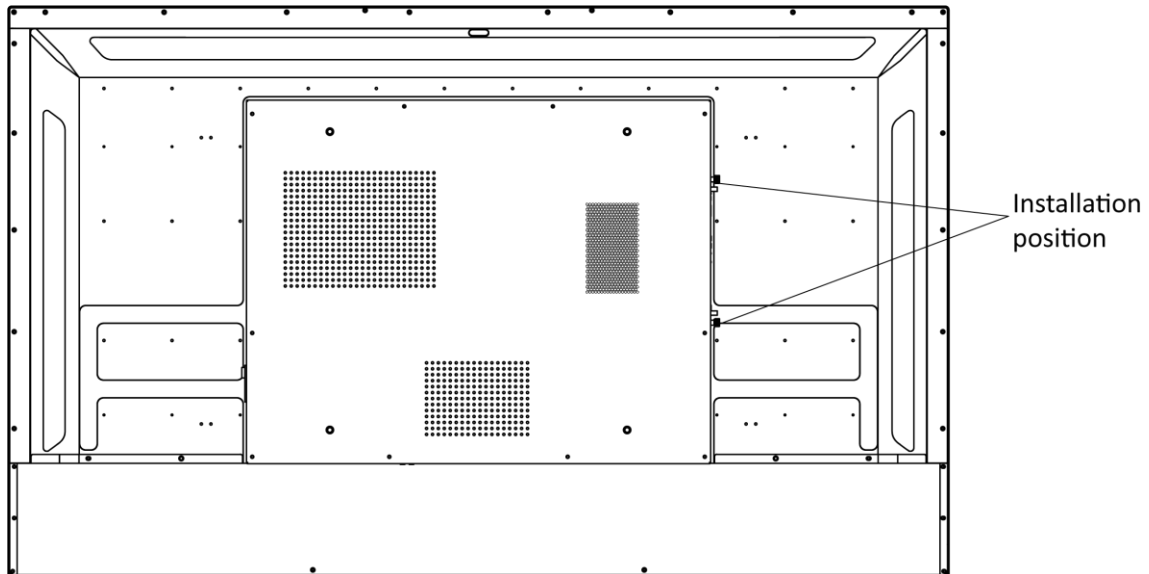


Figure 3-3 Internal Computer Installation

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.

Warning

- 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.

3.5 Mounting

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

Note

The accessories for wall mount and mobile mount are different. Do not mix them up.

