
Manual for Interactive Flat Panel



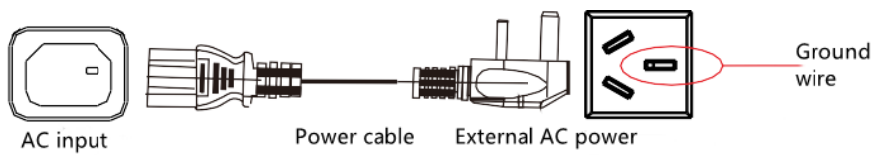
Dear clients, because the machine has many functions, in order to use it fully and effectively , please read the manual carefully. The content of this document may not fully reflect the latest machine changes, please refer to the actual product.

Safety warning instructions

Please read and understand the following precautions carefully before using this product.

- * The machine should be placed in environment that does not hinder good ventilation.

- * Do not place the machine on an unstable, underweight cart/shelf or table.
- * The machine must be firmly fixed on the wall by professionals.
- * I Class product (usually equipped with three-core power cord, needs to be grounded) should be connected to the grid power output socket with a protective ground connection.
- * The terminals marked with ⚡ are dangerously, and the external wires connected to these terminals need to be installed by instructed personnel or use ready-made leads and flexible wires.
- * The battery must not be exposed to such as sunlight, fire or similar overheating environment. To protect environment, used batteries should be disposed of in accordance with the recycling implemented in the region.
- * Before connecting the machine to external AC power, please ensure that the grounding is good, otherwise the product touch may be out of control and affect user experience.



Safety symbol

If there are the following safety symbols on the machine, you should pay attention:



Only suitable for safe use in areas below 2000m above sea level



Only suitable for safe use in non-tropical climate conditions

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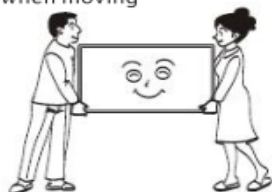
Precautions for use

1)Moving products

Be noted when moving the product, make sure the plug is unplugged from the power outlet and any cables are disconnected.

Make sure at least two people and keep touch panel stand upright when moving

Do not point the touch panel face up or down when moving



3)Not in use for a long time, disconnect the power

Standby mode is still power on



4)Don' t touch it when thunder or lightning occurs.

Antenna \ power cable \ etc, will take you in dangerous

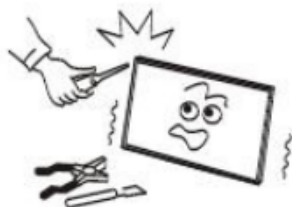


2)Do not climb

It' s dangerous to climb or hang on it.



5)Don' t try to fix it without guidance Consulting service technician



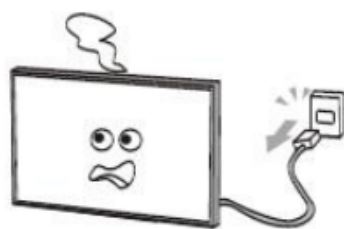
7)Fall down to damage

Disconnect the power cable immediately after contact service technician



6)Fire and smoke

Immediately turn off the product and unplug the power cable



8)Unplug the power cable before cleaning

Do not use some dangerous material to clean the product as such gasoline, solvents.

- ◆ Please try to use gently wipe the LED screen with a soft, dry cloth.



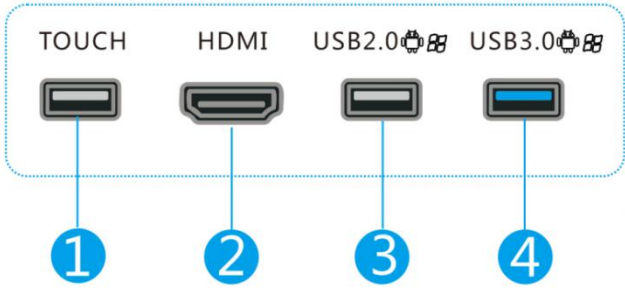
1、Product function introduction

Interactive touch flat panel is an intelligent interactive teaching device, which integrates infrared touch, LED display and PC. Covered functions: touch interaction, multimedia teaching and built-in Android & Windows dual systems. Abundant interfaces and control methods, sufficient design of redundant compatible/external peripheral devices, is a popular and newer generation of intelligent educational information equipment.

