Interactive Intelligent Flat Panel

User Manual

TV-65820 / TV-75820

TV-86820 / TV-98820

Please read this user manual in detail before use

Notification

WARNING

To ensure the reliability of the equipment and the safety of personnel, please observe the following when installing, using and maintaining:

- If any of the following conditions are found, please immediately turn off the power, plug out and quickly contact your nearest dealer. Do not continue using this unit, which may cause a fire or electric shock.

  - If you find smoke or have a strange taste from the machine.
  - If water or metal falls into the machine.
  - If the unit is dropped or the case is damaged.
  - If the wire is damaged (wire core exposure, broken wire, etc.).

- If the machine contains high-pressure parts, in order to avoid the fire or electric shock, absolutely don't open the case, if any questions please inform your nearest dealer.
- Do not place cups, bowls, vases or metal and other water-filled substances on the unit. Serious spilled liquid may cause a fire or electric shock.

- Never expose the unit to rain and any moisture or water, which may cause electric shock or fire.

- Do not place metal objects or flammable materials from the vents on the machine cover, nor place coins, which may cause fire or electric shock.

- Do not place heavy objects on the unit to avoid personal injury or property damage when the unit is slipping.

- Make sure that the volume is turned on at the beginning of the boot, and the high volume of the boot may cause hearing problems.

- Make sure that the volume is turned on at the beginning of the boot, and the high volume of the boot may cause hearing problems.

- For long-term accumulation of dust to be cleaned, please inform your dealer to regularly clean the machine, so as to avoid damage to the machine or cause a fire.

- The battery must be replaced with the same type of product and the correct installation should be made in order to avoid electrical damage and explosion hazard.

- The product is a Class III device. The device must be well connected to ground. The power plug must be connected to a power outlet with a grounding device to ensure that the equipment is fully grounded.

● This product uses a power plug or appliance input socket as a disconnecting device with the power supply, and must be disconnected if necessary for safety reasons.

●

This equipment is only suitable for safe use at altitudes under 2000 meters.

Precautions

1. The installation environment

When installing the unit, in order to ensure the normal cooling of the host, should avoid the poor ventilation of the place or high temperature environment, to avoid direct sunlight.

Recommend to install cabinet or other well-ventilated place indoor. If you use the machine in the outdoors, please pay attention to waterproof, moisture, lightning protection measures.

Avoid installing in a violent place of vibration; do not place other equipment on the machine.

2. To avoid electric shock and fire

Do not touch the hands and the source with wet hands

Do not spill liquid on the machine, so as to avoid short-circuit or fire inside the machine.

Do not place other equipment directly on the top of the unit.

Non-professional service personnel Do not disassemble the unit yourself to avoid damage and electric shock.

3. Transport and handling

The packaging of the machine is designed and tested to ensure that the host will not be accidentally damaged during transport. It is best to use the original packaging when handling the unit.

Do not move the host device between the place or cold or over hot to avoid condensation inside the machine, affecting equipment life.

4. Please follow the warning instructions on this product, the warning signs on behalf of:

	Applicable to 2000 meters above sea level and below safe use
	Safe use only in non-tropical climates

5. Agreement

Please strictly follow the instructions in this manual. The software, hardware and appearance of this product will be upgraded and updated continually. The above changes will be made without notice.

Non-professional maintenance personnel, do not remove the product, to avoid damage and electric shock.

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1. Description

The interactive intelligent flat panel integrates multiple functional modules such as presentation, writing, interaction and sharing, so as to easily create a simple paperless conference/teaching scenario and realize an efficient and harmonious conference/teaching mode.

2. Feature

1. True 4K ultra HD display, zero lamination design, AG tempered glass, high color gamut;
2. Built-in intelligent core and operating system;
3. The system can be equipped with a plug-in PC module;
4. Anti-light interference (It can be used as usual under direct sunlight)
5. High degree of touch algorithm optimization, fast response, high writing and demonstration fluency, HD image processing engine;
6. Intelligent display chip, intelligent Android operating system;
7. Any channel can realize handwritten annotations;
8. In standby mode, it supports auto wake-up of HDMI channel signal input;
9. Support wireless screen transfer function;
10. Support WIFI 6;
11. Support HDMI 4K 60Hz;
12. With the channel memory function, it will enter the homepage by default when it is turned on, and it supports the function of custom channel naming;
13. Built-in 12 million HD camera and 8 array microphones;
14. Android 11, 4K UI display, 4K whiteboard;
15. Front USB 3.0 port and TYPE-C port switched with the channel;
16. Support Backlight with intelligent light perception and adjustment.

3. Appearance/Interface Introduction

Appearance:

Panel interface:

Interface description:

NO.	Interface	Description
1		Power switch
2		Full-featured interface
3		USB interface

4		Touch interface
5		HDMI input
6		Camera

4. Specification

Model	TV-65820	TV-75820
Screen size	65 inches (16:9)	75 inches (16:9)
Display size	1428.48×803.52mm 【H×V】	1649.66×927.94mm【H×V】
Processor	Quad-Core A55, Mali-G53 MP2 dual-core	
System version	Android 11	
RAM	4GB	
Storage space	32GB	
Screen type	LED LCD screen	
Physical resolution	3840(H)×2160(V)	
Pixel pitch	0.372×0.372mm	0.429×0.429mm
Color Gamut NTSC (Typ)	72%	
Response time	8ms	
Refresh rate	60Hz	
Chroma	16.7 Million (8bit)	
Brightness	350cd/㎡	
Contrast	1200:1	
Viewing angle	178° (H/V)	
Backlight life	⩾50000H	

Audio channel	2.0	
Speaker unit	2 ×10W@8Ω	
Camera pixel	≥12 million (support 48 million-8000×6000@5fps)	
Number of cameras	1	
Camera field of view	≥92°	
Mic pickup distance	0-10m	
Number of microphones	8 arrays	
Input port	TYPE-C*1; HDMI port*1; TUOCH port*1; USB3.0*2; HDMI2 IN*1; HDMI1 IN*1; RJ45 IN*1; AUDIOIN*1; GVAIN*1; DPIN*1	
Output port	OPTICAL OUT*1; USB2.0*1; TOUCH*1; USB3.0*2; WIFI*4; HDMI OUT*1; RJ45 OUT*1; LINE OUT*1	
Communication port	RS232 port: 1 group	
Touch embedding method	Built-in integrated design, non-external type	
Touch sensing technology	IR recognition touch technology: PC: 20 points/Android: 10 points	
Writing method	Fingers, styluses or non-transparent objects with a diameter greater than 5 mm (more than 8 mm)	
Writing height	2.5mm	
Writing surface hardness	7H	
Output coordinates	32767(W)×32767(D)	
Wi-Fi	Version: 802.11 a/b/g/n/ac; Working frequency band: 2.4G/5G; Working distance: 12 m	
Working temperature	0℃~40℃	
Working humidity	≤80%RH	
Power supply	100-240V~50/60Hz input	
Standby power consumption	≤0.5W	
Standard power consumption	180W	320W
Dimension (L×W×T)	1493.21*90.65*923.8MM	1715*90.15*1048.3MM
Net weight	45.6±1Kg	61.8±1Kg

Model	TV-86820	TV-98820
Screen size	86 inches (16:9)	98 inches (16:9)
Display size	1895.04×1065.96mm【H×V】	2160.5 ×1217.3mm【H×V】
Processor	Quad-Core A55, Mali-G53 MP2 dual-core	
System version	Android 11	
RAM	4GB	
Storage space	32GB	
Screen type	LED LCD screen	
Physical resolution	3840(H)×2160(V)	
Pixel pitch	0.4935×0.4935mm	0.5622×0.5622mm
Color Gamut NTSC (Typ)	72%	
Response time	8ms	
Refresh rate	60Hz	
Chroma	16.7 Million (8bit)	
Brightness	350cd/m2	
Contrast	1200:1	
Viewing angle	178° (H/V)	
Backlight life	≥50000H	
Audio channel	2.0	
Speaker unit	2×10W@8Ω	2×15W@8Ω
Camera pixel	≥12 million (support 48 million-8000x6000@5fps)	
Number of cameras	1	
Camera field of view	≥92°	
Mic pickup distance	0-10m	
Number of microphones	8 arrays	
Input port	TYPE-C*1; HDMI port*1; TUOCH port*1; USB3.0*2; HDMI2 IN*1; HDMI1 IN*1; RJ45 IN*1; AUDIOIN*1; GVAIN*1; DPIN*1	
Output port	OPTICAL OUT*1; USB2.0*1; TOUCH*1; USB3.0*2; WIFI*4;	