Wall Mounting

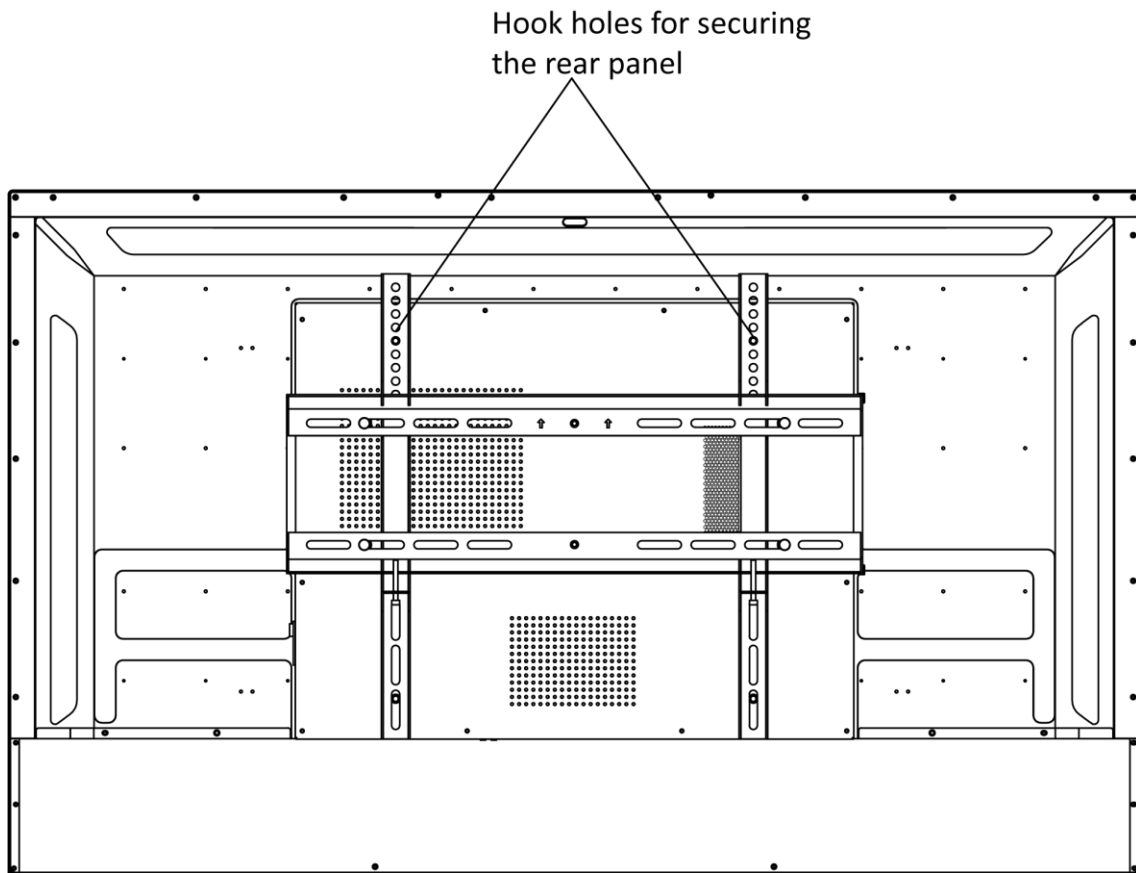


Figure 3-4 Wall Mounting Rear View

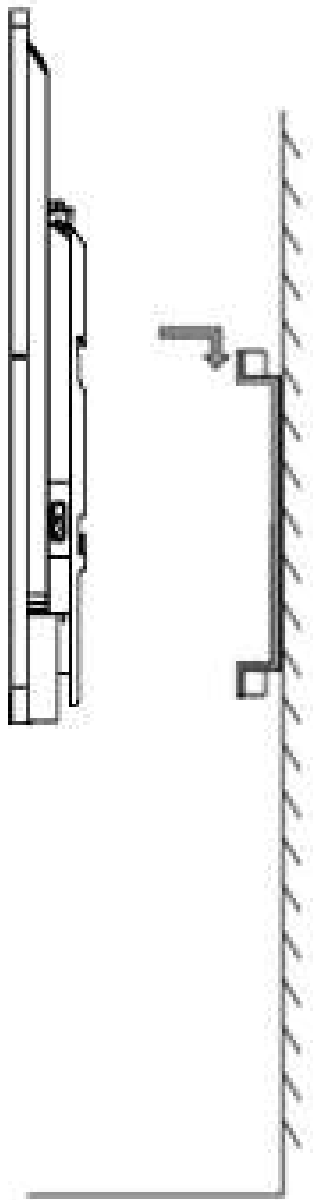


Figure 3-5 Wall Mounting Side View

Note

The wall mount 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.

Mobile Mounting

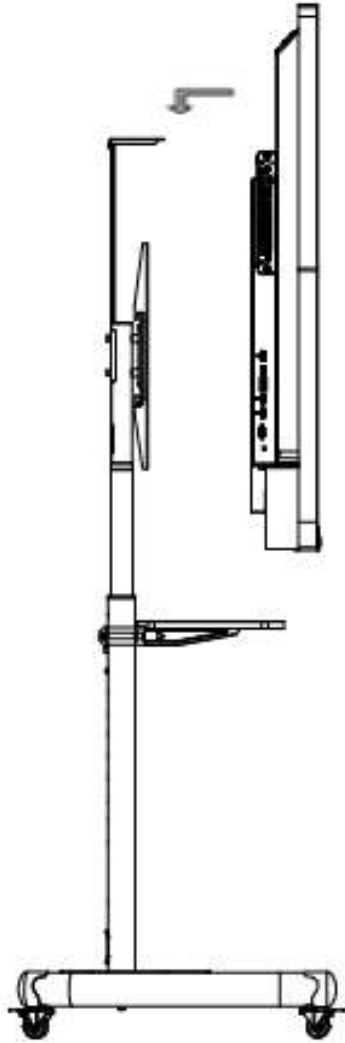


Figure 3-6 Mobile Mounting

Chapter 4 Startup and Shutdown

4.1 Device Startup

4.1.1 Installed Without a Computer Box

Steps

1. Connect the device to power supply.
2. Turn on the power switch, the power indicator on the front panel will turn red.
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 Eco Mode

Entering Eco Mode

Press the power button on the front panel to turn off the screen and enter Eco Mode.

Waking up the Device

Three ways to wake up the device:

- 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.

Short press 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.