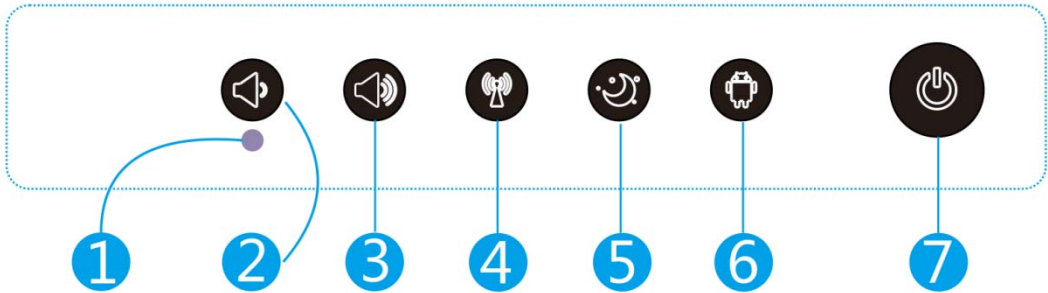
1. Features

- Built-in OPS-C standard PC module
- 4K Ultra HD display and 20 points touch
- Common front interface and button:
Front interface: USB2.0*1 (Android&Windows), USB3.0*1 (Android&Windows), HDMI In, USB Touch
Front buttons: Power on/off, Windows/Android switch, image mode switch button, signal source, volume up, volume down
- Three fingers press the screen to follow the floating menu
- Gesture swipe to appear the central control menu
- Full channel annotation
- **The left and right edges of screen can be swiped to adjust the brightness and volume**
- Wireless mirroring function
- Intelligent temperature control function
- Smart eye protection function
- Smart lock function
- Anti-blue light function
- Gesture block or green writing board close to turn off backlight
- Intelligent brightness sensor function

2. Front interface

		
1	TOUCH	USB Touch
2	HDMI	HDMI IN
3	USB	USB2.0 (Android&Windows)
4	USB	USB3.0 (Android&Windows)

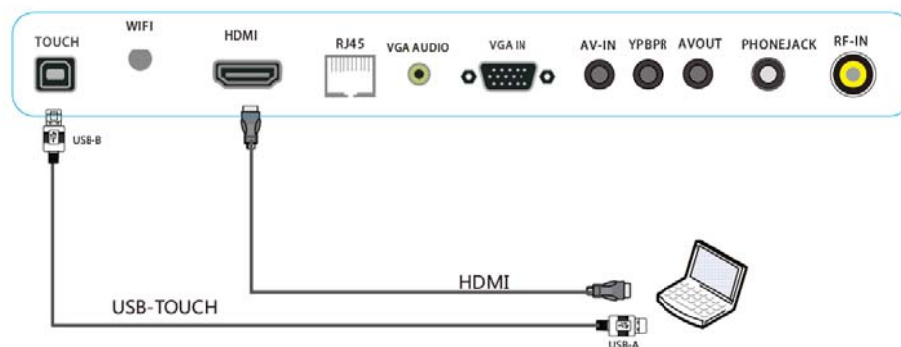
3. Front button function

	
1	PC system restore
2	Volume—
3	Volume+
4	Press the button to select the control channel,long press the button for 3 seconds to lock the machine, long press again for 3 seconds to unlock.
5	Press the button to switch the image mode,long press the button for 3 seconds to call up the central control menu.
6	Press the button to switch Android/Windows dual system, long press the button for 3 second, the display ratio (4:3/16:9) can be switched.
7	Short press it to turn on when power off,short press for energy saving screen when power on, short press again to turn on the backlight, when power on, long press for 3 seconds to power off.

2、Device connection instruction

2.1. External computer connected to the interactive flat panel

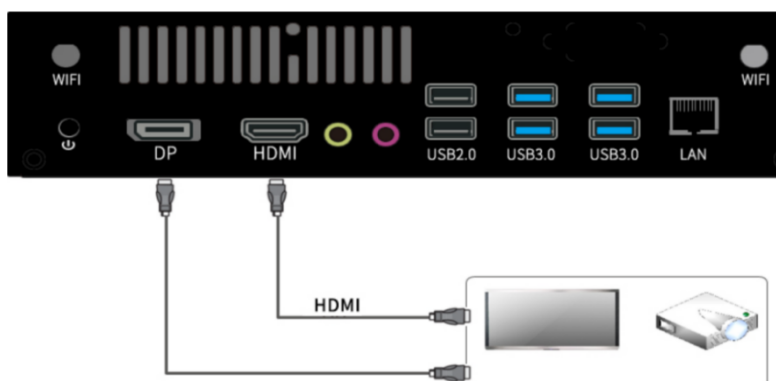
- ◆ Use HDMI cable to connect external computer to the front HDMI port at the bottom of panel.
- ◆ Use USB cable to connect USB port of external computer to the front USB-Touch port at the bottom of panel.
- ◆ After the connection is completed, open panel and computer, use remote control or touch the menu to select the corresponding signal source.
- ◆ Follow the on-screen display to confirm the signal source.



When connecting to an external computer, set the best resolution to 3840*2160 (some cables need to be provided by users)