	HDMI OUT*1; RJ45 OUT*1; LINE OUT*1	
Communication port	RS232 port: 1 group	
Touch embedding method	Built-in integrated design, non-external type	
Touch sensing technology	IR recognition touch technology: PC: 20 points/Android: 10 points	
Writing method	Fingers, styluses or non-transparent objects with a diameter greater than 5 mm (more than 8 mm)	
Writing height	2.5mm	3.5 mm
Writing surface hardness	7H	
Output coordinates	32767(W)×32767(D)	
Wi-Fi	Version: 802.11 a/b/g/n/ac; Working frequency band: 2.4G/5G; Working distance: 12 m	
Working temperature	0℃~40℃	
Working humidity	≤80%RH	
Power supply	100-240V~50/60Hz input	
Standby power consumption	≤0.5W	
Standard power consumption	410W	516W
Dimension (L×W×T)	1961.4*90.16*1187.7MM	2222.9*99.9*1330.9mm
Net weight	74.4±1Kg	93±1Kg

5. Operating Instructions

Interface description:

The sidebar is divided into left and right sidebars. Click the icon floating on the left/right side of the screen to call up the sidebar. The expanded functional buttons are Back, Home, Task, Annotation, Signal source, and Notification. When the sidebar is expanded, it will be hidden automatically after 3 seconds without any operation.

1. Back：Click the corresponding icon to return or exit the current program.

2. Home：Click the corresponding icon to enter the homepage of the system.

3. Task：Click the corresponding icon to enter the homepage of the system.

(1) In the multitasking state, touch the task list area and slide up and down to view the task list.

(2) Touch the task thumbnail and slide left or right until it slides out of the task list area and releases the thumbnail.

4. Annotation：Click the corresponding icon to open the annotation.

5. Signal source：Click the corresponding icon to call out the signal source channel list, and the user can choose to switch to the desired channel.

6. Notification：Click the corresponding icon to bring up the notification panel, which includes time display, common shortcuts, custom applications, brightness, volume, and notification messages.

6. The Software Description

6.1 Whiteboard writing

What is a whiteboard?

Whiteboard is a multi-functional writing application that assists users in efficient communication and connection, brings a relaxed and fun experience, and improves team efficiency. You can click on the "Whiteboard" application icon on the homepage, or click the "Whiteboard" button in the pen detection box to start the Application, after the meeting, you can scan the QR code to take away the content of the whiteboard.

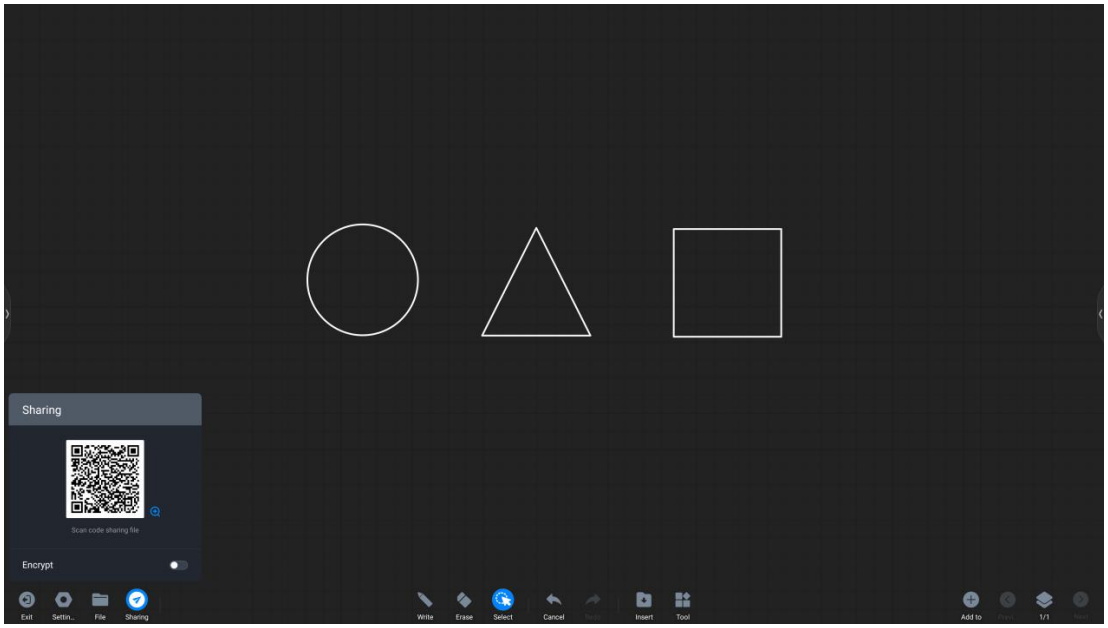
Create content

Open whiteboard， click "write on whiteboard" to open the whiteboard.

Share content

Scan code to share

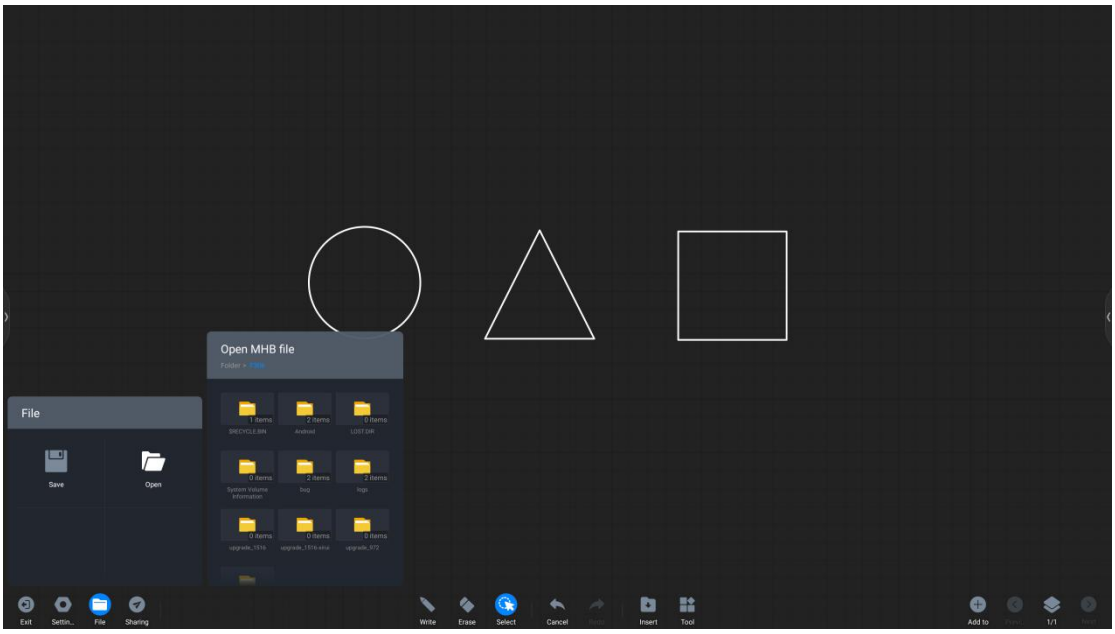
Scan the code and take it away: Click the "Share" button in the lower left toolbar, and the QR code sharing page will pop up. According to the text prompt, scan the QR code with your mobile phone to access the file link, and you can save the file.



