

IQTouch

HA1100 Pro

—User Manual—








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Safety Instruction

For your safety, please read the following instruction before you use the device. Serious injury or property damage may be caused by improper operations. Do not try to repair the device by your own.

 WARNING	
	<p>Disconnect the machine from power supply immediately if any major failures occur.</p> <p>Major failures include the following:</p> <ul style="list-style-type: none"> • Smoke, peculiar smell or abnormal sound is discharged from the device. • No image or sound is displayed, or the image error occurs. • Where the main plug or an appliance coupler is used as the disconnect device the disconnect device shall remain readily operable. <p>In the preceding scenarios, do not continue to use the machine. Disconnect power supply immediately and contact professional staff for troubleshooting.</p>
	<p>Do not drop liquid, metal or anything combustible onto the machine.</p> <ul style="list-style-type: none"> • If any liquid or metal is dropped into the machine, power off the machine and disconnect power supply, then contact professional staff for solutions. • Pay attention to children when they are close to the machine.
	<p>Put the machine on a stable surface.</p> <p>An unstable surface includes and does not limit to an inclined plane, a shaky stand, desk or platform, which might cause turnover and damage.</p>
	<p>Do not open the cover or change the machine on your own.</p> <p>High voltage components are installed in the machine. When you open the cover, high voltage, electric shock, or other dangerous situations may occur.</p>

	<p>If inspection, adjustment, or maintenance is required, contact the local distributor for help.</p>
	<p>Use the specified power supply.</p> <ul style="list-style-type: none"> • To prevent the machine from being damaged, do not use any cables other than the one provided with the machine. • Use a three-wire socket and ensure that it is properly grounded. • Pull out the power plug from the socket if the machine is not used for a long period.
	<p>Clean the power plug regularly.</p> <ul style="list-style-type: none"> • Continued use of this machine may cause fire or electric shock if the plug is not clean for a long time. • Pull out the power plug before cleaning it with a dried cloth
	<p>Power output port is 5V/2A</p>
	<p>Do not put items on the top of the machine.</p> <ul style="list-style-type: none"> • Do not put items, such as a container for liquid (a vase, flowerpot, cosmetics, or liquid medicine) on the top of the machine. • If any liquid such as water is spilled on the machine, the machine may short circuit and cause fire or electric shock. • Do not walk on or hang any items on the machine.
	<p>Do not install the machine in an improper place</p> <ul style="list-style-type: none"> • Do not install the machine in humid places, such as the bathroom, the shower room, near windows, or outdoor environments that experience rain, snow, or other harsh weather. Avoid installation near hot spring vapor. The preceding environments may cause faults in the machine or electric shock under extreme conditions.

	<ul style="list-style-type: none"> • Do not put an exposed fire source, such as a lit candle, on the machine.
	<p>Pull out the power supply during thunderstorms.</p> <ul style="list-style-type: none"> • Do not touch the machine during a lighting storm, you may experience an electric shock. • Install or place components that supply high enough voltage to cause personal injury out of the reach of children.
	<p>Do not touch the power cable with wet hands.</p>
 CAUTION	
	<p>Do not install the machine in high temperature environments.</p> <ul style="list-style-type: none"> • Do not install the machine near a heat source, such as a radiator, a heat reservoir, a stove, or other heating machines. • Do not expose the machine to direct sunlight, which may cause high temperatures and subsequent faults in the machine.
	<p>When transporting the machine:</p> <ul style="list-style-type: none"> • Pack the machine for transport or maintenance by using the cartons and cushioning material provided with the machine. • Move the machine vertically during transport. The screen or other components are easily broken if the machine is moved in an improper way. • Before you move the machine, disconnect all external connections. Move the machine carefully to prevent it from being hit or squeezed, especially the screen, which may cause injury if broken
	<p>Do not cover or block up any vents on the machine.</p> <ul style="list-style-type: none"> • Any overheated components may cause fire, damage the machine, and shorten the service life.

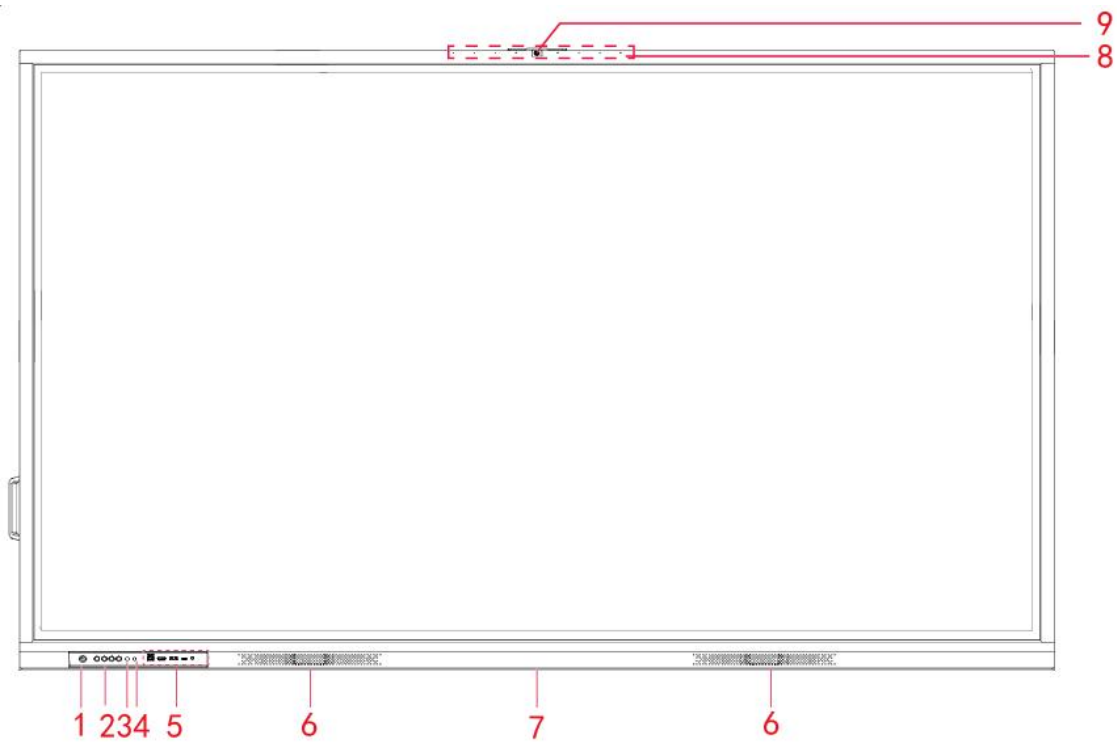
	<ul style="list-style-type: none"> • Do not lay the machine down in a way where the venting surface will be covered. • Do not install the machine on carpet or cloth. • Do not use a cloth, such as table cloth, to cover the machine
	<p>Keep the machine away from the radio.</p> <p>The machine complies with the international EMI standard to prevent radio interference. However, interference may still exist and causes noise in the radio. If noise occurs in the radio, try the following solutions.</p> <ul style="list-style-type: none"> • Adjust the direction of the radio antenna to avoid the interference from the machine. • Keep the radio away from the machine.
	<p>Do not damage the power cable.</p> <ul style="list-style-type: none"> • Do not damage, change, twist, bend, or forcibly drag the power cable. • Do not put weights (such as the machine itself) on the power cable. • Do not forcibly drag the cable when you pull out the power plug. If the power cable is damaged, please contact the local distributor to repair or replace it. • The power cable in the accessory box is for this machine only, do not use it on other machines.
	<p>Use the battery correctly.</p> <ul style="list-style-type: none"> • Galvanic corrosion, electric leakage, and even fire may be caused by improper battery usage. • It is recommended to use the designated type of battery and install the battery by the correct electrodes (positive and negative). • Do not install and use a new battery with a used one. • Take out the battery if the remote control is not used for a long period.

	<ul style="list-style-type: none"> • Do not expose the battery to overheated environments, such as sunlight or heat sources. • Dispose of the used battery based on your local regulations.
	<p>Additional advice:</p> <ul style="list-style-type: none"> • Use the machine in an environment with comfortable lighting. It is harmful to your eyes to watch in a too bright or too dark environment. • Relax your eyes watching for a period of time. • Keep sufficient distance from the machine to protect your eyes and prevent eyestrain. • Adjust the volume to an appropriate level, especially at night. • Use amplifier equipment as the audio input source with caution. If you must use amplifier equipment, the input power should not exceed the maximum of speaker power. Otherwise, the speaker can become overpowered and damaged.
	<p>special remarks:</p> <ul style="list-style-type: none"> • The machine can only achieve zero energy consumption when no external input power supply is connected. Therefore, it is recommended to turn off the device when not using to reduce energy consumption. • On the premise of ensuring the viewing quality, energy consumption can be reduced by reducing the brightness of the display. • This machine can be used with all kinds of built-in computers, which can be upgraded or replaced according to your needs.

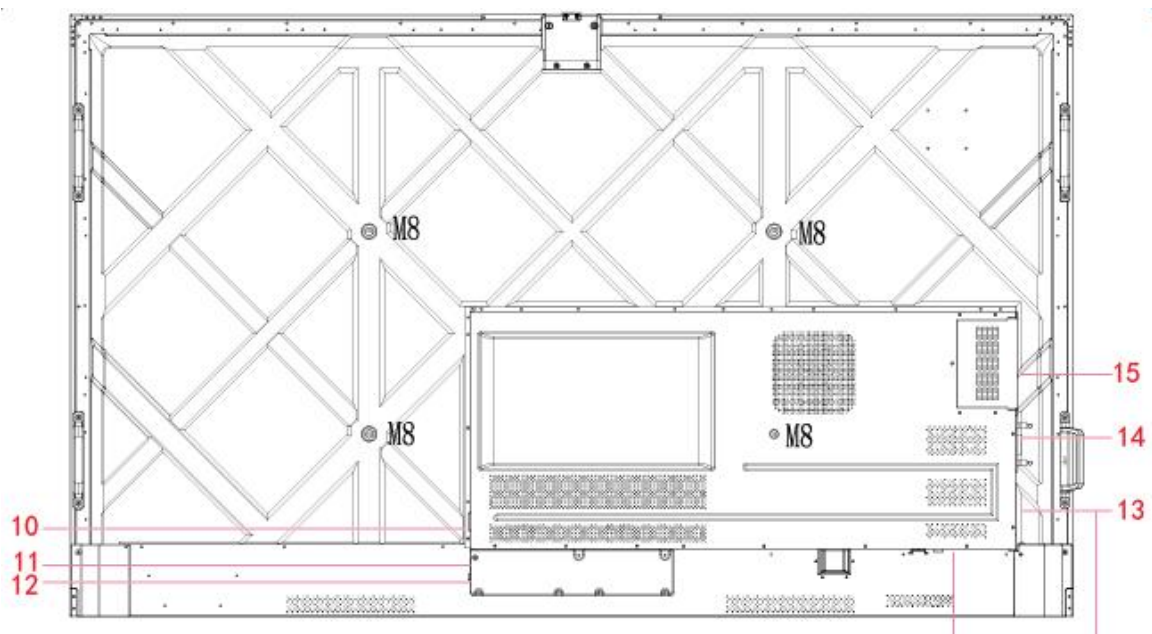
1. Product Overview

1.1 Appearance Introduction

Front View



Rear View



1	Power On/Off	9	Top camera
2	Front Buttons	10	Power Output Plug
3	Remote Control Receiver	11	Power Supply Plug
4	Light Sensor	12	Power Switch
5	Front Ports	13	Rear Ports
6	Speakers	14	Wi-Fi Module
7	Bottom camera	15	OPS Port
8	Microphone		

1.2 Ports

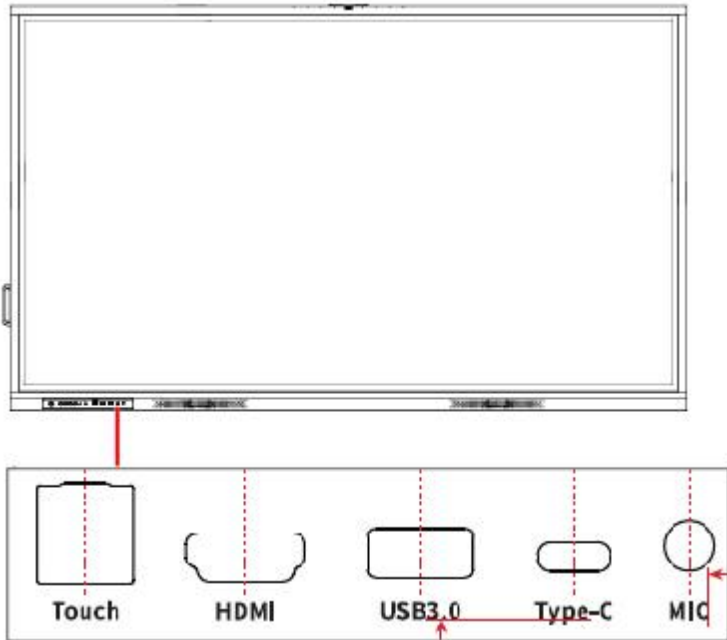


CAUTION

- *Front USB ports and rear USB 3.0/USB 2.0 ports switch connections based on signal sources. If the current signal source is reading the data from an external product connecting to the port, please switch the signal source after the data reading is complete. Otherwise, the data or product may be damaged.*
- *For USB use, USB 2.0 provides up to 500Ma whereas USB 3.0 provides up to 900Ma of power. Please make sure the USB flash drive is formatted to FAT32 before inserting into the panel.*
- *Please use the supplied cable in the accessory box or the HDMI association certified shielded cable to better ensure the signal quality.*
- *While HDMI and Display Port offer support for cables of varying lengths, the maximum cable length that the panel recommends for optimal performance is 3 meters (10 feet) for HDMI and 1.8 meters (around 6 feet) for Display Port. Using cable longer than recommended length may cause data loss*

and a negative impact to display quality.

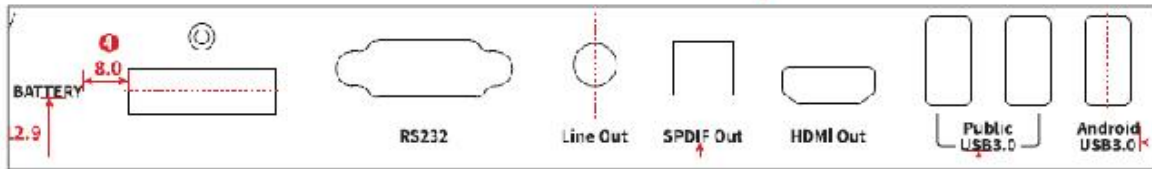
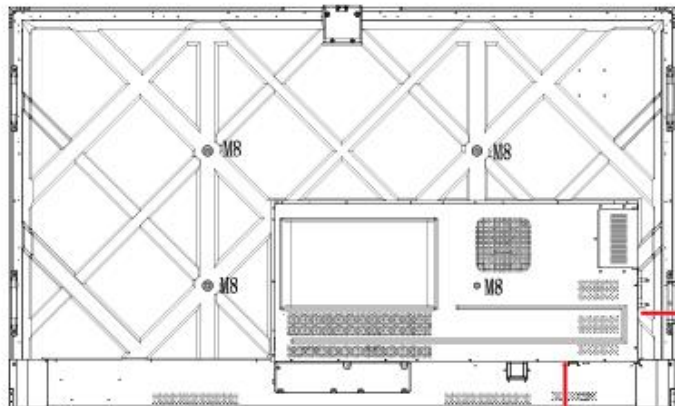
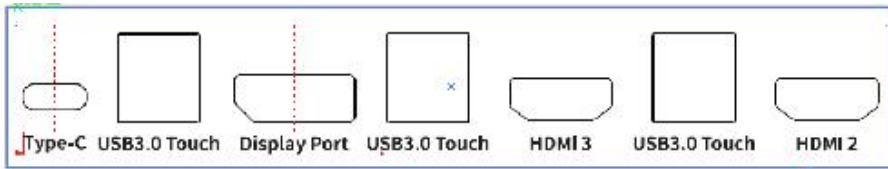
- **Front Ports**



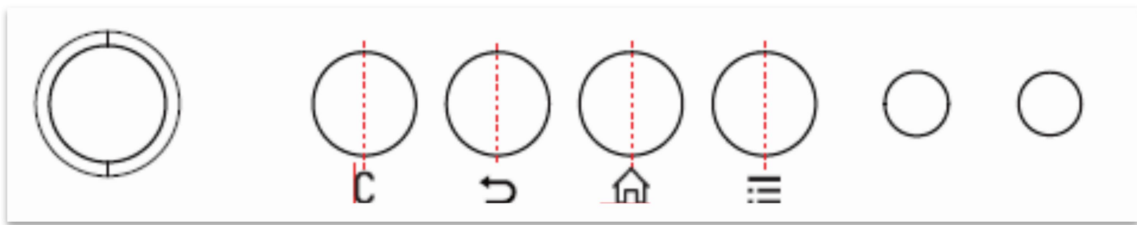
WARNING

The rear power output port is supplies 5 V/2 A (maximum) power. Please purchase the power AC adapter for powering external devices. Please do not connect any products which require power than listed. Doing so may cause injury or damage to the panel.






- **Rear Ports**







1.3 Front Buttons



Buttons	Operations	Functions
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	Short press	Power on • Solid white color : Display is on and working
		Sleep mode • The red and white lights flicker alternately: Display enter Sleep mode.
	Long press for more than 2 seconds	Power off • Solid red color : Display is in shut down mode
	Short press	Back to the previous menu.
	Short press	Enter the customization page. Note: C function can be set in Settings> input/output setting.
	Short press	Go to the home page
	Short press	Open the Quick Setting menu
	Long press for 5 seconds	Activate/Exit the child Lock Function

Buttons	Functions
	Turn on/off
PC	Switch to the OPS computer source
	Mute or unmute
	Freeze the Current Screen, press again to Exit Freeze Function
	Up/Down/Left/Right selection button

1.4 Remote Control



OK	Confirmation button
	Press once to return to the previous page
	Return to homepage
	Take a Screenshot
	Decrease the volume
	Increase the volume
	Enter the Settings page
Brightness Down	Decrease the brightness
Brightness Up	Increase the brightness
Note	Enter the whiteboard application
HDMI Front	Switch to HDMI Front source
HDMI Rear 1	Switch to HDMI Rear 1 source
HDMI Rear 2	Switch to HDMI Rear 2 source
Sound Only	Enable Sound Only Mode
Menu	Open the External Source Menu
DP	Switch to DP source
Type-C(Front)	Switch to Type C Front source
Type-C(Rear)	Switch to Type C Rear source

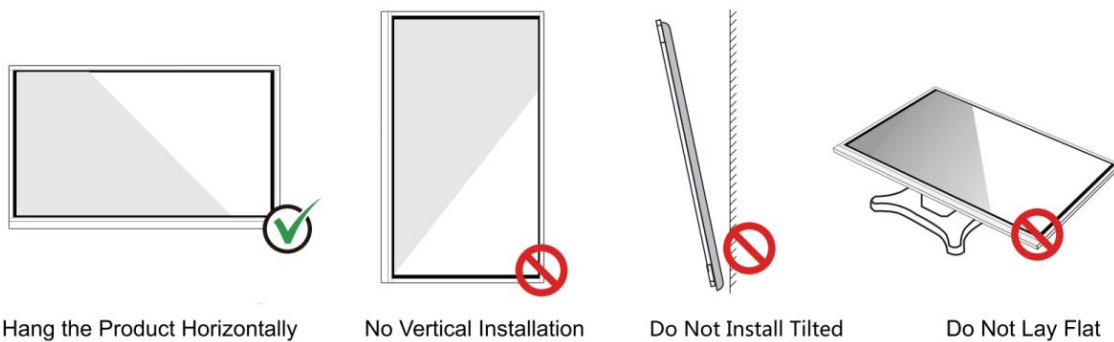
2.Installation

2.1 Safety Precautions

Installation Environment



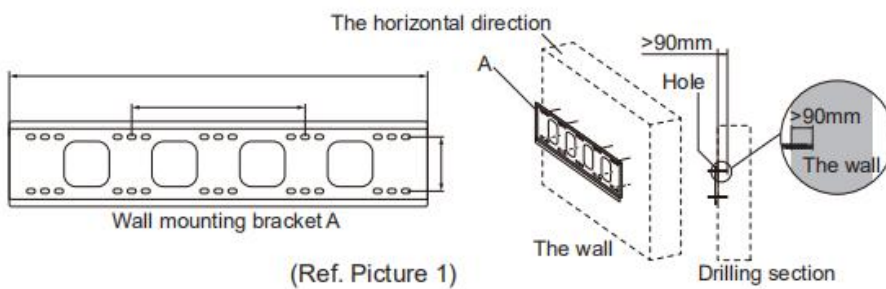
Installation Direction



2.2 Installation Step

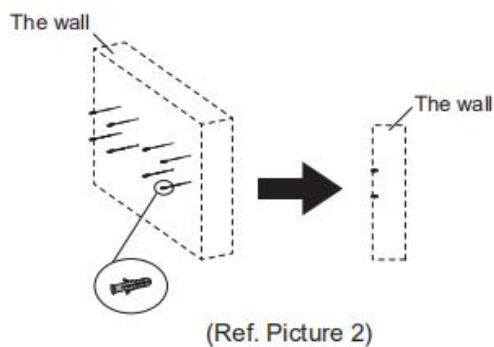
Step1: Punching holes in the wall

Mark 8 holes location on the wall according to wall mounting bracket A and use the drill bit to drill the 8 holes. Depth of holes should not be less than 90mm (Ref. Picture 1)



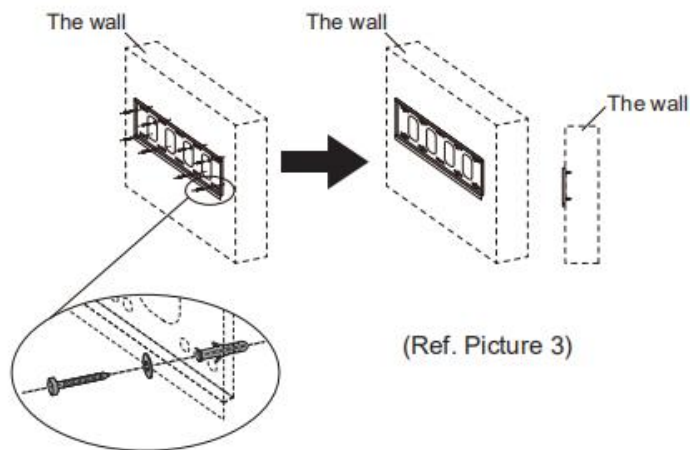
Step2: Expansion bolt installation

Press the wall anchors into 8 holes. (Ref. Picture 2)



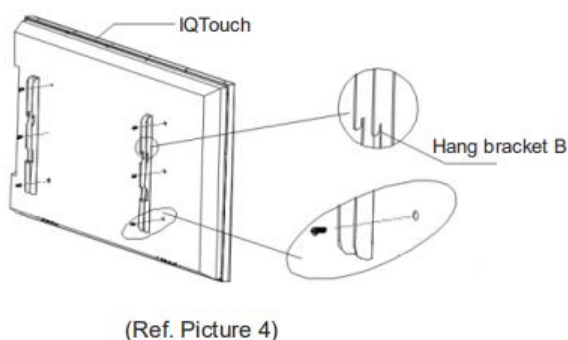
Step3: Wall mounting bracket A installation

Install the wall mounting bracket A with 8pcs screws and gaskets. Please ensure that the wall mounting bracket A is installed horizontally. (Ref. Picture3)



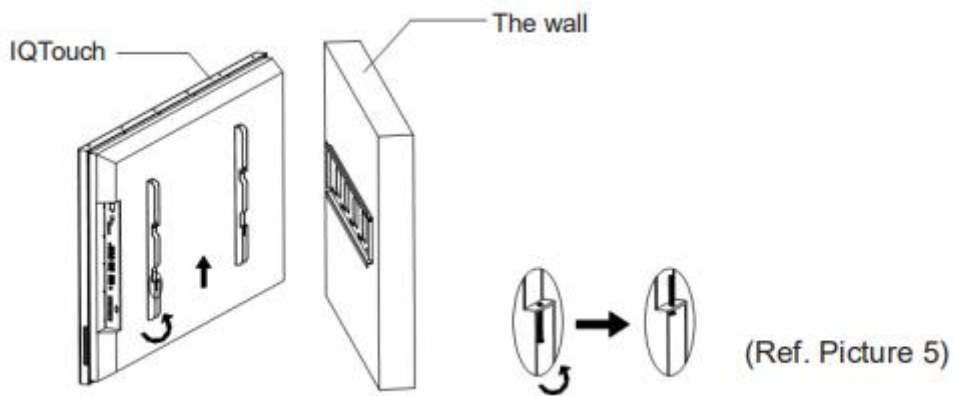
Step4: Install the left& right hang bracket B to IQTouch.

Use screws fix the hang bracket B at the back of IQTouch. Please check the direction of hang bracket B before installation. (Ref. Picture 4)



Step5: Hang IQTouch on the wall mounting bracket A

Hanging the hang bracket B on the left and right on to the wall mounting bracket A, please ensure two hang brackets B completely hanged onto wall mounting bracket A, then tighten the screws of hang bracket B to prevent it slide. (See Ref. Picture5)



Note: The picture here is for your reference only .

2.3 Weight Loading

Net weight of the machine(65",75",86"): 40kg(±2kg), 50kg(±2kg), 61kg(±2kg).

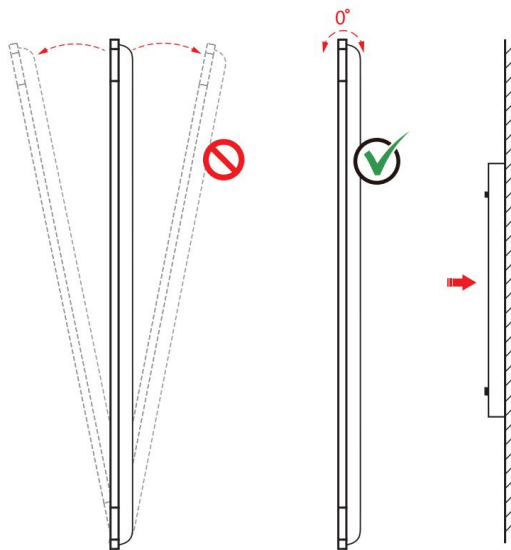
- When using a mobile stand, ensure that the weight of the machine is less than the loading capacity of the mobile stand.
- When using the wall-mount bracket, ensure that the wall can support the weight of the machine. We recommend that the wall surface be reinforced and have a loading capacity 4 times of the weight of the machine. Consult a professional installer for wall-mount installation.

Note:

- The company does not undertake relevant legal responsibility for any problems caused by improper operation if the third party mobile stand, or wall-mount bracket is beyond the scope of the machine.
- Do not install the machine where it might be hit by an opening or closing door.

Vertical Installation

When installing, try to keep the machine vertical. The vertical tilt range allowed for wall-mount installation is ± 3 degrees. An excessive tilt angle may cause the screen glass to fall off or the machine to collapse.

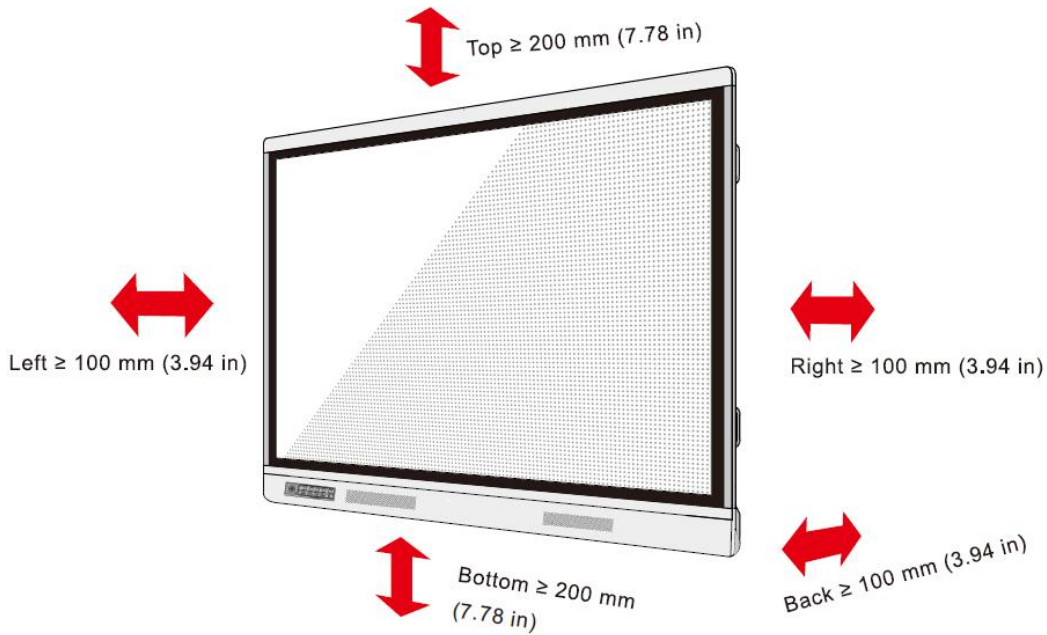


Note:

- In case of broken glass, all personnel must stand 3 meters away from the machine to ensure safety.
- Do not install or disassemble the machine if the glass is broken.
- For any problem, please contact our support desk. Returnstar is not responsible for any damage or losses incurred by users if the user fails to follow the instructions.

Ventilation

Ensure adequate ventilation and/or an air conditioned environment. We recommend keeping certain distances from the side of the product to the wall or panels. Ventilation requirements are shown in following figure:



2.4 OPS Installation



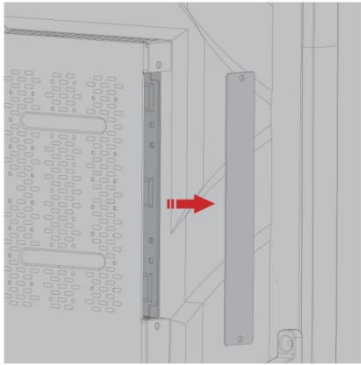
The built-in computer does not support hot plugging. Therefore, you must insert or remove the built-in computer when the display is powered off. Otherwise, the display or built-in computer may be damaged.

Perform the following steps to install the built-in computer:

Step1

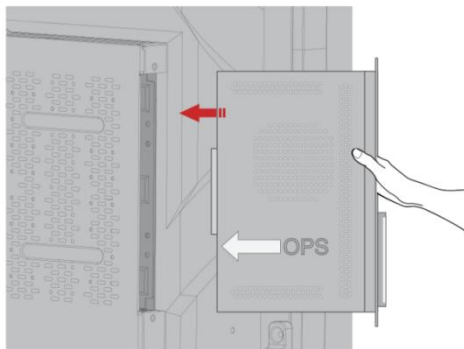
Unscrew the screws by hand to remove OPS shielding cover.

