

# User Manual

## ZK-IWBE

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English

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.



For further details, please visit our Company's website  
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If there is any issue related to the product, please contact us.

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## About the Company

ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/Floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader door locks. Our security solutions are multi-lingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof.

The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

## About the Manual

This manual introduces the operations of **ZK-IWBE**.

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.






## Document Conventions

Conventions used in this manual are listed below:

### GUI Conventions

For Software	
Convention	Description
<b>Bold font</b>	Used to identify software interface names e.g. <b>OK, Confirm, Cancel.</b>
>	Multi-level menus are separated by these brackets. For example, File > Create > Folder.
For Device	
Convention	Description
<>	Button or key names for devices. For example, press <OK>.
[]	Window names, menu items, data table, and field names are inside square brackets. For example, pop up the [New User] window.
/	Multi-level menus are separated by forwarding slashes. For example, [File/Create/Folder].

### Symbols

Convention	Description
	This represents a note that needs to pay more attention to.
	The general information which helps in performing the operations faster.
	The information which is significant.
	Care taken to avoid danger or mistakes.
	The statement or event that warns of something or that serves as a cautionary example.

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## **Safety Warning**

1. Use only the power supply and voltage specified on the label.
2. A three-prong power cord is included. Make sure that the ground terminal of the wall outlet is well grounded before installation. Ensure to route the power cord away from passageways to avoid treading and keep it away from areas where it may get pressed.
3. Do not overload the power outlet and use a certified power outlet.
4. To prevent damage during thunderstorms, please disconnect the panel from the antenna and pull out the power plug as well as the network cable.
5. If the panel will not be in use for an extended period, it's recommended to switch it off and pull out the power plug.
6. In case of any abnormal sound or smell, please power it off immediately and pull out the power plug. If necessary, stop using it and contact the maintenance personnel as soon as possible.
7. Keep away from flammable and explosive materials (e.g., candle, electric stove, bulb).
8. Be careful to keep liquids and metal objects out of the panel. If so, stop using it immediately and contact the maintenance personnel.
9. If the panel is transferred from a low-temperature environment to a warmer one, there is a possibility that condensation may form inside it. In such case, the panel should be left idle for at least 24 hours before restarting to allow the condensate to air-dry.
10. Handle it with at least two persons, avoid impact and pay special attention to the display screen during the transfer.
11. To avoid injury, please install the base according to the instructions and then place the panel on an even and steady ground; or if the base is not installed, the panel should be firmly fixed to a wall according to the wall-mount bracket installation instructions.

12. Do not place the panel in any environment:
  - a) To direct sunlight, moisture, high/low temperature, or dust. To poor ventilation or an enclosed environment.
  - b) To where any flammable or explosive material is present.
  - c) To where any combustible or corrosive gas is present.
13. Do not expose the battery to excessive heat such as sunlight or fire, as there is a risk of explosion.

## **Precautions**

1. Do not disassemble the panel yourself in any way. Opening or removing the cover without permission may expose you to dangerous voltage or other hazards. If you have any maintenance problems, please contact a professional service person.
2. If the panel is dirty, first disconnect the power plug. Then dampen the cloth with water and wipe with the slightly wet cloth. Be careful not to apply too much pressure while cleaning the display screen, as this could result in scratches. Avoid using solvents like alcohol, gasoline, acid, alkali, detergent, volatile oil, and diluents since these solvents may damage the panel.
3. Condensate may form inside the screen under highly humid conditions, which is a normal phenomenon as temperature variations between the external and internal glass surfaces may lead to water droplets on the internal glass surface. Such water droplets will disappear automatically after 24 hours of normal use. Please rest assured to use the panel.
4. Do not insert any sharp objects or metal objects into the heat sink or touch the signal connector to avoid damage to the panel or electric shock due to a short circuit.
5. The main material of the LCD is glass, which is brittle. Do not apply pressure to the LCD to avoid damage.
6. To prevent the panel from falling over, avoid placing it on an unstable cell

phone, table or shelf. When placing the panel on a pushchair, take care while moving it to avoid sudden emergency stops, excessive force, or moving on uneven ground as this may cause the trolley and the panel to fall over.

7. The openings on the panel are designed for ventilation and heat dissipation to make sure the good performance. The ventholes should not be covered with objects such as newspapers, tablecloths, or curtains.
8. Do not allow the panel to display a static screen or an active screen for an extended period of time. This can cause a "ghosting" effect to appear on the screen, which may persist long after the power has been turned off.
9. To ensure the display effect of this product, please select the cables that meet the certification requirements.

## 1 Panel Features

This panel uses HD LED-backlit panel, IR and multi-touch technologies. Equipped with a writing software, it is convenient, highly interactive, safe and environmentally friendly.

- **High Interconnectivity (Optional)**

This product can connect to other devices. It allows wireless connection with PCs, PADs and mobile phones, realizing wireless transmission of documents, wireless push of videos and wireless screen cast.

- **Extraordinary Display**

The panel uses a high-quality, high-definition LCD panel, which displays the original color performance, soft frame, uniform display, no flicker, and fast response time, allowing a clear picture to be viewed from different angles.

- **Accurate Touch Control**

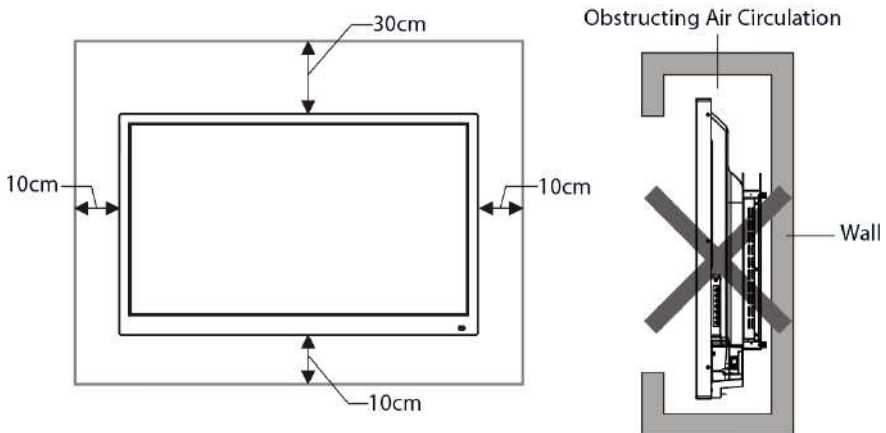
The panel incorporates advanced touch control technology with technical features such as fast response time, high positioning accuracy, strong environmental adaptability, and accurate operation. No special writing pen is required and operations can be performed directly with your hands by clicking and dragging instead of using the marker.