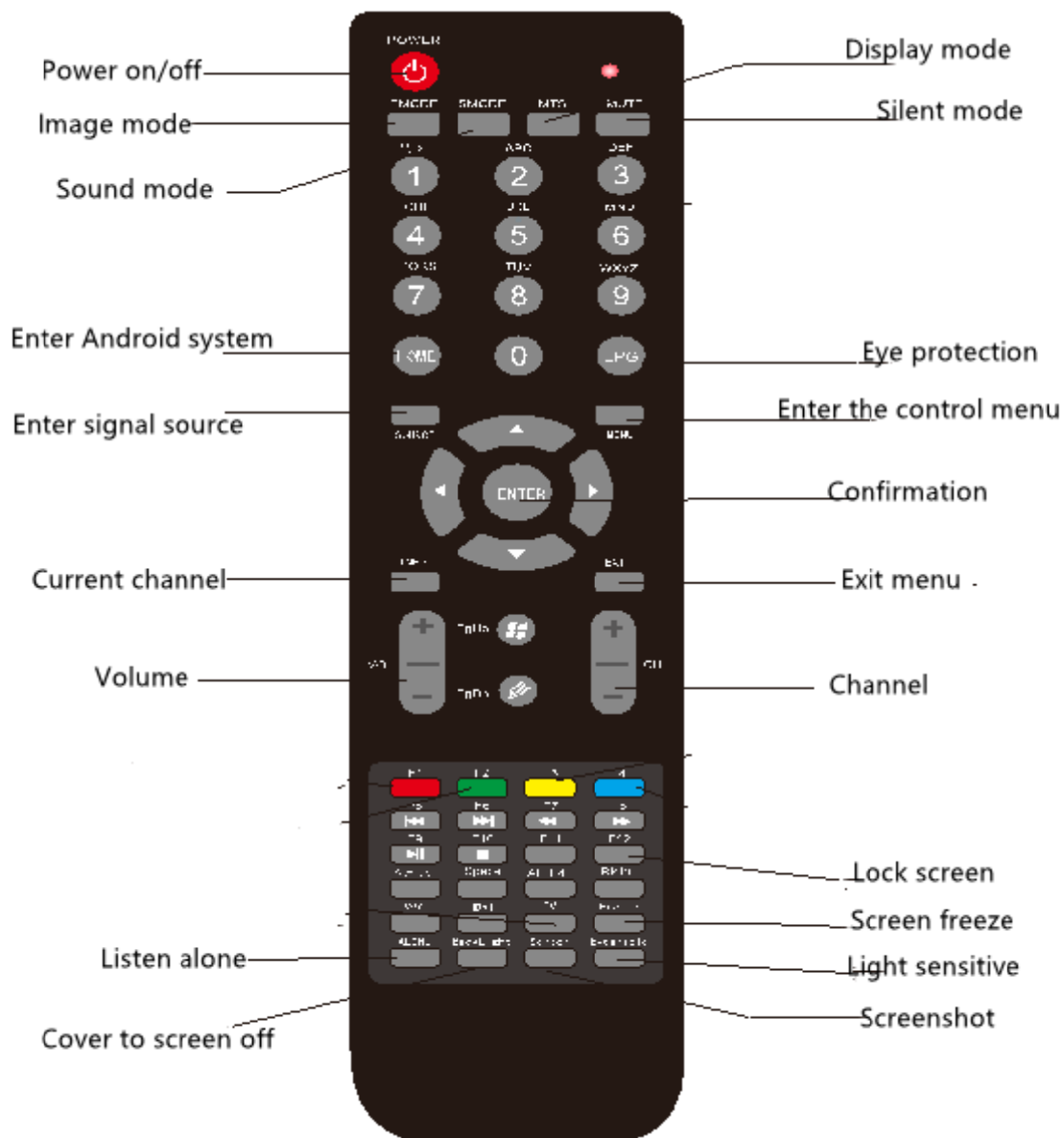
2.2. PC display output connection of the panel

- ◆ Connect to a projection or panel through DP (or VGA) and HDMI output port on the PC.



3. Remote controller instruction

1. Functions definition diagram



2. Precautions

- ◆ Please open the battery cover on the back of remote controller before use, insert two AAA batteries according to the polarity marked in the battery box and close the cover.
- ◆ Please aim the remote control at the receiver on front frame of the machine. If there is an obstacle between the machine and remote control, it may fail.
- ◆ In order to ensure the good operating mote control, if the operation is found to be abnormal, please replace the battery immediately.
- ◆ If users do not use remote control for a long time, please take out the battery to prevent the battery from leaking electrolyte.

4、System operation instructions

1. Power on /off

- ◆ Please make sure that the power cord is correctly inserted into the AC interface, and turn on the power of panel. At this time, the power indicator is steady red.
- ◆ Short press the power button of panel, the system can start normally, the power indicator light will be steady blue.
- ◆ In the power-on state, press and hold the power button for 3 seconds to shut down normally. When it shuts down by default, the system will shut down both the Android and Windows at the same time without shutting down the OPS system separately.

2. Screen energy saving

- ◆ In the power-on state, short press the power button, the system will turn off the backlight and enter energy-saving mode. At this time, the power indicator flashes in blue. After the backlight turning off, short press the power button of panel or touch the screen to resume normal display.