Note: This step is optional and applies to models with shielding cover.



Step2

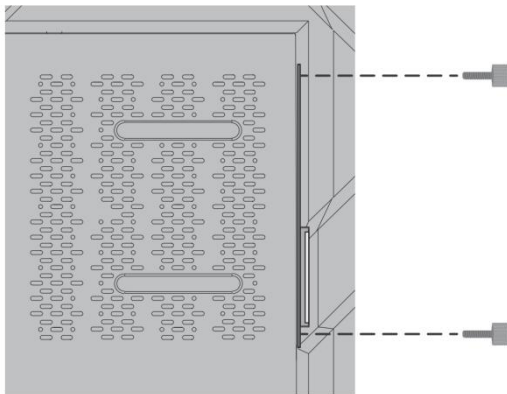
Push OPS into the port at the rear of the machine from right to left.



Step3

Secure OPS to the machine by using the screws.

Note: If the screen fuzzes, flashes or no signal is received from OPS channel after turning on the power, it means that OPS has not been properly installed. Please check it and re-install.



2.5 Installing the Wi-Fi Module

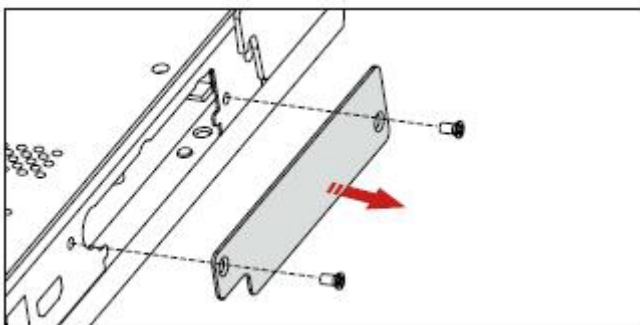


Wi-Fi Module *does not support hot plugging. Therefore, you must insert or remove the Wi-Fi Module when the display is powered off. Otherwise, the display or Wi-Fi Module may be damaged.*

Perform the following steps to install the Wi-Fi Module.

Step 1:

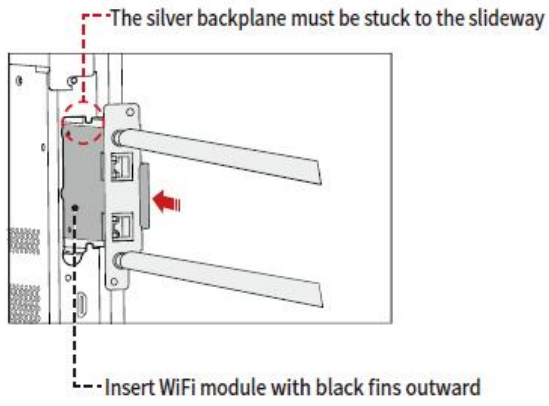
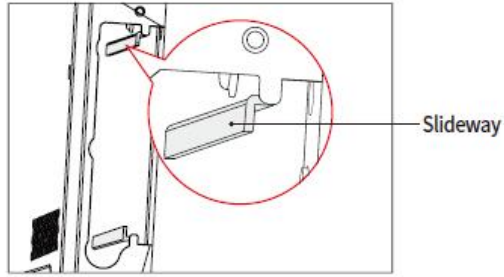
Unscrew the 2 screws on the Wi-Fi Module port and remove the shielding cover.



Step 2:

Insert the Wi-Fi Module into the port on the rear of the panel until firmly seated, using the 2 screws

to secure it.



3. Getting Started

3.1 Power On

Step 1:

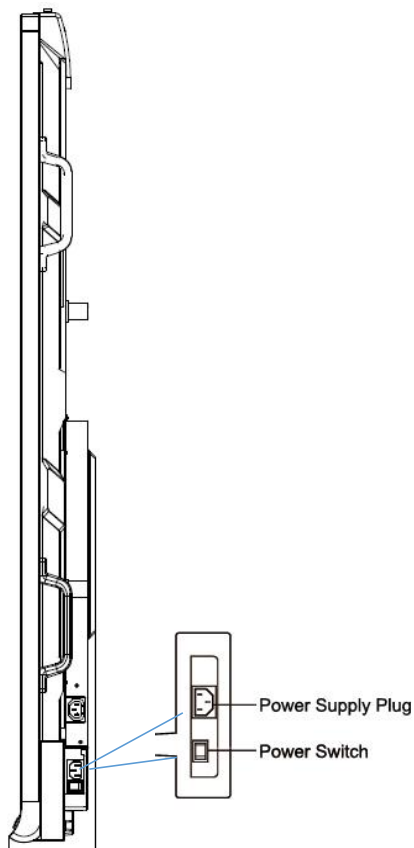
Ensure the power cable is fully seated into the panel and wall outlet before powering on the panel. Please confirm your wall outlet supports a power range of 100V to 240V with frequency at 50 Hz/60 Hz \pm 5% and is fully grounded.

NOTE



The power outlet should be installed near the equipment and should be easily accessible.

Step 2:



Flip the power switch located on the side of the product to “I”.





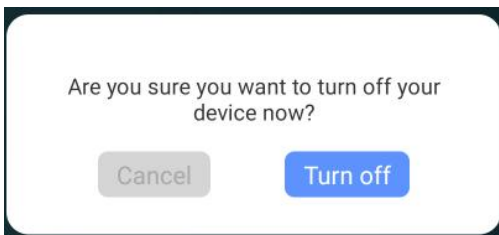
Step 3:

Press the power button  on the front control panel or  on the remote control.

3.2 Power Off

Step 1: Press the power button  on the front panel or the power button  on the remote control to enter sleep mode.

Step 2: Long press the power button  on the front panel or the power button  on the remote control, The **Warning** dialog box will be displayed as shown in the following figure.



Step 3: In the **Warning** dialog box, tap **Cancel** to return to working mode. Tap **Turn off** to turn off the panel, and the power indicator will turn to red.

Step 4: If you want to completely turn off the product, turn off the rocker switch behind the panel (next to the power socket) and unplug the power cord.

NOTE

If an OPS is installed, the OPS and the screen will simultaneously powered off when the power is turned off.

- Please properly shut down the panel before disconnecting the power source or it may cause damage. Accidental power failure may cause damage to the panel.
- Do not repeatedly turn the power on & off in a short period of time as it may cause malfunction.

3.3 Calibration

If the cursor position has a big deviation from the actual touch point, calibration is used to eliminate the deviation. Calibration is required in the following scenarios:

- The OPS is used.
- A computer is connected through the HDMI or Display Port interface.

NOTE

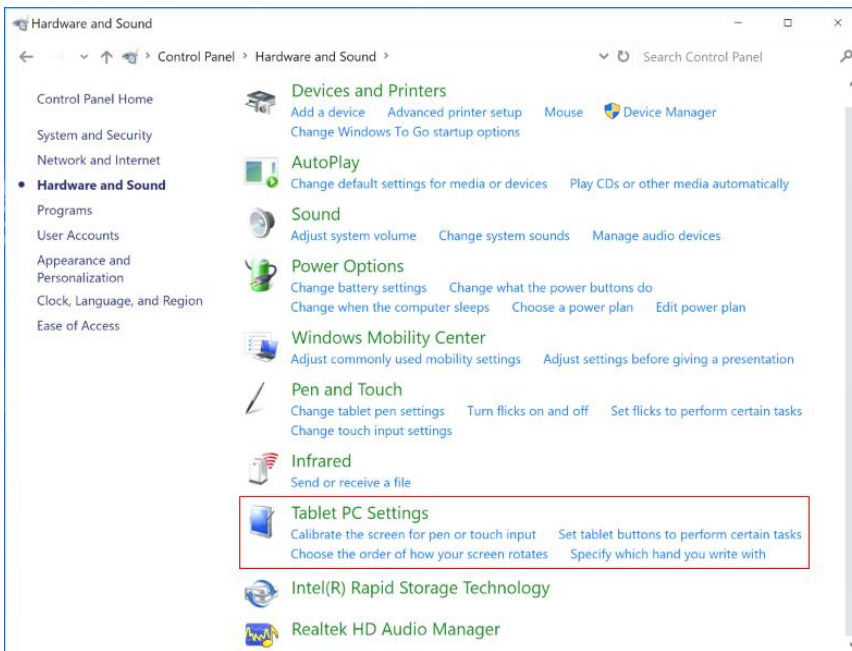
Interface operation on the embedded operating system does not need positioning. External products with Microsoft Windows 7 or higher versions will require positioning.

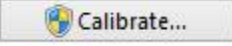
If the positioning is not correct, perform the following operations to calibrate again. The following takes Windows 10 as an example:

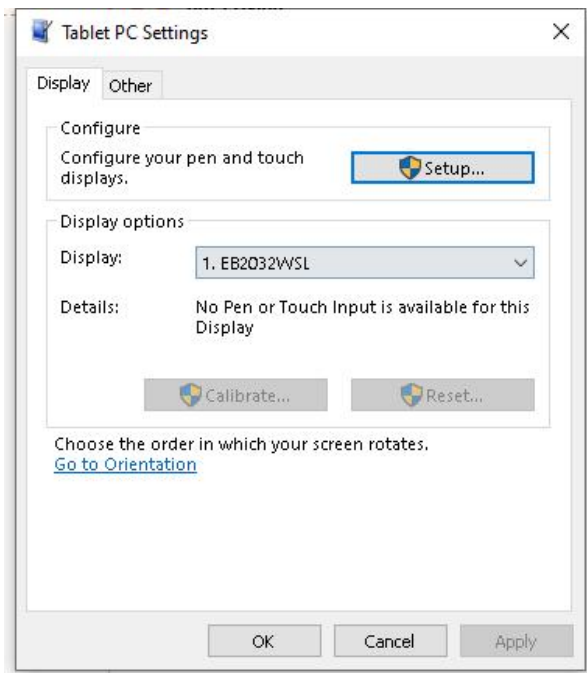
Step 1: Ensure that the HDMI or DP interface and external products are connected properly.

Step 2: Select the corresponding Windows signal from the signal source menu. The Windows page will be displayed.



Step 3: Select **Tablet PC Settings** on the **Control Panel** page.

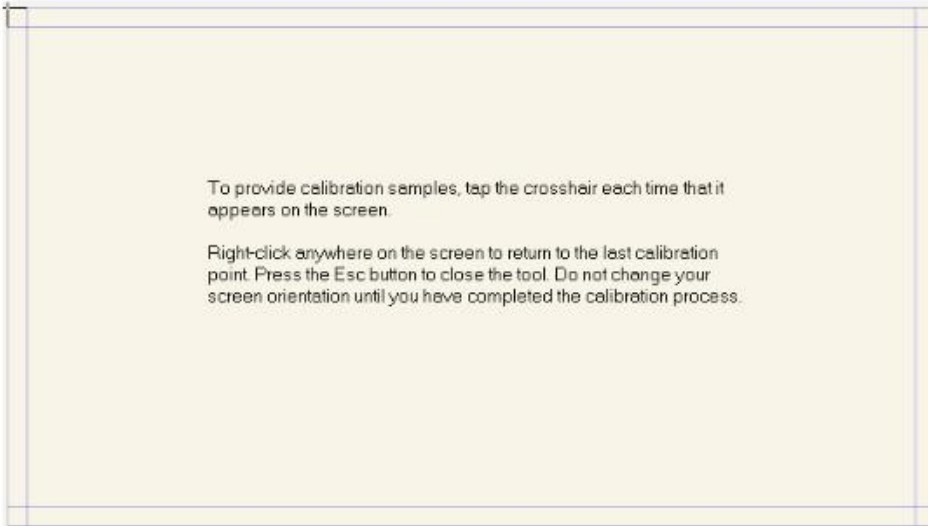


Step 4: Select  in the Tablet PC Settings window.

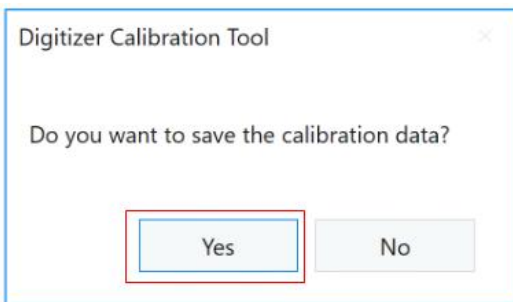


Step 5: Select **Touch input** from the option and start calibration.

Step 6: Use your finger or a pencil to click and hold the center of the flickering cross . Do not release until  moves to the next positioning point. Complete the calibration process as instructed.



Step 7: After the calibration is complete, the **Digitizer Calibration Tool** dialog box will be displayed. Click **Yes** to save calibration data.



TIP

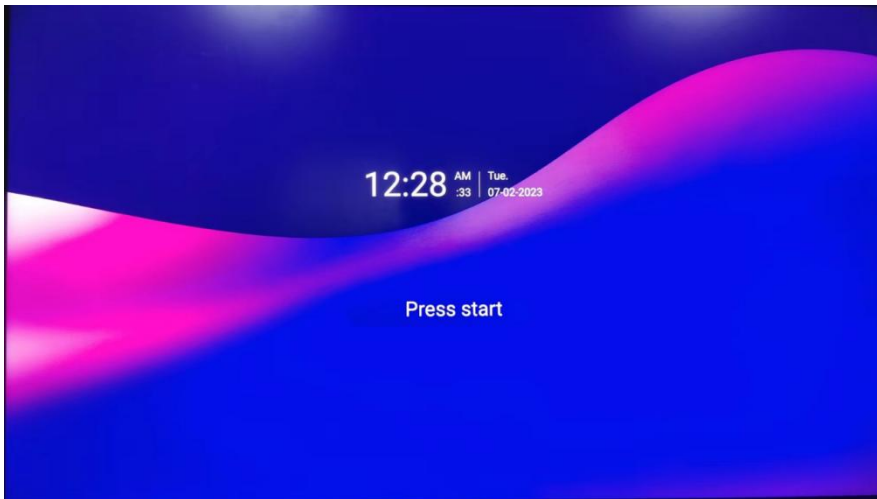
- To ensure writing accuracy, use the pencil or stylus included with the product for proper positioning.
- Positioning errors may cause failure of touch functions of the display. In that case, please perform calibration again.

Step 8: The **Tablet PC Settings** dialog box will be displayed again. Tap **OK**. The calibration will be complete.

4.IQ OS

4.1 Start Screen

When the panel is turned on, the panel will show the Start Screen page, as shown in the following figure.

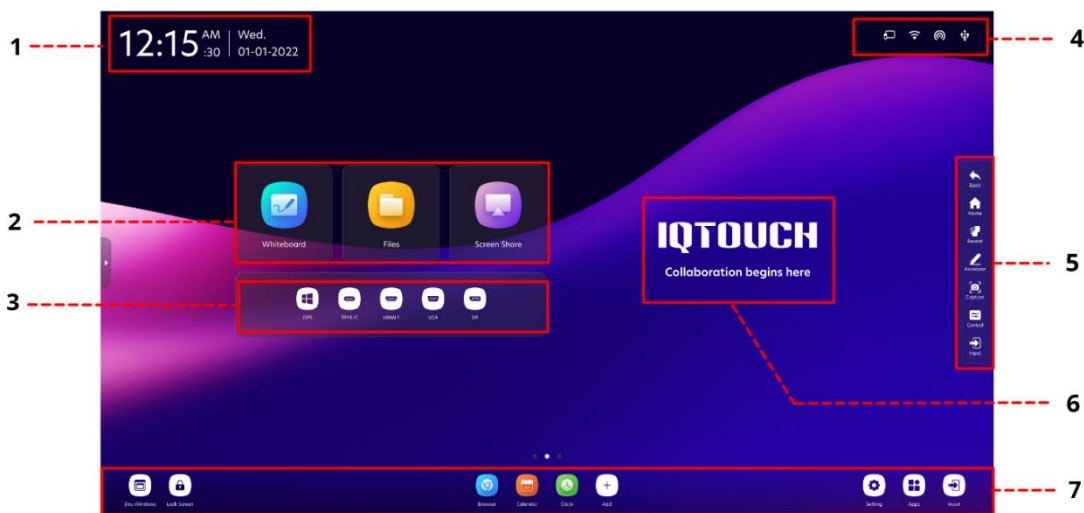


Notes:

If Passkey lock function is on, every time you boot up the panel, system will request the passkey.

4.2 Home




Touch the screen to enter the Home page. See the picture below:





1	Time and date	5	Sidebar
2	Main APPs	6	Note
3	Input sources	7	Bottom Bar
4	Status Bar	8	Floating Menu

Main APPs

Icons	Functions
	Tap to enter the whiteboard
	Tap to enter the files
	Tap to enter EShare






Input sources

OPS is fixed to display on touch screen. If the OPS has a signal, the OPS icon will light up. Tap the icon to enter the OPS channel. If the touch screen has no OPS, "No Signal" will be displayed.


Other input sources include: Type C Rear, HDMI 2, HDMI 1, DisplayPort, HDMI Front, and Type C Front. The icon will be displayed in this Input area after its source is connected. Click the icon to enter the corresponding channel.








Status Bar

The upper right corner of the home page shows working status icons, including: U disk, Ethernet, Wi-Fi and hotspot.

Icons	Functions
	If the product is connected to Ethernet, the icon will be displayed. Tap the icon to enter the corresponding setting menu.
	If the product is connected to Wi-Fi, the icon will be displayed. Tap the icon to enter the corresponding setting menu.
	This icon will be displayed when touch screen is connected to hotspot. Click the icon to enter its setting.
	If USB flash memory(s) is connected to the USB port, this icon will be displayed. Tap the icon to enter File Commander.  NOTE If the files cannot be saved to a USB flash memory successfully, use a USB flash memory less than 16 GB and change the file system into FAT 32 format.

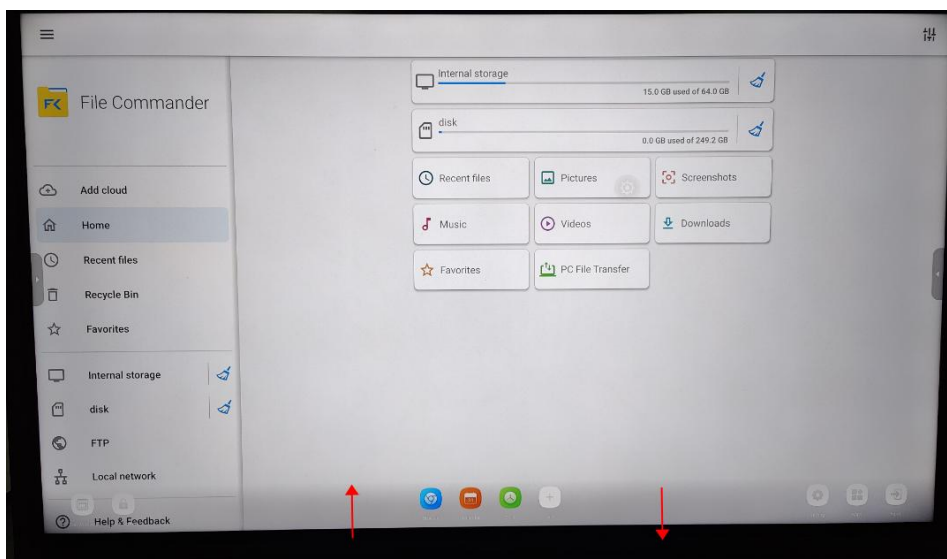
Sidebar







 You can tap on the left and right sides to expand the sidebar under any channel. And tap anywhere on the screen to hide it.

Icons	Functions
	Tap to back to the previous step or exit from current program.
	Tap to exit from current program or source to the Home page.
	Tap to enter the [Recent] page
	Tap to enter the annotation mode.
	Tap to enter the screenshot
	Tap to open 【Quick Setting】
	Tap to expand the list of all input signal channels

Bottom Bar

The bottom bar is displayed by default on the homepage. For the pages of any channel and app, pull up to show the bottom bar and pull down to hide it. As shown below:

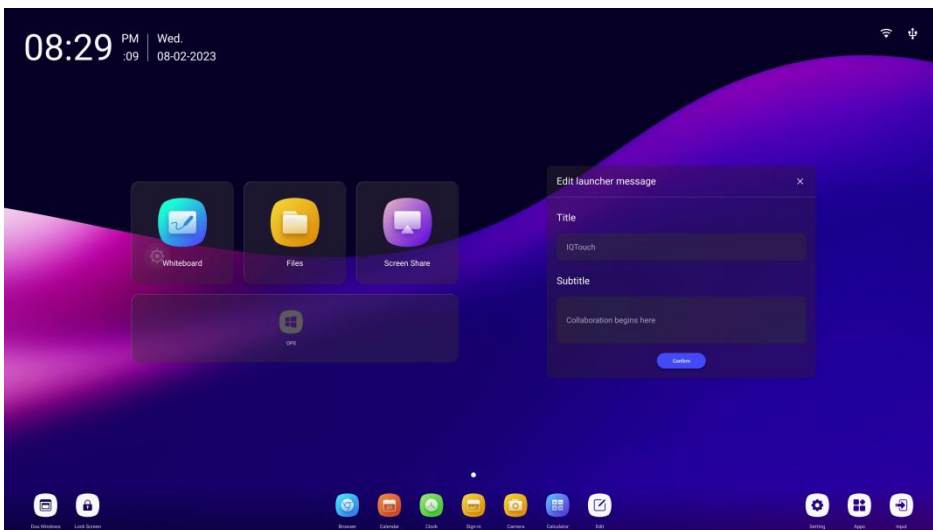


Icons	Functions
	Tap to show all apps that support multi-window
	Tap to lock screen
	Tap to enter the settings
	Tap to enter the [Applications] page
	Tap to show all input channels
	Quick application bar. Tap the icon to enter the corresponding APP. Tap “Add/Edit” icon to adjust the Apps to be displayed, up to 6 Apps can be added.



Note











Tap the note to edit the title and subtitle



Floating Menu

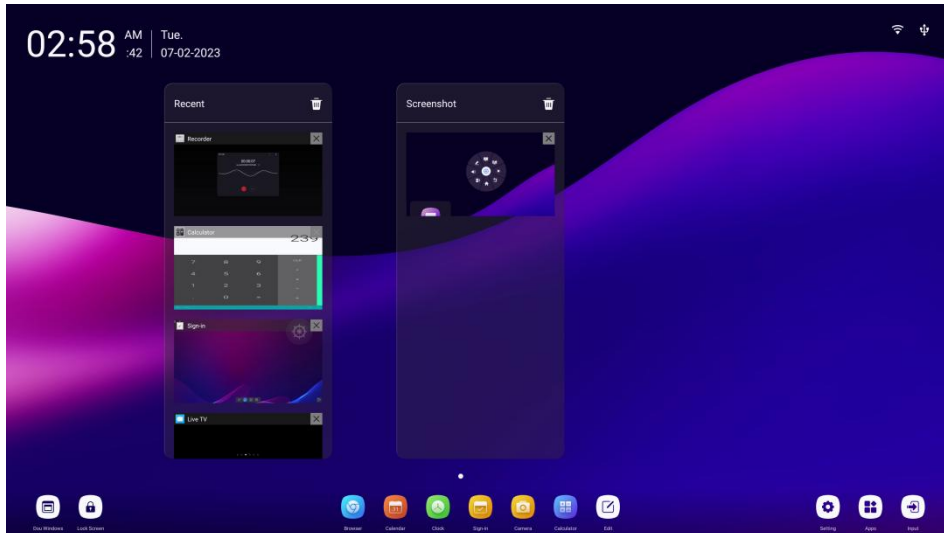
Pressing anywhere of the screen with 2 fingers for longer than 2 seconds, the floating toolbar will appear by your fingers. You can move the floating toolbar by press on its center . After 5 seconds without operation of the toolbar, it gradually becomes translucent. Tap the toolbar or press any part of the screen with 2 fingers for longer than 2 seconds again and you may bring it back.

The functions of the floating toolbar are as follows:

Icons	Functions
	Tap to enter the internal PC source.
	Tap to enter the annotation mode.
	Tap to enter the whiteboard.
	Tap to exit from current program or source to the Home page.
	Tap to back to the previous step or exit from current program.
	Tap to enter managing currently running applications. Tap "×" at the upper right corner to close the application, tap  to clear all applications.
	Tap to expand the sidebar to adjust the volume.
	Tap to expand the sidebar to adjust the brightness.
	Tap to expand or hide the toolbar.

4.3 Recent

Right slide the homepage to enter the Recent page. It shows the currently running applications and screenshots.

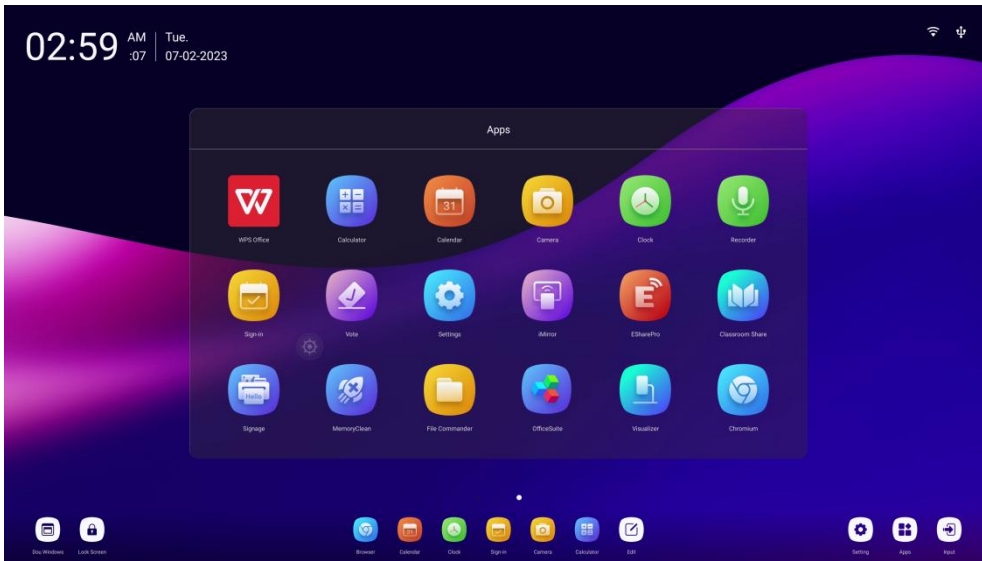


Recent applications: Display the currently running Apps; Tap the preview image to enter the corresponding App; Tap **【X】** to close the App, and tap **【🗑️】** to close all Apps;










Recent screenshots: It shows the screenshots with up to 10 images. Tap **【X】** to delete the screenshot, and tap **【🗑️】** to delete all screenshots.











4.4 Applications

The Home page slides left to show all applications. Tap the icon to run corresponding App.




4.4.1 Application program

Name	Icon	Functions
Calculator		Tap this icon to enter the calculator application.
Calendar		Tap this icon to enter the calendar application.
Camera		Tap this icon to access the camera application
Clock		Tap this icon to enter the clock application.
Recorder		Tap this icon to access the recorder application
Sign-In		Tap this icon to enter the Sign-In application
Vote		Tap this icon to enter the Vote application
Settings		Tap this icon to enter the settings application.
Eshare Pro		Tap this icon to enter the Eshare Pro application

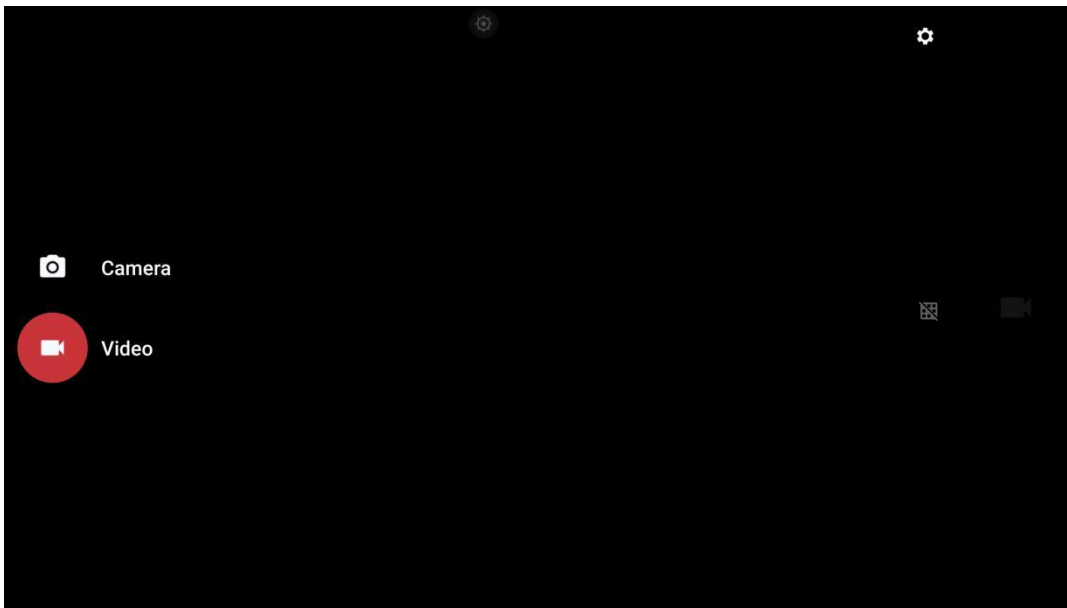
Name	Icon	Functions
Classroom Share		Tap this icon to enter the Classroom Share application
Signage		Tap this icon to enter the Signage application.
MemoryClean		Tap this icon to enter the MemoryClean application.
File Commander		Tap this icon to open the File Manager and you can explore all internal and external files on the screen.
Office suite		Tap this icon to enter the Office suite application. In this application, you can view office files, including excel, word, power point, and PDF files.
Visualizer		Tap this icon to enter the visualizer application.
Chromium		Tap this icon to enter the Chromium application.
Aqual mail		Tap this icon to enter the email application and send files. Before sending files, you need to add an email account.
Whiteboard		Tap this icon to enter the whiteboard application.
Screen Record		Tap this icon to access the Screen Record application.

- **Camera**

Tap the “” icon on the Application program to enter “Camera”, you can select camera mode or video mode, when taking a video, audio will automatically be recorded.

Swipe right to access the menu for the picture or video taking, you can swipe to view, share or delete



your data.