- **Highly Interactive**

The panel includes professional whiteboard writing software that offers a variety of pens, drawing tools, and other features that enable writing and movement on the screen to enhance interactivity.

## 2 Installation

1. For installation of the wall-mount bracket, at least two professional workers are required; you should not attempt to install it, otherwise injury may result.
2. During installation, assistance from professional workers is needed to designate the installation also, measures should be taken to make sure it can bear certain amount of external force. Make sure the bracket is installed onto a firm wall rather than plaster board or other surface which can not provide strong support.
3. This product should be installed on a vertical plane, not on an oblique plane; also, it should not be installed with the front facing upwards; otherwise falloff of the product or personal injury may be caused.
4. To avoid damage of the product or injury, keep the bracket out of the reach of children.
5. The installation is shown in the figure below; ventilation space should be kept around the product.



## 3 Interface Connection

**Note:** The interface connection instructions are provided below. The listed port types are for reference only, and do not cover all ports on this panel.

### 3.1 Power Interface



Machine specifications 1: 100-240V AC, 50/60Hz.

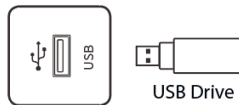
Machine specifications 2: 200-240V AC, 50/60Hz.

To power socket AC 100 to 240V, 50/60Hz.

**Note:** The specifications of the power supply are determined by the power board in use.

### 3.2 Signal Input Interface

#### 3.2.1 USB Interface



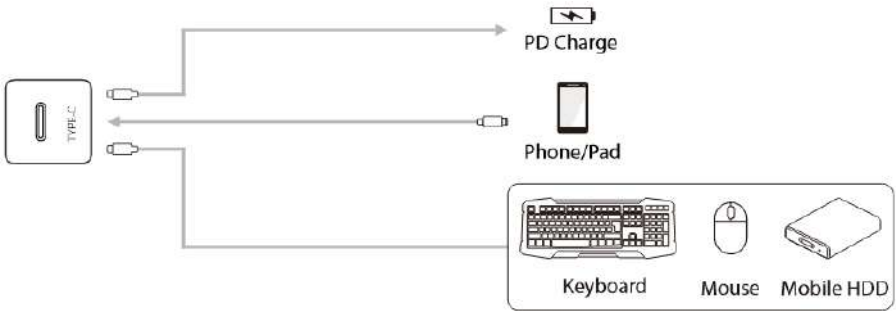
1. The interface is suitable for USB2.0/3.0. The output current of USB2.0 is 500mA, and the output current of USB3.0 is 900mA.
2. This product is connected with wireless keyboard and mouse. In case of stuck operation or slow response, change the wireless receiver to another USB port, or use the USB extension cable to connect the wireless receiver, thus to enlarge the reception range.
3. Some nonstandard USB devices may be unrecognizable, please use standard USB devices.
4. For upgrading software with a flash drive, please use a USB2.0 flash drive.

### 3.2.2 TOUCH-USB Interface



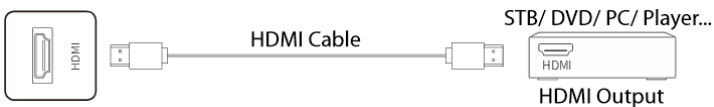
1. When the TOUCH USB port is connected to the same device with the signal source, the external device can be operated by the TOUCH function.
2. There are multiple rear TOUCH-USB ports, HDMI1 > TOUCH1, HDMI2 > TOUCH2, DP > TOUCH3.

### 3.2.3 Type-C Interface



1. This interface is Type-C port, which can support PD power supply (Max up to 5V, 3A), DP signal display (connect to Type-C display devices, such as mobile phone, tablet and so on) and high-speed USB data transmission.
2. To ensure stable and reliable use, please match with certified standard wire.
3. The simplified motherboard does not support DP signal display.

### 3.2.4 HDMI-IN Interface



The maximum resolution supported by HDMI port is 4K@60HZ, please see the section of technical parameters for the detailed signal formats. When 4K@60HZ signals are played, the EDID version in the OSD menu should be switched to



EDID2.0.

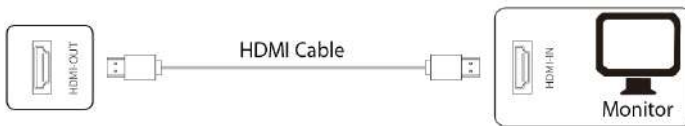
### 3.2.5 DP Interface (Optional)



The DP interface can support a maximum resolution of 4K @ 60Hz. However, the quality of the signal may be affected by the length and quality of the DP cable being used. To ensure optimal performance, it is recommended to use a standard DP cable.

## 3.3 Signal Output Interface

### 3.3.1 HDMI-OUT Interface (Optional)

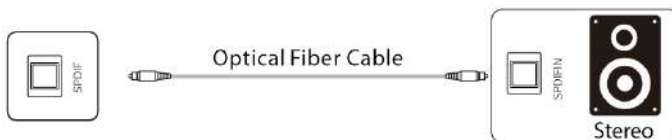


The HDMI-OUT interface can send the audio and video signals from one panel to the HDMI-IN interface of another panel. The second panel can then pass on the audio and video signals to the next panel, and so on.

The maximum number of connections is affected by the quality and length of HDMI cable, so it is recommended to use standard cable.

## 3.4 Audio Interface

### 3.4.1 Optical Fiber Interface



The interface is capable of transmitting the audio signal from the panel to audio equipment with SPDIF-IN interface.

### 3.4.2 MIC Interface



MIC interface can be connected to microphones.