File function

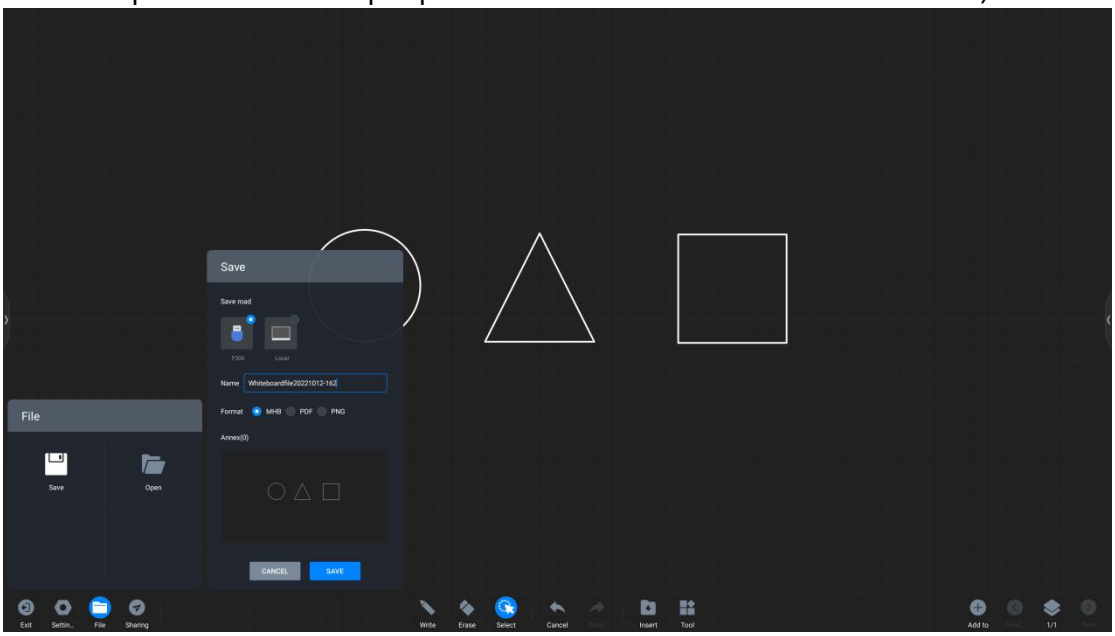
File open

Click the "File" button in the lower left toolbar to pop up the file operation page. According to the text prompt, you can open the folder of the large board to select the whiteboard file to be opened. The whiteboard file has the standard file format MHB.



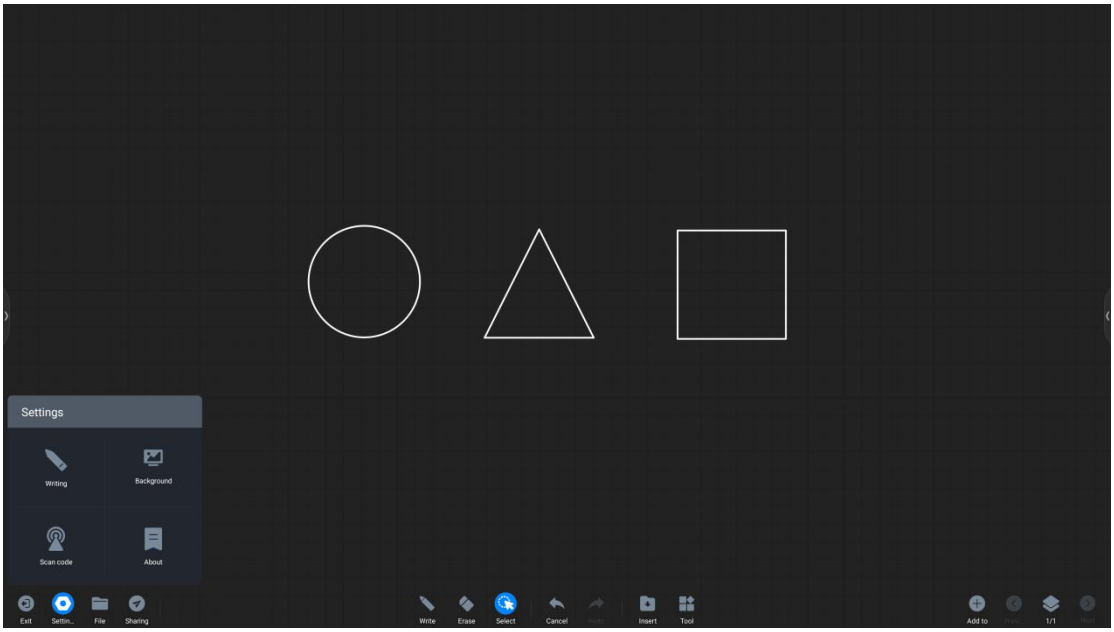
File save

Click the "File" button in the lower left toolbar to pop up the file operation page. According to the text prompt, you can save the content of the whiteboard. The save path can be local storage on the large board or imported into a USB peripheral device. The save format can be MHB, PDF and JPG.



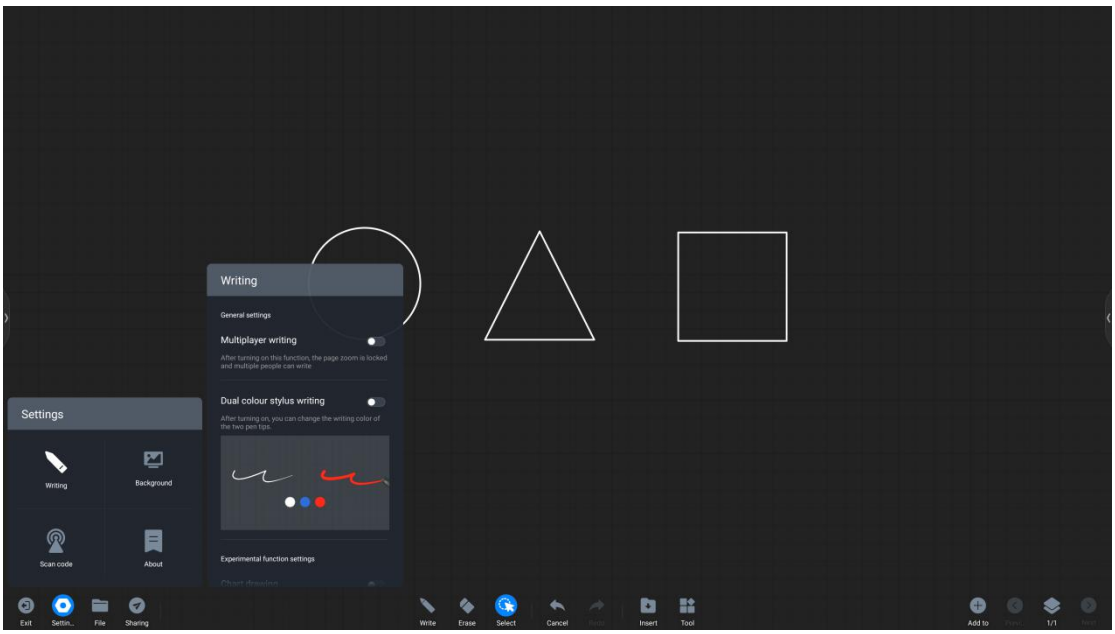
Whiteboard settings

Click the "Settings" button in the lower left toolbar to pop up the whiteboard setting operation page

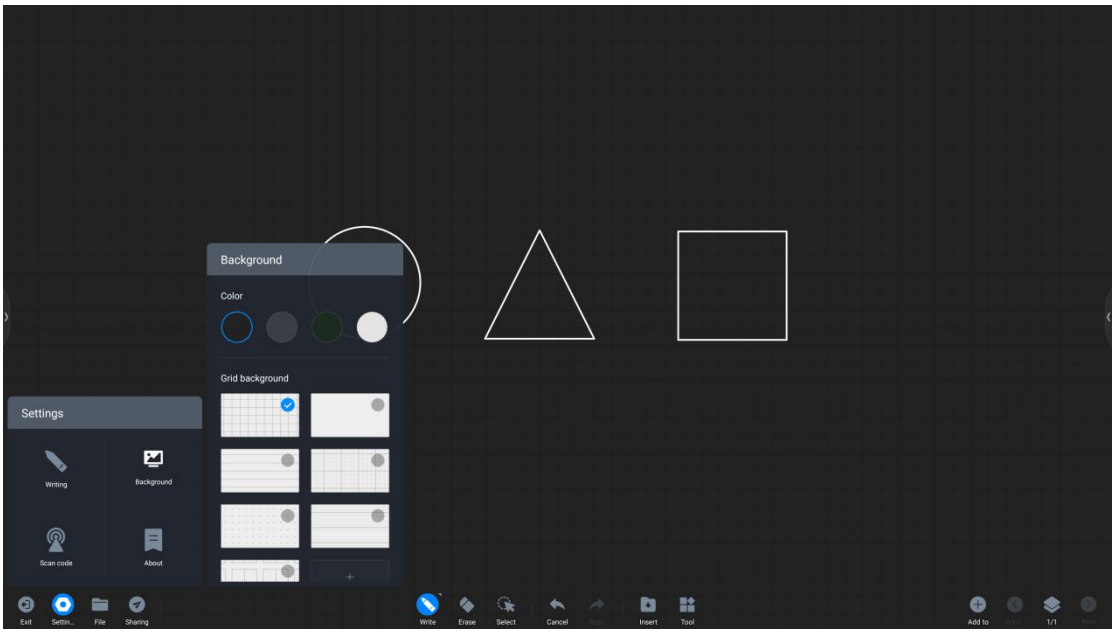


Writing settings: Click "writing settings" to turn on/off settings for pen tip writing, chart drawing, and two-color pen functions. Pen tip: On infrared touch models, the pen tip effect will appear when you turn it on. It is enabled by default, and the user selection is not changed after restart.
Chart drawing: Turn on the switch to realize automatic recognition of writing graphics. It is closed by default, and the default options are restored after restarting.