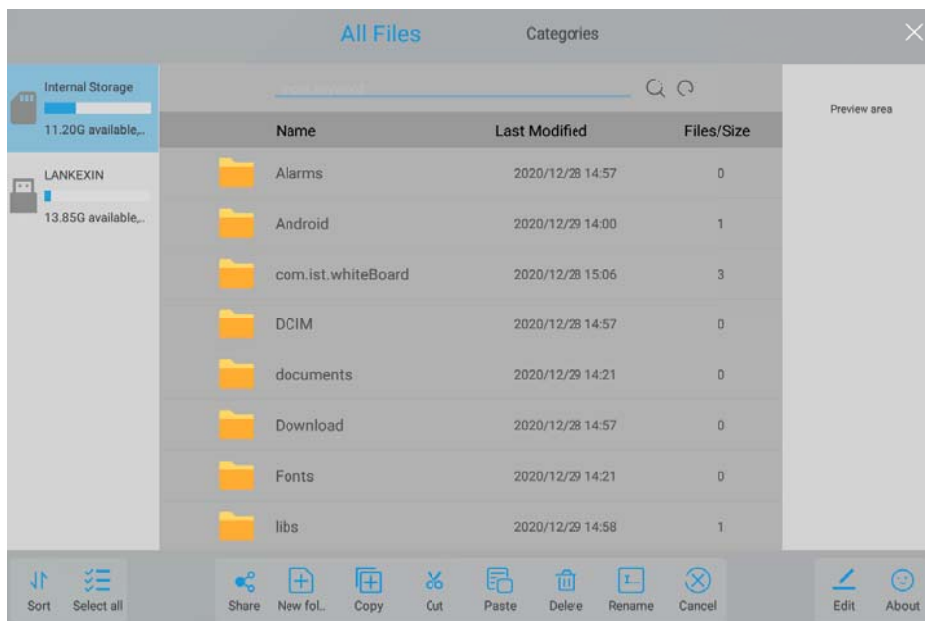
3. OPS system restore

- ◆ When the built-in OPS has a system failure, users can press the front button to restore the Windows system to factory state.
- ◆ When the system is restored, the OPS user data will be cleared. Please back up private data before restoration to prevent loss.

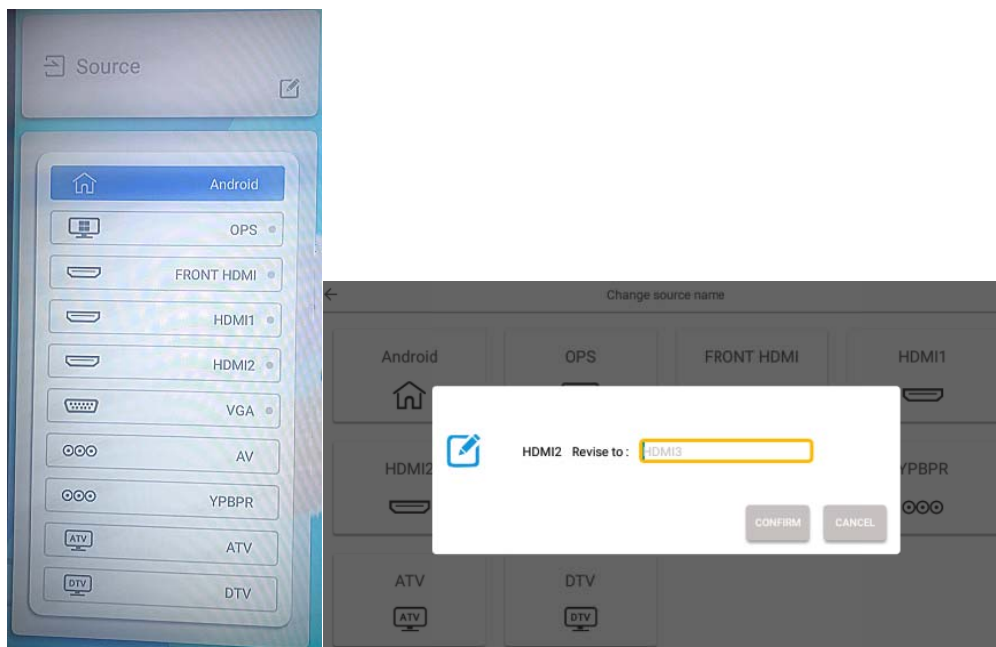
4. Home application



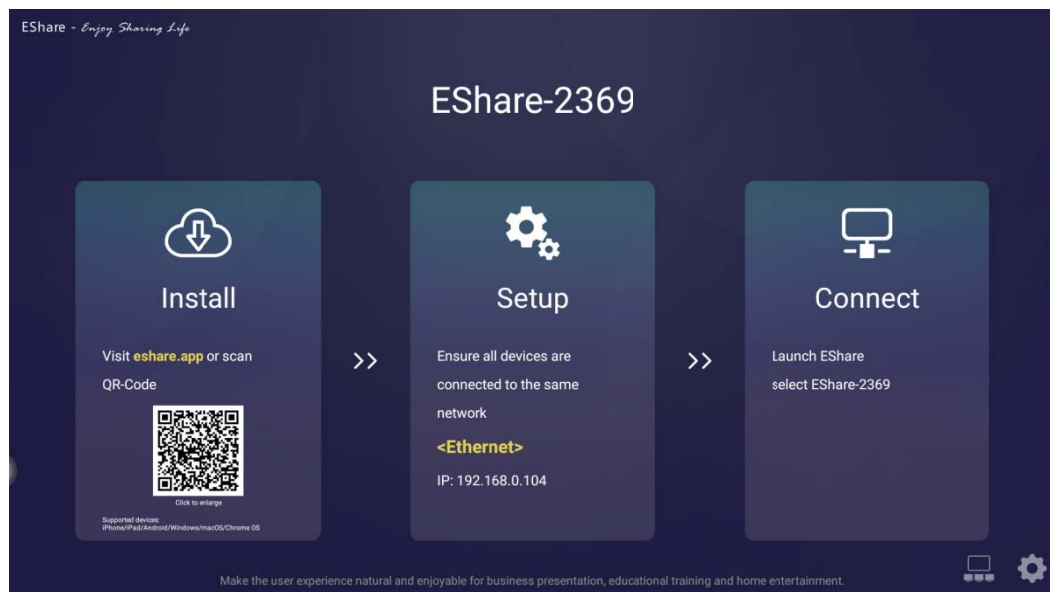
- ◆ Tap the icon  enter the file manager interface, users can view all files in internal storage and mobile storage, and support classified browsing mode. After selecting a file, you can perform common file operations such as sharing, copying, cutting, pasting, deleting, and renaming.