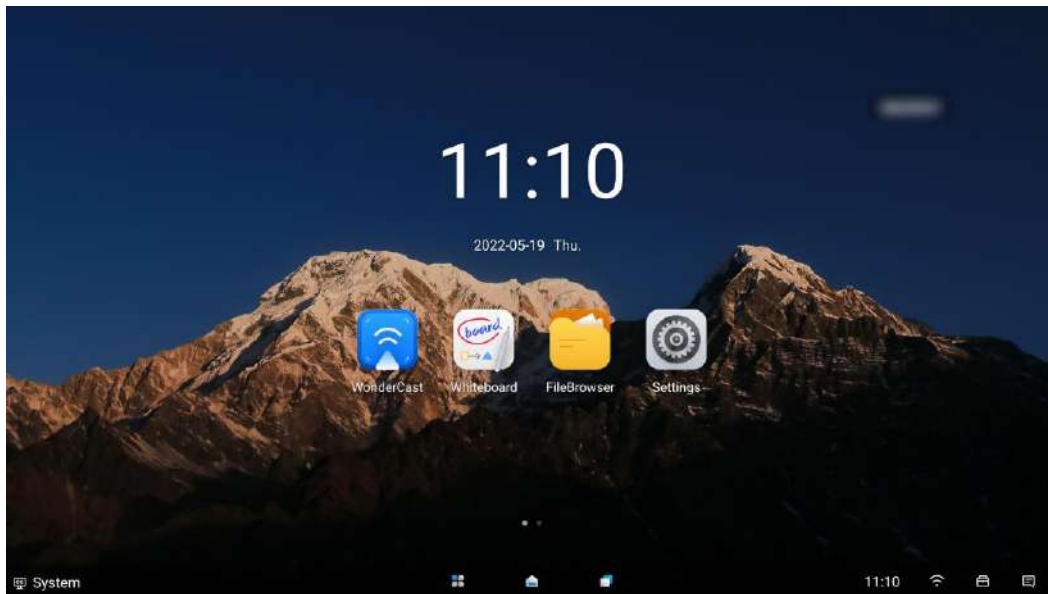


Figure 5-1 Main Page

Note

Long press the icons of applications on the main page to replace with the commonly-used ones.

5.1 Basic Operations

Functions of the shortcut icons are described below.

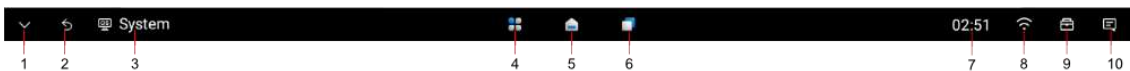


Figure 5-2 Shortcuts

Table 5-1 Shortcuts Description

No.	Function	No.	Function
1	Tap to hide the menu bar at the bottom.	6	Tap to open all the windows of processes.
2	Tap to return to the previous page.	7	Tap to set the date and time.
3	Tap to select the input source.	8	Tap to configure network parameters and hotspot.
4	Tap to check all the applications. Long press and move the selected application to display in split view.	9	Tap to open the control menu.
5	Tap to return to the main page.	10	Tap to check notifications.

5.2 Input Source

Tap the icon of input source at the bottom (area 3 in ***Basic Operations***), and set the input source of the device. **System**, **PC**, **HDMI 1**, and **HDMI 2** are available.

5.3 Time and Date

Set time and date. Refer to ***Time and Date Settings*** for more details.

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 5-3 Control Menu

Table 5-2 Control Menu Descriptions

Tool	Description
Calculator	Enable the built-in calculator.
Note	Take annotations on the current page.
Camera	Open the camera bound to the device.
Screenshot	Capture the current page.
Stopwatch	Measure the amount of time.
Countdown	Count seconds backwards to zero.
Controller	Enable the virtual controller.
Lock Screen	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.
Transfer	Transfer files to the flat panel.
Adjustment Bar	Adjust the brightness and volume.

5.5.1 Annotating


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



Figure 5-4 Take Annotations

Table 5-3 Icon Descriptions

Icon	Description
	<ul style="list-style-type: none"> Pen color and size are customizable. Enable angled stroke or not. Tap to have lines with angled stroke, and tap to have lines without angled stroke.
	Erase the desired annotations.
	Clear all the annotations.
	Save the current page.
	Generate QR code of annotation when flat panel connects to the LAN. Devices in the same LAN can scan the QR code to download annotation.
	When the device is connected to the Internet, you can tap to generate the annotation into a QR code, and any devices in the same LAN as the device can scan the QR code to download the annotation.
	Hide the tool in a floating window.
	Exit annotating.

Note

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

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 5-5 Screenshot

Table 5-4 Screenshot Toolbar Descriptions

Icon	Description
	Capture the whole page.
	Save the screenshot in the capture area.
	Exit screenshot.

5.6 Notification

Check notifications. Click **Delete** to delete all notifications.




Chapter 6 System Settings

The screen displays the main page after the device is turned on. Slide the screen to the left or right to view applications, device status, and help documents. Left slide home screen to scan the code for feedback.

6.1 Network Settings

The network status is displayed at the bottom of the screen (area 8 in [Basic Operations](#)).