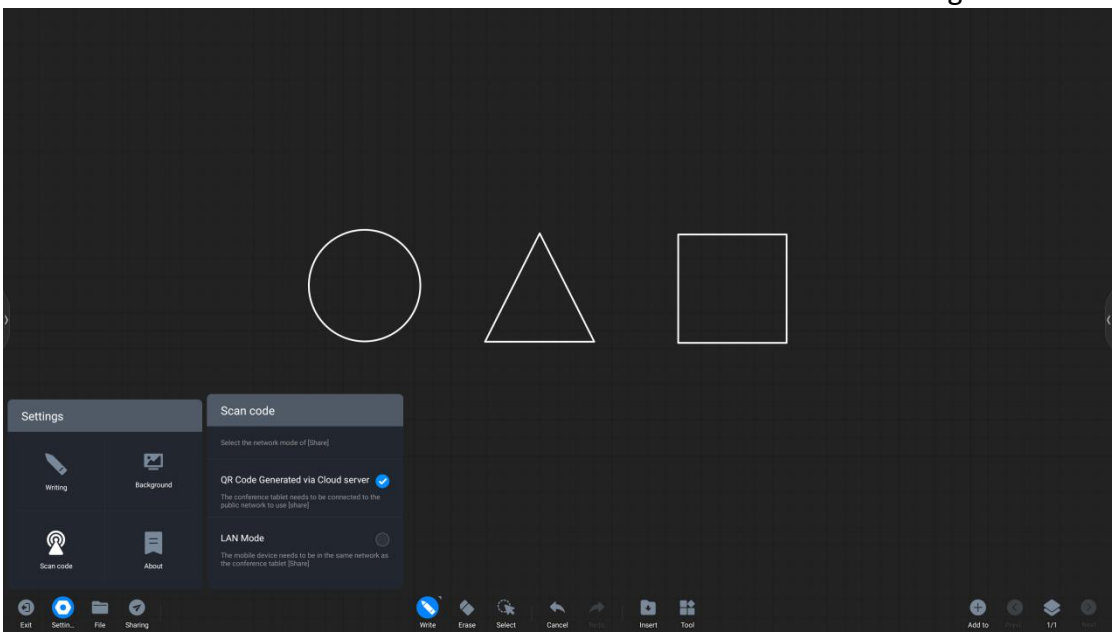
Two-color pen writing: In the case of the infrared touch screen, the two-color pen function is turned on, and the two-color pen can be used for writing by multiple people, and the color of the pen tip and finger can also be defined separately. It is enabled by default, and the user selection is not changed after restart.



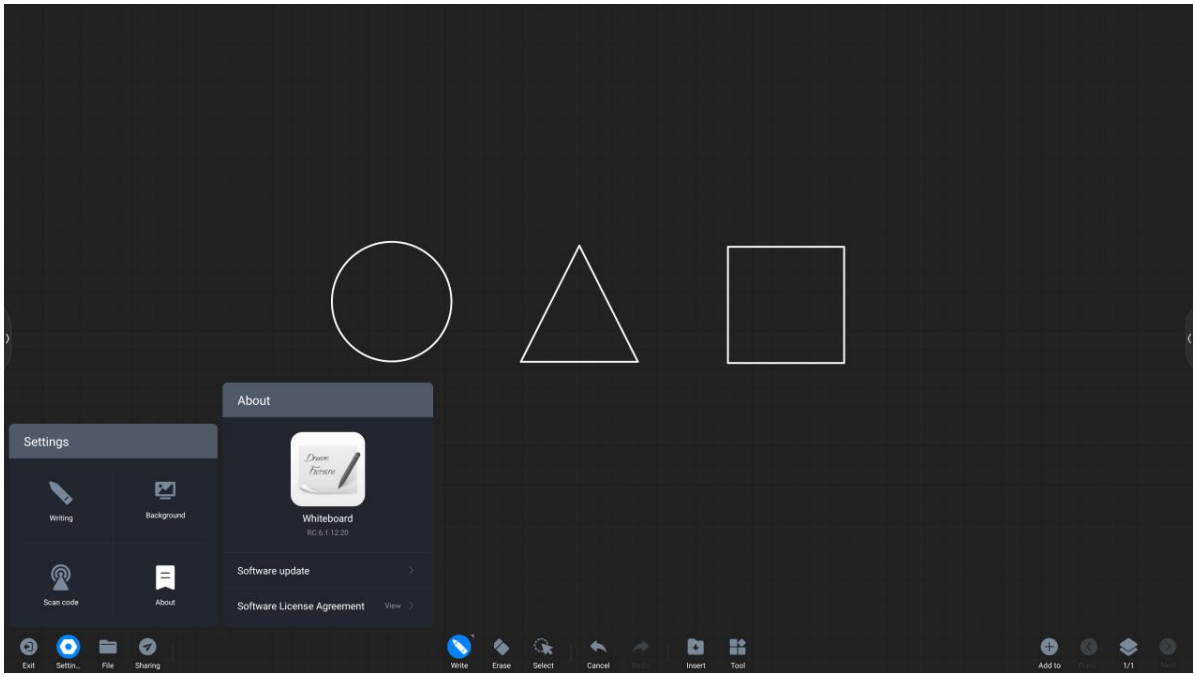
Writing background: Click "writing background" to choose different writing backgrounds.



Scan code network: Click "Scan code network" to change the QR code sharing network conditions: Public network mode: Both mobile phones and conference tablets need to be connected to the Internet to obtain the sharing link. Local area network mode: The mobile phone and conference tablet need to be connected to the same local area network to obtain the sharing link.



about:
View the current whiteboard version number
View open source license
View version update: automatic update or manual update can be set.



6.2 Annotation

What are comments?

The annotation function allows users to write content in the current screen and make information annotations.

How to start annotating

Function entry

Comments can be entered in the following scenarios:

Scenario 1: When the PPT is played locally or through the screen, the comment toolbar will appear. At this time, click the comment button to enter the comment. Note: If some versions of PPT still have a page-turning button after entering the comment, you can realize the comment along the page at this time.

Scenario 3: In other cases, there is a comment button in the sidebar, click to enter the frozen screen comment.