- ◆ Tap the icon , enter the signal source selection interface, users can select the signal channel by pressing the ▲/▼. When a signal is inserted, there is a signal detection prompt (the indicator light will be bright green when there is a signal, and the indicator light will be gray when there is no signal), and can click to change the name of signal source.



- ◆ Tap the icon , enter the wireless mirroring interface, and support users to use mirror device (need to be purchased out), mobile phones, iOS devices, notebooks and other mobile terminals for wireless screen mirroring. Such as E-Share.



5. Central control menu

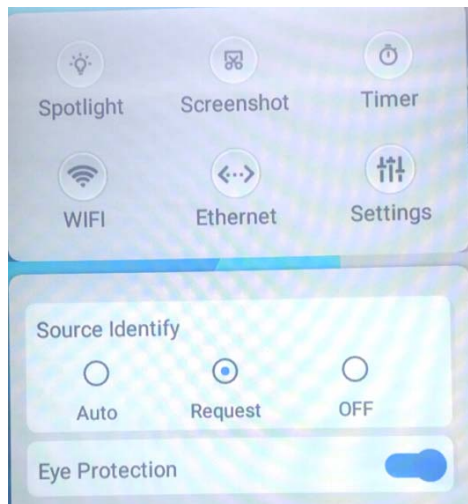
In any channel, gestures to swipe up from the bottom of the screen, or tap the small bar icons on the left and right of screen to bring up the navigation center control menu.



Icon	Function Description
	Return
	Homepage
	Multitasking
	Signal source
	Setting
	Comments
	Volume
	Backlight
	Half screen

6. MENU shortcut function

Use the remote control or the sidebar to call up the MENU, and click the corresponding icon to select the shortcut function.

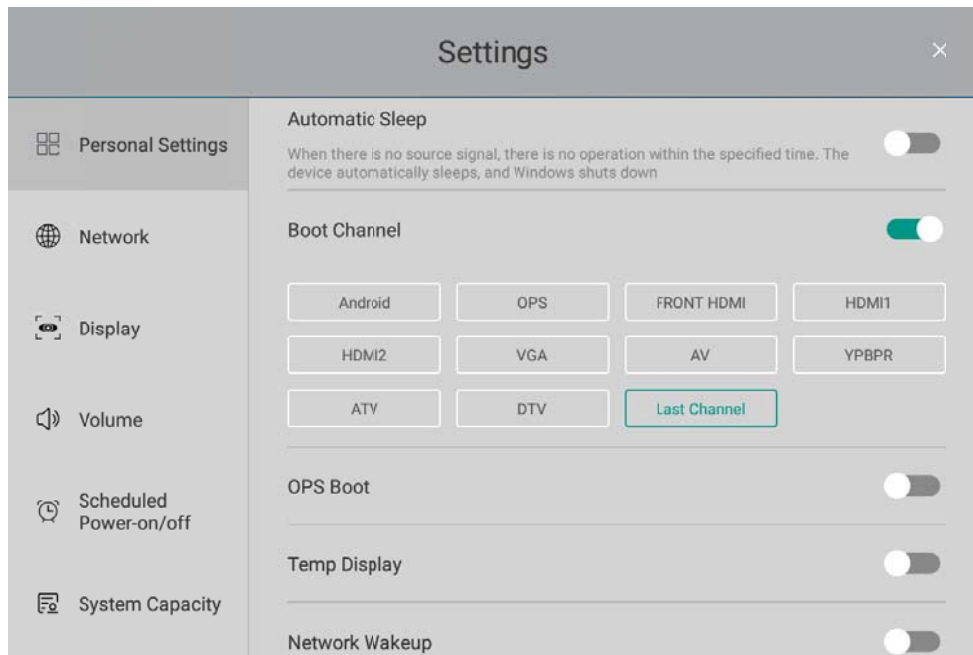


- Settings: Quickly enter the Android settings.
- WIFI: Quickly enter the wireless network settings.
- Spotlight: A bright focus circle appears on the entire screen, and the highlight range can be adjusted.
- Screen shot: can select a rectangle, take a screenshot of the full screen, and take a screenshot of the drawn area;
- Timer: Click it, select minutes and seconds, and touch to start timing, after pausing the timer, touch to return to the set initial value, click to display in full screen during timing, and click "Exit" to exit full screen mode, can move it to any position on the screen, click X to close the timer menu.