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

1. Go to **Settings** → **Network** → **Wired Network**.
2. Enable **Wired Network**.

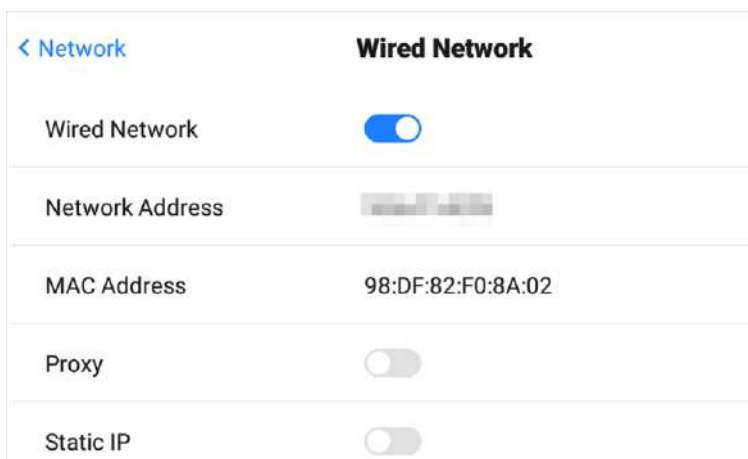


Figure 6-1 Wired Network Settings

3. Optional: Tap to enable **Proxy** or **Static IP**.

Proxy Settings

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

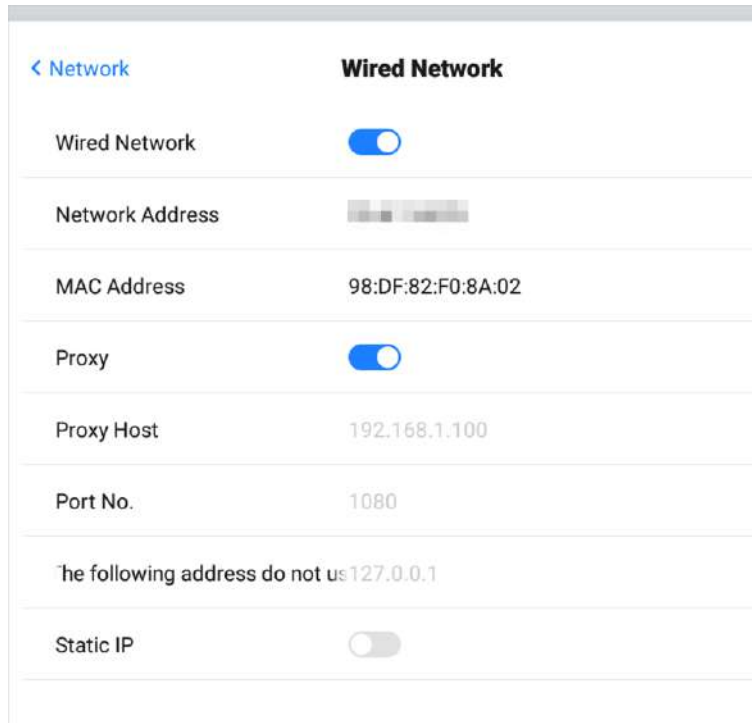


Figure 6-2 Proxy Settings

Static IP Settings

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

Static IP	<input checked="" type="checkbox"/>
Static IP	192.168.1.1
Gateway	192.168.1.1
Subnet Mask	255.255.255.0
DNS 1	8.8.8.8
DNS 2	8.8.8.8