6.3 Small blackboard

What is a small blackboard

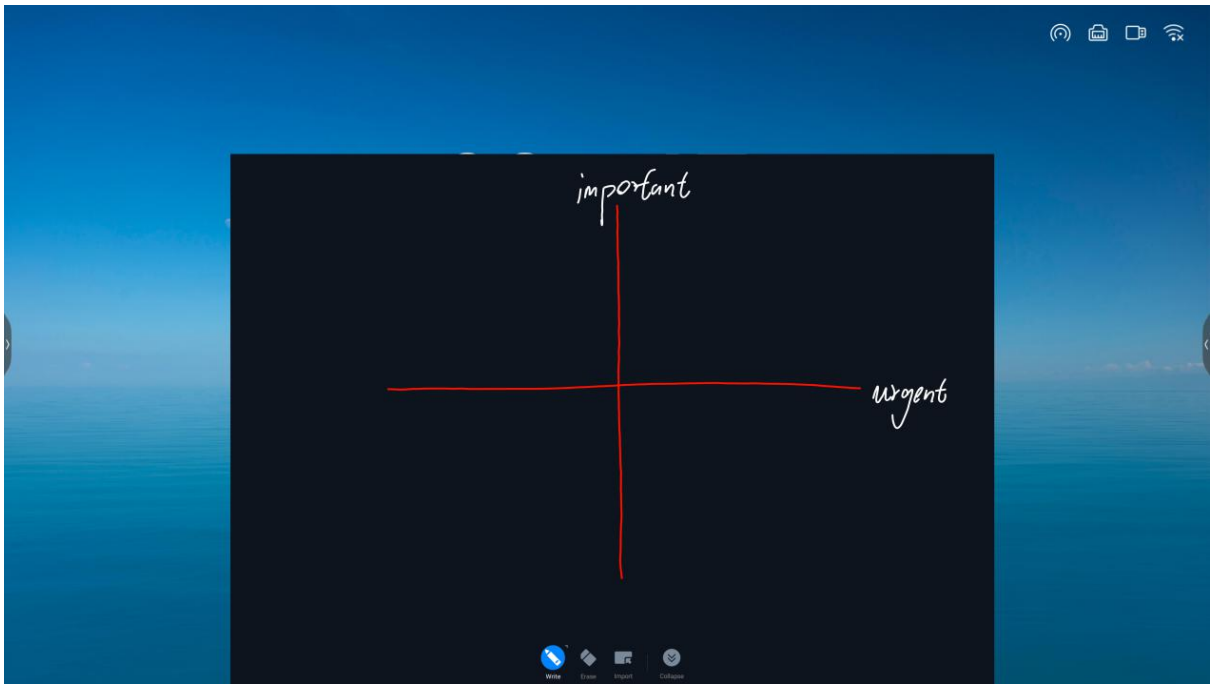
The small blackboard is a floating writing board that can be called up in any interface for temporary writing.

How to use the small blackboard

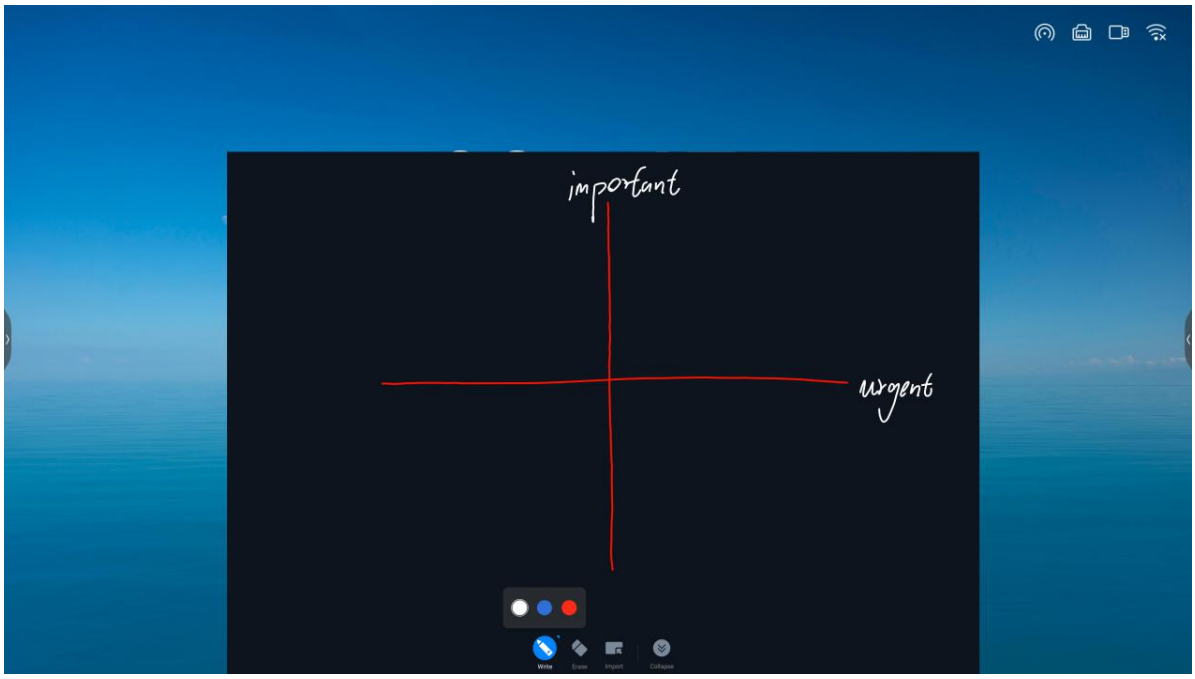
Evoke the little blackboard

Pull up from the bottom of the conference tablet to evoke the small blackboard. Note: Cannot be

evoked in the case of frozen screen annotation and whiteboard full screen
Put away the small blackboard
There are two ways to put away the small blackboard:
Method 1: Click the "Collapse" button on the bottom toolbar to hide it.
Method 2: Press and hold with multiple fingers and shake it down quickly.



Small blackboard use



6.4 Wireless screen transmission

What is wireless screen transmission

Wireless screen transmission can project the screens of laptops, mobile phones and other devices to the conference board and show it to the audience, without the need to use wires to connect to the conference board.

How to use wireless screen transfer device to transfer screen

1. Pairing the screen transmitter

2. Start the wireless screen transmitter

The wireless screen transmitter is successfully paired with the conference board

Note: For wireless screen transmitters that have been successfully paired, there is no need to pair them again, please skip this step 6. Connect the wireless screen transmitter to the notebook USB port (some computers with only Type-C interface need to use an adapter, or directly purchase a screen transmitter using Type-C port)

7. When using for the first time, Apple computer users should find the application icon in the figure below on the desktop, click to open, and use the program

8. For windows computer users, please open my computer, select the CD drive, and manually run "ScreenShare.exe"

Note: You only need to manually run the program when you use it for the first time. You can skip this step for subsequent use

9. When the program is started, the computer will automatically connect to the paired smart conference tablet. The light of the wireless screen transmitter flashes to indicate that it is connecting, and the screen transmitter light is always on, indicating that the connection is successful and it is in a shareable state.

10. When the light of the screen is always on, press the screen button to share the screen

11. Press the button of the wireless screen transmitter again to disconnect the screen and be in a ready state for sharing

12. Extended screen projection. Open the screen transfer application on the computer side (same as step 7), you can choose to open the extended screen in the options to transfer the screen, so that the conference tablet can be used as the extended screen of the computer to transfer the screen.

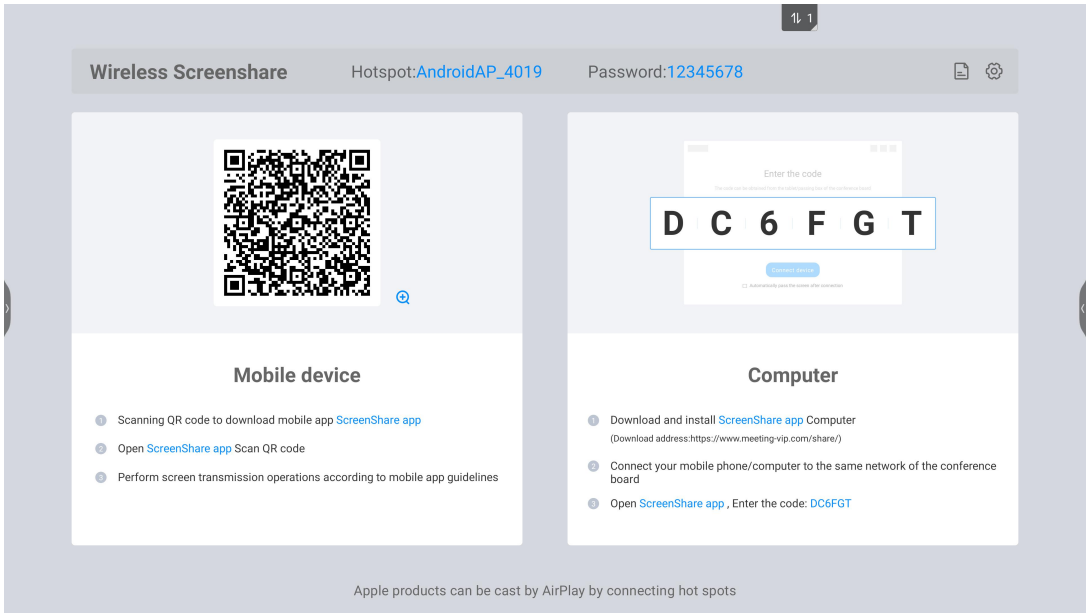
13. Turn on the touch screen. You can choose to turn on the touch screen in the options, and then you can realize the function of controlling the computer screen on the smart conference tablet

How to use computer screen transfer assistant software to transfer screen

1. Please download the computer screen transfer assistant at (https://www.meeting-vip.com/share/) in advance.

2. Find the wireless screen transfer and open the wireless screen transfer application

3. After opening, you can see the wireless screen transfer guide and find the screen transfer code



4. Open the screen transfer assistant, enter the screen transfer code on the smart conference board, and click "connect device”

Select single-screen mirroring, when the other party is uploading the screen, the screen on the smart conference board will be preempted to upload the screen; if you choose to join the mirroring, the split-screen display will be performed when the other party is uploading the screen.