### 3.4.3 AUDIO-OUT Interface



AUDIO-OUT interface can be linked to either earphones or an external speaker.

## 3.5 Internet Interface

### 3.5.1 LAN Interface



This interface is an onboard network interface. It is capable of connecting to the cable network on an Android device and supports automatic adaptation for 10M/100M/1000M. Only 10M/100M is supported for Android, and 10M/100M /1000M for OPS or another port for other devices.

After connecting either interface to the network, the OPS can share the priority network connection, and the other interface can connect to other devices to share the wired network through network cables. (Both interfaces must be set to automatically obtain IP addresses.)

**Note:** The Simplified Motherboard network supports only 10M/100M.

## 3.6 Control Interface

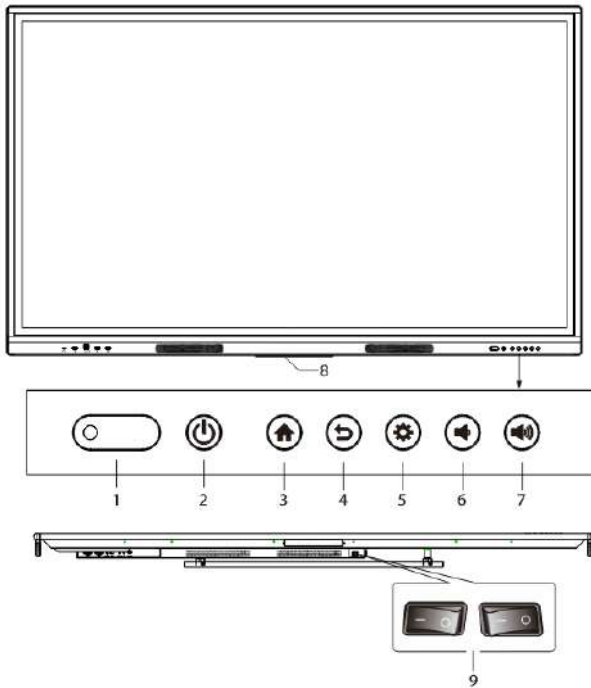
### 3.6.1 RS232-IN Interface



After RS232-IN interface is connected to the computer, the panel can be operated through the computer.

**Note:** Please take the actual model interface as the criterion. Different models of equipment contain different types of interface.

## 4 Panel Description



No.	Function
1	Indicator light, remote control receiving window and light sensing receiving window.
2	Power button.
3	Home button.
4	Returns button.
5	Set button.
6	Volume down button.
7	Volume increase button.
8	Wi-Fi plastic support.
9	Switch button.

## **5 Remote Control**

### **5.1 Precautions for Use of Remote Control**

1. Aim the remote control at the remote receiver when using the remote control. Any object placed between the remote control and the remote receiver may disturb the operation.
2. Protect the remote control from vibration. Do not expose the remote control to direct sunlight as the heat may deform it.
3. When the remote receiver is subject to direct sunlight or strong light, the remote control may malfunction. In such case, please change the angle of the lighting or the panel or operate the remote control close to the remote receiver.
4. Replace the batteries in case of low battery as it will reduce the range of the remote control. If the remote control is to be left unused for a longer period of time or the batteries are being depleted then, please remove the batteries as battery leakage may damage the remote control.
5. Do not use batteries of different types or mix a new battery with a used one. Always replace batteries in pairs.
6. Do not throw batteries into a fire or recharge or disassemble batteries. Do not recharge, short-circuit, disassemble/assemble, heat or burn any used batteries. Please dispose of waste batteries according to applicable environmental regulations. Do not expose batteries to hot environment, such as direct sunlight or fire.

## 5.2 Buttons on Remote Control



No.	Button	Function
1	Power	Switch between power-on and standby states.
2	Source	Open or close the signal source list.
3	Cursor	Select or adjust the menu options.
4	Confirm	Confirm the operation.
5	Menu	Show or hide the main menu.
6	Home	Display the home page.
7	Return	Return to the previous interface.
8	OPS	Switch to OPS source.
9	Writing	Switch to the writing interface.
10	Snapshot	Take a screenshot.
11	Volume-	Decrease the volume.
12	Mute	Mute mode.
13	Volume+	Increase the volume.

### Note:

1. The picture is for reference only. Please refer to the physical appearance of the remote control.
2. The button function of the remote control may be different for different models. Please refer to the actual function.


## 6 Basic Operation


### 6.1 Startup/Shutdown

#### 6.1.1 Startup/Shutdown


Use a power supply ranging from 100V to 240V AC.

- **Physical Key**

The  buttons on the panel and remote control are unipolar switches. When the power is on, press this button to switch between the startup or standby state.

The  button on the backplane is a full-polarity switch. If the switch is turned to "O", then the power supply is turned OFF. If the switch is turned to "I", the power supply is turned ON.

- **On-screen**

Click the  icon in the lower right corner of the home page, click **Confirm** to turn off the OPS or the panel.

#### 6.1.2 Auto Standby

The panel will not enter standby mode, regardless of whether there is a signal input or not.

In the non-Android main interface, if there is no signal input within 15min, the panel will automatically enter the standby mode.

#### 6.1.3 Save before Shutdown

Before shutting down, the panel saves picture and sound settings, which are restored upon powering on.

#### 6.1.4 OPS ON/OFF (Optional)

If the panel is installed with the OPS module and is in the OPS signal source, the OPS module will start automatically. If not, it should be started manually.

Before turning off the panel, you should first use the touch function or mouse to turn off the OPS module from the Start menu. The **Standby** key on the panel or

remote control can be used to turn off the panel only after the OPS module completely shut down. It is not allowed to press the **Standby** key or directly disconnect the power supply without turning off the OPS module, as it may damage the OPS module.

When the OPS module enters the OFF state and no operation is performed on the PC for a longer period of time, this panel will enter standby mode. To use the module, just restart the panel.

**Note:** The specifications of the power supply are determined by the power board in use.

## 6.2 Home Page

Users can view time, date, USB drive information, network information, hotspot information and common software on the home page. Swipe right to view the welcome interface and swipe left to view all the applications.