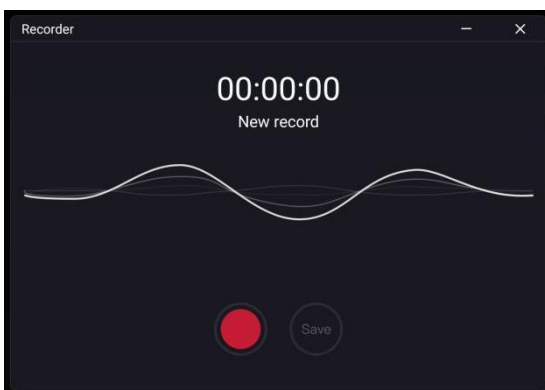
NOTE


- Video recording cannot be used at the same time as Screen Recording. If Screen recording is already activated, video recording will not be turned on.
- Image and video took by Camera will be saved in: File Commander > DCIM > Camera.

● Recorder (Voice Recording)

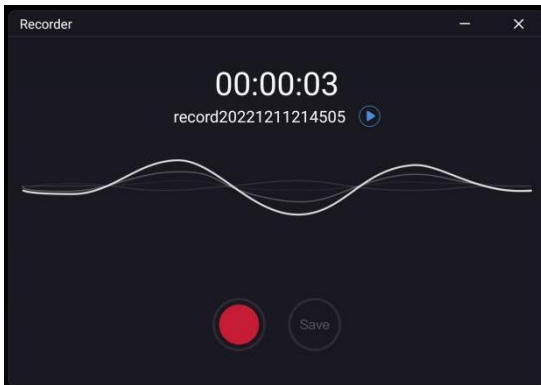
Tap the “” icon on the Application program to enter “Recorder”, tap  to create new record.

Record the voice via the built-in microphone array. Voice meeting minutes made ease.



Tap  again to end the recorder, you can save your data to internal storage. You can listen to your


recorder by tapping the  button.





NOTE

- Record will be saved automatically in “Meeting Minutes” (File Commander > Meeting Minutes).
- Record only works in Android system.

● Screen Record

Tap the “” icon on the Application program to enter “Screen Record”, User can choose to screen record with or without external audio (Microphone) sound.

Tap  to start screen recording, tap again to stop the screen recording, tap  to exit screen recording application.




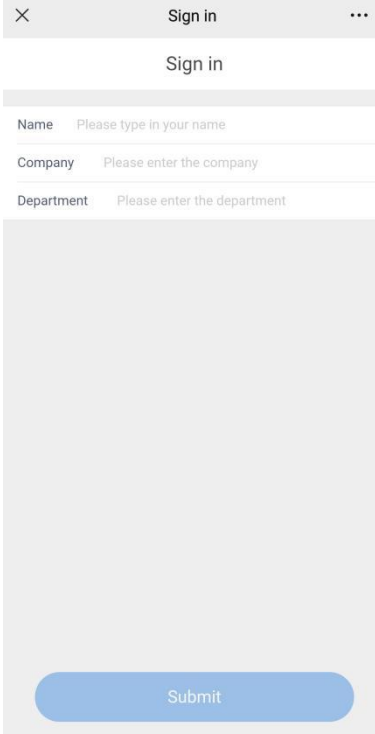
NOTE

- The recording will be saved in subsequent 45 minutes long sessions. For example: if a recording is 90 minutes long, the record will be separated into two 45 minutes sessions.
- Record will be saved automatically in “Meeting Minutes” (File Commander > Meeting Minutes).

● Sign-In

Users can sign in by scanning QR code on a third party QR scanner software using the mobile device. After the participants have signed in, the relevant information is synchronized to the sign-in form in real-time:

Tap the “” icon on the Application program to enter the “**Sign In**”, scan the QR code with your mobile devices. Your devices will be directed to a website for you to input your name, company name, and department name.

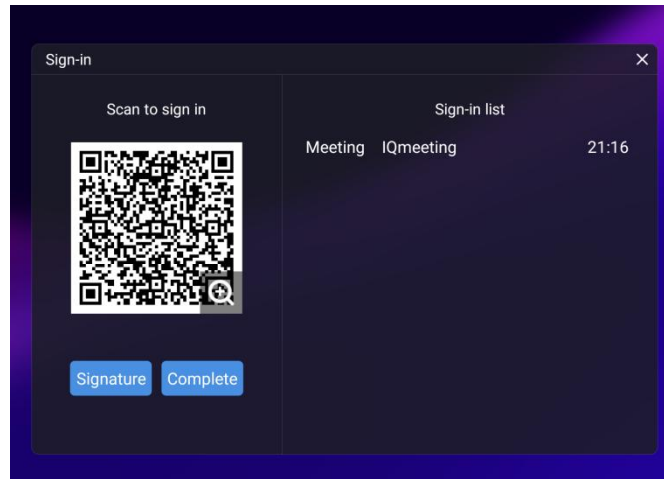


The screenshot shows a mobile application interface for signing in. At the top, there is a header bar with a close button (X), the text "Sign in", and a menu icon (three dots). Below the header, the text "Sign in" is centered. The form consists of three input fields: "Name" with the placeholder "Please type in your name", "Company" with the placeholder "Please enter the company", and "Department" with the placeholder "Please enter the department". At the bottom of the form is a blue rounded rectangular button labeled "Submit".

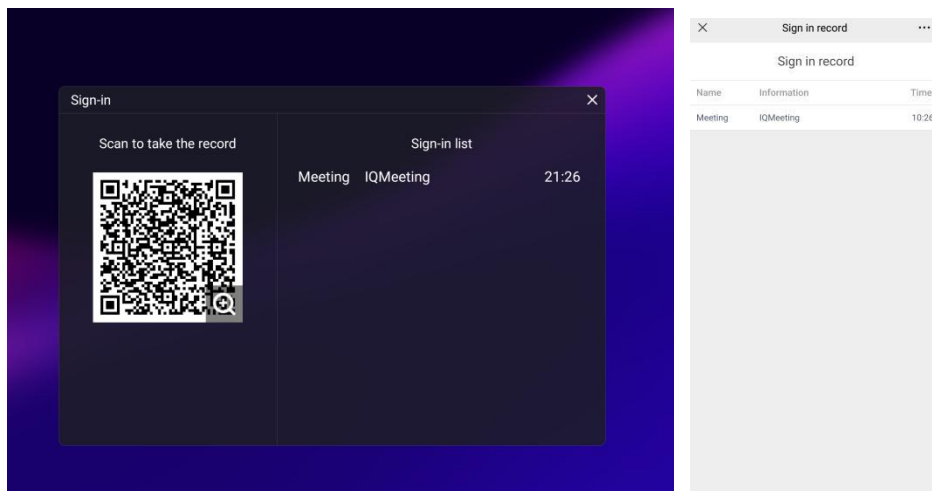
NOTE


“Sign In” only works when both the panel and the mobile device are connected to the internet.

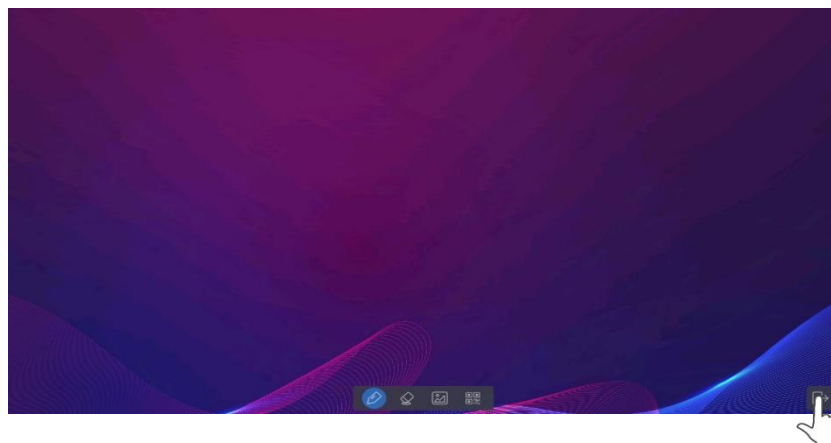
After the user tap submits from their mobile devices, their input will be shown on the Sign-in list. The meeting host can tap “**Complete**” to finish the signing process.



After the meeting host tap “**Complete**”, users can use their mobile device to scan the QR code to download the Sign-in List onto their mobile devices.



The user can also select the “**Signature**” button to enter the signature interface. Handwritten sign-in can be done by hand or with a stylus. The bottom toolbar includes a pen, an eraser and background settings (customizable), etc. The sign-in interface can be saved by scanning the QR code. The user can tap the “” button in the lower right corner to exit the sign-in interface.



 **NOTE**

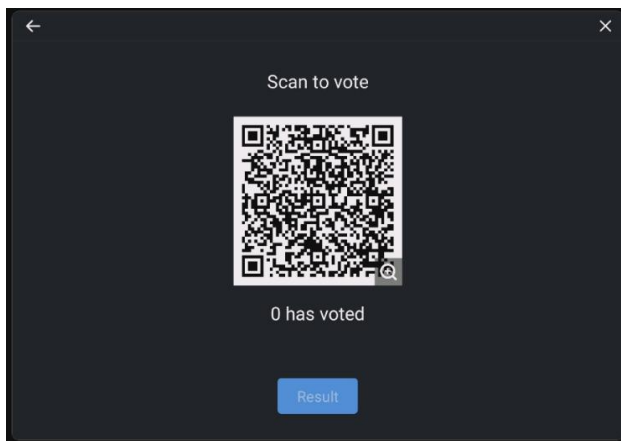
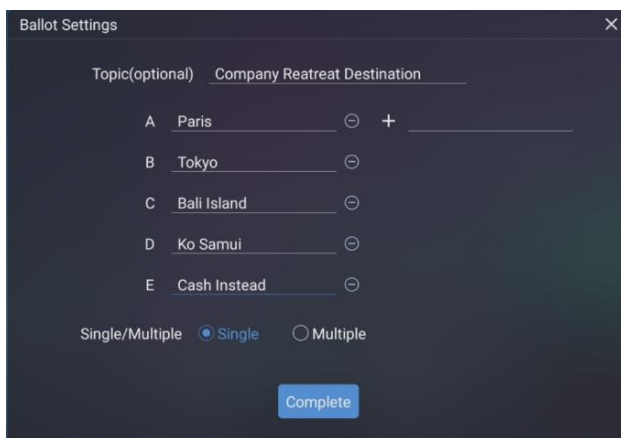
If the screen stays idle for more than 8 seconds on the signature interface, the bottom toolbar will be automatically hidden. The users can tap the hidden button at the bottom to call out the toolbar again.

● **Vote**

Tap the “” icon on the Application program to enter “**Vote**”:

Users can input a topic (not required) and input options (2 options minimum, 10 options maximum).

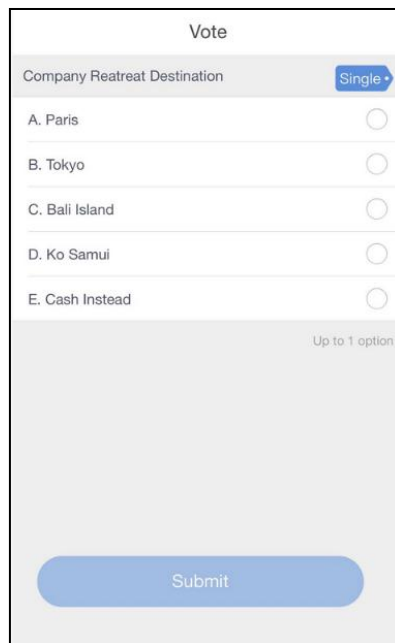
After tapping “**Complete**”, a QR code is generated for users to scan with their mobile devices.



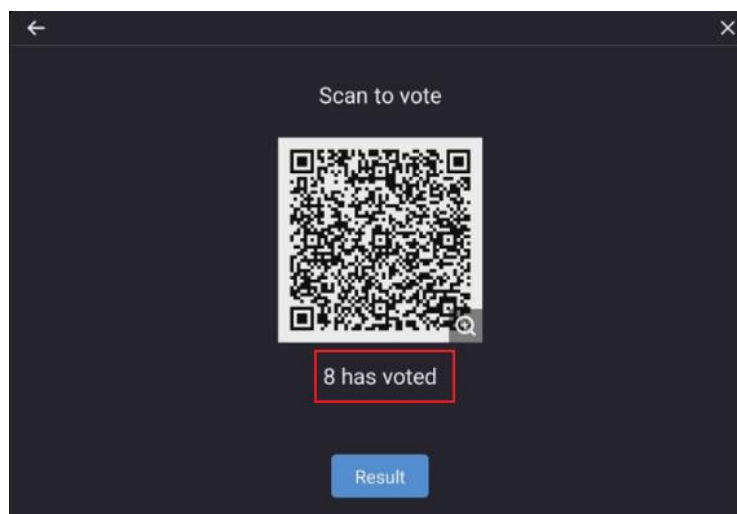
 **NOTE**

“**Vote**” only works when both the panel and the mobile device are connected to the internet.

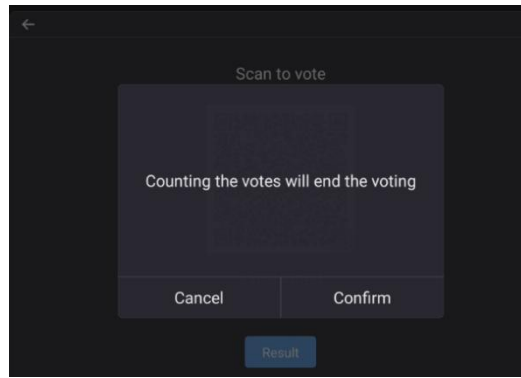
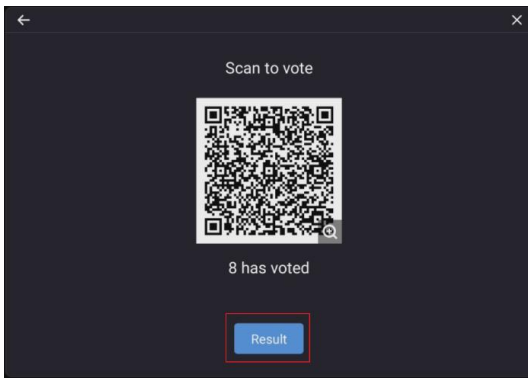
User will see the voting topic and options on the mobile device after the QR code is scanned. After making the selection, tap “Submit” to cast vote.



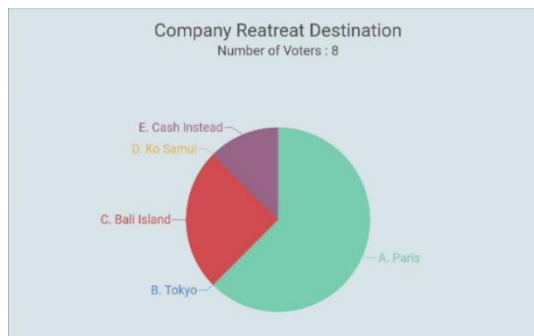
In the voting process, the number of voters is displayed in real-time under the QR code.



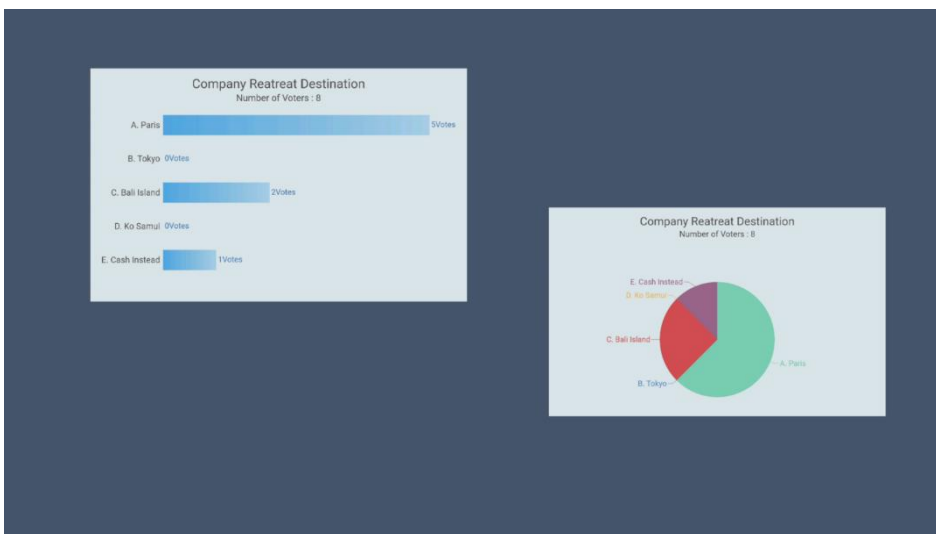
The user can tap the “**Result**” button to terminate the current vote process and show the voting results.




The voting results can be displayed in both the “**Pie chart**” or “**Bar chart**” form.



The user can tap **Insert into whiteboard** to insert the current voting results into the whiteboard.

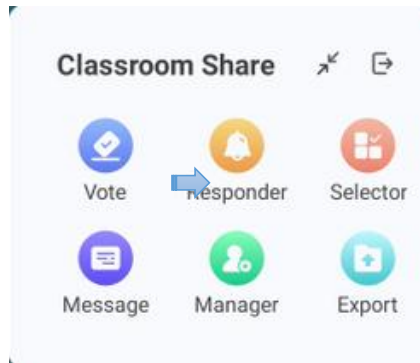


● Classroom Share

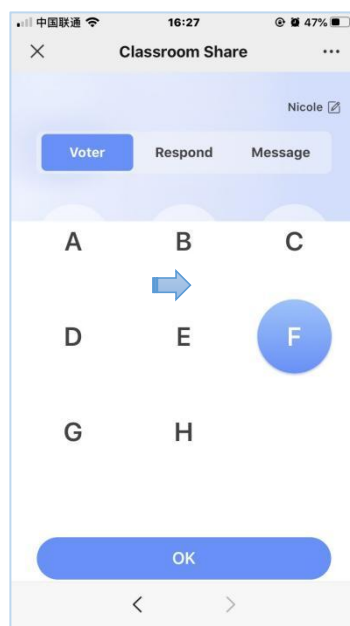
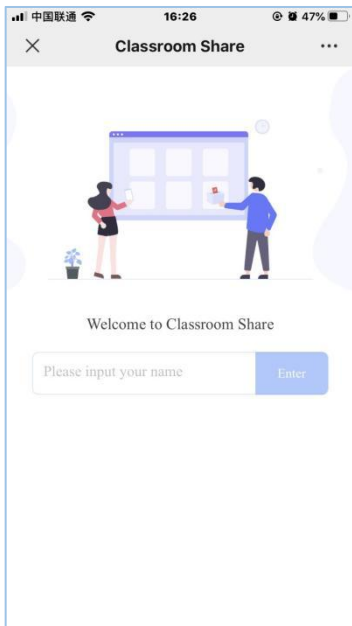
Tap the “” icon on the Application program to enter the **Classroom Share**. Tap **enter** to bring up the classroom tools.

Students can scan the QR code and input their names to join in the classroom share.

The pop-windows will be displayed on the display and on the mobile device.

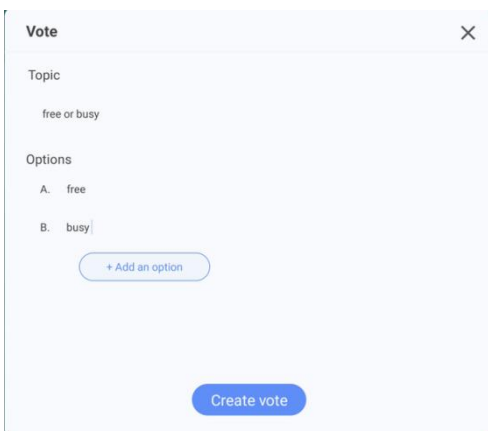


popover on the mobile device



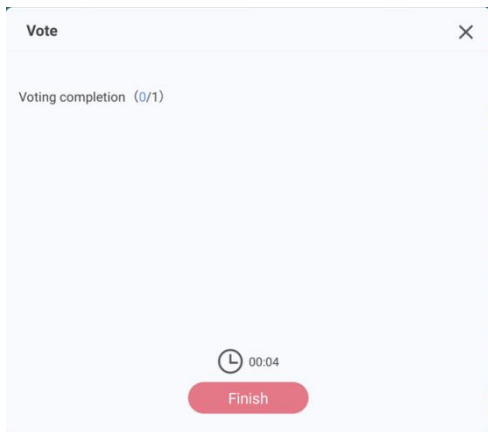
(1) Vote

Step 1: Tap **vote** to create a new vote, input vote topic (not required) and input options (2 options minimum).

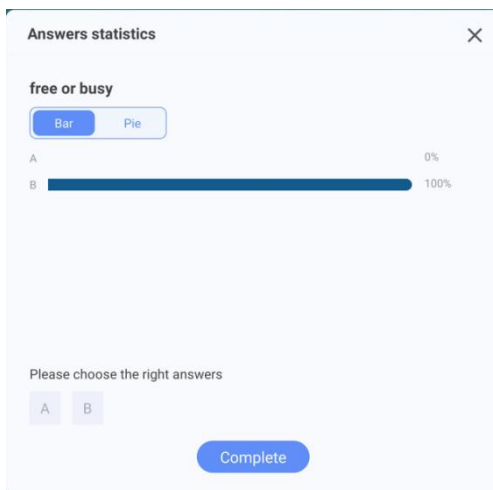


Step 2: Tap **Create vote** and students can vote on the mobile device. The Will be displayed real-time on the screen.

;



Step 3: Tap **Finish** to check the vote result, Bar charts and pie charts are supported for showing voting results.



(2) Responder

Tap "**Responder**" on the panel to create a responder, the "**Responder**" button on the mobile device will be available. Tap the button on the mobile phone, the name of the first successful student will be displayed on the panel.

(3) Selector

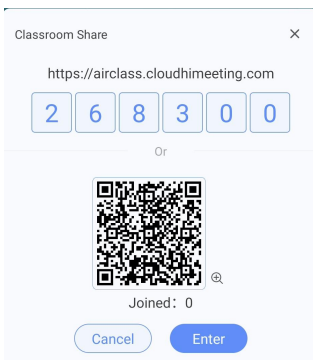
Tap "**Selector**" button on the panel to initiate the selector, select the number of students to win, tap "start", the system will conduct a random selector from the list of students who have joined in the classroom share. After the selector is complete, winner's name will be displayed on the panel.

(4) Message

Students input message on the mobile device and click Send. When the panel's bullet screen is on, the bullet screen message will appear on the screen. The color of the bullet screen can be customized.

(5) Manager


Tap "**Manager**" button to view the joined information.

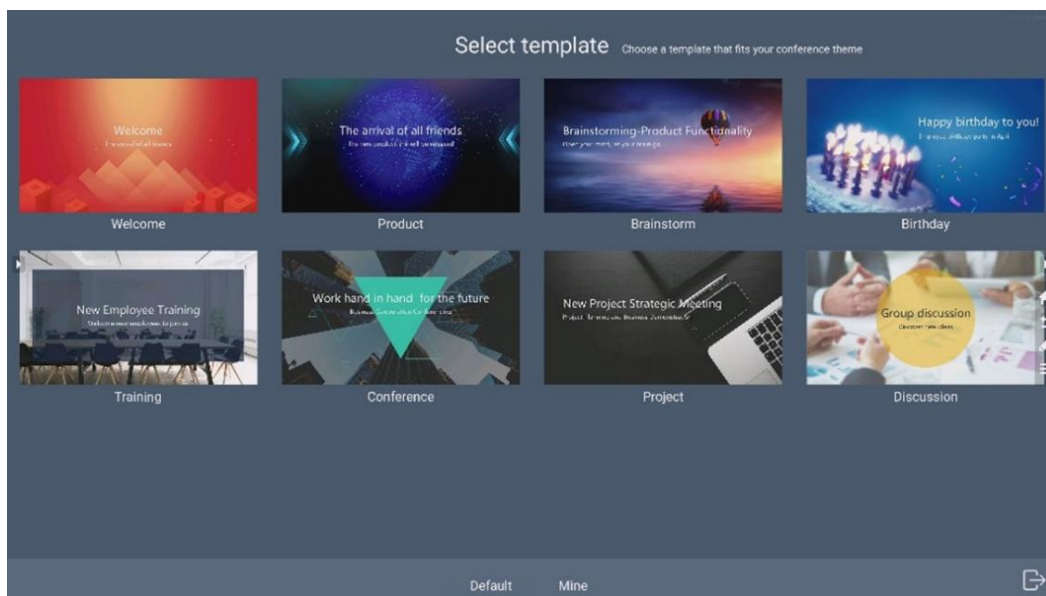


(6) Export

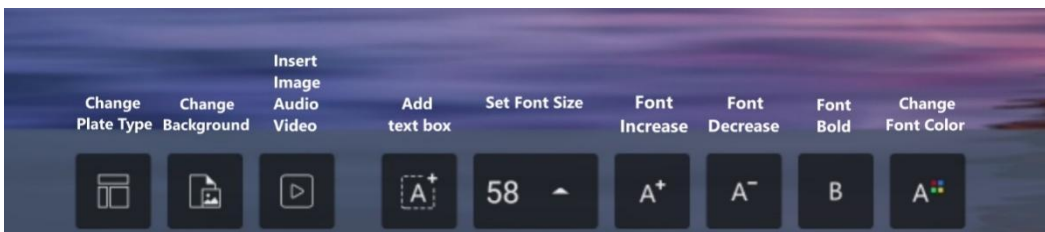
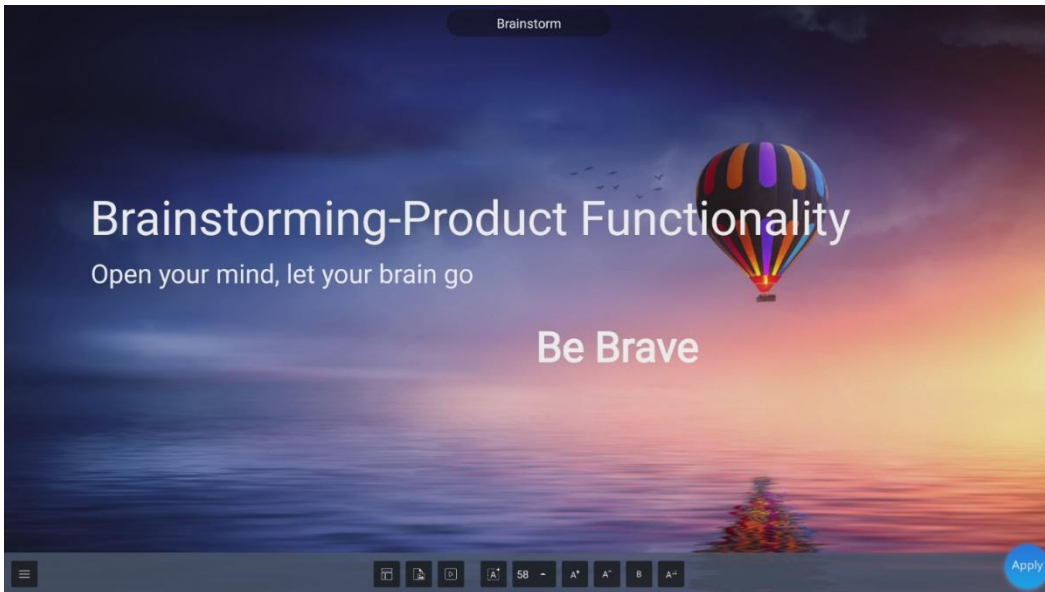
Tap "**Export**" button to save the classroom share data to file management.


● Signage

Tap the “” icon on the Application program to enter the **Signage**. In this page, the user can select the desired template style and customize welcome words under “**Default**” or “**Save File**” mode, as shown below:




After selecting a template, enter the template editing interface:

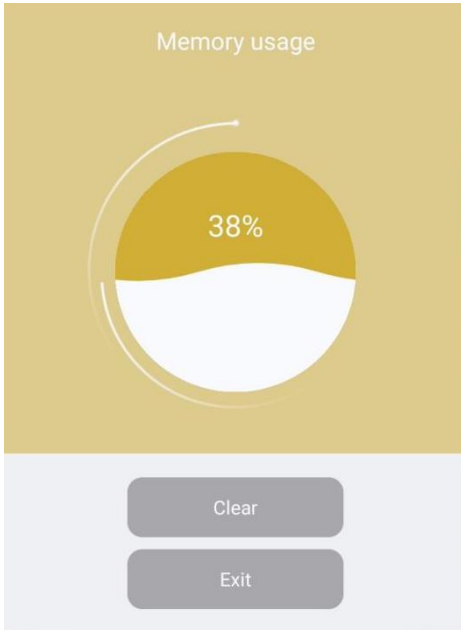


After editing the template, the user can tap the “**Apply**” icon in the lower right corner to save into “**Save Files**”, or tap the “” icon in the lower left corner to perform the following operations:


- Tap “**Restore**”: Restore the template to the default mode prior to editing.
- Tap “**Rename**”: Modify the template name.
- Tap “**Back**”: Return to the previous operation.
- Tap “**Save**”: Save the template in “**Save File**”.

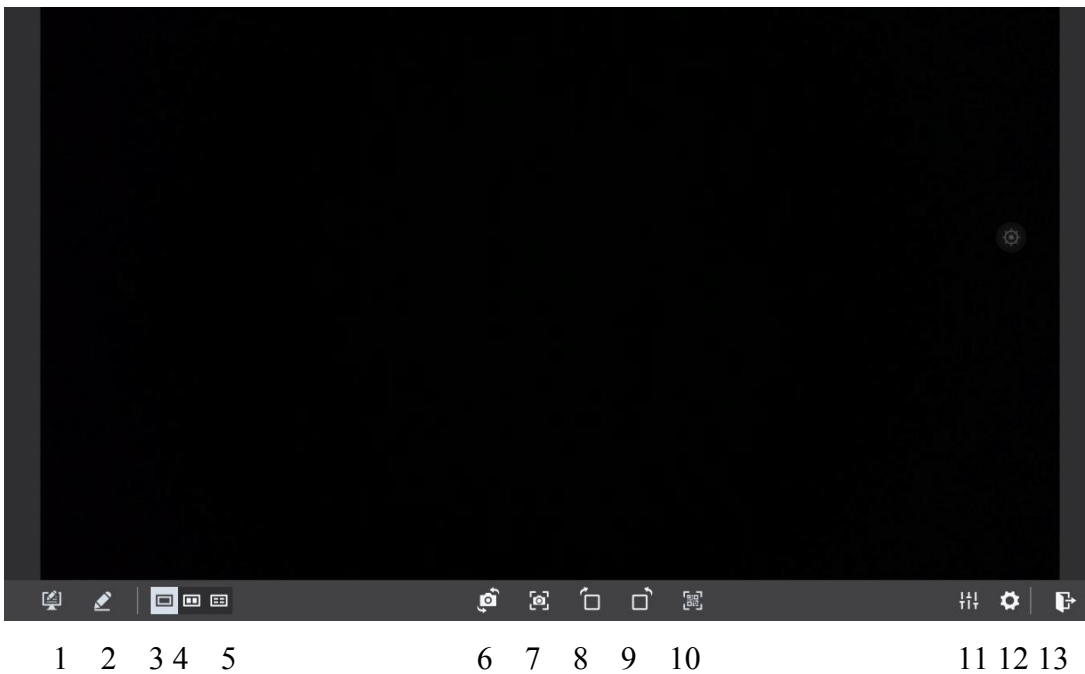
● **Memory Usage**

Tap the “” icon on the Application program to enter the **Memory Usage**. Tap “**Clear**” to clear the internal system cache.