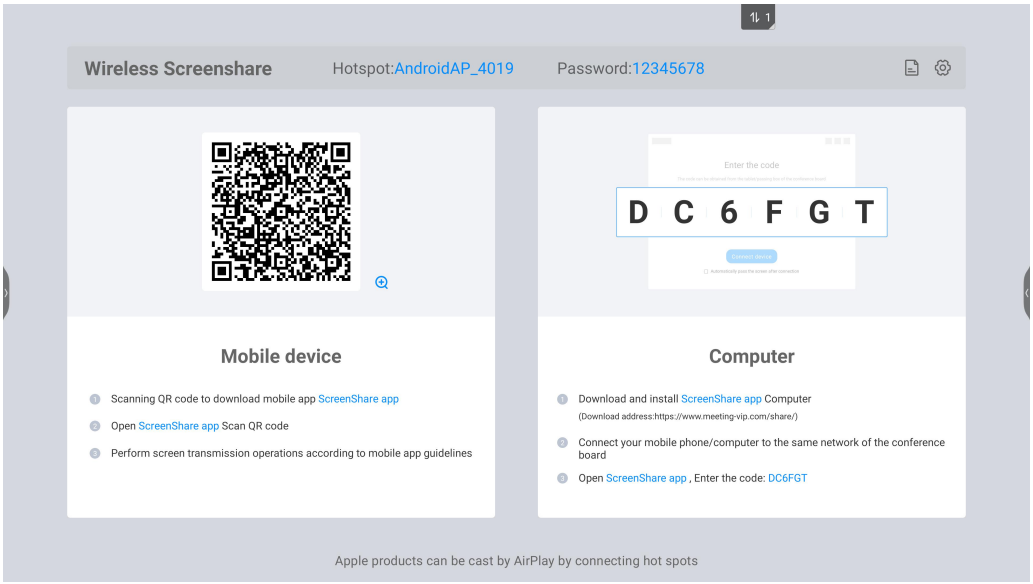
5. Screen transfer can be performed after selection

How to transfer screen from mobile phone

How to transfer screen from mobile phone?

1. Please download the screen transfer assistant at (https://www.meeting-vip.com/share/) in advance.

2. Open the screen transfer assistant on the conference board, you can see the wireless screen transfer guide



3. Use the mobile screen transfer assistant to click the scan code button and scan the QR code on the wireless screen transfer guide to connect

4. If the connection is successful, you can select the following functions to transfer the screen.
Screen sharing: the screen of the mobile phone can be shared to the smart conference tablet for display;
Picture display: You can share the pictures on your mobile phone to the smart conference tablet for display;
Video playback: Share the video on the mobile phone to the smart conference tablet for playback;
Audio playback: The audio on the mobile phone can be shared to the smart conference tablet for playback;
Document scanning: You can use the mobile phone camera to scan documents and share them to the smart conference tablet for display;
Conference tablet controller: you can use your mobile phone to control the smart conference tablet in real time

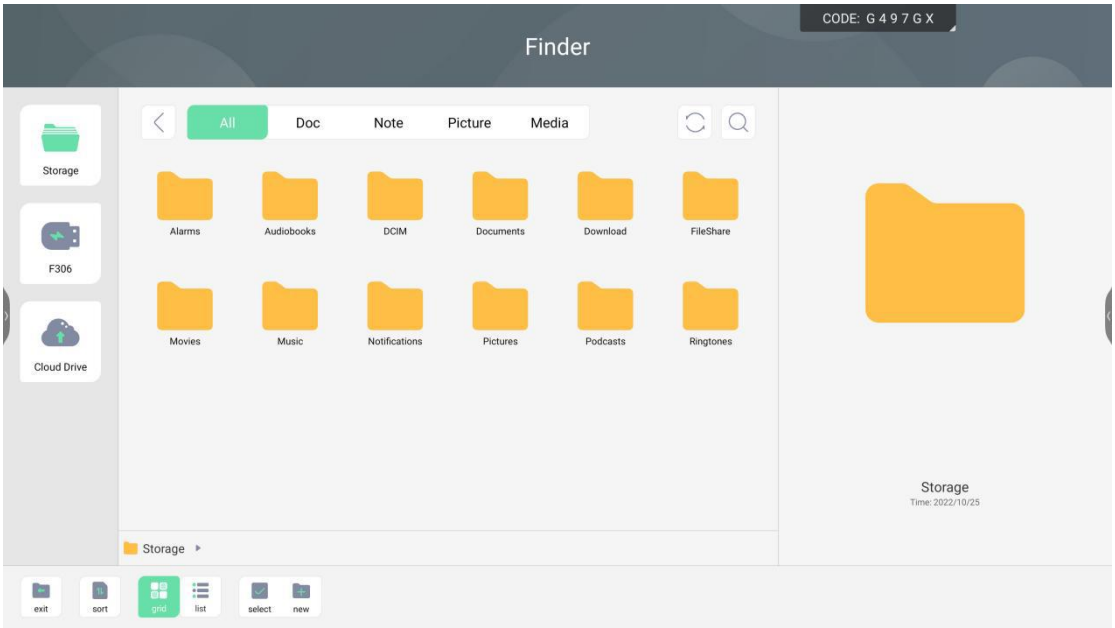
6.5 Presentation

What is a presentation?
Manuscript presentation is used for local file management, and various files can be opened for content display through manuscript presentation (the conference machine needs to be preinstalled with a software client that can open the corresponding file type).

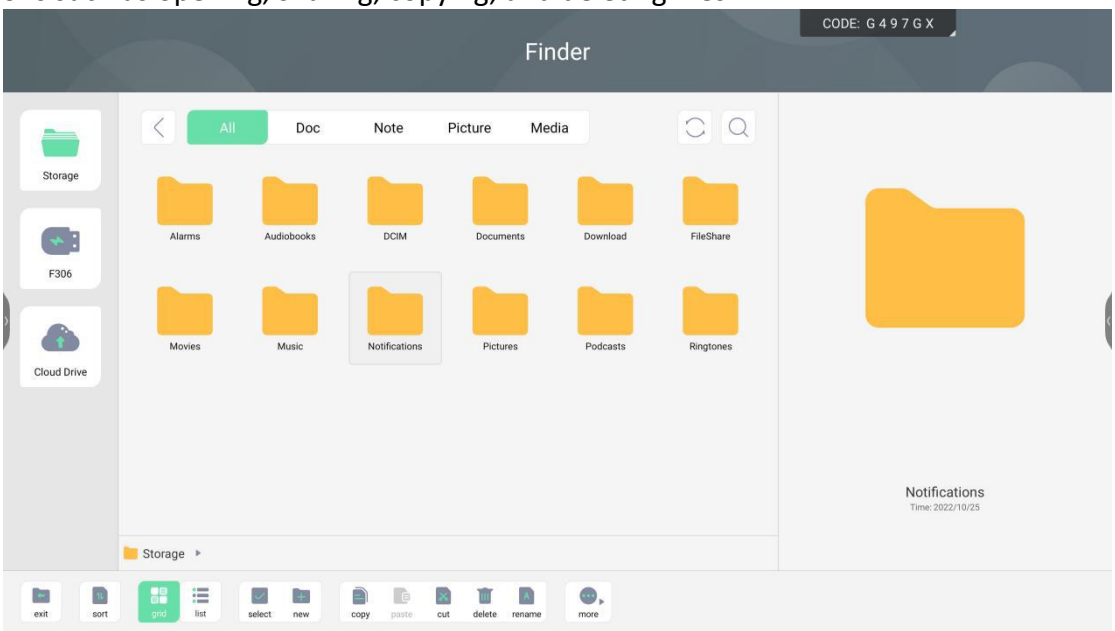
How to use the presentation?
1. Click on the "File Browser " icon on the homepage to start the File Browser APP

2. When the conference machine is plugged into a USB storage device, the presentation interface will display the drive letter of the USB storage device. Click the corresponding drive letter to load the file in the corresponding storage.