**Note:** User can install new application and the operations may vary. The operation methods detailed in this Manual are for reference only. User shall operate the machine according to the actual situation.



## 6.3 Sidebar

To bring up the sidebar menu, click the sidebar shortcut arrow and swipe the edge of the screen inwards (or turn off the gesture switch).


Icon	Function	Description
	Return	Return.
	Home	Switch to the Android home page.
	OPS	Switch to OPS source.
	Source Settings	Source Settings, information source preview.
	All Application	S-Write, Setting, File Manager, File Transfer, Browser, Specification, WPS, K-Share, Cloud Disk.
	Comment	Open comment.
	Utility	Back Counting, Eye Protection, Calculator, Vote, Screen Capture, Shot Stopwatch, Touch Lock, Spotlight, and Touch Sound.
	Screen Drop-down	The whole screen moves down.
	Multitask Manager	View and manage background running processes.

## 6.4 Signal Source

### 6.4.1 Source Switching

When switching the source, you can use the remote control or sidebar to switch. The method is as follows:


**Method 1:** Press the **Source** button of the remote control to enter the **Signal Source** interface. At this time, you can press the **Cursor** button of the remote control to select the source. Press the **OK** button of the remote control to switch the input source.

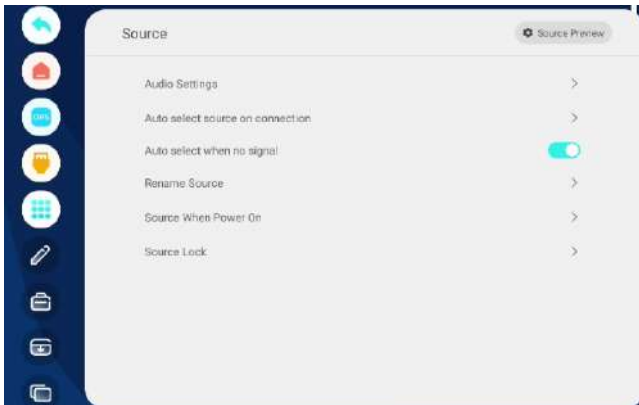
**Method 2:** Open the sidebar, click the  icon to enter the **Signal Source** interface, select a source and then click to switch.




**Note:** Different configurations have different signal sources, subject to the actual signal source menu.

### 6.4.2 Source Settings

Open the sidebar, click on the  icon to enter the **Signal Source** interface, click **Source Settings** in the upper right corner to set the video quality, audio settings, auto select source on connection, auto select when no signal, rename source, source when power is on, source lock, no signal auto shutdown etc.




### 6.4.3 Audio Settings

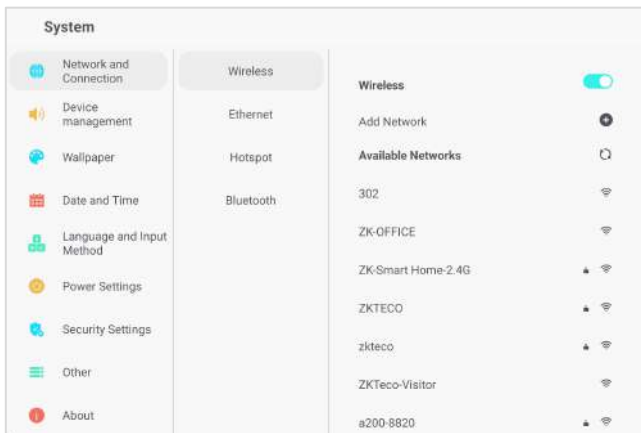
Open the sidebar, click on the  icon to enter the **Signal Source** interface, click **Source Settings** in the upper right corner, and then click **Audio Settings** to adjust the Volume, Channel Balance, Bass and Treble etc.



## 6.5 Network and Connection


### 6.5.1 Wireless

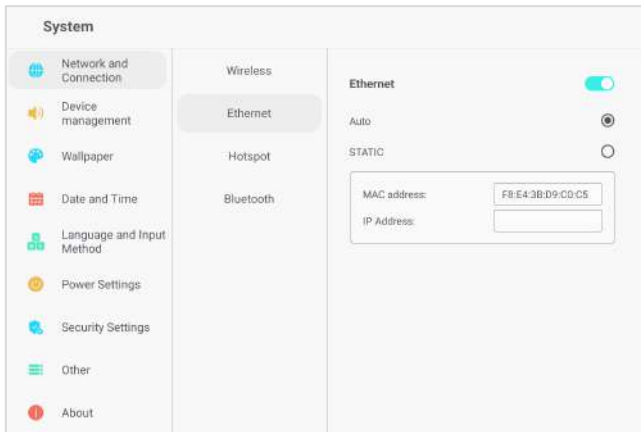
Click the  icon in the lower right corner of the home page to enter the **System** interface, click **Network and Connection** > **Wireless** to set wireless network.



1. Choose an available network and click, then input the password to connect.
2. If there is no desired network in the list, click **Add Network** to add a network manually.

## 6.5.2 Ethernet


Click the  icon in the lower right corner of the home page to enter the **System** interface, click **Network and Connection** > **Ethernet** to set wired network.

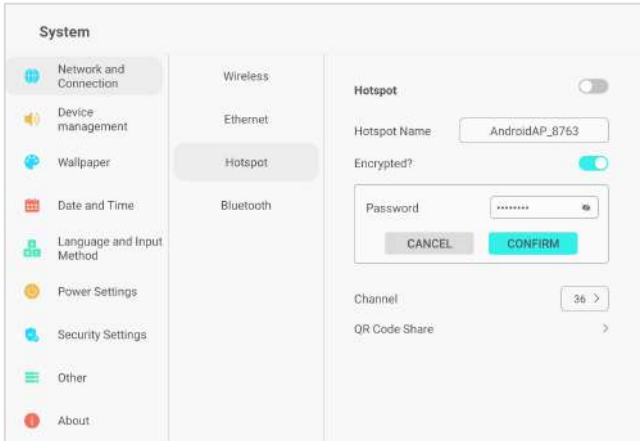


1. Use a network cable to connect the panel and a router.
2. Enable the Ethernet to entering into the **Ethernet** interface.
3. Select **Auto**, and the panel will automatically obtain an IP address and connect to the network.
4. Select **STATIC**, and users need to manually enter the MAC address and IP address to connect it to the network.