- **Visualizer**

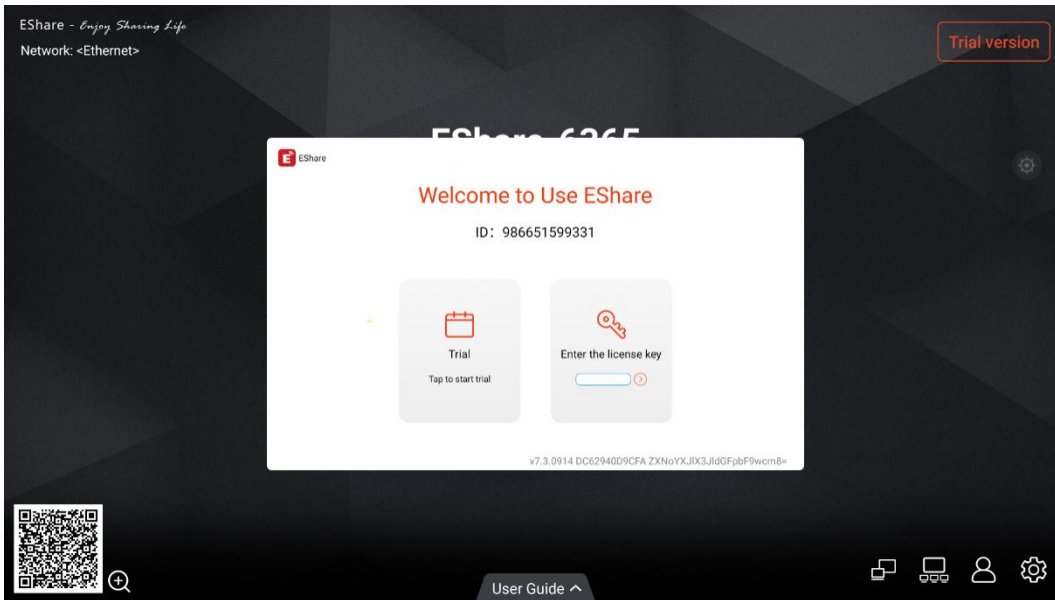
Tap the “” icon on the Application program to enter the Visualizer.



SN	Icon Name	Icon Function
1	Annotation	Tap to enter annotation mode.
2	Whiteboard	Tap to enter whiteboard mode.
3	Screen Display	Tap to display the visualizer camera.
4	Screen Split Mode (2)	Tap to displayed in 2 split screen mode.
5	Screen Split Mode (4)	Tap to displayed in 4 split screen mode.
6	Camera Switch	Tap to change the camera(only when the panel has an upper and lower camera).
7	Capture	Tap to take a screenshot, you can paste the screenshot on whiteboard, save it to files, save it to USB or Share it.
8	Rotation (clockwise direction)	Rotate the camera image by clockwise direction.
9	Rotation (counter-clockwise direction)	Rotate the camera image by counter-clockwise direction.
10	QR code	QR code are automatically detected by the camera.
11	Adjustment	Tap to adjust the brightness, contrast, saturation, sharpness.
12	Setting	Tap to set image mode, resolution, color system.
13	Exit	Tap to exit the visualizer.

● Screen Sharing

Users can cast screens from multiple devices to the panel using several casting mode (Airplay, Google Cast...). To cast: tap Screen Sharing on the Home Page to enter EShare. Follow the onscreen instructions to cast the screen to the panel (See below).



4.4.2 Whiteborad

The whiteboard function is designed to present conference writing to attendees quickly and easily. The Whiteboard support 1~4 Points for writing or drawing at the same time, and 5 finger gesture as an eraser.

Whiteboard has the following functions:


- **Discussion**

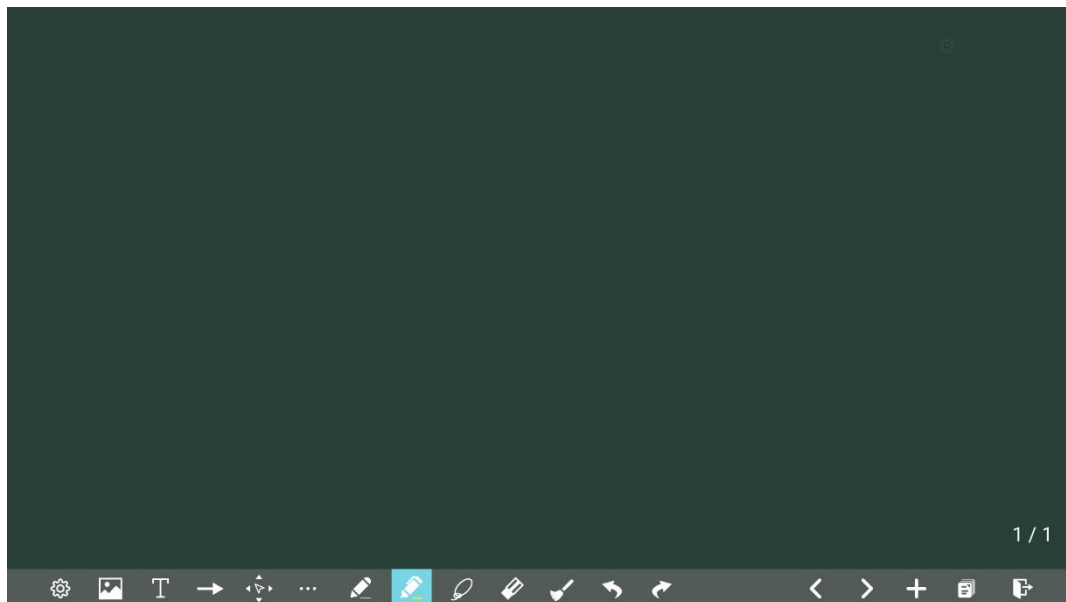
On the whiteboard page, you can select pen type, width, and color to write or annotate on the screen. You can also erase selected content or clear all contents.

- **Page navigation**

Preview, share or delete pages.

Whiteboard Mode

- Tap **Whiteboard** on the **Home** page or tap  in the floating toolbar to enter the discussion mode, as shown in the following figure.




1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

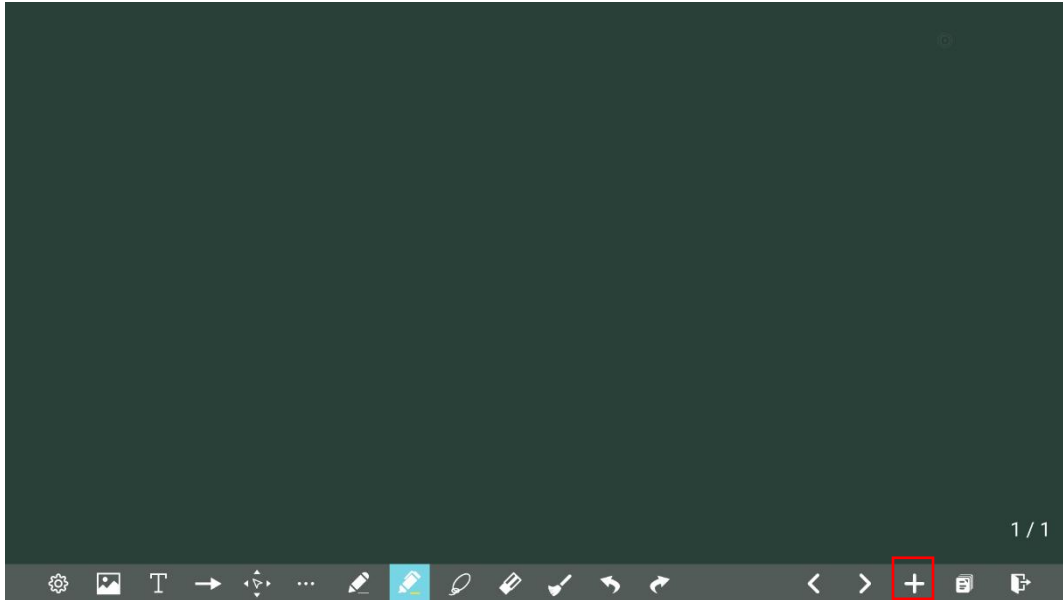
SN	Icon Name	Icon Function
1	Object recognition switch	Tap to change the object recognition setting, slide to left to turn on the object recognition function, slide to right to turn it off.
2	Import	Tap to import data from file management or web page, user could import the pictures/ whiteboard data (PNG)/ screenshots (PNG) from system files or USB. When connected to the Internet, users also can take a screenshot of the web page and import it into the whiteboard.
3	Text	Tap to insert text, and show the keyboard. (Default is Roboto , 40pt) Tap to set the default text setting.
4	Auto shape	Tap to insert the auto shape. Tap to set the shapes and color.

SN	Icon Name	Icon Function
5	Move Canvas	Tap and move in the page to move canvas and content on it.
6	Plugins	Tap it and user could choose the camera of visualizer, the recorder and rulers.
7	Pen	Tap to use the pen function, and the icon turns into blue. Tap to set the size or color. And the chosen color and the size would be shown by the icon.
8	Highlighter	Tap to use the highlighter function, and the icon turns into blue. Tap to set the size or color. And the chosen color and the size would be shown by the icon.
9	Select	Tap it and user could choose the data on the page to move/ zoom in/ zoom out/ rotate by two fingers.
10	Eraser	Tap to select the eraser function, tap to set the way of eraser.
11	Clear	Clear all data in this page.
12	Undo	Back to the previous step.
13	Next	Turn to the next step.
14	Previous Page	Tap to return to the previous page.
15	Next Page	Tap to go to the next page.
16	New Page	Tap to add a new page. Tap and hold for two seconds to set the color and the pattern of the new page.
17	Navigation	Tap to show the page thumbnails.
18	Exit	Tap to exit the whiteboard mode.


New Page and Settings

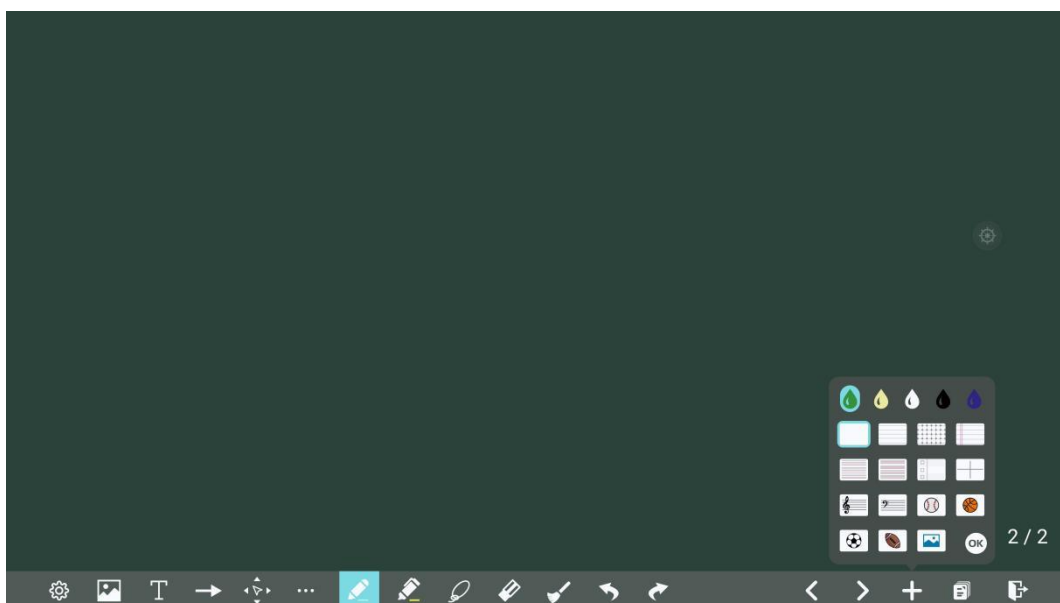
- Create a new page

In the discussion mode, tap  to create a new page. Up to 20 pages can be created. See the following figure.




- Page settings

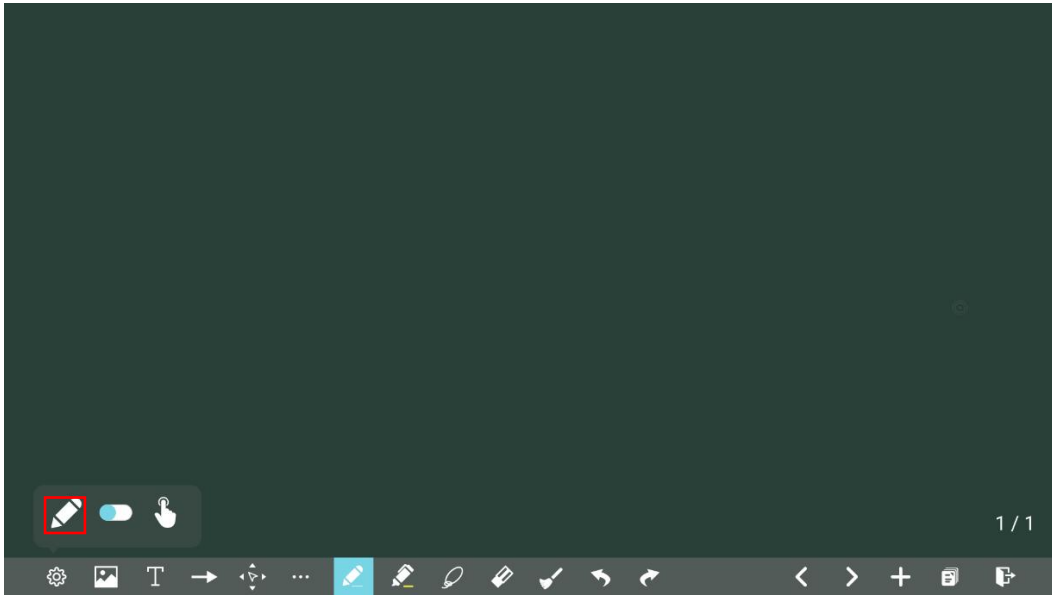
Tap and hold  for two seconds to set the color and pattern of the new page, as shown in the figure below.






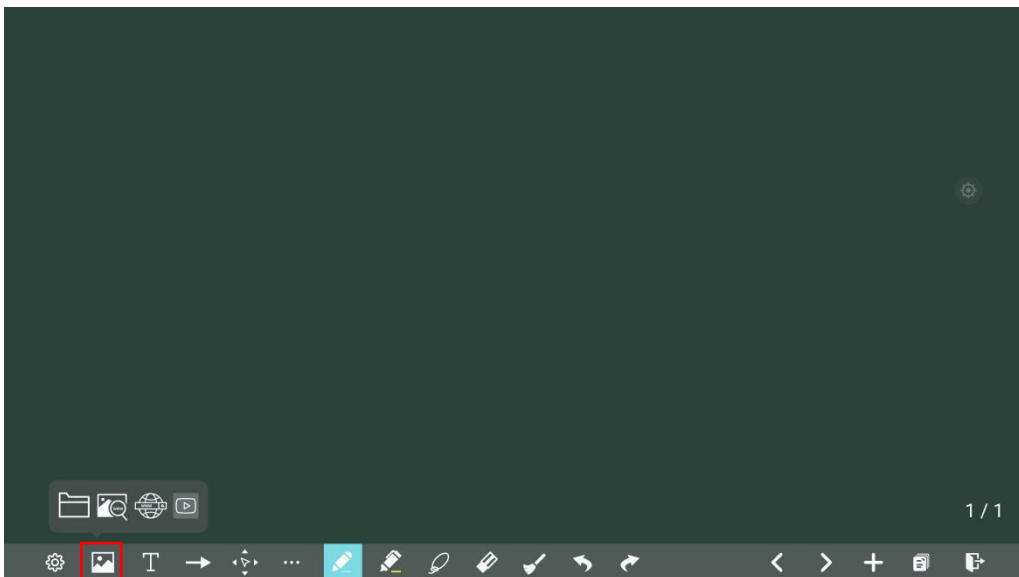
Object Recognition Switch

Tap the setting  icon, it will pop up a switch and let user to change the object recognition setting, slide to left to open the object recognition function, slide to right to turn it off.




Import

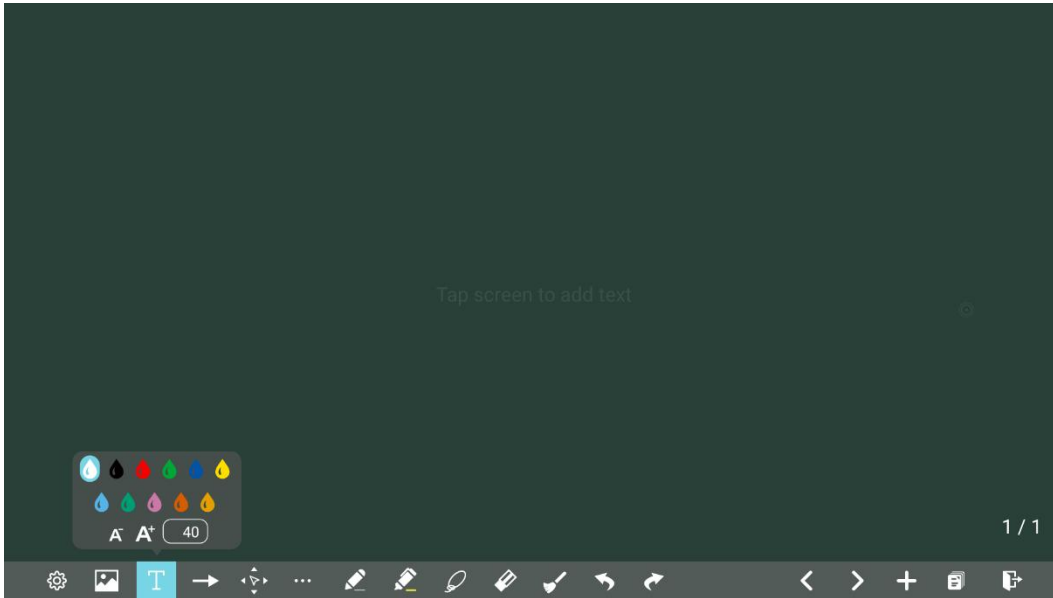
On the Whiteboard, tap  to import data from file management, you can import the pictures/ whiteboard data (PNG)/ screenshots (PNG) from system files or USB storage device. When connected to the Internet, users also can take a screenshot of the web page and import it into the whiteboard.




Insert text

On the Whiteboard, tap  to insert text, and show the keyboard. (Default is Roboto, 40pt)

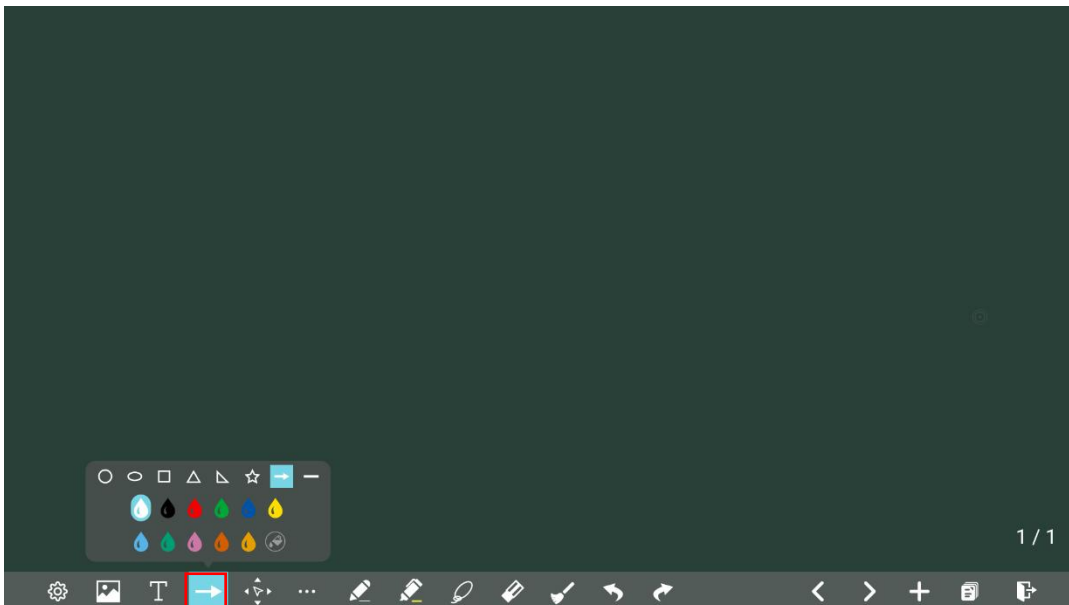
Text Size: 30-180 (Tap A⁺ A⁻ to change the font size)



Insert auto shape

On the Whiteboard, tap  to insert the auto shape, you also can change the shapes and color.

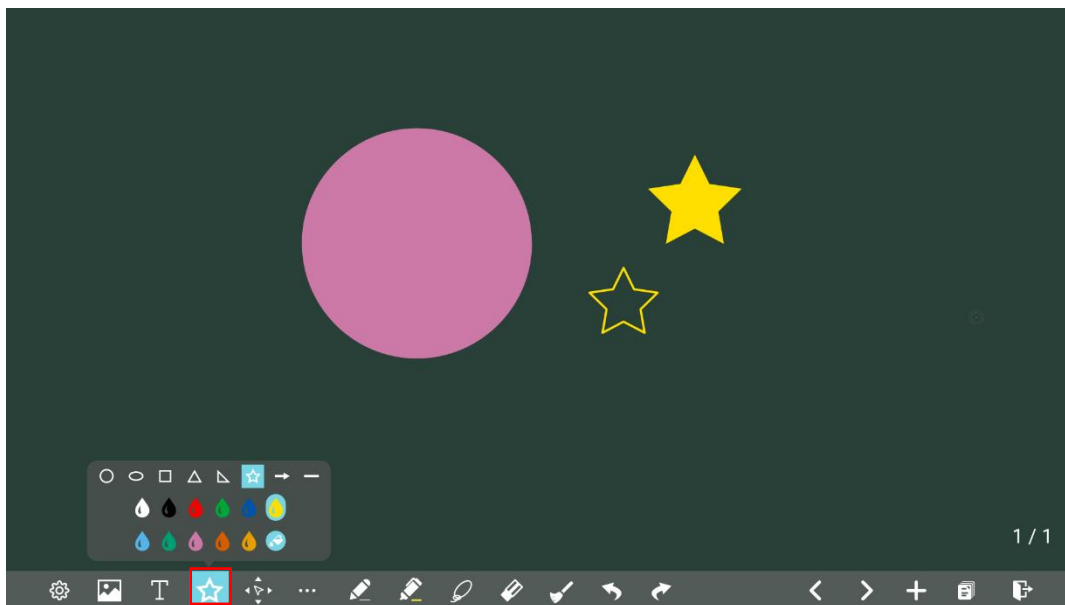
Shapes: Circular, ellipse, square, equilateral triangle, right triangle, star, arrow, line



The  icon status are represented by three colors, gray for not available, white for shape outlines,

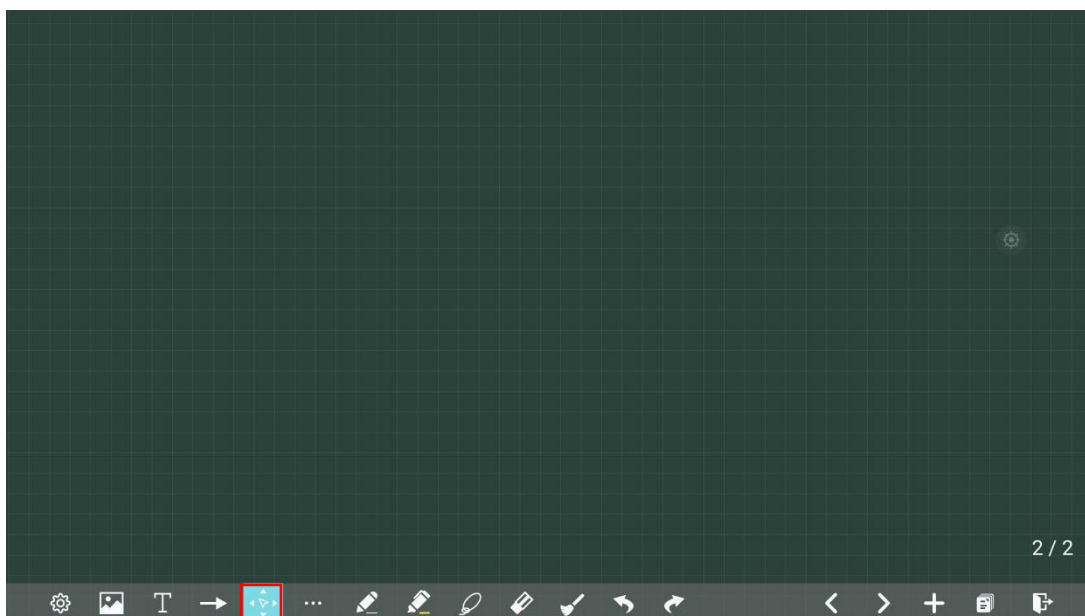
and shape fill when it turns blue.

- Gray: The icon is unavailable when users insert arrow and line;
- White: The edge of shapes are colored;
- Blue: The shape will be filled with colors when you import the shape;



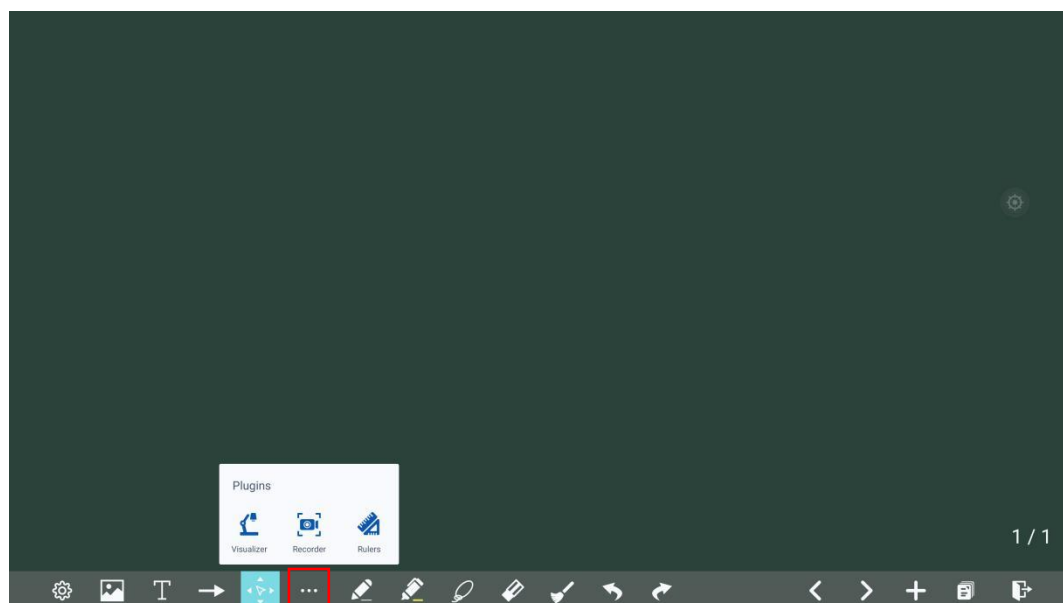
Move canvas

On the whiteboard, tap the icon to enter move canvas function, press and move your finger in the page to move canvas and content on it.





Plugins

On the whiteboard, tap to choose the plugins, such as visualizer, recorder and rules can be chosen.





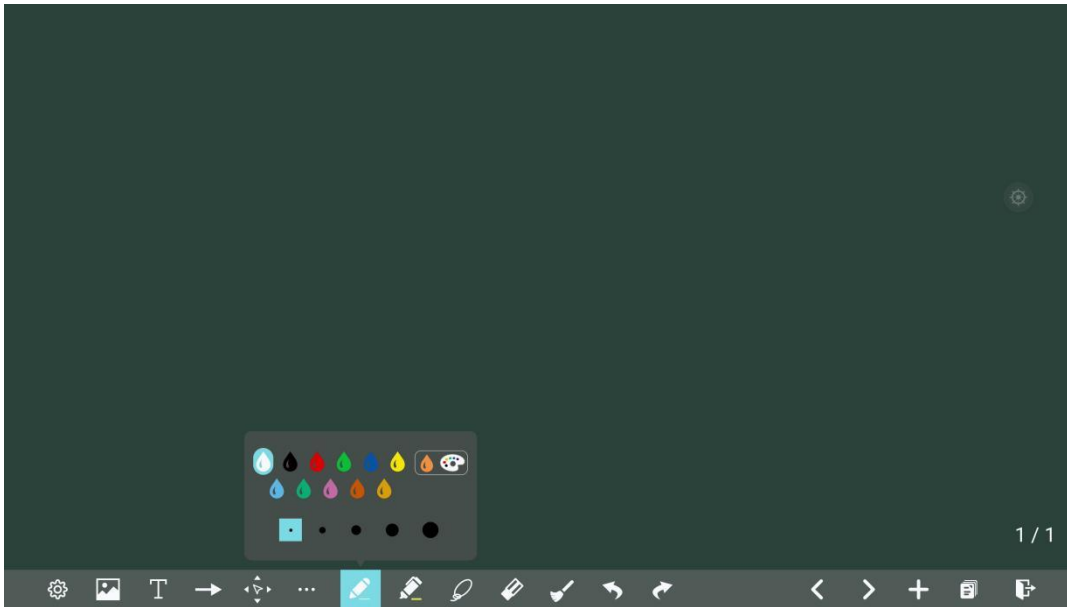
Pen Type

On the Whiteboard, two types of pens are supported: Pen and highlighter.


- Pen  : used to write.
- Highlighter  : used to highlight. Characters covered by comments are still visible.