Figure 6-3 Static IP Settings

6.1.2 Wireless Network Settings

Steps

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

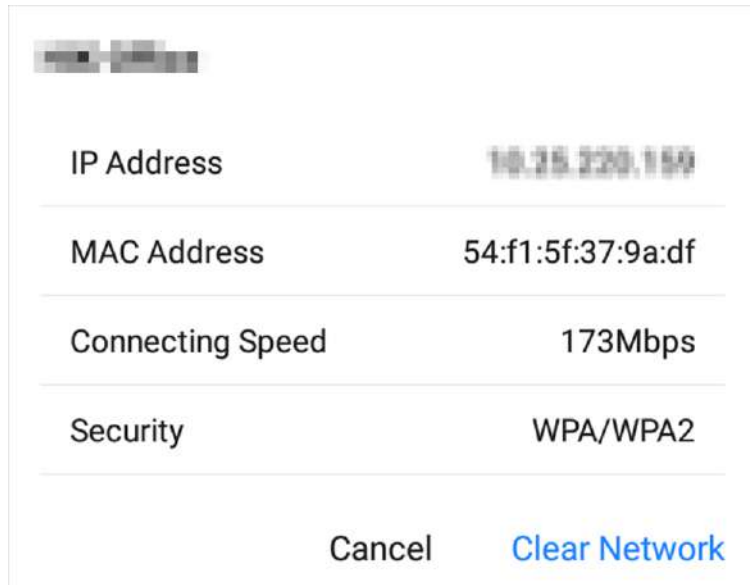


Figure 6-4 Wireless Network Information

Add Other Networks

Steps

1. Tap **Add Other Networks**.
2. Enter Wi-Fi name and select **Security**.

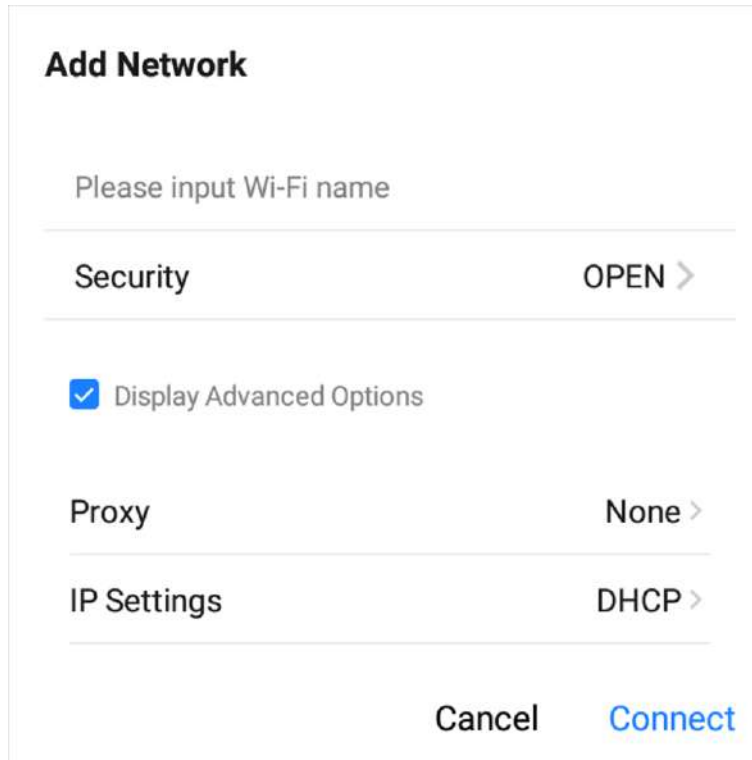


Figure 6-5 Add Other Network

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

1. Go to **Settings** → **Network** → **Hotspot**.
2. Enable **Portable WLAN Hotspot**.
 - Hotspot Isolation: After enabling hotspot isolation, even if the device is connected to the LAN, it cannot access resources such as websites in the LAN.
3. Set parameters in the pop-up page.

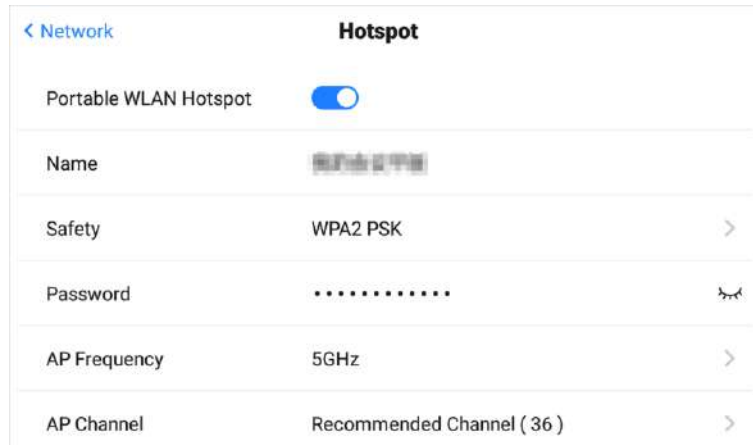


Figure 6-6 Hotspot Settings

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.

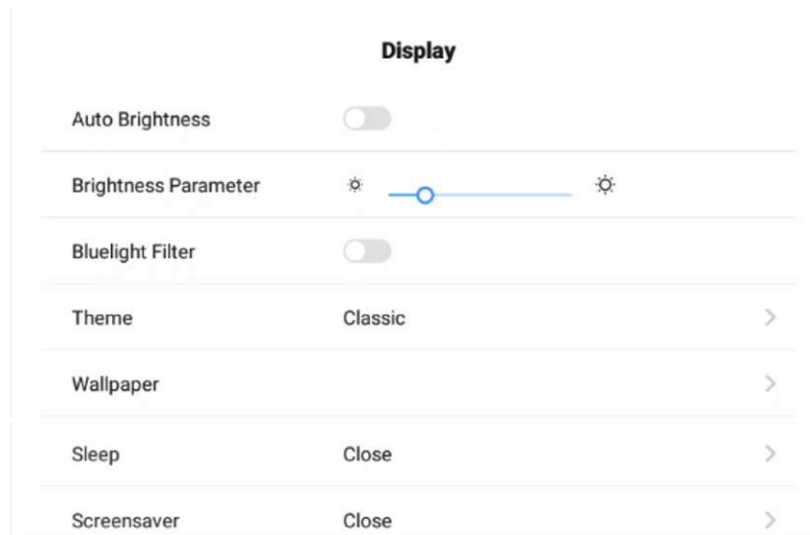


Figure 6-7 Display Settings

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.