**Note:** This panel has two network interfaces, and both can be connected to the wired network (choose one of the two). If one network port is connected to a router and the other network port is connected to an external device, the Android operating system, the OPS (Windows only), and the external device form a LAN and can be connected to the network at the same time.

### 6.5.3 Hotspot

Click the  icon in the lower right corner of the home page to enter the **System** interface, click **Network and Connection > Hotspot** to set the hotspot.

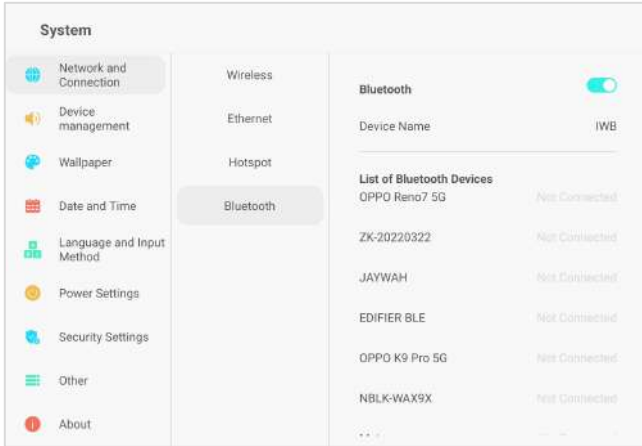


1. Turn on the **Hotspot** option. Enter the hotspot name in the textbox (defaulted name is “AndroidAP\_xxxx”).
2. Turn on the **Encrypted** option, the system will automatically generate a password, or you can enter your own password in the password box.
3. Click **CONFIRM** to save the settings, and then this network can be found by other wireless devices within the range.


### 6.5.4 Bluetooth

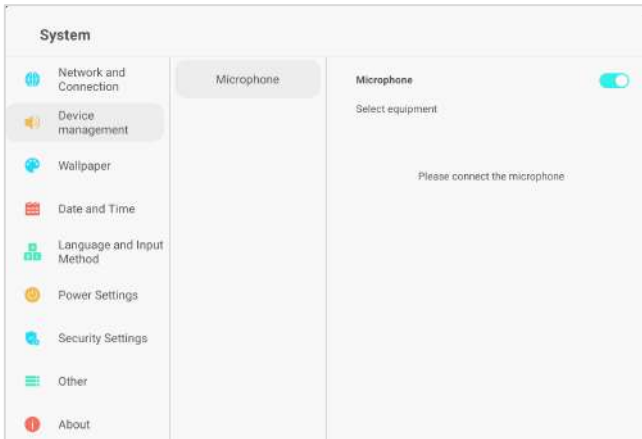
Click the  icon in the lower right corner of the home page to enter the **System** interface, click **Network and Connection > Bluetooth** to set Bluetooth.

1. Turn on the **Bluetooth** switch.
2. Choose the Bluetooth device pair to connect.




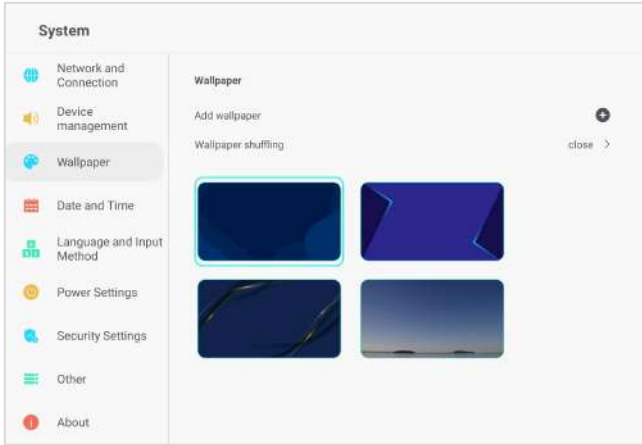
### 6.6 Device Management

Click the  icon in the lower right corner of the home page to enter the **System** interface. If users need microphone, please click **Device Management > Microphone** to connect a microphone.




### 6.7 Wallpaper

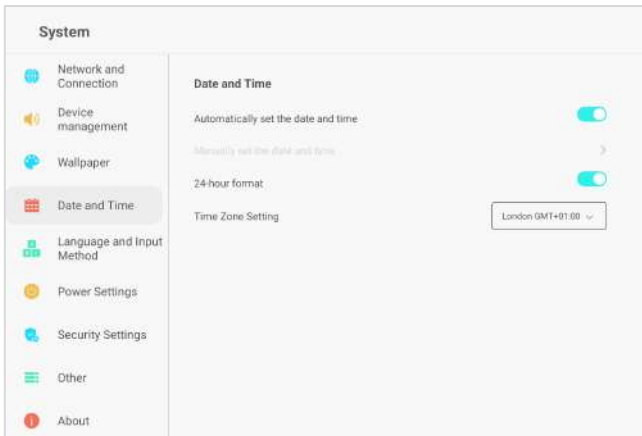
Click the  icon in the lower right corner of the home page to enter the **System** interface, click **Wallpaper** to add the wallpaper and set wallpaper shuffling.




**Note:** The format of wallpaper and lock screen wallpaper should be PNG, and the resolution should be 1920\*1080 or 3840\*2160, but the file should not be larger, so as not to import and affect the smooth operation of the system.

## 6.8 Date and Time

Click the  icon in the lower right corner of the home page to enter the **System** interface. Click **Date and Time** to set the date and time to automatically determine date and time, 24-hour format, time zone setting and date format.