7. System function settings

The system provides a variety of settings, users can achieve different functional requirements or adjustments through settings. Click  in more applications or click  in the central control menu to enter the settings menu application:

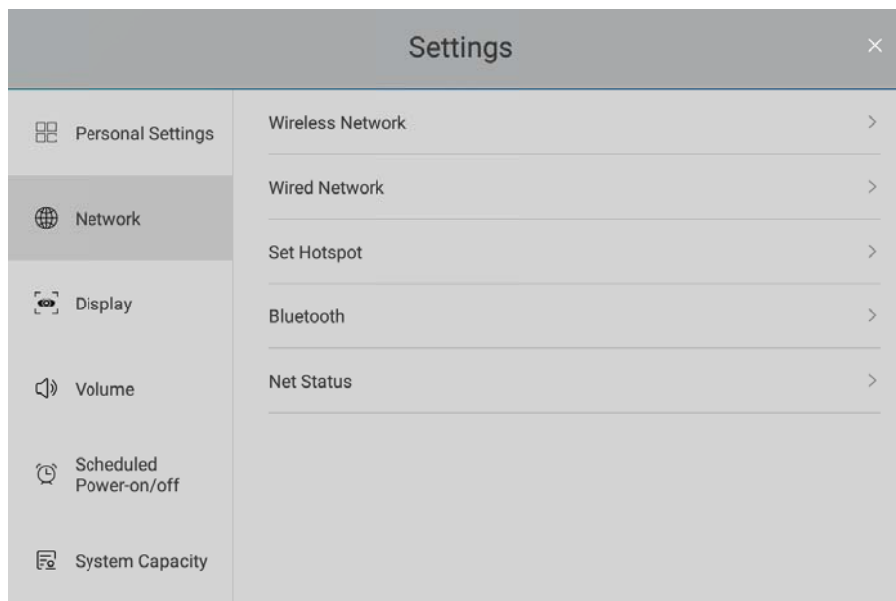
7.1 Common Functions



- ◆ Auto sleep: users can set "auto sleep" function to turn on or off. After it's turned on, the whole machine will automatically enter the sleep state after 15 minutes under the no signal channel.
- ◆ Boot channel: users can set the system to automatically enter a channel after booting such as Android, OPS, front HDMI, HDMI1, VGA, last channel.(The "last channel" is the channel where the machine was closed last time)
- ◆ OPS Boot: users can choose to set the start mode of "OPS signal source only" or "any signal source".
- ◆ Temperature display: users can set whether to open the temperature monitoring function of machine.
- ◆ Network wake up: The system can be set to wake up remotely via the network in standby mode (need to cooperate with third-party tools).

7.2Network

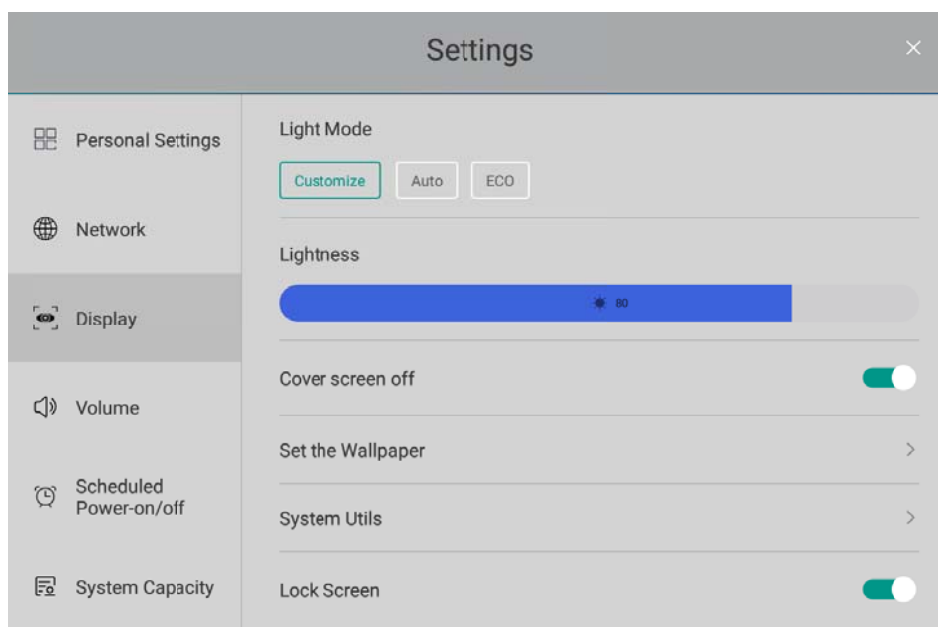
Through the network setting interface,users can conveniently set up wired network, wireless network, hotspot and Bluetooth functions.



Set hotspot: can modify the network name, if users need a password to connect to the hotspot, also need to set a password and AP band, then click to save. Finally, exit and then enter this option and turn on the hotspot setting.

7.3 Display

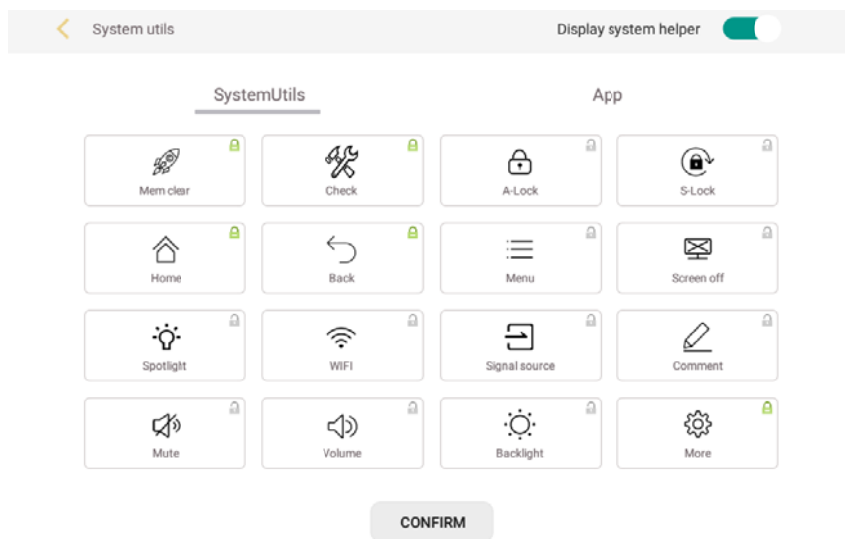
In the display setting interface, users can set brightness mode, cover screen off, wallpaper, lock screen, and system assistant.