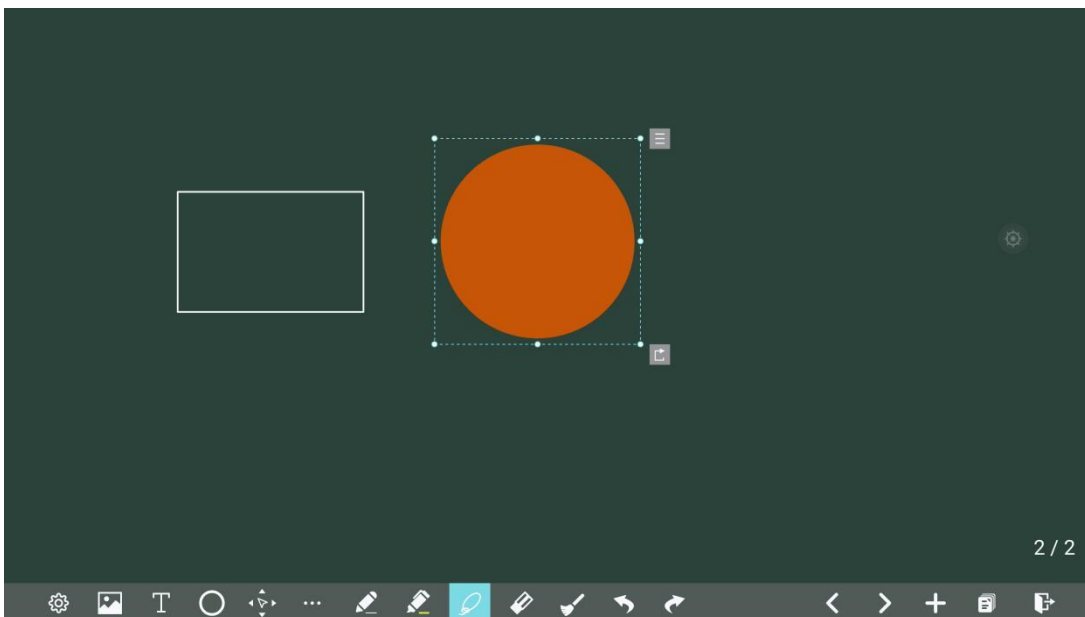
Line Size and Color



On the Whiteboard, tap  or  to set the size and color. You can select the line size and color for writing, as shown in the following figure:

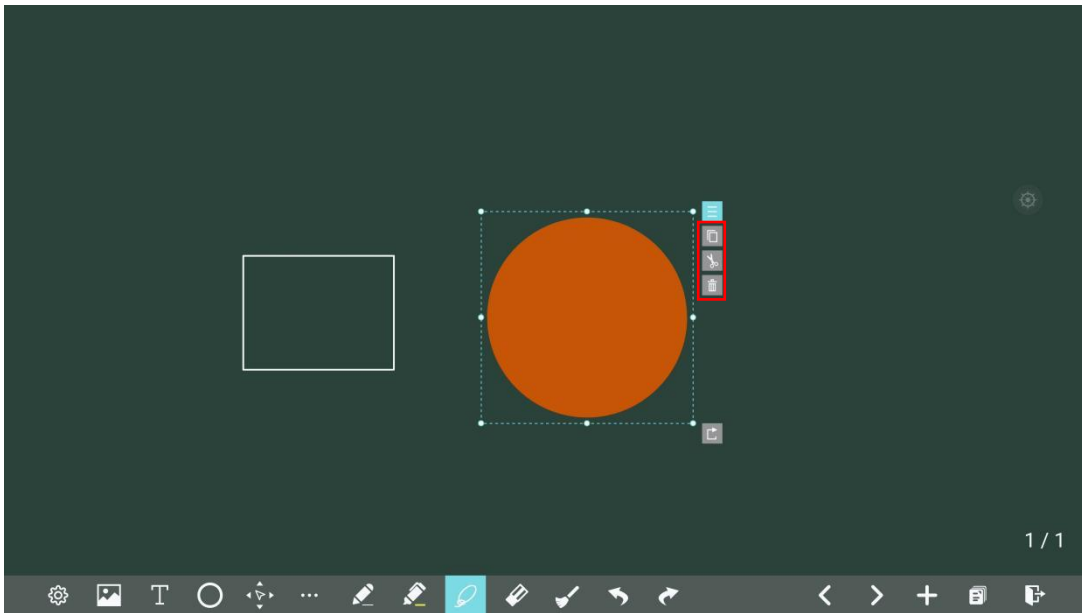


Selected


On the Whiteboard, tap  and user could choose the data on the page to move/ zoom in/ zoom out/ rotate by two fingers, and the icon turns into blue.



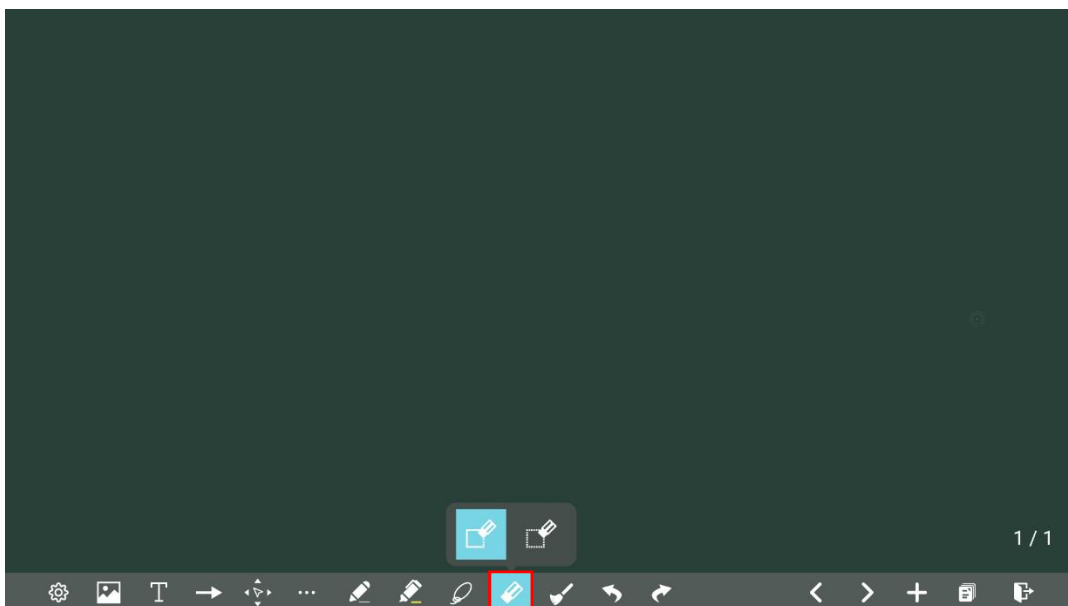
Tap  to expand the toolbar which can be used to copy, delete or cut the selected content, tap  to exit the selection, such as the following figure:




Eraser

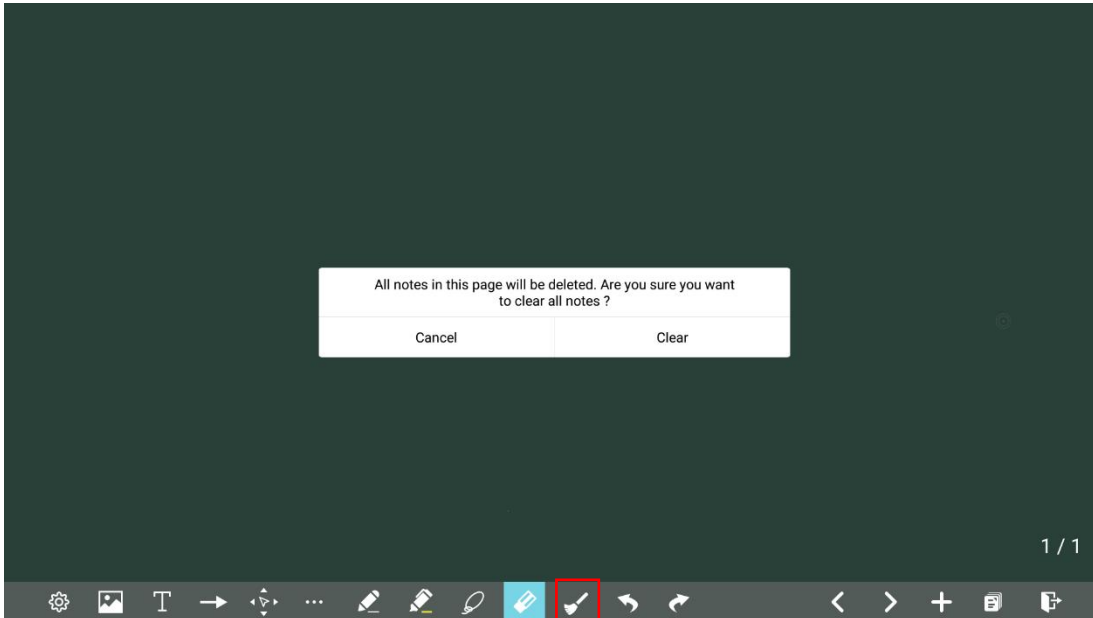
On the Whiteboard, tap  to clear wrong or unnecessary content. You can erase writing errors using two methods below:

- Partial eraser: Tap  to clear the passing part of eraser.
- Object eraser: Tap  to clear the whole object.



Clear All


On the Whiteboard page, tap  to show the pop-up windows to make users choose if they want to clear contents on the current page, as shown in the following figure.

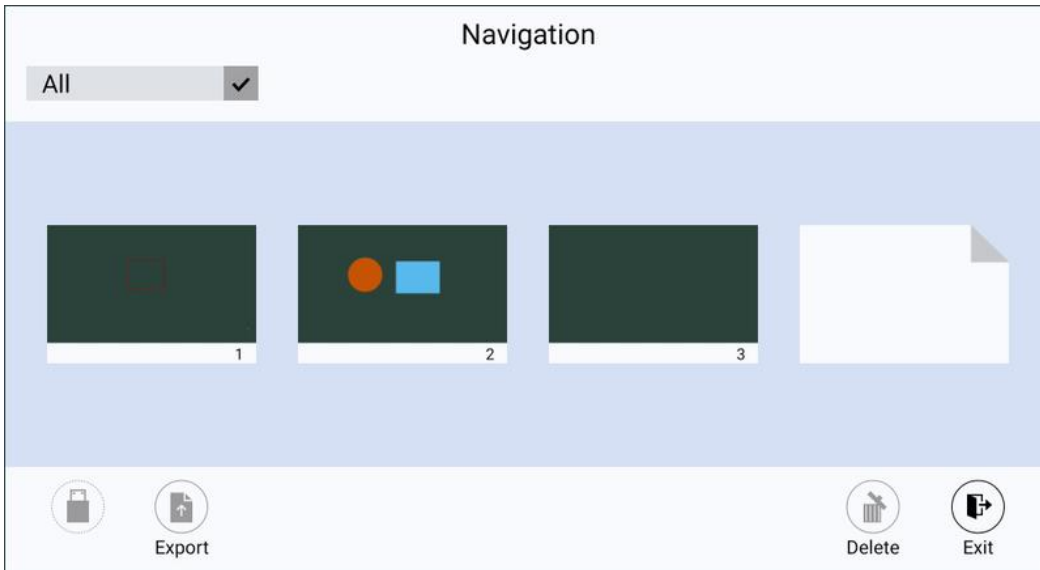


4.4.2.1 Page Operations

You can preview, select, save, export, and delete a created writing page.






Page Preview

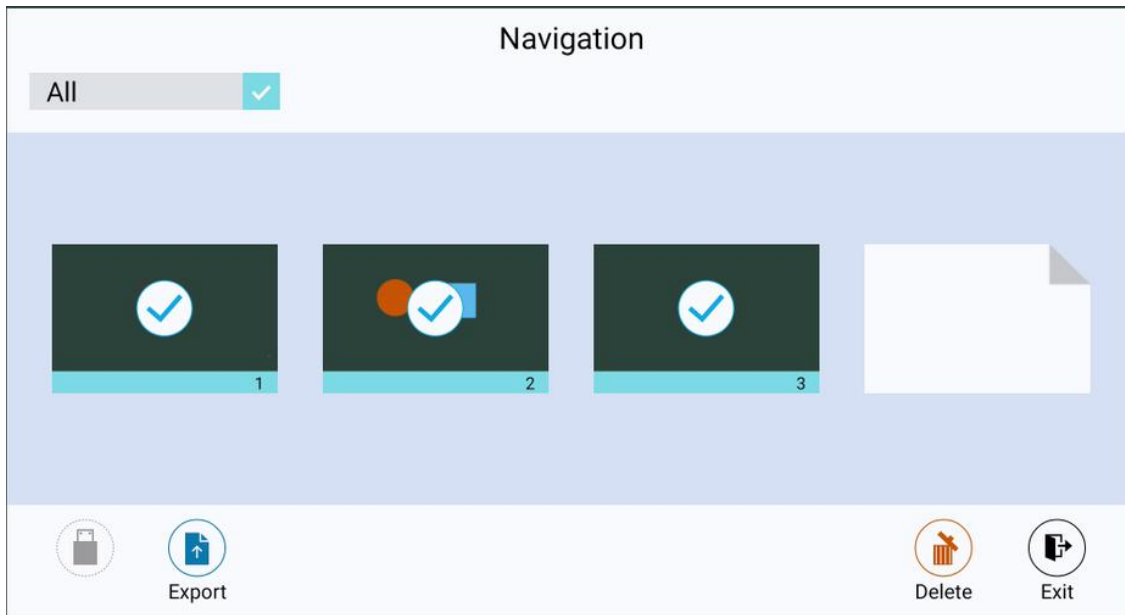
Tap  at the lower right corner in the discussion mode. All pages will be displayed. you can slide right or left by one finger to see more, as shown in the following figure.



Page Selection, Export or Deletion

On the **Navigation** page, you can select, export or delete writing pages according to requirements, as shown in the following figure.

- Tap  to select all pages.
- Tap  to save the pages to USB flash device.
- Tap  to export selected pages.
- Tap  to delete selected pages.
- Tap  to exit the page.

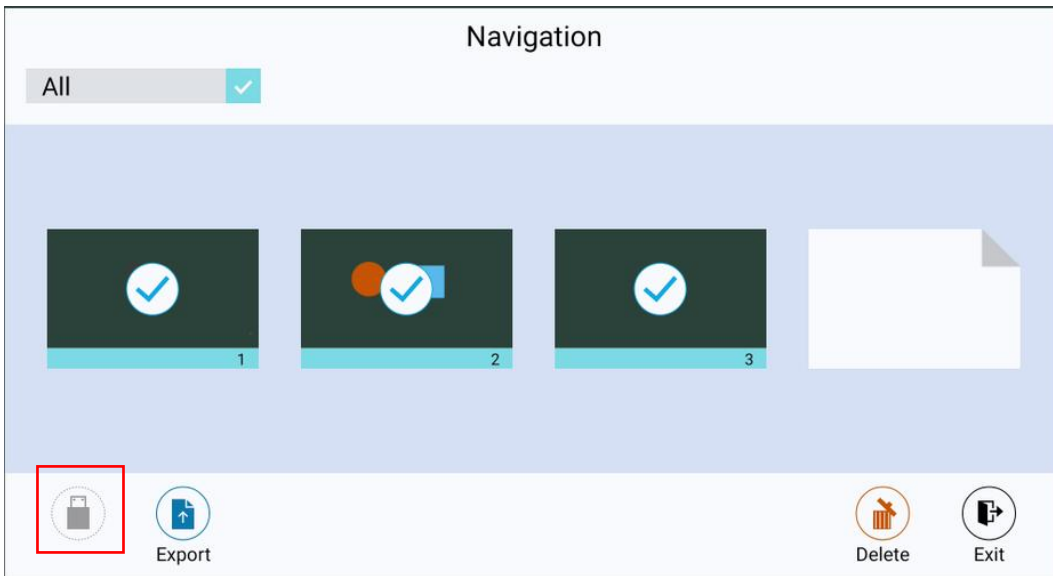


Page Saving

On the **Navigation** page, when no external USB flash memories are connected, USB icons will be gray. When an external USB flash memory is connected, USB icons will turn yellow. Tap the USB icons and the selected whiteboard file can be saved in the folder of "Meeting + year month day hour minute second" under the root directory of storage device.

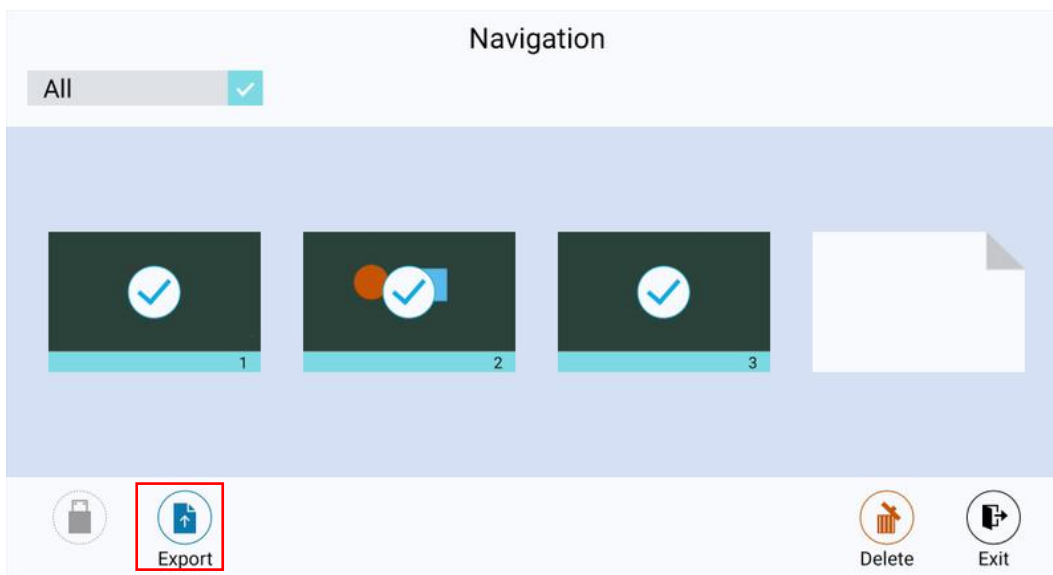
NOTE

- Do not eject USB flash memory before completing the saving process.
- If the USB flash memory is larger than 16GB or the file format is not FAT32, the data will not be saved properly.

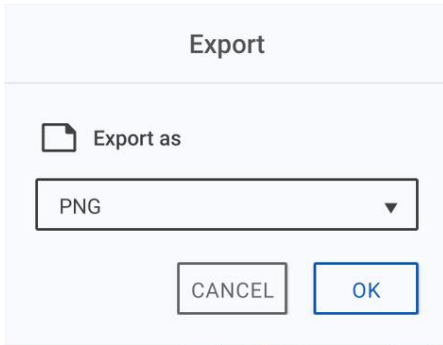


Page Exporting

Step 1: On the **Navigation** page, tap  icon to pop up exporting window.



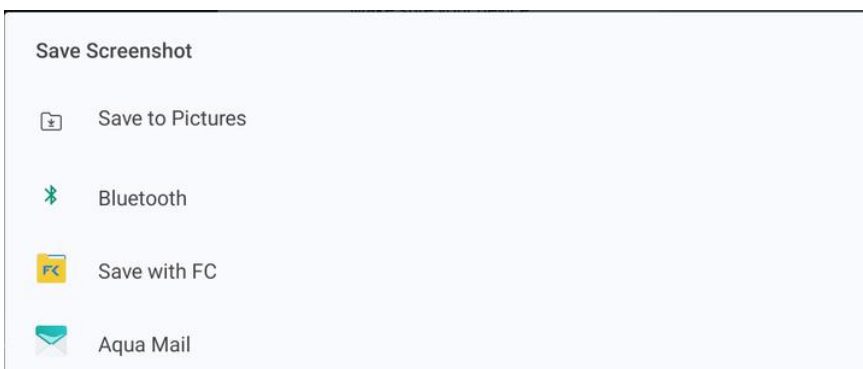
Step 2: you need to select the export format(png, jpg or pdf), tap OK to enter next step.



Step 3: The selected whiteboard page will be exported into QR Code, you can scan the QR code to download the file.



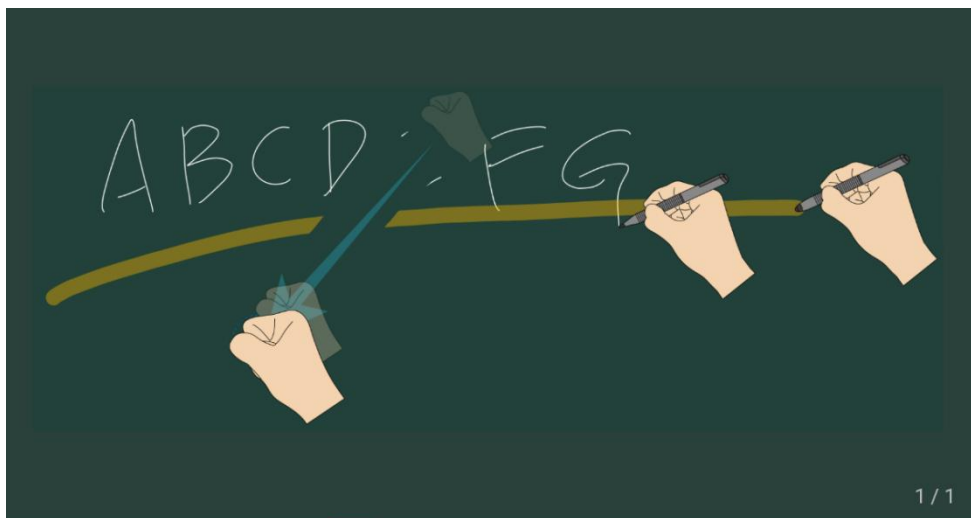
Step 4: tapping share to save screenshot to pictures, save with FC or aqua mail.



4.4.2.2 Object Detection

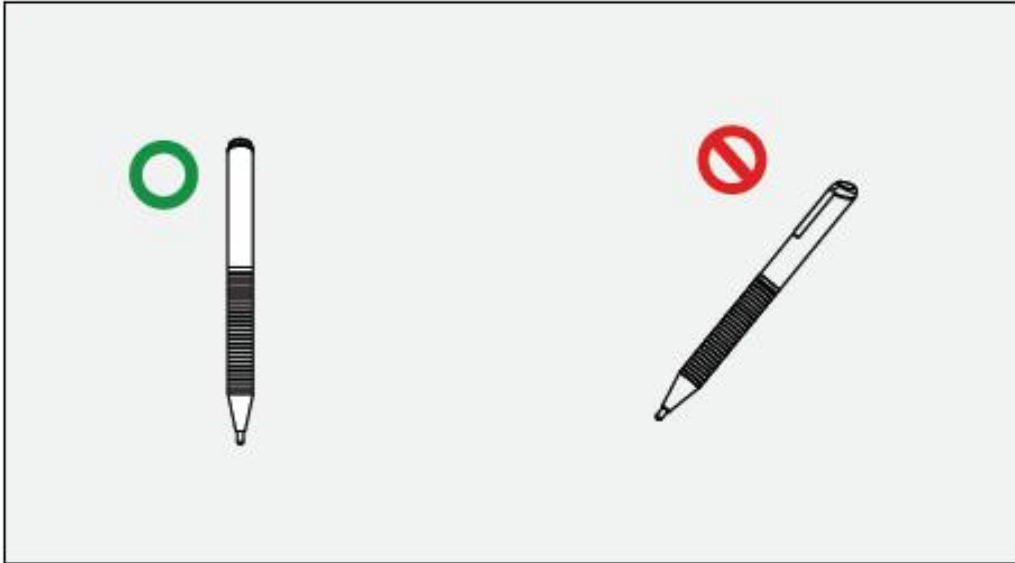
This product supports the object detection function and produces different effects according to the diameter and size of the input objects.

- Fist/palm: identified as an eraser.
- Fine Pen (3 mm): suggested to be used during writing.
- Thick Pen (≥ 8 mm)/finger: suggested to be used during the function operation or highlighter operation.



NOTE


If the diameter or the size of the input object is larger than 3 mm or smaller than 8 mm, there is a risk of identification failure. You are advised to hold the object vertically to the panel when writing.

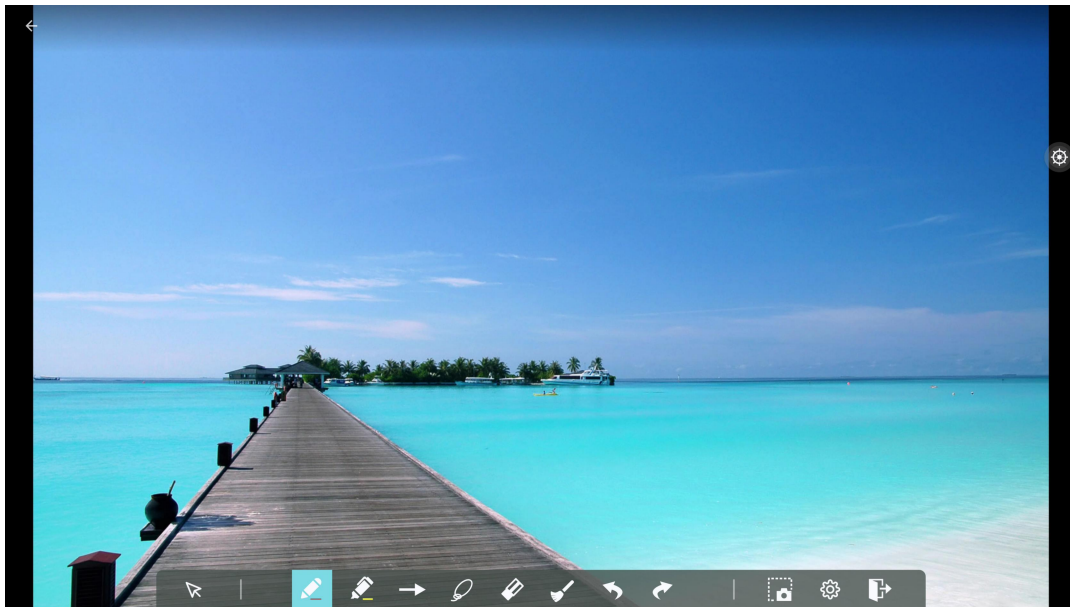


Operation method: The system automatically remembers the settings of fine pen and thick pen. Users can use a fine pen or thick pen (finger) to select functions (including color and thickness). After that, the system remembers the attributes of corresponding functions until users change them manually.

- Fist/palm: keep the eraser function.
- Fine pen (3 mm): before users manually change, the system remembers the previous selected attributes (including color and thickness).
- Thick pen (≥ 8 mm): because the system will retain the previous selected attributes (including color and thickness) set by someone else, you need to change the setting to your liking if needed.

4.4.3 Annotation

Tap  in the floating toolbar to enter the annotation. In the annotation mode it will generate a transparent layer on the screen, and users can add the annotation on it.




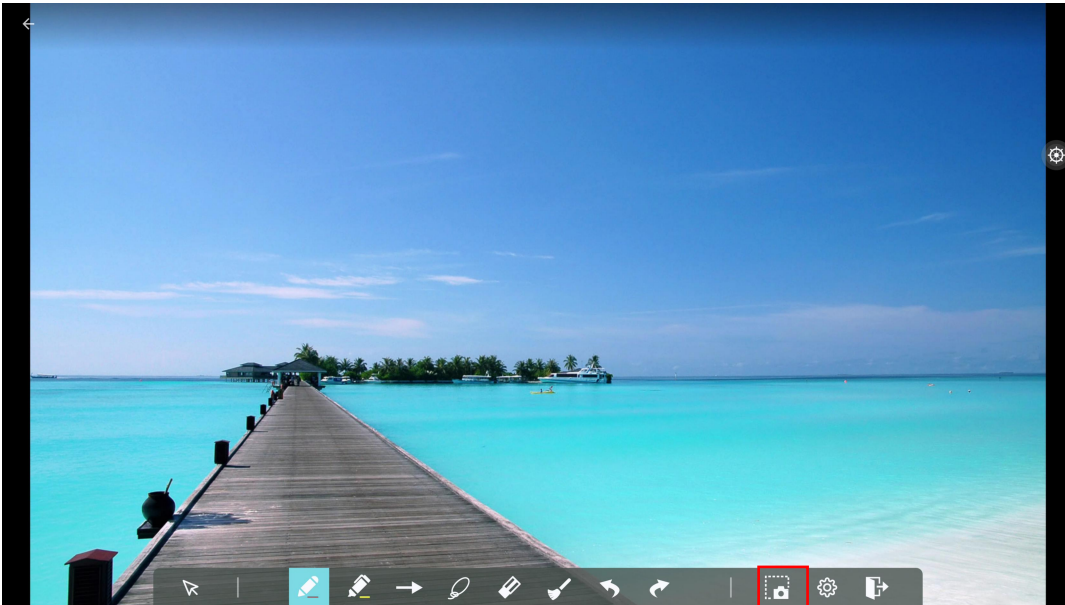
1 2 3 4 5 6 7 8 9 10 11 12

SN	Icon Name	Icon Function
1	Cursor	Tap to return to the current interface from the annotation mode to control the application or interface. When the function is selected, the annotation part is still on the screen.
2	Pen	Tap to use the pen function, and the icon turns into blue. Tap to set the size or color. And the chosen color and the size is indicated at the bottom of their respective icon.
3	Highlighter	Tap to use the highlighter function, and the icon turns into blue. Tap to set the size or color. And the chosen color and size would be shown by the icon.
4	Auto shape	Tap to insert the auto shape. More details refer to Insert auto shape of whiteboard section.