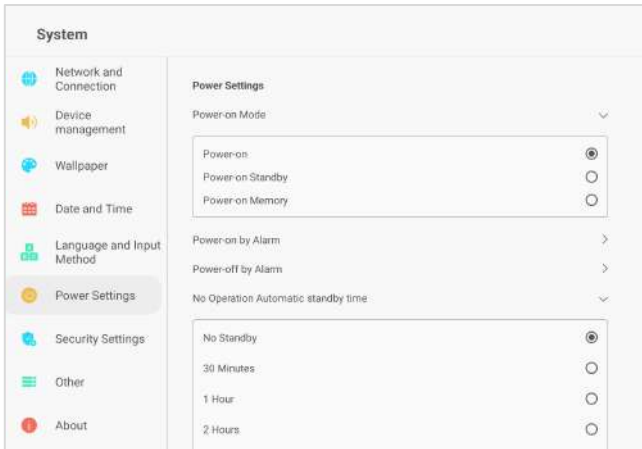
## 6.9 Language and Input Method

Click the  icon in the lower right corner of the home page to enter the **System** interface, click **Language** to set language and input method.




## 6.10 Power Settings

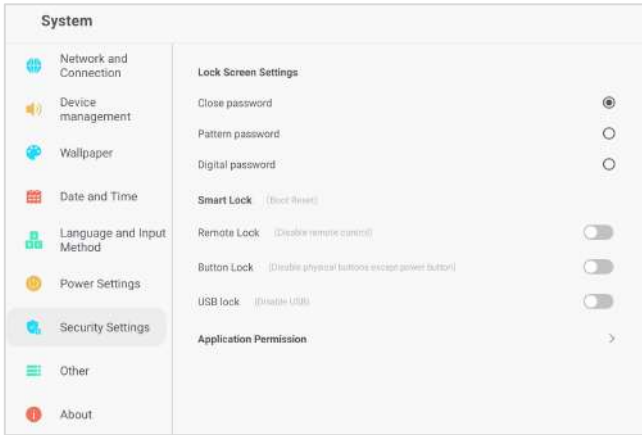
Click the  icon in the lower right corner of the home page to enter the **System** interface. Click **Power Settings** to set the power-on mode, power-on/off by alarm, auto wake up upon source connection etc.






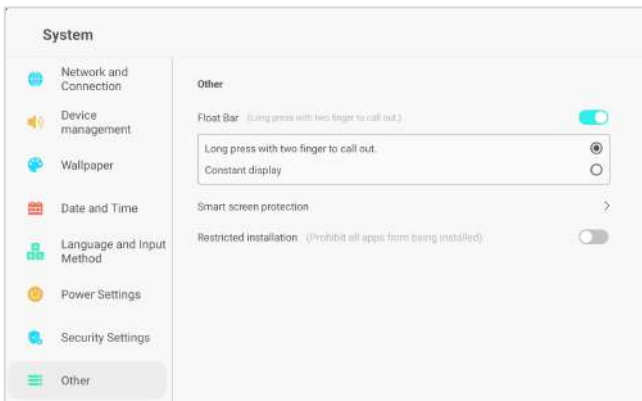
### 6.11 Security Settings

Click the  icon in the lower right corner of the home page to enter the **System** interface, click **Security Settings** to set close password, pattern password, digital password etc.




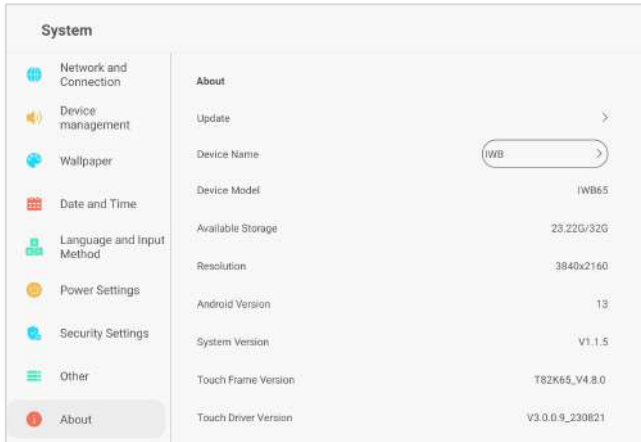
### 6.12 Other

Click the  icon in the lower right corner of the home page to enter the **System** interface, click **Other** to set the float bar (users can choose long press with two finger to call out or constant display), smart screen protection, and restricted installation.




## 6.13 About

Click the  icon in the lower right corner of the home page to enter the **System** interface, click **About** to view the relevant information about of the panel.




## 6.14 Comment

Open the sidebar, click the  icon to enter comment mode, users can use the pen to comment on the current screen.




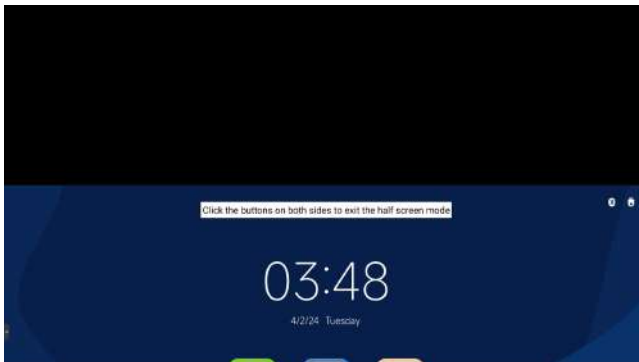
## 6.15 Utilities

Open the sidebar, click the  icon to enter the **Utilities** interface, users can use countdown day, stopwatch, eye protection, vote, calculator, vote, screenshot, screen recorder, touch lock, spotlight, touch sound, freeze and other tools. Users can also adjust sound and display brightness on this interface.




## 6.16 Screen Drop-down

Open the sidebar, click the  icon to move the screen down overall, and then click the **Up** icon on both sides to exit.



## 6.17 Background Process

Open the sidebar, click the  icon to enter the **Background Process** interface to view and manage the background running processes.



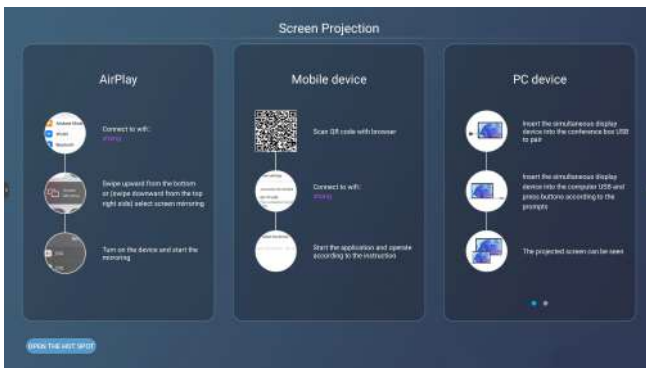
## 6.18 Share

Users can share the phone or other devices' files or screen to the panel.