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

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

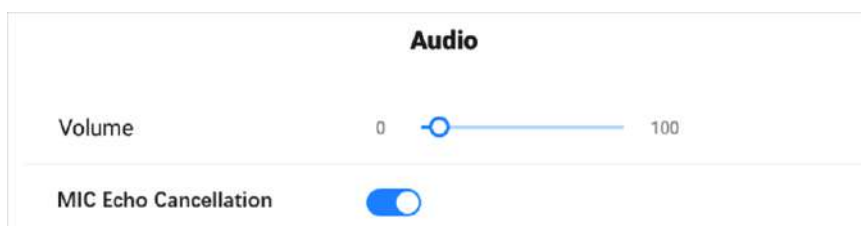


Figure 6-8 Audio Settings

2. Adjust the **Volume** value.
3. Enable **MIC Echo Cancellation** to eliminate the noise of echo. By default, this function is enabled



It is recommended to enable **MIC Echo Cancellation** before starting a video conference, and the echos from the microphone will be eliminated.

6.4 Language and Input Settings

Steps

1. Go to **Settings** → **Language & Input**.
2. Tap **Language** to select the desired language.
3. Tap **Input Method** to select the desired input method.



Figure 6-9 Language and Input Settings

Note

Handwriting input is available, and the written content in any text input page will be automatically transformed into system font..

6.5 Time and Date Settings

Steps

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

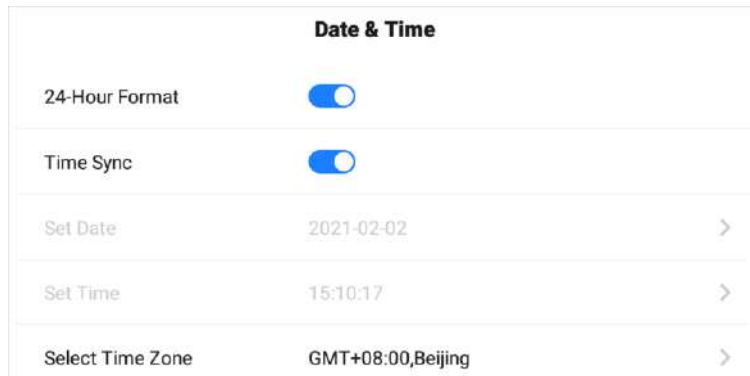


Figure 6-10 Date and Time Settings

2. Enable **Time Sync**.
3. Tap **Select Time Zone** to select the region.
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

1. Go to **Settings** → **Application Management**.
 2. Tap the desired application to check details.
 3. You can perform operations, such as **Forced Stop**, **Clear Data**, **Clear Cache**, and **Uninstall**.
-

 **Note**

The built-in applications cannot be uninstalled. You can tap the icon in **Application Details** to open the application.