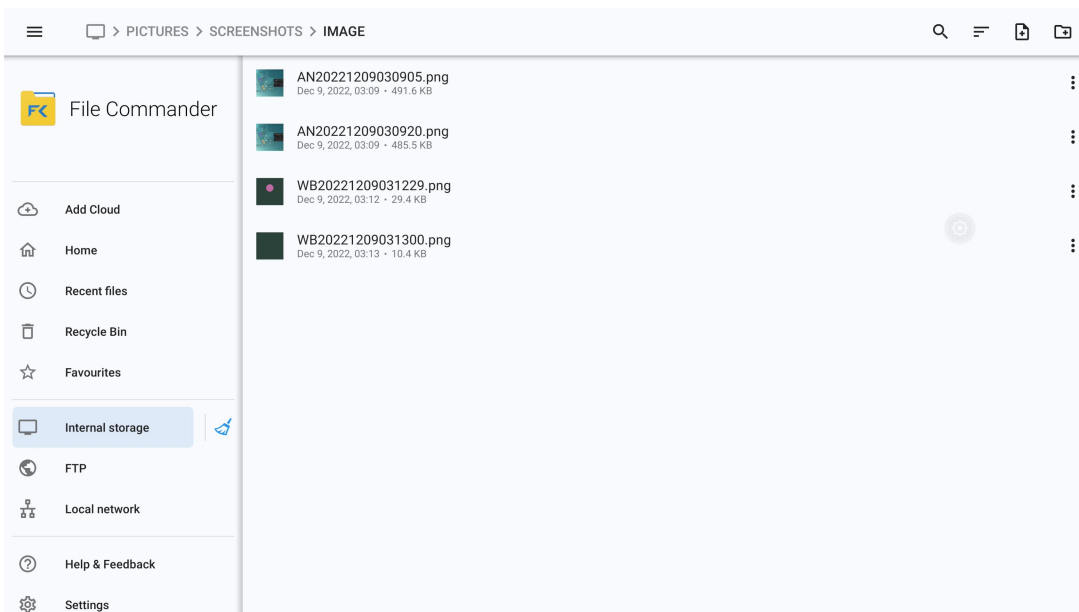
SN	Icon Name	Icon Function
5	Select	Tap it and user could choose the data on the page to move/ zoom in/ zoom out/ rotate by two fingers, and the icon turns into blue.
6	Eraser	Tap to select the eraser function, when it is selected, the icon turns into blue.
7	Clear	Clear all data in this page.
8	Undo	Back to the previous step.
9	Next	Turn to the next step.
10	Screenshot	Tap to take a screen shot, and save the picture to the file management.
11	Object recognition switch	Tap to change the object recognition setting, slide to left to open the object recognition function, slide to right to turn it off.
12	Exit	Tap to exit the annotation mode.

Screenshot

In the annotation mode, tap  to save the current image as a picture. Up to 50 screenshots can be created.



On the Home page, tap **File Management** icon, select "**Internal storage > Pictures > Screenshots > image**" folder to view or get screenshots.

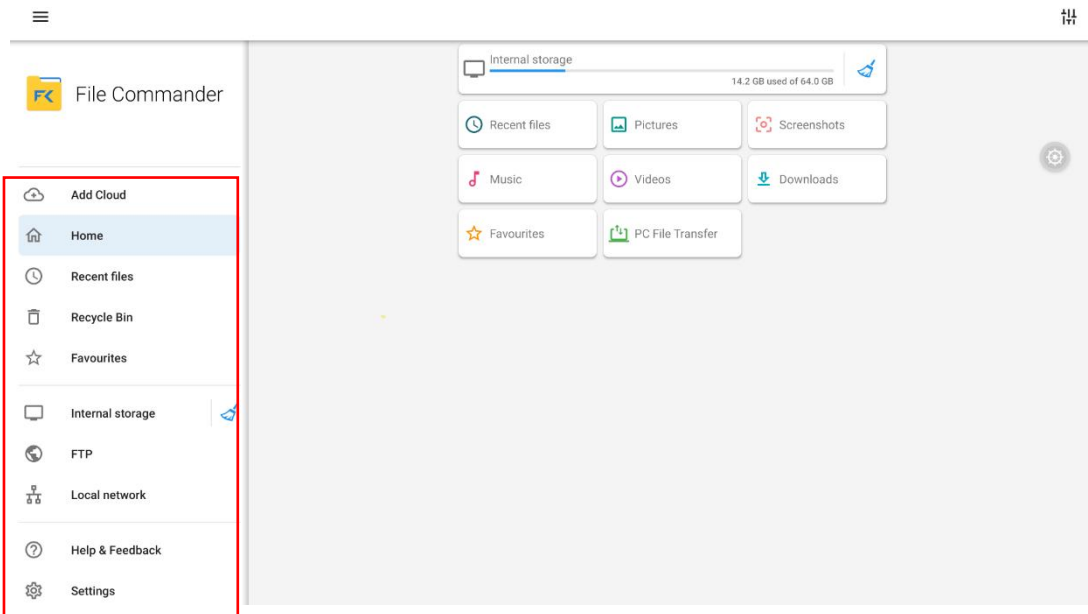


4.4.4 File Management

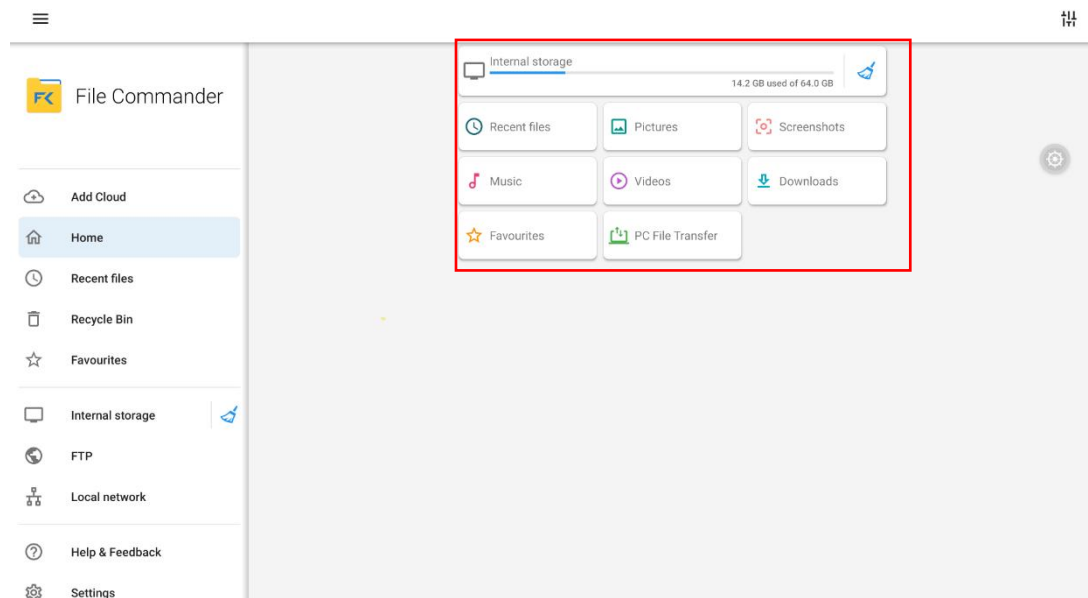
The product supports connection to USB flash memory. In File Viewer application, you can preview all files in the internal storage of the panel and external storage devices connected via USB ports and move, copy, paste, delete, and search for files.

File Preview













In the file Commander, you can tap the submenu on the left to preview what files are on internal storage, external storage devices connected via the USB ports, cloud stored files, FTP uploaded files, and local network files, as shown in the following figure.




Tap the submenu on the right to preview internal storage, recent files, pictures, screenshots, music, videos, downloads, favorites, PC file transfer, tap the icon to view the files.

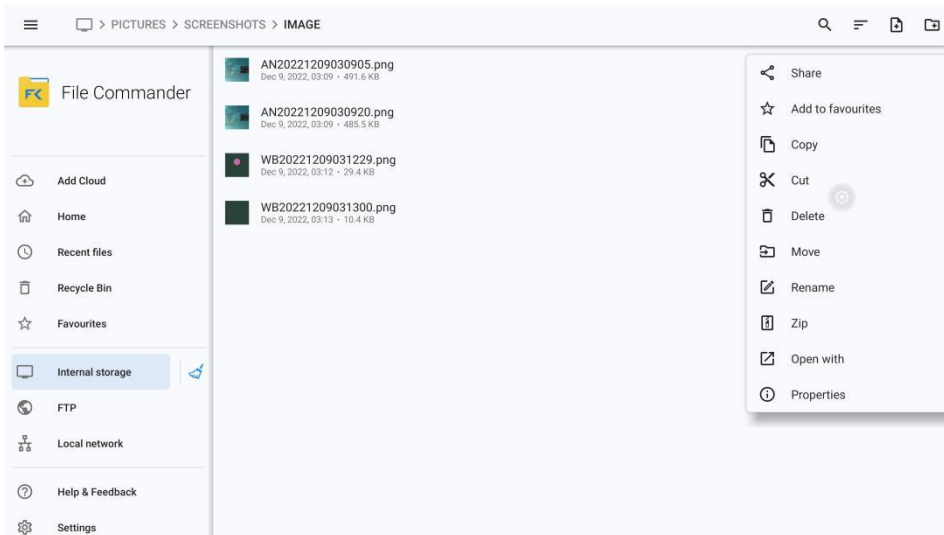


Icons on the top of right corner

Icons	function
	Tap to search the files by files name
	<ul style="list-style-type: none"> The system supports two view modes: list and grid. You can tap  or  view modes. Tap  to display files based on name, type, size, and modification.
	Tap to create new file
	Tap to create new folder
	Tap to paste the selected image
	Tap to delete the selected image
	Tap to cut the image
	Tap to copy the image
	Tap to move the image to other files

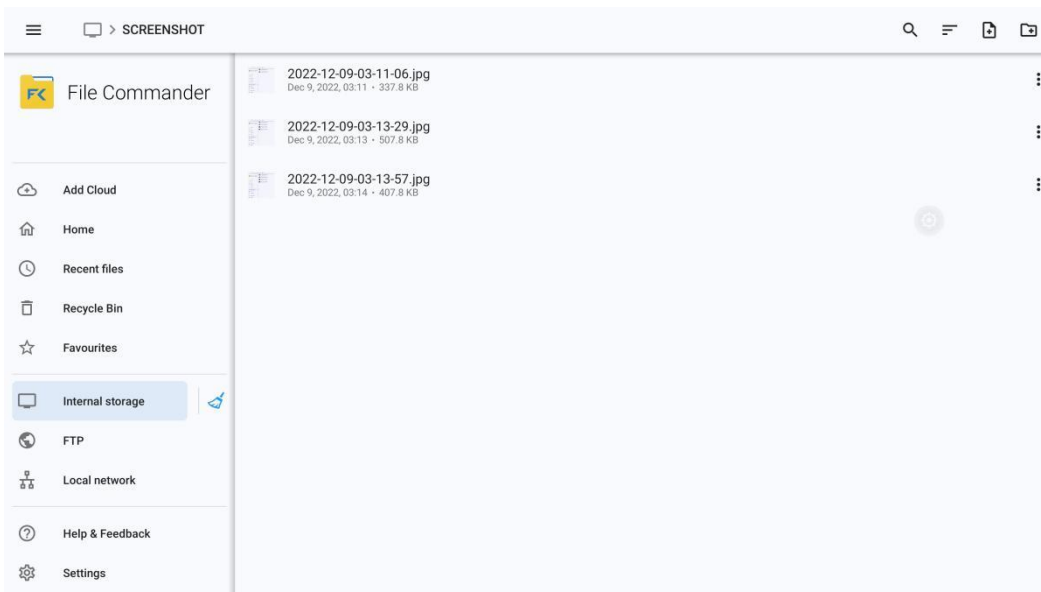
File Operation

In the File Commander. You can create folders according to requirements, select files by long pressing, and set wallpaper/copy/paste/delete. For details on other operation, tap  in the upper right corner for more operation.



File Name

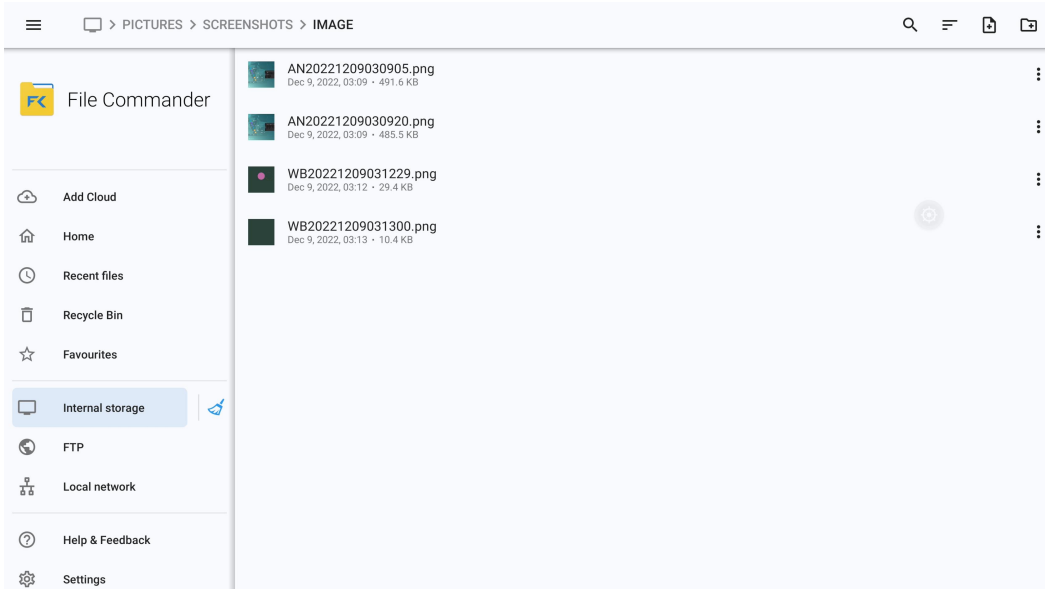
Under the "Internal storage > Screenshot " folder in the File Commander, remote control screenshots of this meeting are saved.



Under the "Internal storage > Pictures > Screenshots" folder in the File Manager, annotation page screenshots and discussion screenshots are saved.




Depending on the screenshots mode, picture naming is different. Picture files are named in the following of prefix + creation file.

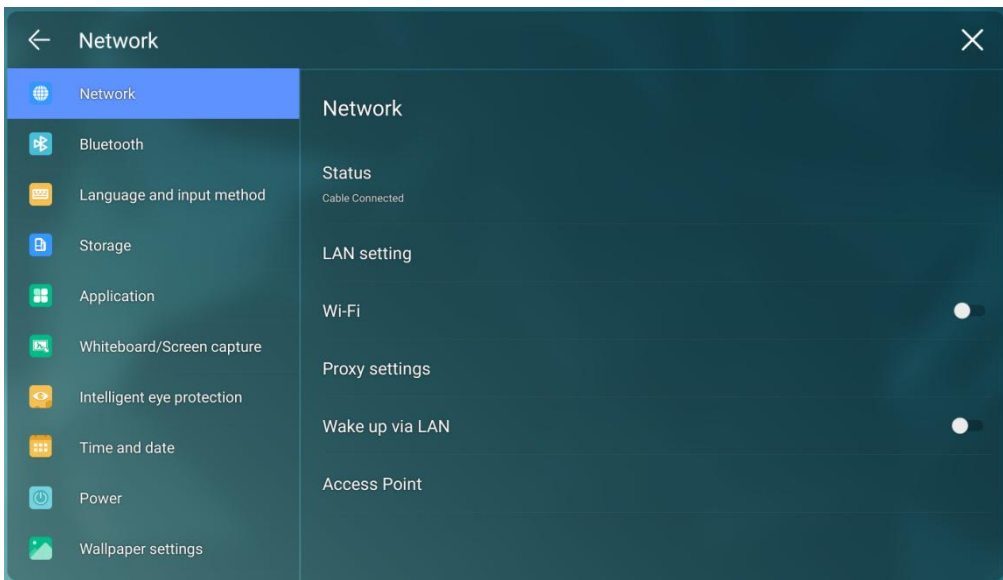
Prefix name rule: WB (discussion mode page), AN (annotation page screenshot).



4.4.5 System Settings

Enter the system setting page using one of the following methods:

- Tap  on the **Home** page.
- Press  on the remote control.
- In the **Quick Setting Menu**, tap the  icon.

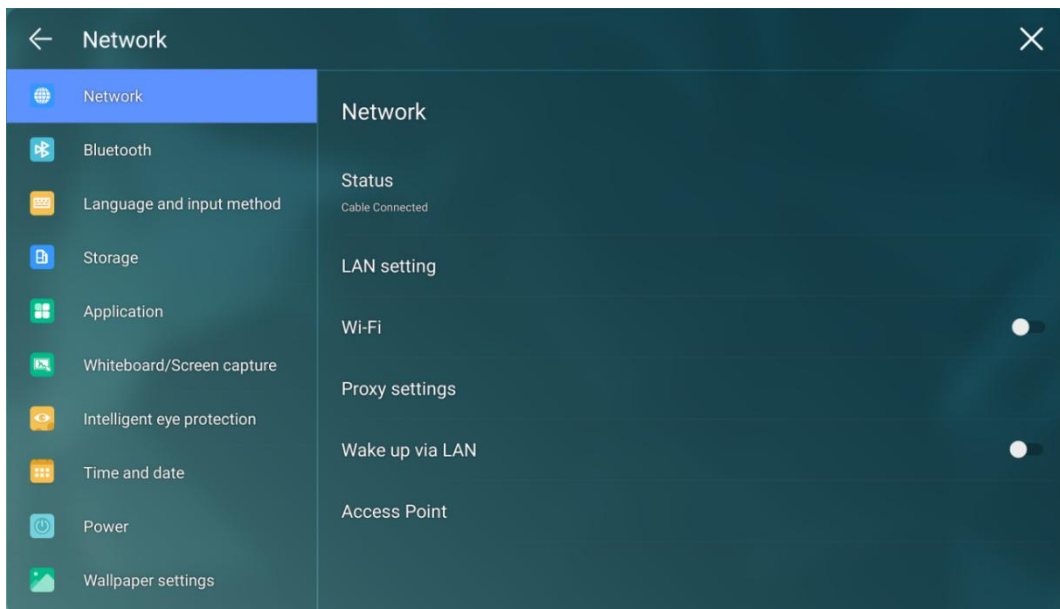


4.4.5.1 Network

Enter the **Network** submenu to set a LAN, enable Wi-Fi, view network information, and enable the

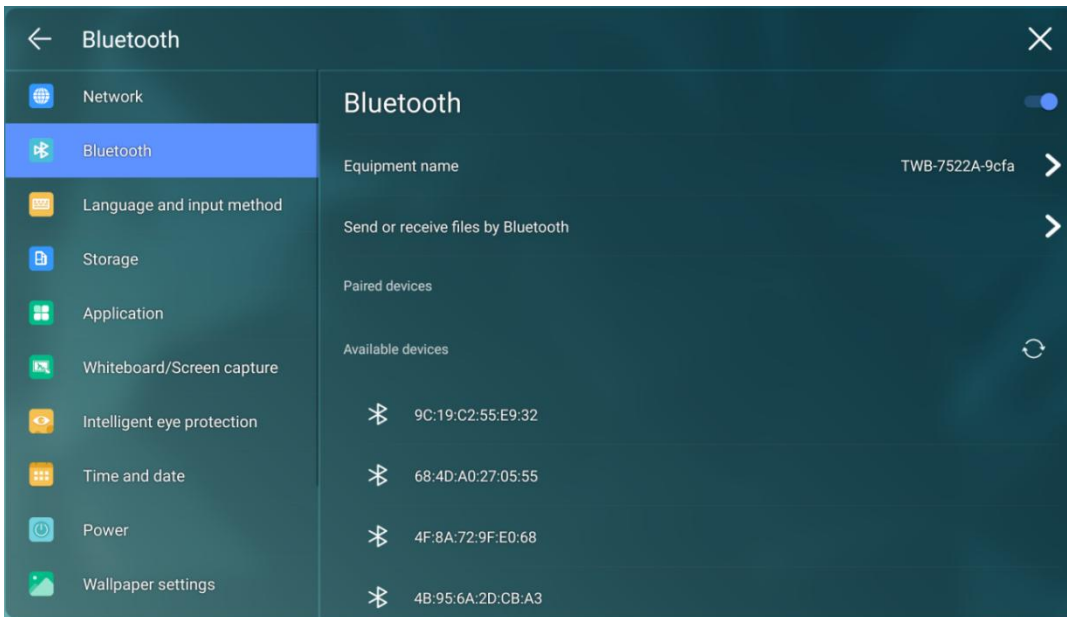
Wake up via LAN function.

- Status: View IP address, MAC address and work time of the screen.
- LAN setting: Automatically obtain the LAN IP address or set static IP address according to requirements.
- Wi-Fi: Tap the corresponding button to enable the Wi-Fi function.
- Proxy Settings: The settings of the proxy server.
- Wake up via LAN: Tap the corresponding button to enable the Wake up via LAN function. Connect the screen and PC to the same LAN using cables, run the Wake up via LAN, and search for the IP address and MAC address that match the screen.
- Access point: The settings of the hotspot.



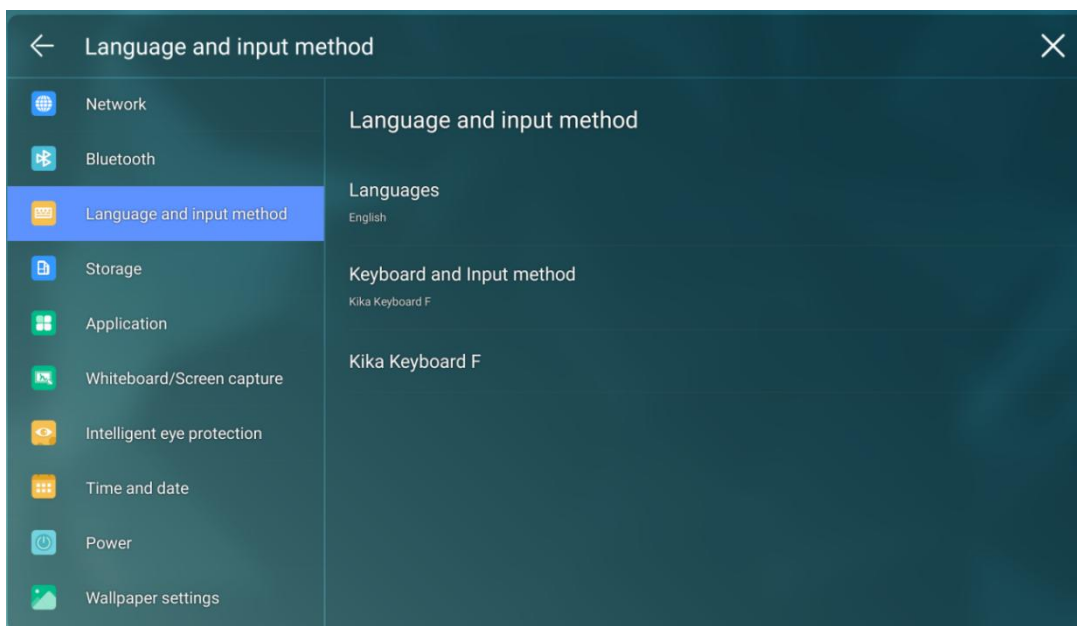
4.4.5.2 Bluetooth

Enter the **Bluetooth** submenu to set panel name, send or receive files by Bluetooth.

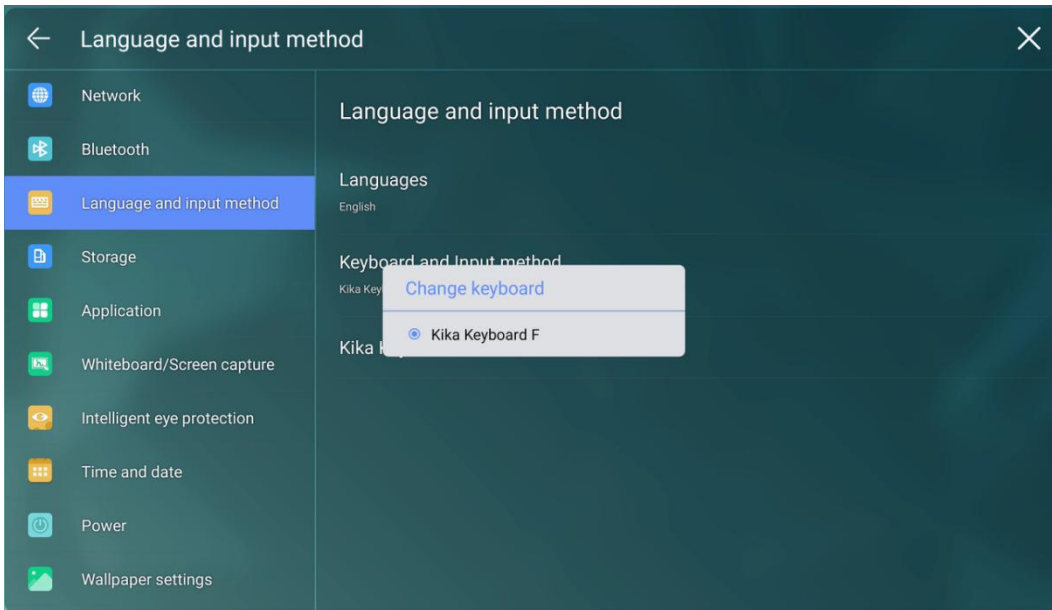


4.4.5.3 Language and Input Method

Enter the **Language & Input Method** submenu to set language and input method.

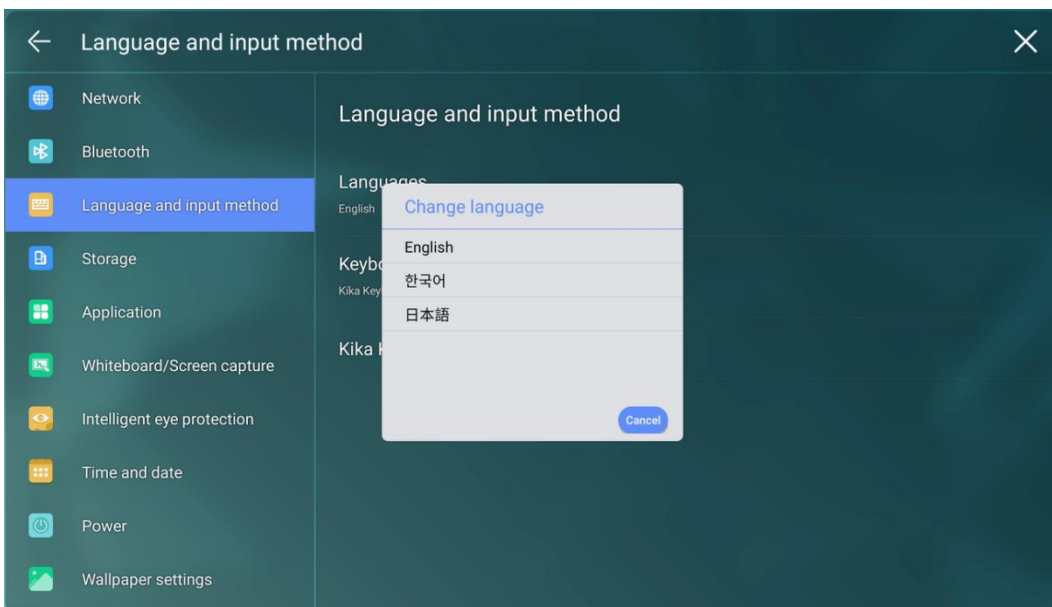


The default input method of the system is Kika Keyboard F, tap **keyboard & Input Method** to show as the following figure.



Setting a Language

Tap **Languages** at the right side. In the **Change language** dialog box that is displayed, select a language.



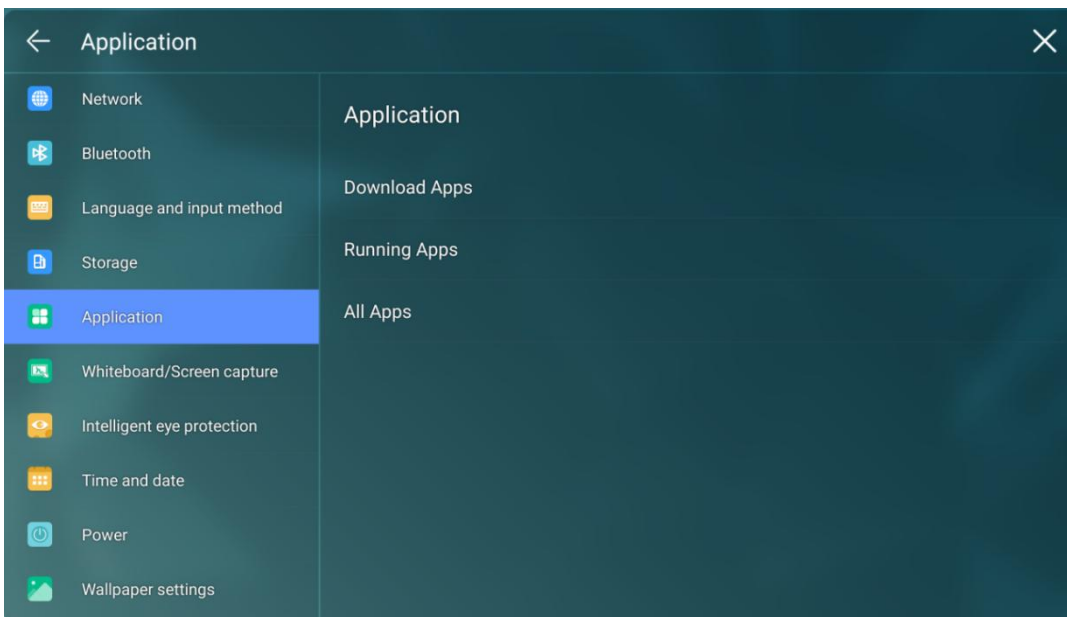
4.4.5.4 Storage

Enter the **Storage** submenu to view space distribution of the internal storage.



4.4.5.5 Applications

Enter the **Apps** submenu to view downloaded applications by type, running applications, and all applications.



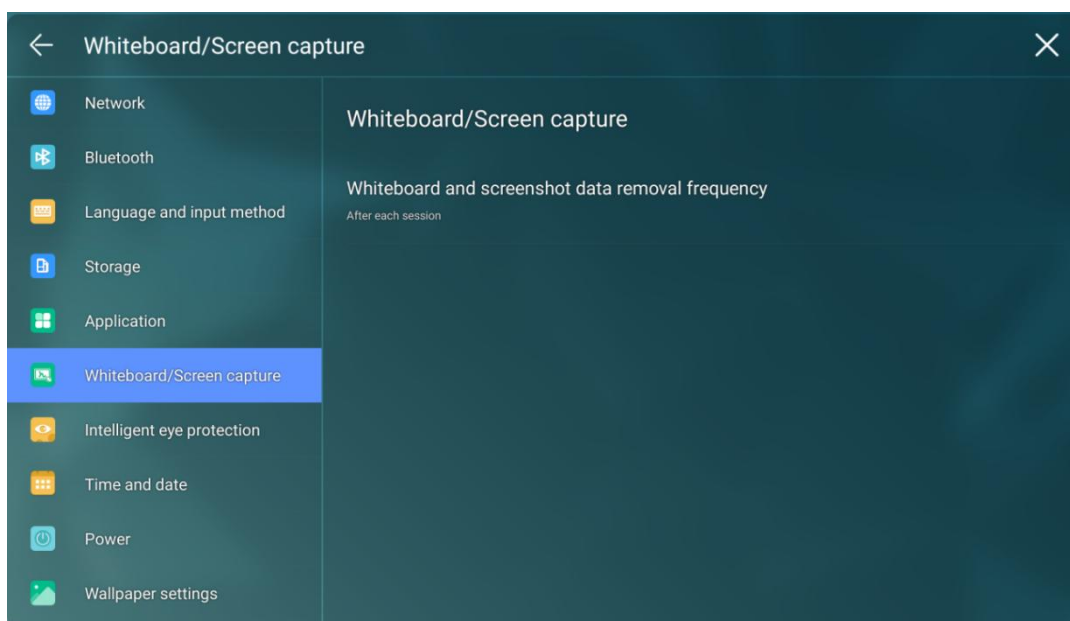
Notes:

Apps download by yourself will appear in download apps files, you can uninstall it in all apps files.