Take mobile phone as an example:

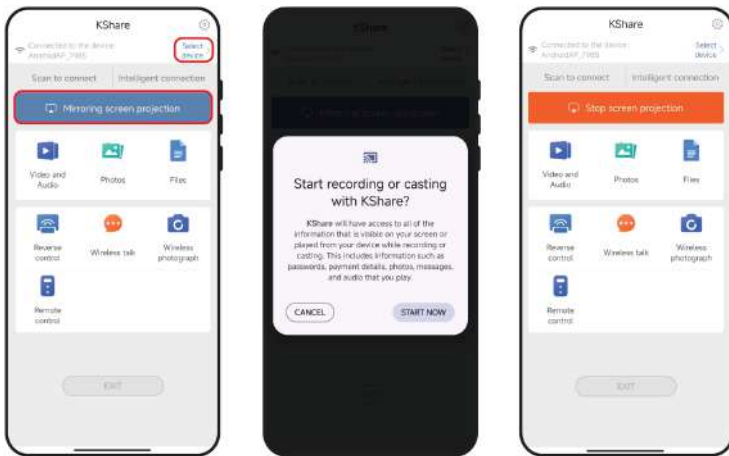
### 6.18.1 Wireless Screen Share

1. Open the sidebar, click on the  icon to view all applications, click **Screen Project** icon to enter the share interface.




- Using browser scan the download QR code to download the **KShare** APP on the phone.
- Open the **KShare** App on the phone, and ensure the panel and phone are connected to the same network.
- Click **Select device** on the phone to select the panel.
- Click **Mirroring screen projection** to mirror the screen.

**Note:** Users can also use **KShare** App to share videos, photos and files, and can remote control the panel by this App.




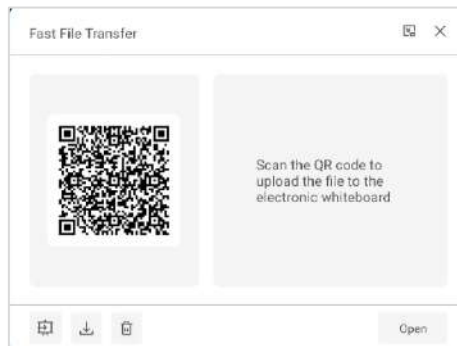
**If using IOS devices, users can mirror the screen directly.**

- Open the sidebar, click on the  icon to view all applications, click **Screen Project** icon to enter the share interface.
- Open the **Screen Mirror** on the phone, and ensure the panel and phone are connected to the same network.
- Select the panel on the phone, then the screen is shared to the panel.



### 6.18.2 Fast File Transfer

Open the sidebar, click on the  icon to view all applications, click **Fast File Transfer** icon to enter the share interface, using browser scan the QR code to upload files.

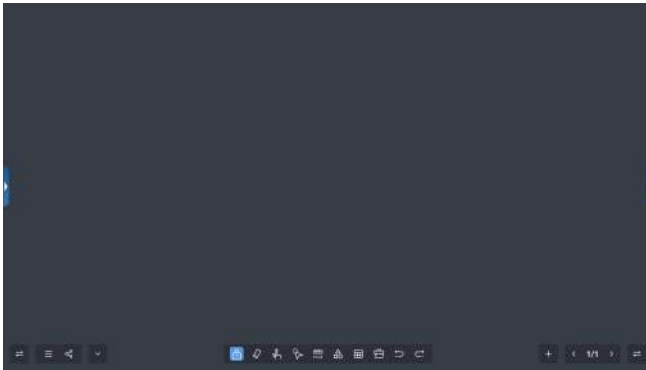


### 6.18.3 Wired Share


Users can use HDMI cable or Type-c cable (full function cable that can charge, transmit data and mirror screen) to connect other signal input devices, please refer to [3.2.4 HDMI-IN Interface](#) and [3.2.3 Type-C Interface](#).

## 6.19 Whiteboard


Click the **Whiteboard** icon on the home page to enter the write interface.




### Change:

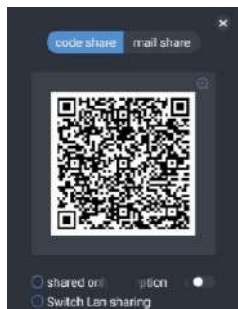
Click  to change the sidebar on left or right side.

### Menu:

Click  to see the Menu, include brush, import notes, save file, background setting and quit.

### Share:


Click  to share the note via QR code or Email.

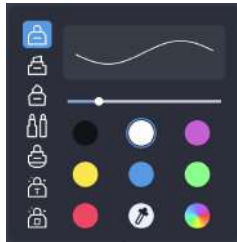


### Hide:

Click  to hide the sidebar.

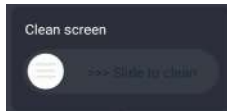
**Pen:**

Click  to set the pen.



**Eraser:**


Click  to clean.




**Point:**

Click  to switch single point or Multi-point.

**Loop selection:**


Click  to create selection.

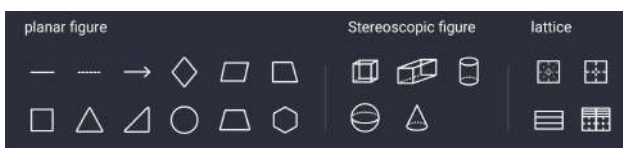
**Ruler:**

Click  to create a ruler.




**Figure:**

Click  to create a planer figure, a stereoscopic figure or a lattice template.




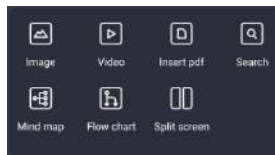



**Table:**

Click the  icon to create a table. The form automatically adjusts its width and height based on the input.

**Others:**

Click the  icon to insert image, insert video, insert PDF, search, add mind map, add flow chart or split screen.