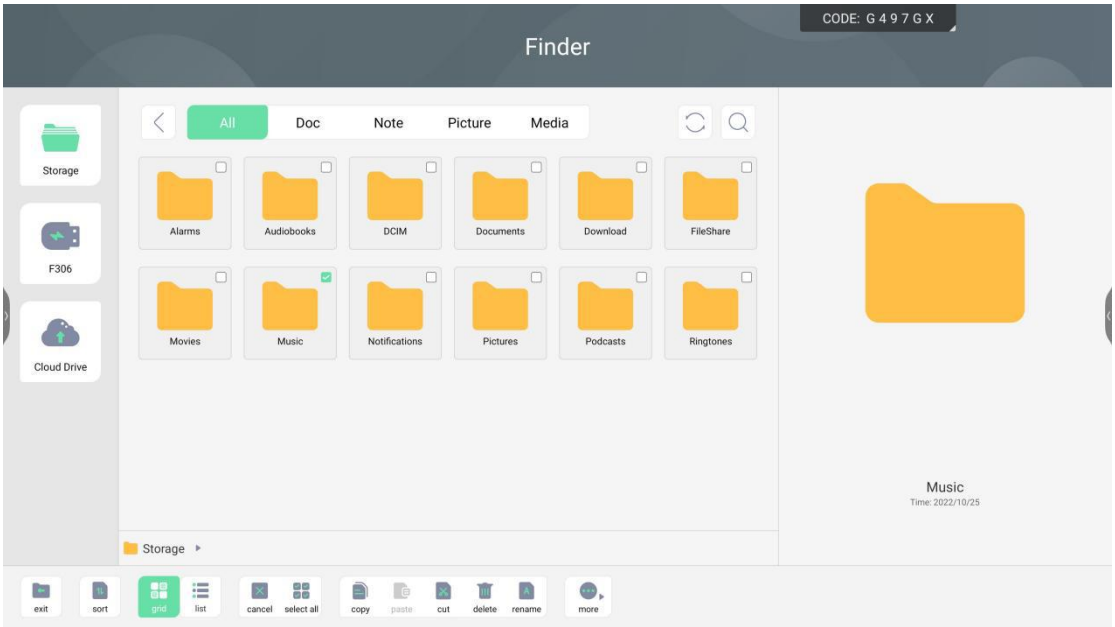
3. For files in the conference machine's local, USB storage devices, and personal folders, you can filter and display the files of the corresponding type by clicking the file type filter button on the interface



4. Click the menu button on the file list interface to display the floating toolbar and perform operations such as opening, sharing, copying, and deleting files



5. Click the "multiple selection" button to perform batch operations on files



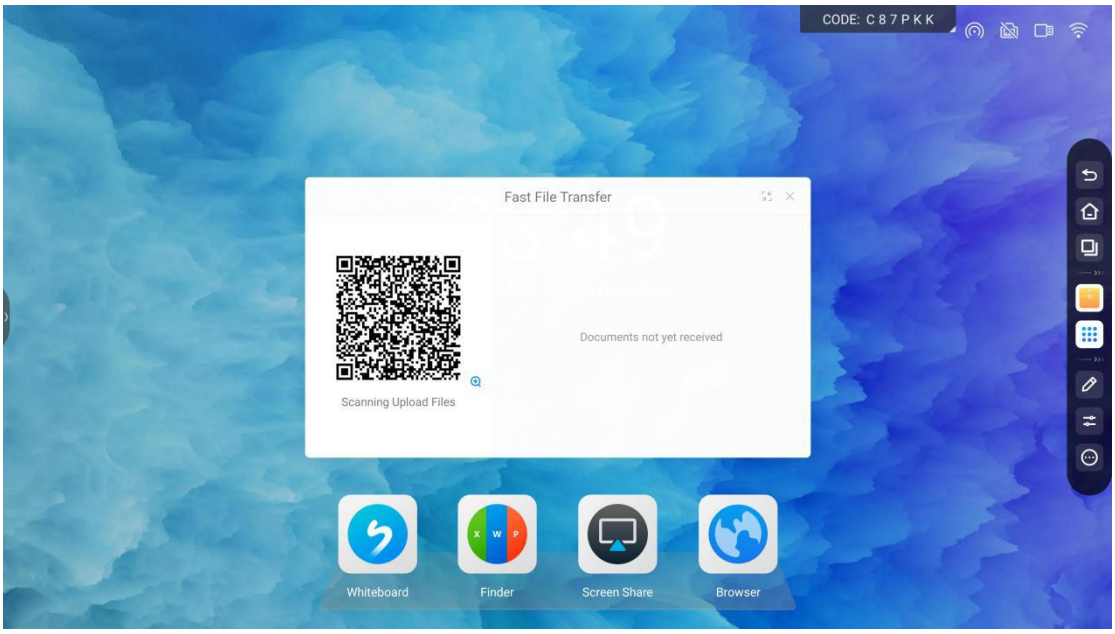
6.6 Efficiency tools

What is a gadget

Gadget is a quick tool App on the conference board. It provides convenient functions in various scenarios and assists in solving the requirements of file transfer, voting, screen recording, timing, screenshots, and photos in the conference.

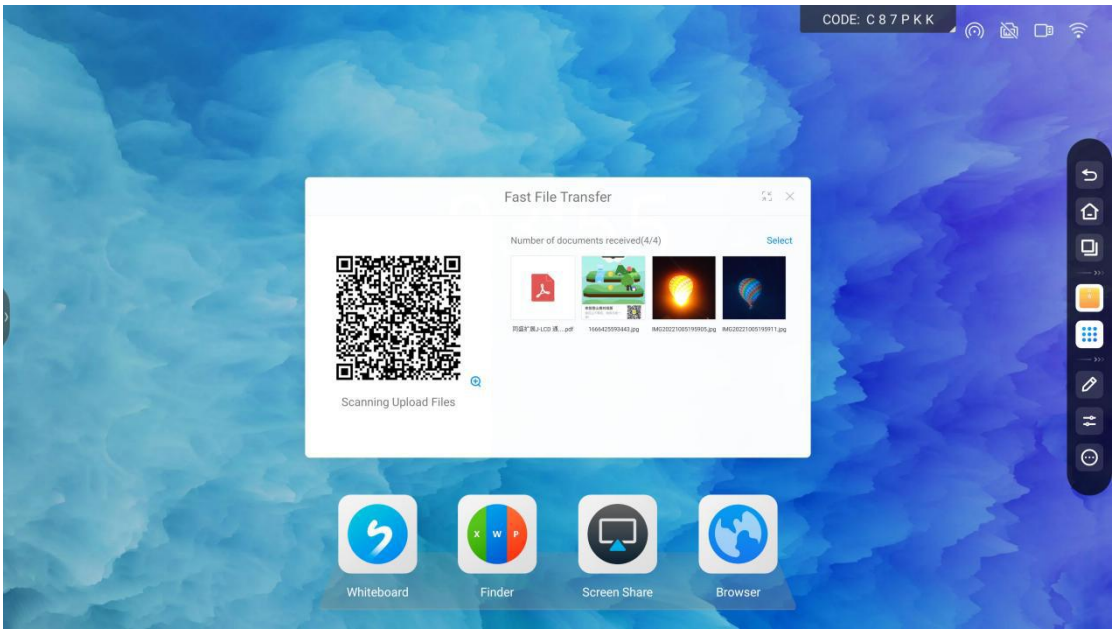
How to start the gadget

Open gadget Click on the sidebar, the gadget is in the sidebar menu.