- ◆ Brightness mode: users can choose to set three brightness modes of "custom", "auto" and "energy saving". Only in the custom mode, can manually adjust the brightness of machine. In energy-saving mode, the brightness is fixed at 50.
- ◆ Cover screen off: users can choose to turn on or off the "cover screen off"

function,after turning on it,use the palm or an opaque object to cover the bottom frame of panel, the machine will enter the screen energy-saving state, and cover it again to turn on the backlight.

- ◆ Set wallpaper: users can set the system wallpaper, and support to choose a picture to customize the wallpaper.
- ◆ System Assistant: users can set whether to open the system assistant (floating menu), and support customization to add system tools or application program to the floating menu.



- ◆ Lock screen: turn on the lock screen function, the system needs to enter a password or gesture to unlock the screen before starting to enter the main interface. It can enter "2580" super password to unlock the screen.

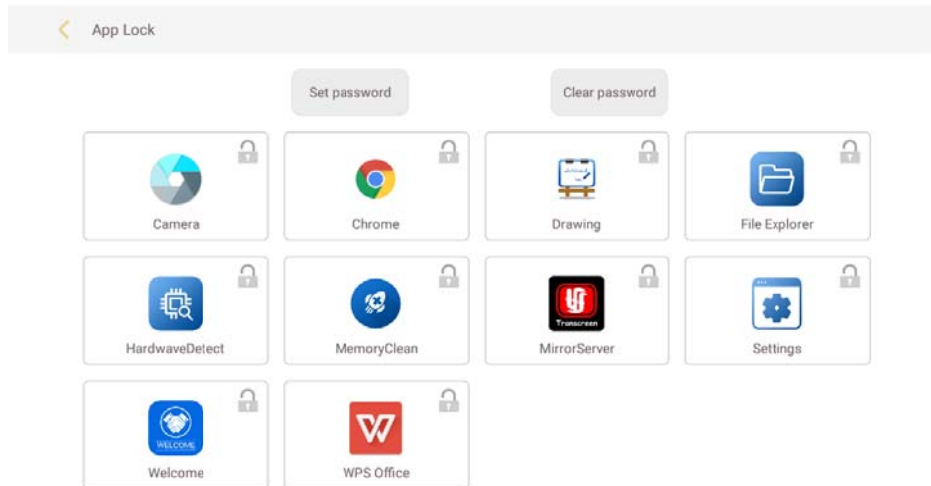
7.4 Reset:

In the factory reset interface, users can clear the data and restore system factory settings. This function will delete all the user's personal data, please operate it with caution.

8.App lock



Click the application lock icon on the Android application list, to enter the setting interface. Need to set a password before lock an app for the first time, after setting an app lock, must enter the password before it run.



9. Floating menu

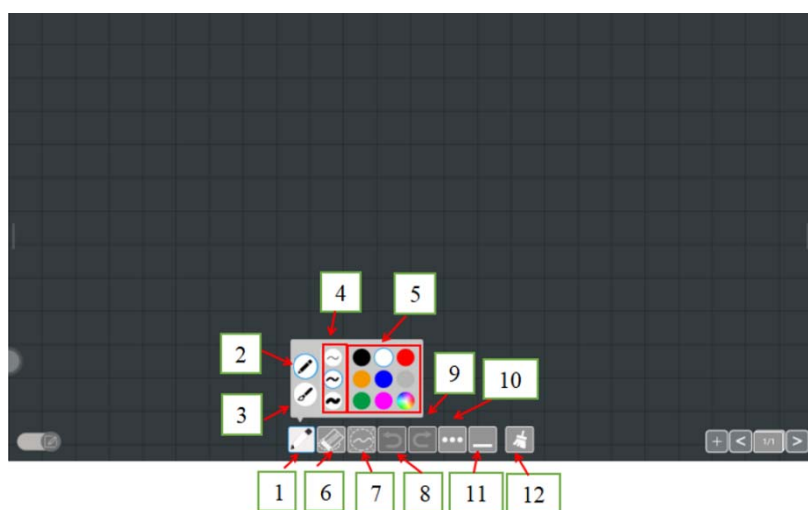
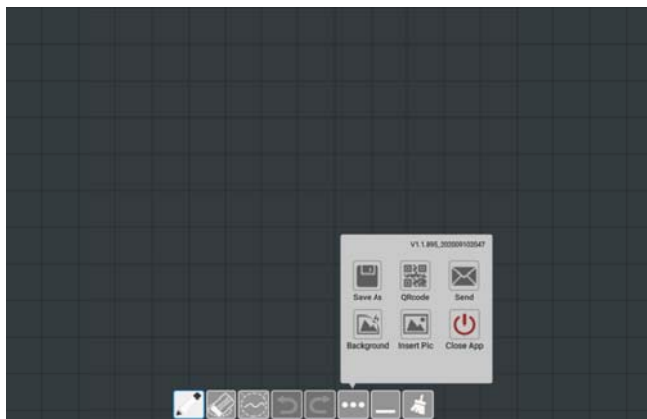
The floating menu (system assistant) can be used in any channel, or can also be called by pressing the screen with 3 fingers for about 3 seconds. It can quickly execute related applications, and the system supports customization to add other applications to the floating menu.