**Revocation:**

Click  to return to previous step.



**Redo:**

Click  to redo the next step.

**Add:**

Click  to add a new page.

**Page:**

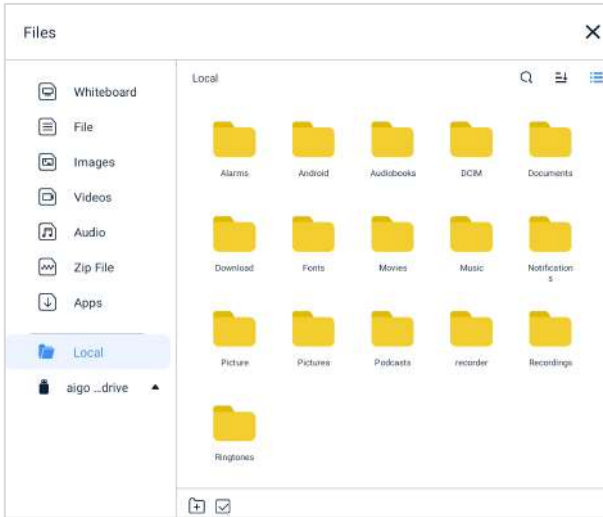
Click  or  to enter the previous page or next page.

**Preview:**

Click pagination  to preview all pages.

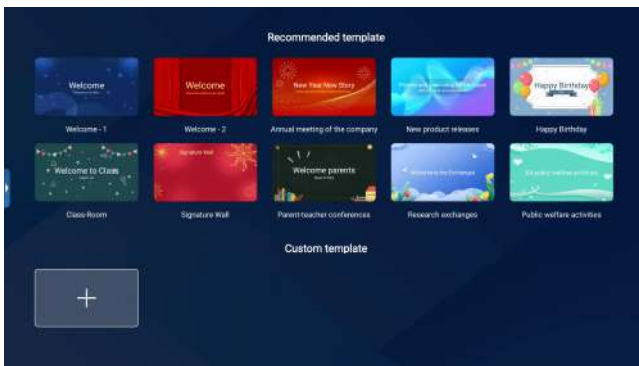
## 6.20 File Manager

Click the **File Manager** icon on the home page to enter the **Files Manager** interface. The manager supports the playing of images, videos, audio, etc. Long pressing can move, copy, and delete selected files.



## 6.21 Welcome Page





On the home page, slide right to enter the welcome page.



1. Choose a template or click + button to input a new image.
2. Edit the template and click **START SHOWING** to show the welcome page.



**Edit Button Description:**

Edit Button		Function	
Save	Save the template.		
Template	Quick switching template.		
Text	Quick switching text composition.		
Music	Insert music.		
Insert text	Insert a new text.		Enlarge the font size.
			Reduce the size.
			Bold font.
			Change font color.
Reset	Restore initial settings.		

## 7 Technical Parameters

### 7.1 HDMI Display Mode

No.	Mode	Resolution	Refresh Rate
1	SD	720*480	70Hz
2		720*576	50Hz
3		1280*720	50Hz
4		1280*720	60Hz
5	HD	1920*1080	50Hz
6		1920*1080	60Hz
7	UD	3840*2160	30Hz
8		3840*2160	60Hz

## 8 Accessories

Name	Quantity
Remote Controller	1pc
Wall Mount Instructions (Optional)	1pc
Power Cable	1pc
USB A-B Cable	1pc
HDMI Cable	1pc
Stylus	2pcs

## 9 Troubleshooting

**Note:** Before preparing to make repairs, please check the following table to see if you can find the cause of the problem you are experiencing. If the issue cannot be resolved according to the instructions, please contact the panel service center for further assistance with panel maintenance.

### 1. **The screen does not display anything, there is no sound, and the indicator light does not work.**

**Possible Cause:**

Looseness of the power plug, and power connection failure.

**Solution:**

Check if the power cord is properly connected.

### 2. **Pictures shown on the panel have dotted line or stripe interference**

**Possible Cause:**

Signal interference caused by automobile, neon light, electric hairdryer, etc.

**Solution:**

Try to find out the panels that affect your panel and then remove them from the vicinity of your panel. Alternatively, you can insert the power plug into another socket.

### 3. **Pictures shown on the PC are offset, and do not cover the entire screen, go beyond the screen, or are blurred**

**Possible Cause:**

- a) Improper adjustment.
- b) Wrong display mode.

**Solution:**

- a) Use the auto adjustment function.
- b) Enter "PC Screen Adjustment" to adjust the horizontal or vertical position.

- c) Use the recommended mode.

#### **4. Short remote-control distance, malfunction of remote control.**

##### **Possible Cause:**

- a) The remote receiver of the panel is being blocked by some other object.
- b) Battery level of the remote control is low.

##### **Solution:**

- a) Move the object to avoid blocking the remote receiver.
- b) Replace the battery.

#### **5. The panel gets stuck, crashes or cannot be operated.**

##### **Possible Cause:**

- a) Too many programs are running.
- b) Normal operation of the panel is disturbed by external environment (e.g., lightning, static electricity).

##### **Solution:**

Disconnect the panel from power supply, wait for 1-2min and reconnect power supply, then restart the panel.

#### **6. The touch is slow, it doesn't work.**

##### **Possible Cause:**

Too many programs are running.

##### **Solution:**

To resolve issues caused by a program that consumes a large amount of memory, you can try to clean up the program or restart the panel.

#### **7. OPS can't be turned on so, no display, no touch.**

##### **Possible Cause:**

OPS has not been fixed well.

**Solution:**

Reinstall the OPS computer.

**8. Touch excursion.****Possible Cause:**

Caused by the computer's coordinate system, need to do some correction.

**Solution:**

Enter the control panel to select the correction processing.

**9. Invalid touch of the external computer.****Possible Cause:**

- a) The signal source is inconsistent with the corresponding interface of the touch USB cable.
- b) The touch USB cable is way too long or of low quality.

**Solution:**

- a) Check and change the corresponding interface of the touch USB cable.
- b) Change another shorter or better-quality touch USB cable.

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