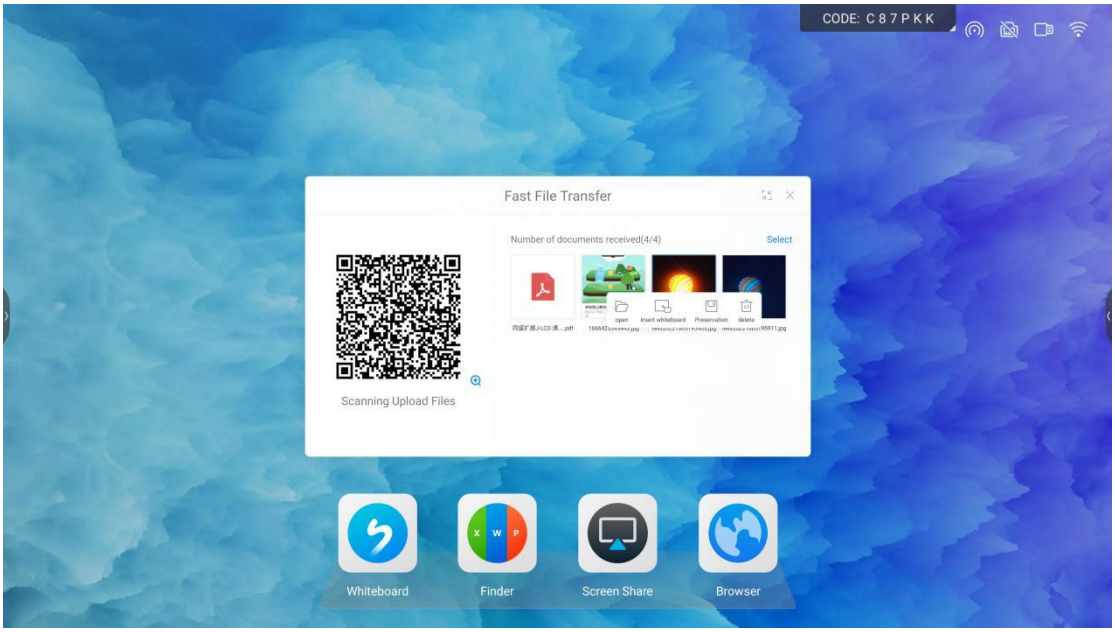


Quick upload widget

1. Click the "Quick upload" icon in the sidebar to open the quick upload widget.
2. After the mobile phone scans the code, you can choose to upload pictures, texts, and files on the mobile phone



Click the minimize button in the title bar of the quick upload interface on the big board to minimize the quick upload interface.



Screen recording widget

1. Click the "Screen Recording" icon on the side panel to open the screen recording widget.

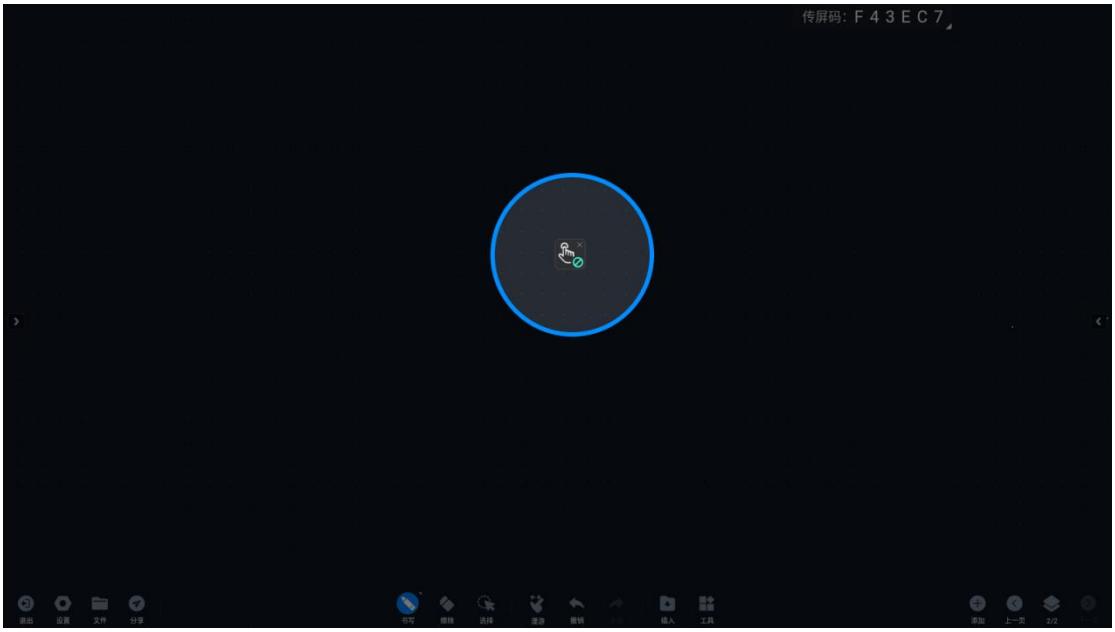
2. Click the screen recording button to start recording

3. The screen recording adopts segmented recording, after the recording is merged, after clicking the end recording button, the system will merge the videos recorded in segments

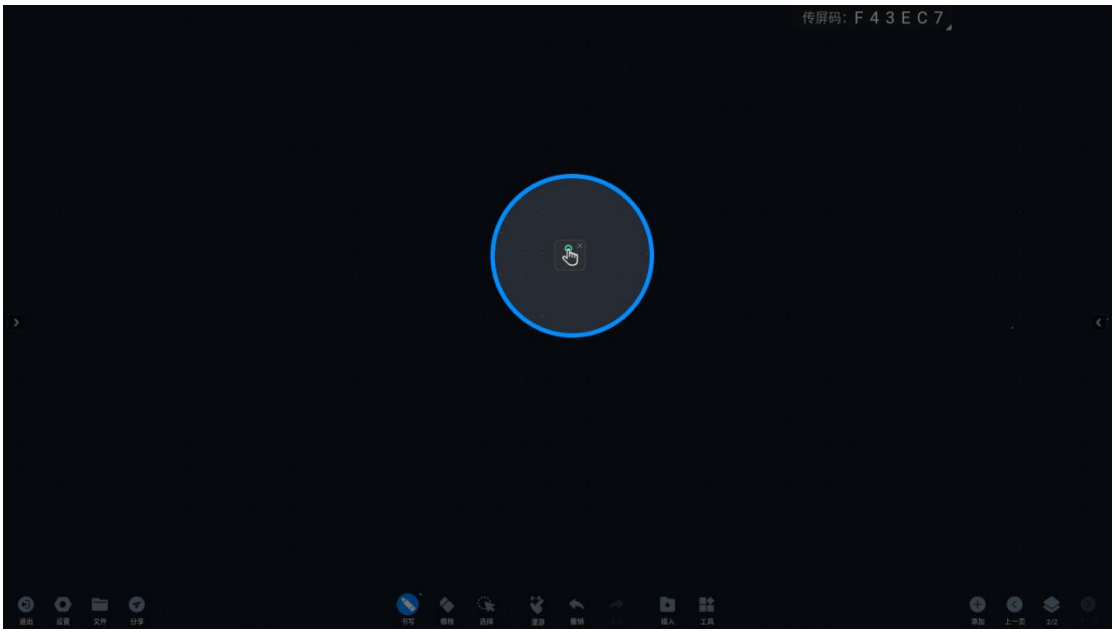
Screenshot widget Click the "Screenshot" icon on the side panel to open the screenshot widget

Touch lock widget

1. Click the "touch lock" icon on the side panel to open the touch lock widget
2. Click the touch lock to switch the touch disabled state, as shown in the figure below



3. Click the touch lock again to switch to unlock, touch and touch to disable, click the X sign in the upper right corner to exit the touch lock widget



1. Eye protection gadget.
2. Click the "eye protection" icon on the side panel to open the eye protection tool.
3. The eye protection icon changes from "eyes closed" to "eyes", the screen becomes warmer, enter the eye protection mode, click the "eye protection" icon on the side panel again to close the eye protection mode, and the image mode returns to the previous state.

Screen lock widget

1. Click the "screen lock" icon on the side panel to open the screen lock tool

2. Enter the setting password interface

After setting the password, you need to enter the correct password every time you wake up the smart conference board

Wireless screen transfer supports the use of wireless screen transfer device and mobile phone screen transfer

FCC Statement

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

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

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Interactive Intelligent Flat Panel

Ver 0.1