4.4.5.6 Whiteboard/Screen capture

Enter the **Whiteboard/Screen capture** submenu to set automatically clearing the whiteboard data

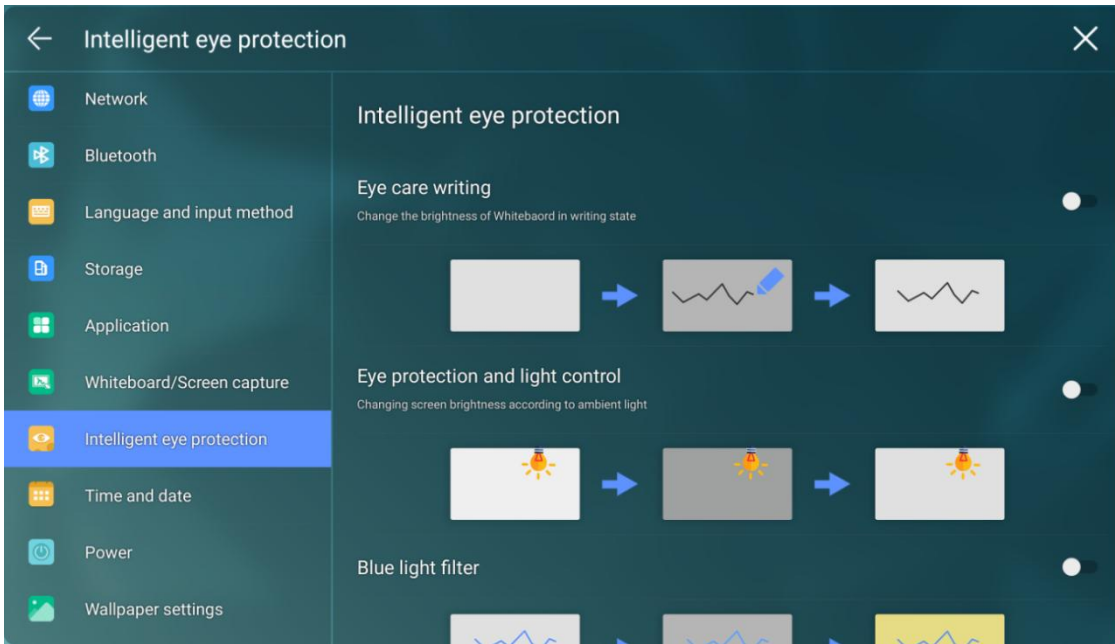
cycle.



4.4.5.7 Intelligent Eye Protection

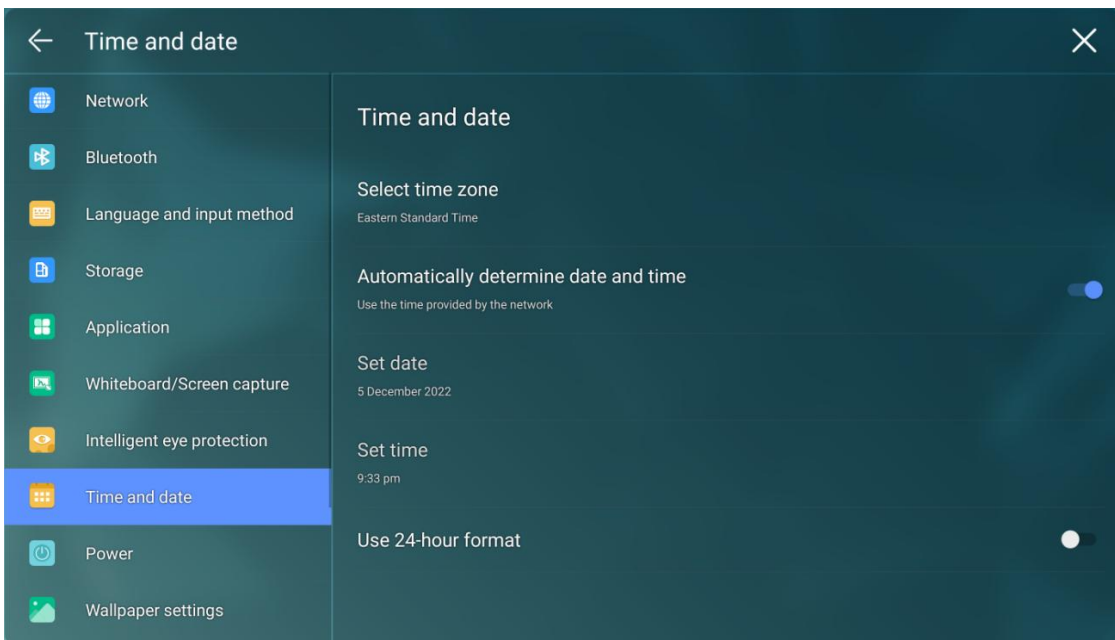
Enter the **Intelligent eye protection** submenu to set **Eye care writing**, **Eye protection and light control** and **Blue light filter**.

- **Eye care writing:** Tap to turn on/off the function. The panel will change the brightness of whiteboard in writing state when the function is on.
- **Eye protection and light control:** Tap to turn on/off the function. The panel will Changing screen brightness according to ambient light when the function is on.
- **Blue light filter:** Tap to turn on/off the function. You can drag the slider to adjust the Filter level only when Blue light filter is on.



4.4.5.8 Time and Date

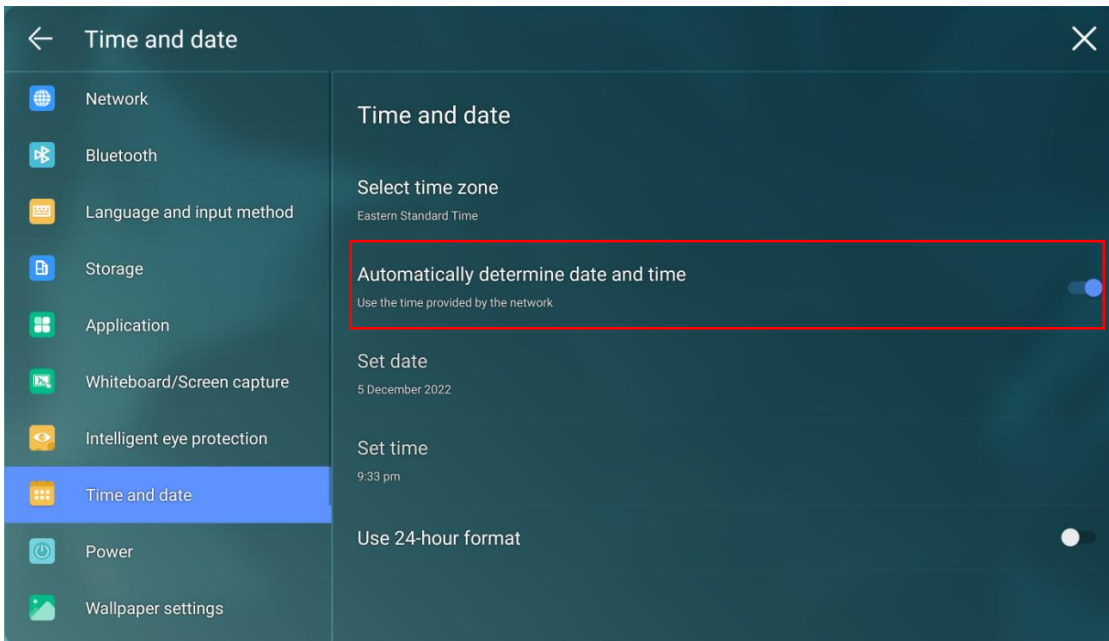
Enter the **Time and Date** submenu to set the date and time. Before setting the date and time, users should tap **Select time zone** to select local time zone.



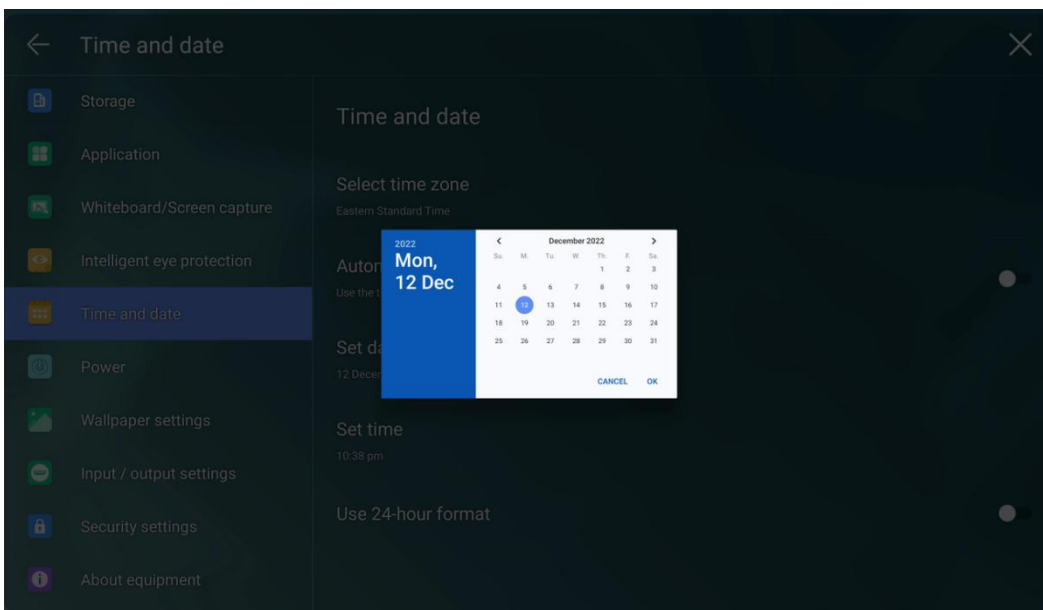
Setting a Date

You can automatically obtain the system date or customize a date.

- To automatically obtain a date, select **Automatic date & time**.



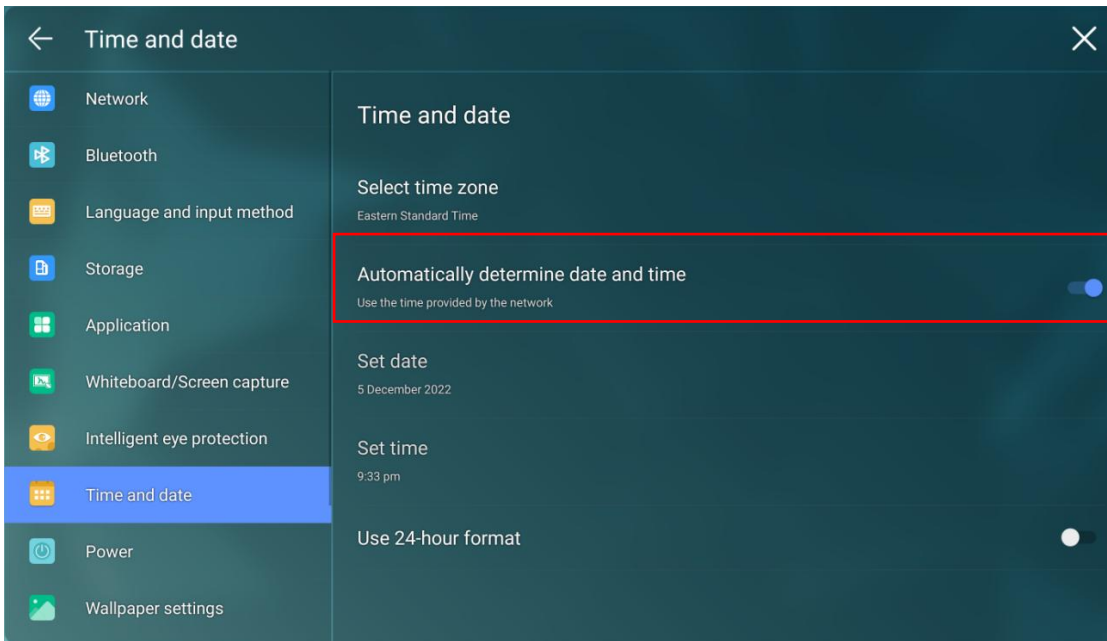
- To customize a date and date format, set them in **Set date**.



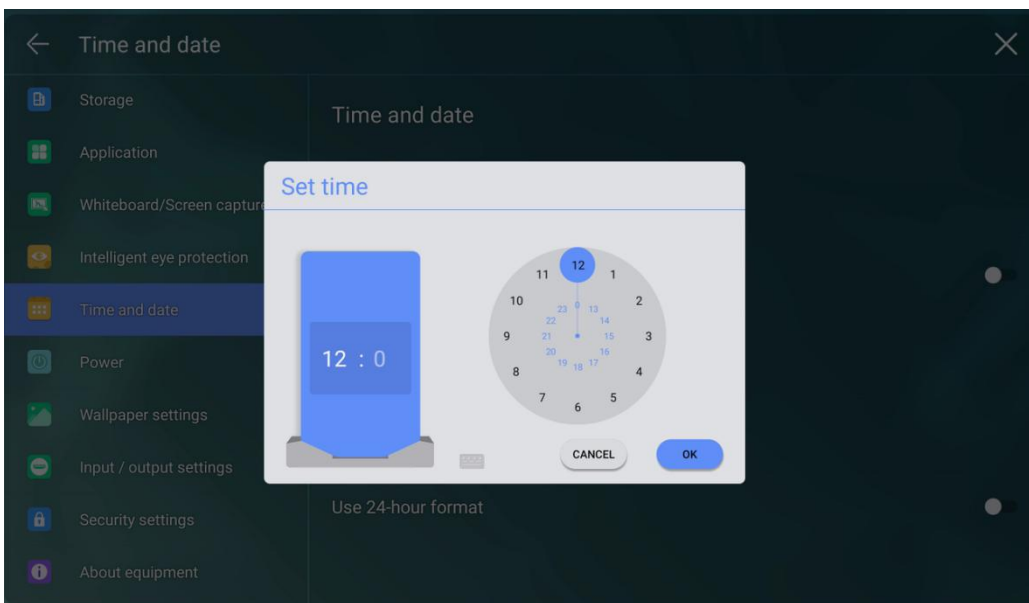
Setting Time

You can automatically obtain the system time or customize time.

- To automatically obtain time, select **Automatic date & time**.



- To customize time and time format, set them in **Set time** and **Use 24-hour format**.



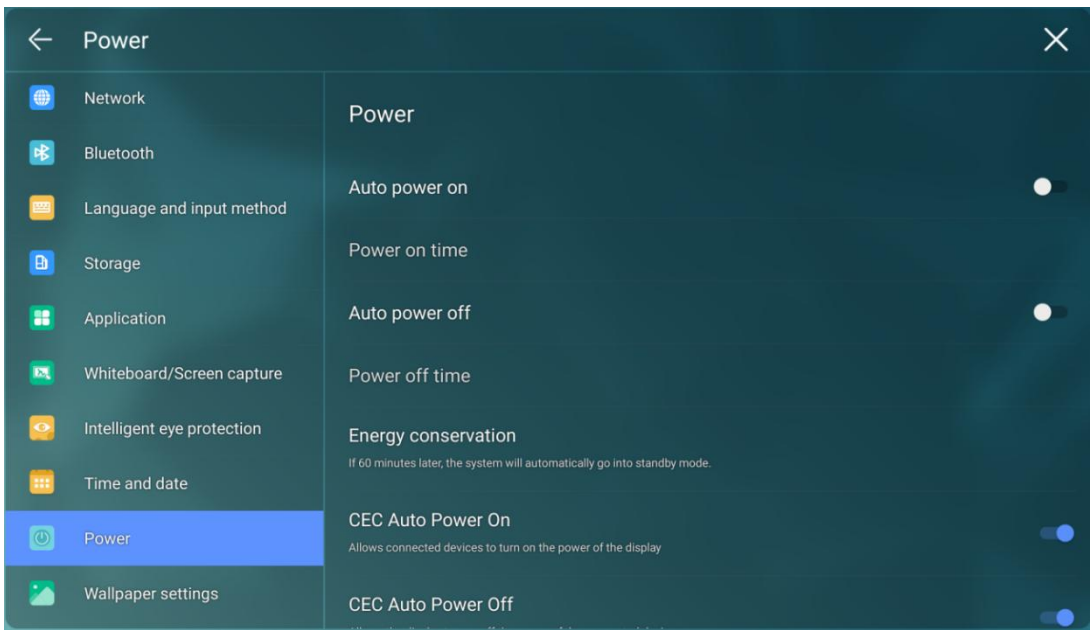
NOTE

Time format will be 24-hours mode only when the **Use 24-hour format** is selected, otherwise time format will be 12 hours mode.

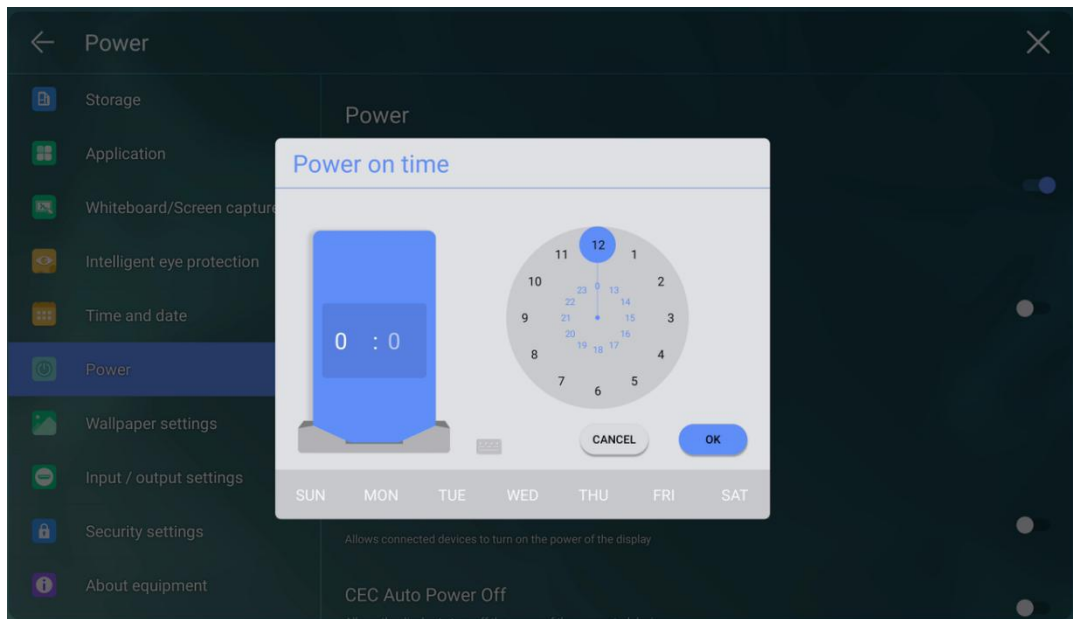
4.4.5.9 Power

Enter the **Power** submenu to set automatic power on/off time, the time for the system to enter the power off mode and the automatic power on/off function of the consumer electronics control (CEC)

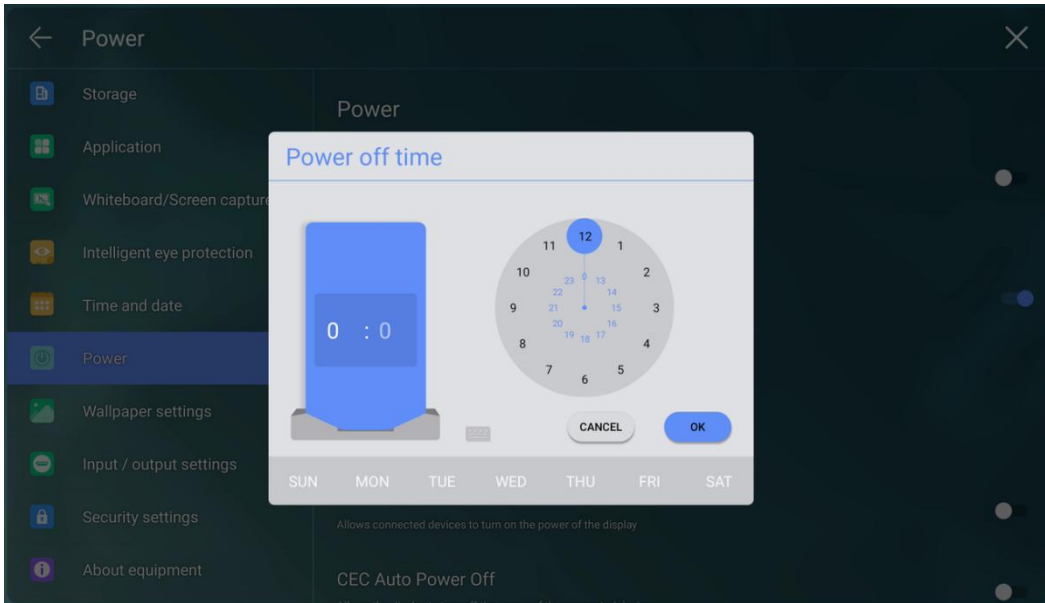
device.



- To set the automatic power on time, select **Auto power on**, and set the power on time in **Power on time**, as shown in the following figure.



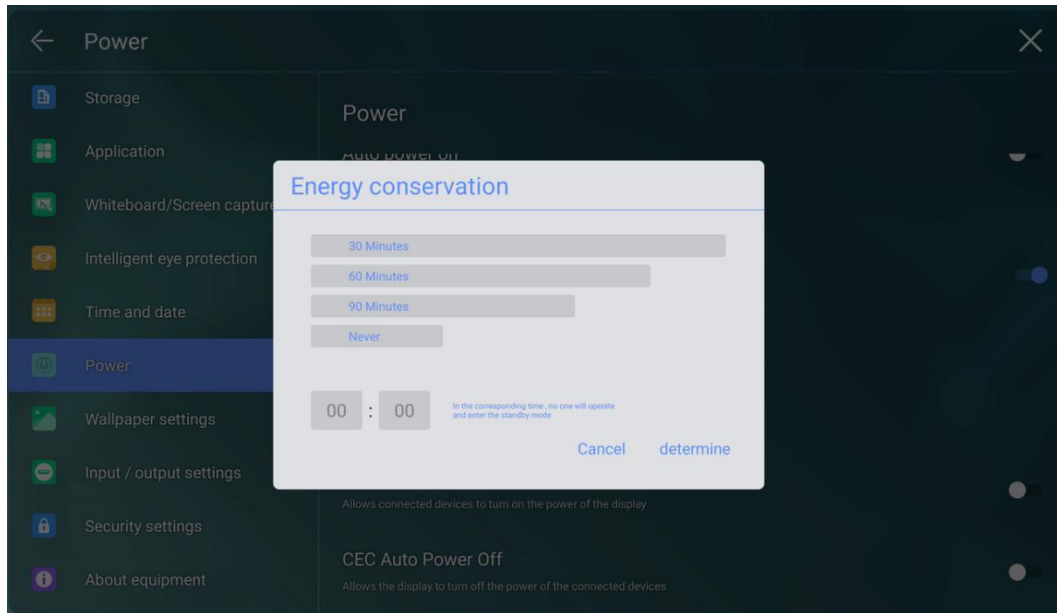
- To set the automatic power off time, select **Auto power off**, and set the power off time in **Power off time**, as shown in the following figure.



- To set the energy saving time, tap **Energy saving**. In the dialog box displayed, set screen lock time, for example, if you set it as 120s, then the display will go into screen lock mode when the device stays idle for 120 seconds. In addition, you can set device power-off time in screen-lock mode, for example if you set it as 30min, then device will power off automatically if there is no operation on screen-lock mode for 30 min. The duration can be set to **30 MIN**, **60 MIN**, **90 MIN**, or **NEVER**. You can also customize this duration and the range is 3 minutes to 480 minutes.

 **NOTE**


NEVER indicates that the automatic power off mode function is not enabled.

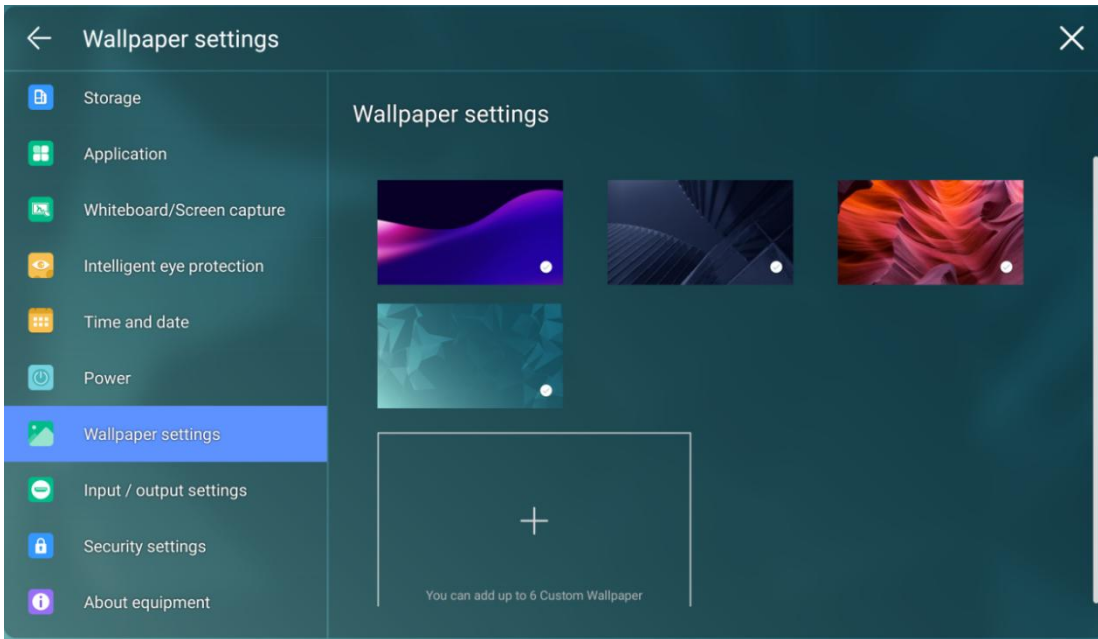


- After the **CEC auto power on** function is enabled and the screen is connected with the CEC device via the HDMI port, the screen automatically starts if the CEC device starts and the screen receives a CEC power-on command.
- After the **CEC auto power off** function is enabled and the screen is connected with the CEC device via the HDMI port, the CEC device automatically stops if the screen stops and the CEC device receives a CEC power off command.

4.4.5.10 Wallpaper Setting

Enter the **Wallpaper Setting** submenu to set background.

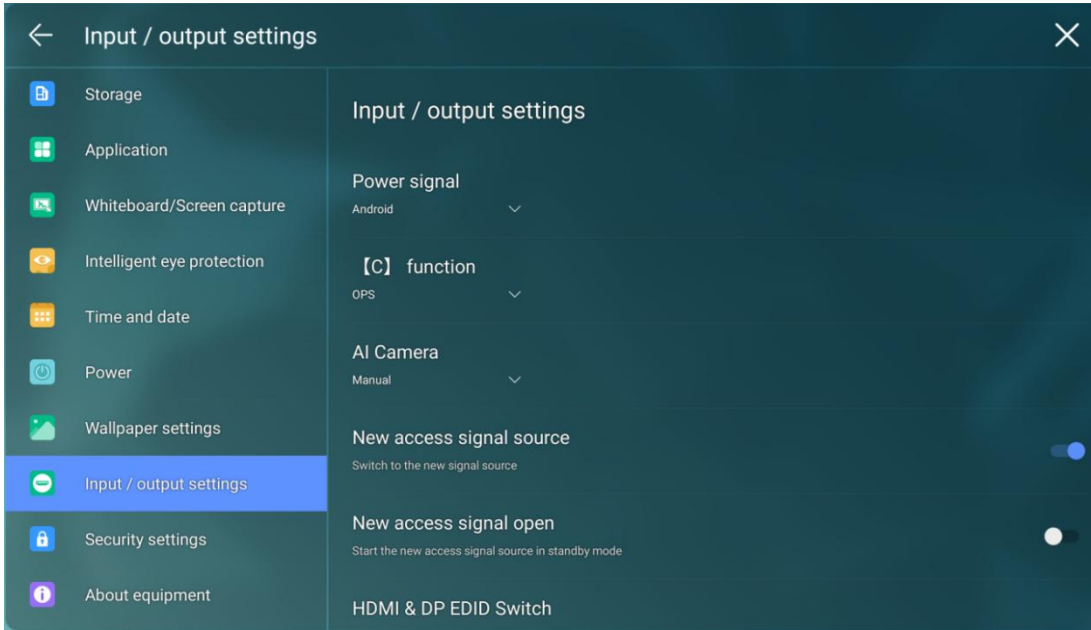
In the page, tap + to select the picture locally as the wallpaper. Tap  to delete the selected picture.



4.4.5.11 Input/Output Setting

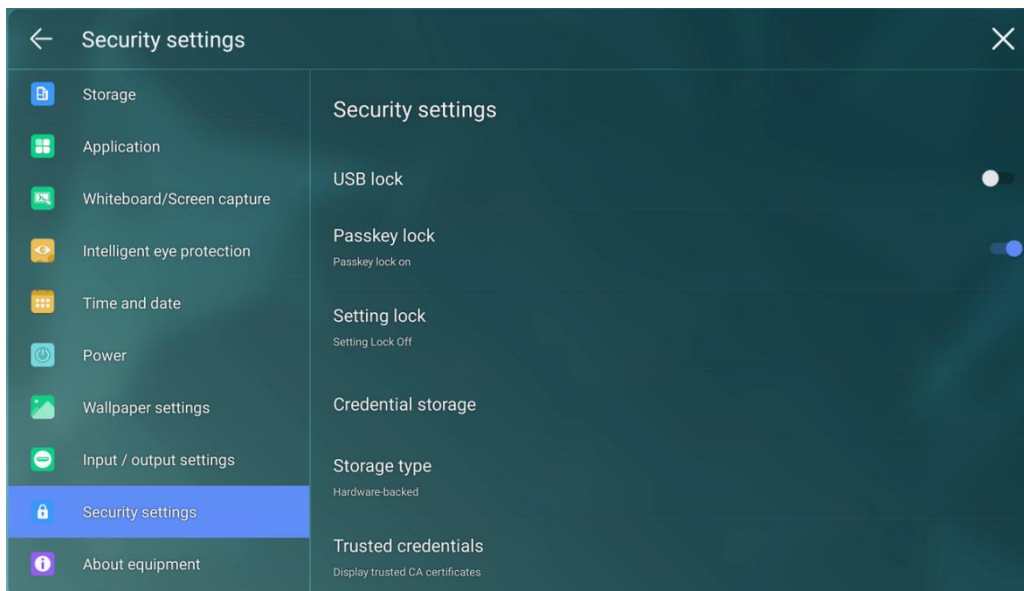
Enter the **Input/Output Setting** submenu to set the favorite source, starting source, new signal source, and image output resolution through the HDMI port.