- ◆ The icon  floating on the desktop can be moved freely and displayed in any interface.
- ◆ Press with 3 fingers at any position on the screen for 2 seconds, and the icon will automatically move to the finger position.
- ◆ Add/Delete: Click the "More" icon in the floating menu, and select the application to add or delete in the interface; users can choose to close or open the floating menu function.



10.Whiteboard:

The built-in whiteboard writing function can be accessed through the homepage application. The whiteboard program provides convenient writing tools and a variety of methods to save the contents of the blackboard.



Icon name	Function
1. Pen	Click to select pen to write
2. Hard pen	Choose hard pen to write
3. Brush	Choose brush pen to write
4. Pen thickness	Choose three different line widths
5. Pen color	Choose different colors to draw lines
6. Eraser	Choose to erase any part, circle select erase, erase all, etc.
7. Circle	①Those enclosed by the dashed circle or intersecting the drawn line will be selected. ②Roaming: under the "circle selection" mode, user can move and zoom the selected line or the entire screen with two or more fingers.
8. Undo	Undo the last operation

9. Recover	Recover the last operation
10. More	Save whiteboard content, scan code to share, send email, change background, insert picture, close application function
11.Minimize	Minimize the whiteboard window, click it again to recover the enlarged window
12.Clear screen	Click   screen content empty

5、Simple troubleshooting

1.Interactive flat panel does not work properly

Remote control malfunction	1. Check whether there is any obstruction between the remote control and the receiver of the machine.
	2. Check if the battery in remote control is installed or needs to be replaced.
	3. Check whether the remote control is operated within the receiving range of machine.
Display no signal	1. Check whether the connection of the signal input device to the machine is correct.
	2. Check whether the signal source of the machine is correct.
Automatic shutdown	1.Check whether the power cord is in good contact.
	2. Check if sleep mode is set.
	3. Check if there is no signal input.
	4. Check whether the backlight is turned off by mispressing the button.

2. Built-in PC display abnormal

The image is not full or out of range	1. Check if the resolution is the best resolution.
	2. Check whether the image zoom mode is correct.
image is missing or the color is wrong	1.Check whether the cable is not connected well or the cable is damaged.
	2.Check whether the image mode in the menu is the default.

	3.Check whether the PC display output settings are correct.
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3. Touch function abnormal

Invalid touch	1. Restart PC and confirm whether the touch function can be restored.
	2. When touching the external PC, confirm whether PC recognizes the touch device and the driver is installed correctly.
Touch pointjump	1. Check whether the installation of blackboard is flat and not inclined.
	2.Check whether the power is properly grounded.

4. Audio function abnormal

There is image but no sound	1. Check if the machine is in silent mode.
	2. Increase the volume.
	3.Check if the audio cable is connected properly.
	4. Check whether the sound output of PC's sound card is correct.
Only one side speaker has sound	1. Adjust the sound balance in the menu.
	2.Check whether the PC sound control panel has only one channel set.

6、Daily maintenance

Proper maintenance can prevent many early failures, regular cleaning can avoid affecting operation, while avoid affecting the display and perfect appearance.

1. Clean screen

- ◆ Use soft cloth to gently wipe dust and other objects on the screen glass.
- ◆ Avoid repeated wiping with sharp tools to scratches or damage the screen glass.
- ◆ If it is difficult to wipe off the objects with dry cloth, users can dip the cloth in a small amount of water, neutral detergent and glass cleaner, and prohibit the use of organic solvents.
- ◆ Be careful not to squeeze water out into the machine.

2. Clean the frame

- ◆ Use a dry and soft cloth to wipe the front frame and pay attention to inspection to prevent the front it from being scratched by objects.
- ◆ Clean the place where the glass around the touch panel and the front frame are combined, avoid accumulation of dust or other objects.

3. When the panel is not used for a long time, please unplug the power and remove the batteries of remote control.

Environmental Precautions and Instructions

Protecting environment is the responsibility and obligation of every society member. Please pay attention to the following matters when using this product.

1. Energy saving: It is not only a need to protect environment, but also save you electricity bills.
2. Period of environmentally friendly use and hazardous substances.

The "Environmental Use Period" on the product and remote control is shown on the left. They are 10 years. The environmental protection use period of replaceable parts such as batteries may be different from The "Environmental Protection Use Period" is valid only the product is used in the normal environment described in the manual.

3. Product recycling and reuse

The product adopts design scheme that is conducive to the rational use of resources and harmless treatment. Under the existing technology, it uses as far as possible non-toxic, harmless (or low-toxic and low-harm) and easy-to-recycle materials. Company guarantees to provide replaceable parts that meet the standards and environmental protection requirements. If the product needs to be repaired or replaced, please contact our after-sales service department.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.