6.7 Bluetooth

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

6.8. Intelligent 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

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

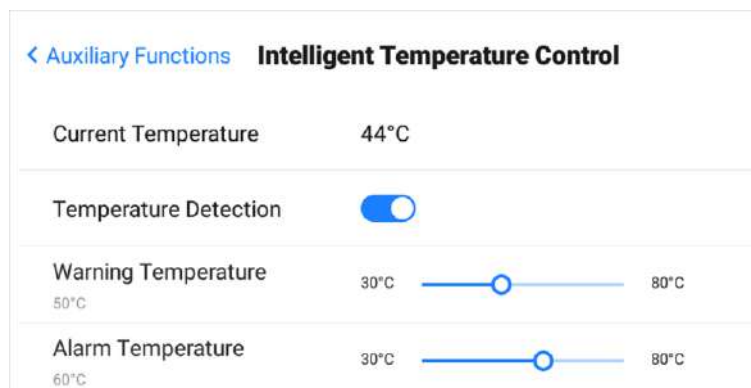


Figure 6-11 Intelligent Temperature Control

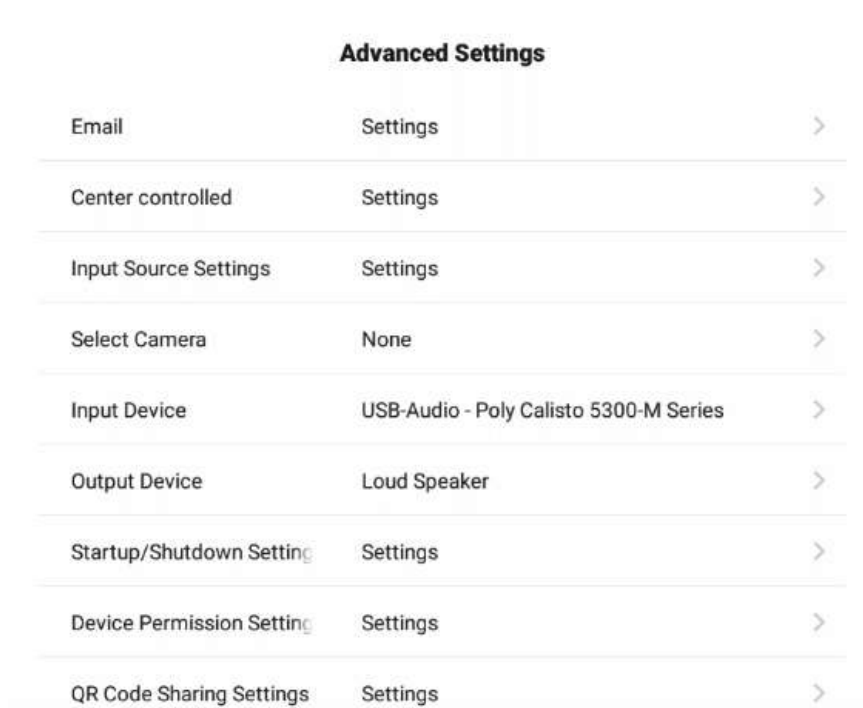
2. Enable **Intelligent Detection**.
3. Slide the slider to set **Warning Temperature** and **Alarming Temperature**.

Note

- When the temperature exceeds the set warning temperature, the temperature in status bar on the upper right corner turns orange.
 - When the temperature exceeds the set alarming temperature, the temperature information pops up and prompts you to turn off the device.
-

6.9 Advanced Settings

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



Advanced Settings	
Email	Settings >
Center controlled	Settings >
Input Source Settings	Settings >
Select Camera	None >
Input Device	USB-Audio - Poly Calisto 5300-M Series >
Output Device	Loud Speaker >
Startup/Shutdown Setting	Settings >
Device Permission Setting	Settings >
QR Code Sharing Settings	Settings >

Figure 6-12 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.

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 the desired camera among those bound to the device.

Audio Input Device

Select the desired audio input device.

Audio Output Device

Select the desired audio output device.

Startup/Shutdown Settings

Startup Mode

Select **Startup When Powered On** or **Standby When Powered On**.

Scheduled Startup/Shutdown

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 Copying from USB Disk

If copying from USB disk is disabled, the device cannot read from external disks.

QR Code Sharing Settings

Share the content of whiteboard through a QR code.

Share in LAN Only

Devices in the same LAN as the flat panel can scan the QR code to download the content.

All Networks

Devices connected to all networks can scan the QR code to download the content.

Device Permission Settings

Wake from Serial Port

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

Wake from Signal Source

If this function is enabled, the device in standby status can be waken up if an input signal source is connected.

HDMI Output Settings

Connect the device through HDMI interface to share the contents. You can set the desired resolution, and enable audio and HDCP.

USB Settings

Follow Systems, Android and **PC** modes are available.

Boot Animation Settings

Set the boot animation for the device.

6.10 Security

Go to **Settings** → **Security** to enable screen lock and set your password.

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.

Warning

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

Chapter 7 Intelligent Applications

7.1 FileBrowser

Tap **FileBrowser** on the main page. All the files under the current directory are shown by default. Tap **Image**, **Doc**, **AV**, or **Installation Package** to view specified files. Icons are described as follows.