- **Power signal:** Set the signal source entered after power on(Android>Windows>Last Source).
- **C function:** Set the commonly used function for C button on the front panel. Default is Freeze, options included: Visualizer/Screenshot/Sound only/Lock touch/Built-in PC/HDMI Front/HDMI1/HDMI2/DP/VGA/Type-C/Annotation/Task preview/Freeze.
- **AI camera:** 1.Normal; 2.Auto_framing; 3.Speaker.
- **New access signal source:** After the function is enabled, the system can automatically switch to the screen once a new signal source is connected to it.
- **New access signal open:** After the function is enabled, the panel will wake up and enter the new signal source once a new signal source is connected to it.
- **HDMI & DP EDID switch:** Set the HDMI EDID and DP EDID, 1.4 and 2.0 can be chosen.



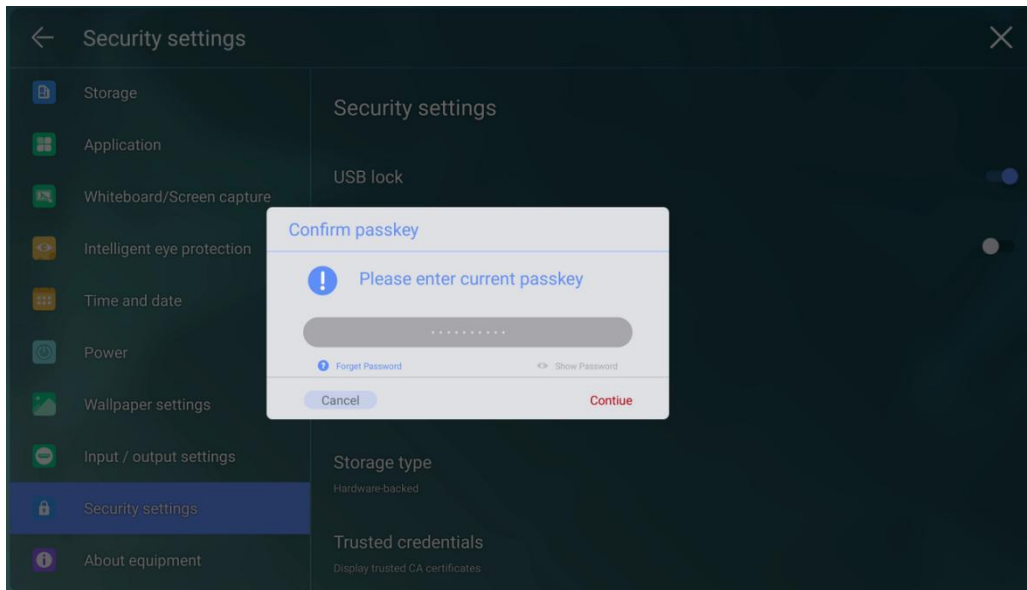
4.4.5.12 Security Setting

Enter the **Security Setting** submenu to set USB lock, Passkey lock, Setting lock and view credential storage.



- **USB Lock:** When you enable the USB lock, under the smart system, only USB disk will be locked, user will not able to read the data from the USB disk, but USB mouse and keyboard could be used. Under the external source, all the USB devices will be blocked.
- **Passkey lock:** Set whether you need to enter the password and modified password from the

Start page to the Home page. The password is only Limited to four digits maximum. English letters are not allowed.

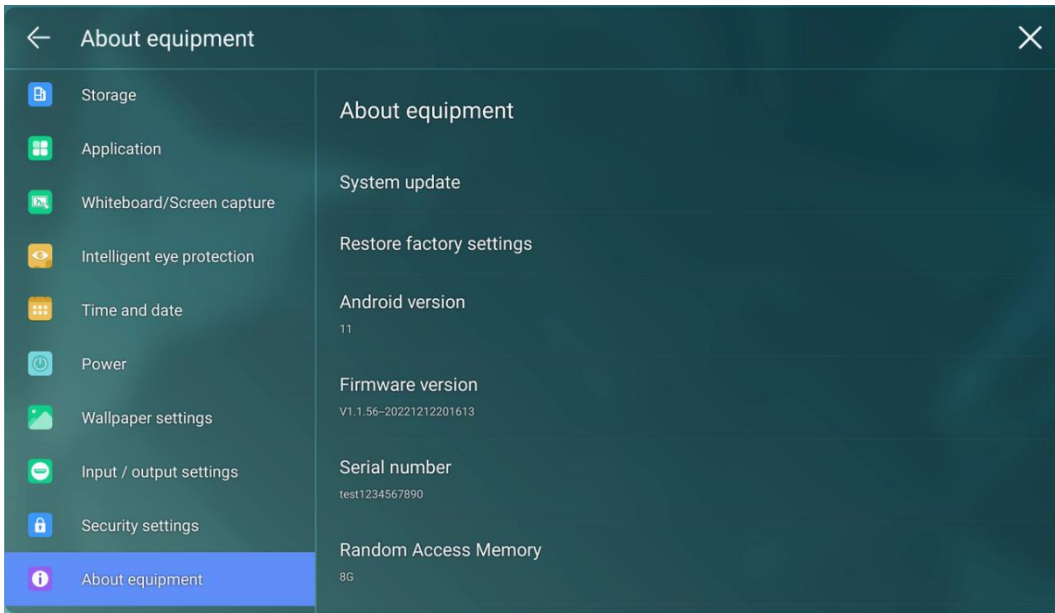


Note: When you forgot the password, tap **Forgot passkey** under the **Enter passkey** page to enter the **Reset passkey** page, enter the **↑↑↓↓↵↵** command with the remote control and tap **OK** again, the original password will be invalid after entering it.


- Settings lock: When you enable the setting lock, the setting-related icons will be displayed as locked, if you want to do the setting, need to enter the admin mode and turn it off.
- Encryption & credentials: Tap the icon to view the Encrypt device and user credentials, install a certificate and clear credentials.

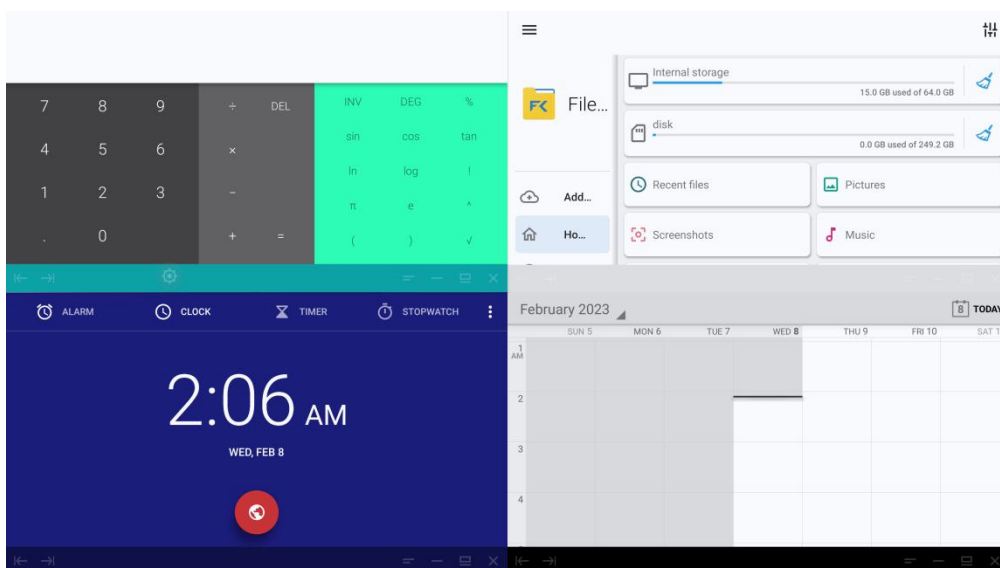
4.4.5.13 About

Enter the **About** submenu to update system or reset to the factory data, you also can view firmware, system version information and serial number.


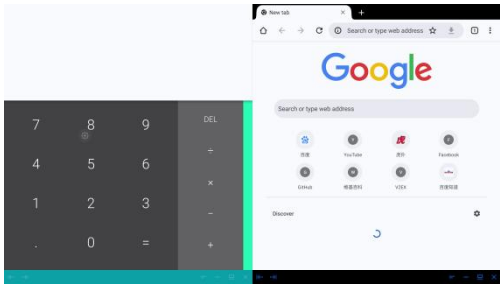


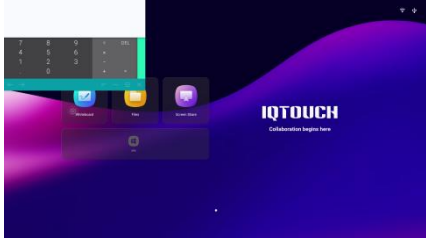




4.4.6 Multi-window

The multi-window function can display multiple applications at the same time, and the window of each application can be freely dragged and modified. In the function bar at the bottom of the HOME page, tap , and in the expanded secondary window, select the APP that needs multiple windows (only some applications support multiple windows).






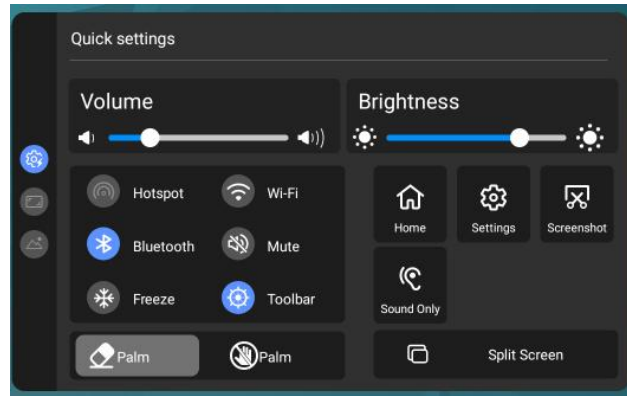
Icon	Functions
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	<p>Tap the icon and the window will be automatically placed in the left half of the screen.</p> 
	<p>Tap the icon and the window will be automatically placed in the right half of the screen.</p>
	<p>Tap to minimize the window</p> 
	<p>Tap to restore the window to its original size</p>
	<p>Tap to close the window</p>







5. Quick Setting Menu

5.1 Quick Setting Menu

Tap  open in the sidebar, tap  or  to enter mode settings, as shown in the following figure.



Icon	Functions
	Drag the slider to adjust the volume.
	Drag the slider to adjust the brightness.
	Tap the icon to enable or disable the hotspot.
	Tap the icon to enable or disable the embedded operating system Wi-Fi.
	Tap the icon to enable or disable the Bluetooth.
	Tap the icon to enable the Freeze Function.
	Tap the icon to mute/unmute.
	Tap the icon to show or hide the toolbar.
	Tap the icon to enable or disable Palm eraser.
	Tap the icon to enable or disable Palm Rejection.
	Tap the icon to return to Home page.

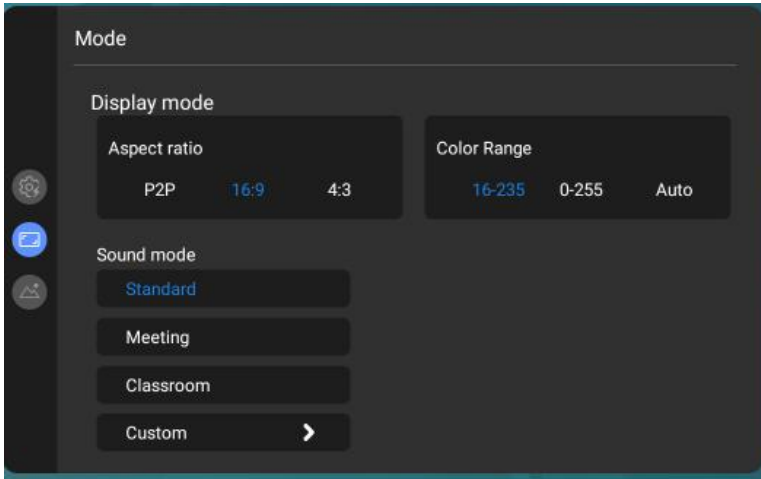
	Tap the icon to enter the settings page.
	Tap the icon to access the screenshot.
	Tap the icon to enable sound only mode. In Sound only mode, the screen LCD displays and LED backlight turns off, other functions will continue to work as normal.
	Tap the icon and choose an app to use in split screen.
	Tap the icon to lock/unlock the screen.
	Tap the icon to log out of your profile.

Display Setting

- **Aspect Ratio:** Tap ◀/▶ to set the aspect ratio the screen display. Options include 16:9, Point-to-point and 4:3.
- **Color Range:** Tap ◀/▶ to set the color range. Options include 0-255, 16-235, and auto.

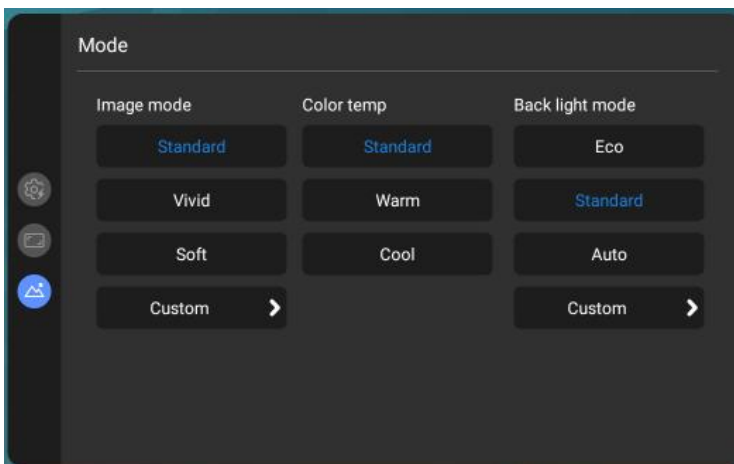
Sound mode

- Tap to set the sound mode (Standard > Meeting > Classroom > Custom). Only in custom mode, you can drag the slider to adjust the Bass, Treble, Balance respectively.



Picture Setting

- **Image mode:** Tap to set the image mode (Standard > Vivid > Soft > Custom). Only in custom mode, you can drag the slider to adjust the Brightness, Contrast, Hue, Saturation or Sharpness respectively.
- **Color temperature:** Tap to set the Color temperature (Standard > Warm > Cool).
- **Back light mode:** Tap to select the back light (ECO > Standard > Auto > Custom). Only in custom mode, you can drag the slider to adjust the Brightness respectively.



5.2 Automatically Power Off

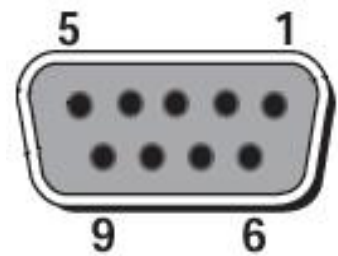
If the screen is left idle for a specified duration, it will be locked to protect your privacy. Choose Settings > Power Setting to set the duration. For details on the setting method, see "".

After the screen is locked, if it is operated again within 120 seconds, the screen is unlocked. Otherwise, the screen enters the power off mode.

6.Serial Port

RS232 communication cable (please use cross data cables)

PIN	This Device	Computer
1	NC	NC
2	RXD0	TXD0
3	TXD0	RXD0
4	NC	NC
5	GND	GND
6	NC	NC
7	NC	NC
8	NC	NC
9	NC	NC
Cover	GND	GND



RS232 port of panel

Connect RS-232 port to the PC or controlling product. Enable RS-232 serial port connection and complete the following configuration.

Port: COM1 (Set according to PC or controlling product's port number)			
Baud rate	19200	Odd/even check	None
Data bits	8	Stop bit	1

The following tables list controlling codes, querying codes and return codes.

Function	Controlling codes	Return codes
Power on	7F 08 99 A2 B3 C4 02 FF 01 00 CF	7F 09 99 A2 B3 C4 02 FF 01 00 01 CF
Power off	7F 08 99 A2 B3 C4 02 FF 01 01 CF	7F 09 99 A2 B3 C4 02 FF 01 01 01 CF

Mute/Unmute	7F 08 99 A2 B3 C4 02 FF 01 02 CF	7F 09 99 A2 B3 C4 02 FF 01 02 01 CF
Signal source	7F 08 99 A2 B3 C4 02 FF 01 06 CF	7F 09 99 A2 B3 C4 02 FF 01 06 01 CF
Enable whiteboard	7F 08 99 A2 B3 C4 02 FF 01 07 CF	7F 09 99 A2 B3 C4 02 FF 01 07 01 CF
Display status	7F 08 99 A2 B3 C4 02 FF 01 09 CF	7F 09 99 A2 B3 C4 02 FF 01 09 01 CF
HDMI front / HDMI 1	7F 08 99 A2 B3 C4 02 FF 01 0A CF	7F 09 99 A2 B3 C4 02 FF 01 0A 01 CF
HDMI rear 1 / HDMI 2	7F 08 99 A2 B3 C4 02 FF 01 52 CF	7F 09 99 A2 B3 C4 02 FF 01 52 01 CF
HDMI rear 2 / HDMI 3	7F 08 99 A2 B3 C4 02 FF 01 53 CF	7F 09 99 A2 B3 C4 02 FF 01 53 01 CF
VGA / USB-C (Front)	7F 08 99 A2 B3 C4 02 FF 01 54 CF	7F 09 99 A2 B3 C4 02 FF 01 54 01 CF
USB-C (Rear)	7F 08 99 A2 B3 C4 02 FF 01 55 CF	7F 09 99 A2 B3 C4 02 FF 01 55 01 CF
Internal PC	7F 08 99 A2 B3 C4 02 FF 01 38 CF	7F 09 99 A2 B3 C4 02 FF 01 38 01 CF
Internal SDM	7F 08 99 A2 B3 C4 02 FF 01 39 CF	7F 09 99 A2 B3 C4 02 FF 01 39 01 CF
DP	7F 08 99 A2 B3 C4 02 FF 01 56 CF	7F 09 99 A2 B3 C4 02 FF 01 56 01 CF
Page up	7F 08 99 A2 B3 C4 02 FF 01 13 CF	7F 09 99 A2 B3 C4 02 FF 01 13 01 CF
Page down	7F 08 99 A2 B3 C4 02 FF 01 14 CF	7F 09 99 A2 B3 C4 02 FF 01 14 01 CF
VOL -	7F 08 99 A2 B3 C4 02 FF 01 17 CF	7F 09 99 A2 B3 C4 02 FF 01 17 01 CF
VOL +	7F 08 99 A2 B3 C4 02 FF 01 18 CF	7F 09 99 A2 B3 C4 02 FF 01 18 01 CF
Menu	7F 08 99 A2 B3 C4 02 FF 01 1B CF	7F 09 99 A2 B3 C4 02 FF 01 1B 01 CF

Home page	7F 08 99 A2 B3 C4 02 FF 01 1C CF	7F 09 99 A2 B3 C4 02 FF 01 1C 01 CF
Return (exit)	7F 08 99 A2 B3 C4 02 FF 01 1D CF	7F 09 99 A2 B3 C4 02 FF 01 1D 01 CF
OK	7F 08 99 A2 B3 C4 02 FF 01 2B CF	7F 09 99 A2 B3 C4 02 FF 01 2B 01 CF
←	7F 08 99 A2 B3 C4 02 FF 01 2C CF	7F 09 99 A2 B3 C4 02 FF 01 2C 01 CF
→	7F 08 99 A2 B3 C4 02 FF 01 2D CF	7F 09 99 A2 B3 C4 02 FF 01 2D 01 CF
↑	7F 08 99 A2 B3 C4 02 FF 01 2E CF	7F 09 99 A2 B3 C4 02 FF 01 2E 01 CF
↓	7F 08 99 A2 B3 C4 02 FF 01 2F CF	7F 09 99 A2 B3 C4 02 FF 01 2F 01 CF
Set volume	7F 08 99 A2 B3 C4 02 FF 05 XX CF	7F 09 99 A2 B3 C4 02 FF 05 XX 01 CF Note: XX indicates the value of volume (0-100), corresponding to the hexadecimal number system (00 - 64).
Query the firmware version number	7F 08 99 A2 B3 C4 02 FF 01 3D CF	7F 09 99 A2 B3 C4 02 FF 01 3D XX CF Note: XX indicates version.
Set display mode	7F 08 99 A2 B3 C4 02 FF 06 XX CF	7F 09 99 A2 B3 C4 02 FF 06 XX 01 CF Note: XX indicates the mode. 00-standard, 01-ECO mode, 02-custom, 03-auto.
Enable the annotation function	7F 08 99 A2 B3 C4 02 FF 01 40 CF	7F 09 99 A2 B3 C4 02 FF 01 40 01 CF
Increase backlight brightness	7F 08 99 A2 B3 C4 02 FF 01 47 CF	7F 09 99 A2 B3 C4 02 FF 01 47 01 CF

Decrease backlight brightness	7F 08 99 A2 B3 C4 02 FF 01 48 CF	7F 09 99 A2 B3 C4 02 FF 01 48 01 CF
Set the value of backlight brightness	7F 08 99 A2 B3 C4 02 FF 09 XX CF	7F 09 99 A2 B3 C4 02 FF 09 XX 01 CF Note: XX indicates the value of backlight brightness (1- 100), corresponding to the hexadecimal number system (01-64).
Switch backlight	7F 08 99 A2 B3 C4 02 FF 01 15 CF	7F 09 99 A2 B3 C4 02 FF 01 15 XX CF Note: <ul style="list-style-type: none"> • XX = 01 indicates the backlight is on. • XX = 00 indicates the backlight is off.
Switch to screen lock	7F 08 99 A2 B3 C4 02 FF 01 57 CF	7F 09 99 A2 B3 C4 02 FF 01 57 01 CF
Screenshot	7F 08 99 A2 B3 C4 02 FF 01 1F CF	7F 09 99 A2 B3 C4 02 FF 01 1F 01 CF
Settings	7F 08 99 A2 B3 C4 02 FF 01 20 CF	7F 09 99 A2 B3 C4 02 FF 01 20 01 CF
Freeze ON/OFF toggle	7F 08 99 A2 B3 C4 02 FF 01 3B CF	7F 09 99 A2 B3 C4 02 FF 01 3B 01 CF
Freeze On	7F 09 99 A2 B3 C4 02 FF 0B 00 CF	7F 09 99 A2 B3 C4 02 FF 0B 00 01 CF
Freeze Off	7F 09 99 A2 B3 C4 02 FF 0B 01 CF	7F 09 99 A2 B3 C4 02 FF 0B 01 01 CF
Mute On	7F 09 99 A2 B3 C4 02 FF 0F 00 CF	7F 09 99 A2 B3 C4 02 FF 0F 00 01 CF
Mute Off	7F 09 99 A2 B3 C4 02 FF 0F 01 CF	7F 09 99 A2 B3 C4 02 FF 0F 01 01 CF
Switch Safety Lock On	7F 09 99 A2 B3 C4 02 FF 0D 01 CF	7F 09 99 A2 B3 C4 02 FF 0D 01 01 CF

Switch Safety Lock Off	7F 09 99 A2 B3 C4 02 FF 0D 00 CF	7F 09 99 A2 B3 C4 02 FF 0D 00 01 CF
Switch Backlight On	7F 09 99 A2 B3 C4 02 FF 0E 01 CF	7F 09 99 A2 B3 C4 02 FF 0E 01 01 CF
Switch Backlight Off	7F 09 99 A2 B3 C4 02 FF 0E 00 CF	7F 09 99 A2 B3 C4 02 FF 0E 00 01 CF
Set Display message on the OSD	7F 09 99 A2 B3 C4 02 FF 1A XX CF	7F 09 99 A2 B3 C4 02 FF 1A 00 XX CF Note: <ul style="list-style-type: none"> • XX = 01 indicates set OSD OK. • XX = 00 indicates set OSD failed.

Function	Querying codes	Return codes
Power supply	7F 08 99 A2 B3 C4 02 FF 01 37 CF	7F 09 99 A2 B3 C4 02 FF 01 37 XX CF Notes: XX indicates the power on/off state. XX = 01: power on state; XX = 00: power off state.
Speaker	7F 08 99 A2 B3 C4 02 FF 01 82 CF	7F 09 99 A2 B3 C4 02 FF 01 82 XX CF Notes: 01: mute; 00: non-mute.
Current signal source	7F 08 99 A2 B3 C4 02 FF 01 50 CF	7F 09 99 A2 B3 C4 02 FF 01 50 XX CF Notes: Smart system = 30; PC = 17; SDM = 18; DP = 20; HDMI rear 1 = 1F; HDMI Rear 2 = 1E; VGA/USB-C Front = 00;

Speaker volume	7F 08 99 A2 B3 C4 02 FF 01 33 CF	7F 09 99 A2 B3 C4 02 FF 01 33 XX CF Notes: XX indicates current volume value (XX is a hexadecimal value, range: 00~64). For example, XX = 20 indicates current volume value is 32 (decimal value), XX = 00 indicates mute state.
D.Mode	7F 08 99 A2 B3 C4 02 FF 01 35 CF	7F 09 99 A2 B3 C4 02 FF 01 35 XX CF Notes: XX indicates the mode. XX = 00-standard; XX = 01-ECO mode; XX = 02-custom. XX = 03-auto.
Backlight brightness	7F 08 99 A2 B3 C4 02 FF 01 49 CF	7F 09 99 A2 B3 C4 02 FF 01 49 XX CF Notes: XX indicates the value of backlight brightness (0 - 100), corresponding to the hexadecimal number system (00 - 64).
Backlight status	7F 08 99 A2 B3 C4 02 FF 01 81 CF	7F 09 99 A2 B3 C4 02 FF 01 81 XX CF Notes: XX = 00 indicates the backlight is on. XX = 01 indicates the backlight is off.
Screen lock	7F 08 99 A2 B3 C4 02 FF 01	7F 09 99 A2 B3 C4 02 FF 01 84 XX

Whiteboard state	7F 08 99 A2 B3 C4 02 FF 01 83 CF	<p>7F 09 99 A2 B3 C4 02 FF 01 83 XX CF</p> <p>Notes:</p> <p>XX = 01 indicates the whiteboard state.</p> <p>XX = 00 indicates non-whiteboard state.</p>
Return to system state of the previous options	7F 08 99 A2 B3 C4 02 FF 0A 00 CF	<p>7F 08 99 A2 B3 C4 02 FF 0A 00 AB CD EF GH IJ OP QR ST UV CF</p> <p>Notes:</p> <p>AB: Power supply;</p> <p>CD: Speaker;</p> <p>EF: Current signal source;</p> <p>GH: Speaker volume;</p> <p>IJ: D.Mode;</p> <p>OP: backlight brightness;</p> <p>QR: backlight state;</p> <p>ST: Whiteboard state;</p> <p>UV: Screen lock state.</p>

7. Troubleshooting


Symptom	Troubleshooting Methods
The screen cannot be powered on or the power indicator light is off.	Check whether the power supply is connected.
	Check whether the power supply plug is properly connected.
	Check whether the power outlet has electricity.
	Check whether the rocker switch is enabled.
	Press the reset switch and start the system again.
The remote control is not causing a response.	Replace the batteries.
	Check whether the polarity direction of the batteries is correct.
	Align the remote control with the IR receiver window. For details, see section "Remote Control".
The image is normal but there is no sound.	Increase volume on both the screen and the Windows system.
	Check whether the screen and the Windows system are muted.
	If an external computer is connected, check whether the connection cables are normal.
The system is automatically powered on/off when no operation is being performed.	Disable the automatic power-on/off function. For details, see section "Power ON/OFF Setting".
	Check whether the screen entered shut down mode due to no operation for an extended period of time.

	Check whether the input power supply is stable.
The colors of images are abnormal.	Check whether the HDMI cable is properly connected or has any quality issue.
The touch function is abnormal or the positioning is inaccurate.	Restart the screen.
	In the Windows system, recalibrate the screen. For details, see section "Calibration".
The touch function is unavailable when the external signal source channel is being used.	Switch between different external signal sources.
	Ensure that the USB touch cable is connected to the proper port. For details, see section "Ports".
	Remove and insert the USB touch cable again.
There is no sound when the HDMI in channel is used.	Remove and insert the HDMI cable again.
No image is displayed when the HDMI out channel is used.	Generally, this issue is caused by the compatibility of the external display product. Replace the external display product and test again.
	The HDMI cable is too long or has a poor quality. Replace the HDMI cable delivered with the product.
The touch function on the front panel is ineffective.	Touch the button using your full fingertip.
	Check whether the finger is wet or has other liquids on it.
	Restart the screen.
The USB flash drive cannot be identified.	Check whether the USB flash drive is inserted into the correct USB port. For details, see section "Ports."
The conference records cannot be saved on the USB flash drive, and the system prompts "The target storage product has no write permissions."	Format the USB flash drive to the FAT32 format.
The OPS has no signal.	Check whether the OPS is properly inserted in the slot.

	<p>Check whether the OPS is in shut down mode.</p> <p>Press the power button on the OPS (for details, see the instructions of the OPS), and manually start up the OPS.</p>
<p>In the embedded operating system or Windows system, no wireless network can be found or the wireless network signal is weak.</p>	<p>Check whether the Wi-Fi antenna is properly installed on the embedded operating system. For details, see section "Ports".</p>
	<p>Check whether the Wi-Fi antenna is properly installed for the OPS.</p>
<p>The keyboard is not correctly displayed.</p>	<p>Confirm that the hardware keyboard is enabled.</p>
<p>When you connect a handheld microphone to a port on the front panel, the distance from user to microphone should be no less than 1 meter, otherwise the sound may distort.</p>	<p>The front panel doesn't support handheld microphone, and needs to use the fixed microphone. To make sure of the sound quality, the distance from user to microphone should be no less than one meter.</p>
<p>When the touch screen connects to CEC facilities and powers down, touch screen will stay in shut down mode after power restart. CEC facilities can't recall the touch screen.</p>	<p>Please use the remote control to start and turn off the touch screen. Then you can use the CEC facilities to recall it.</p>

This is the general user manual for HA1100 Pro interactive flat panel. Some details may be different from the actual product.



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