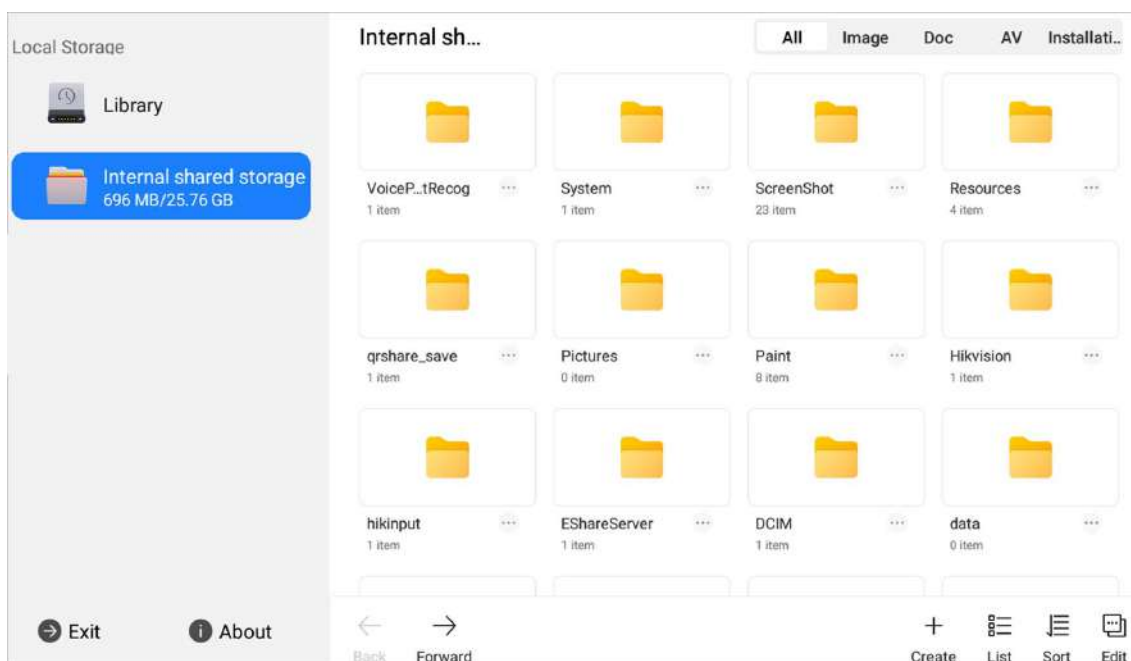


Figure 7-1 File Management

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.	--	--

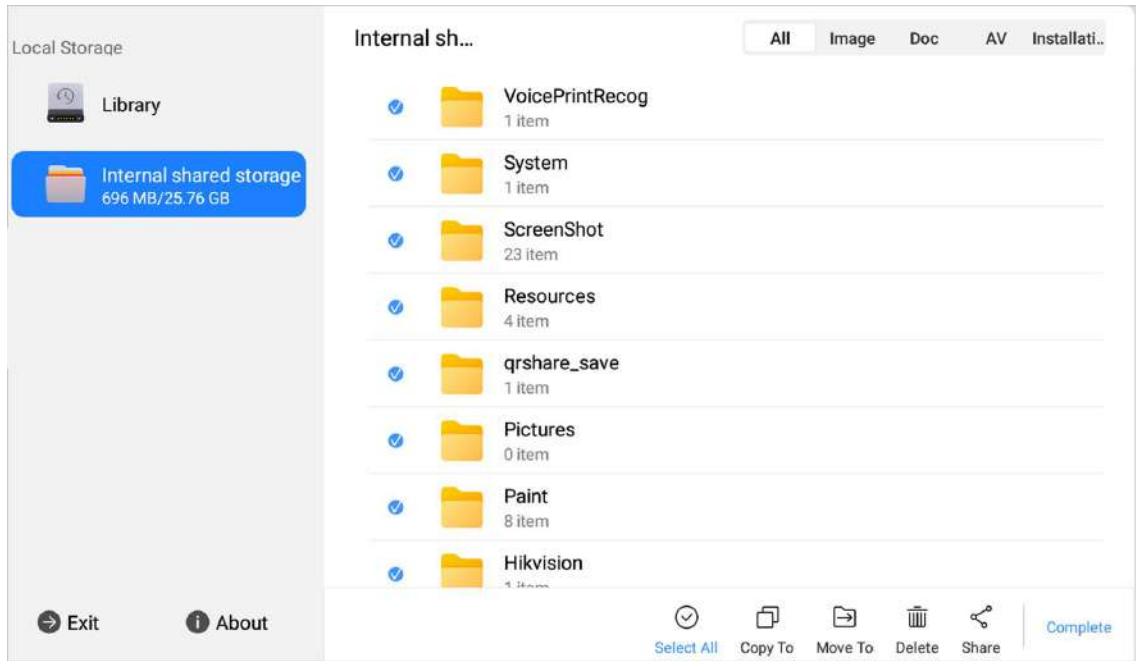


Figure 7-2 Edit the Files

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).	Complete	Turn back to the original page.

Note

Long press the file to perform other operations.

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 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 7-3 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.
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.
WonderCast	An application used to connect flat panel, mobile phone, or PC for screen mirroring.
Camera	It is used for taking picture by camera.

Appendix A FAQs



Question	Cause and Solution
Why do the condensations appear frequently on the screen?	<p>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.</p> <p>Condensations will evaporate after the device starts up and will not affect the use of the device.</p>
Why there is no sound coming from my laptop after connection?	<p>If only audio cable is accessed, both audio output and image output will be unavailable.</p> <ul style="list-style-type: none"> ● Access HDMI cable. ● Select the device as the audio output device in Windows.
Why does the screen get hot after a period of use?	<p>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.</p>
Does long-time use damage the eyes?	<p>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.</p>
Why there is no image in screen nor sound coming from the device?	<ul style="list-style-type: none"> ● Check if the power cable is connected. ● Check if the socket works normally. ● Check if the power switch is turned on.
Why does the device HDMI channel have no input signal?	<ul style="list-style-type: none"> ● Check if the input source works normally. ● Change HDMI interface or cable. ● If PC is accessed, set HDMI output on your PC.
Why is wired network unstable?	<p>Try to disable the auto network detection option.</p>





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