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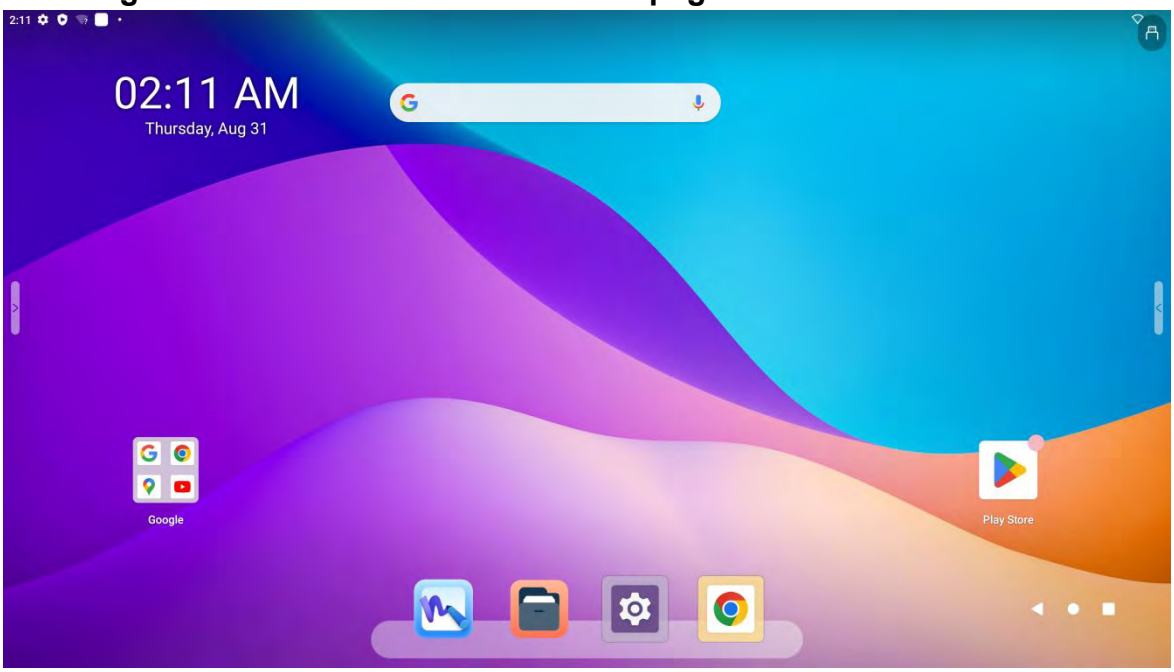
# I、OVERVIEW

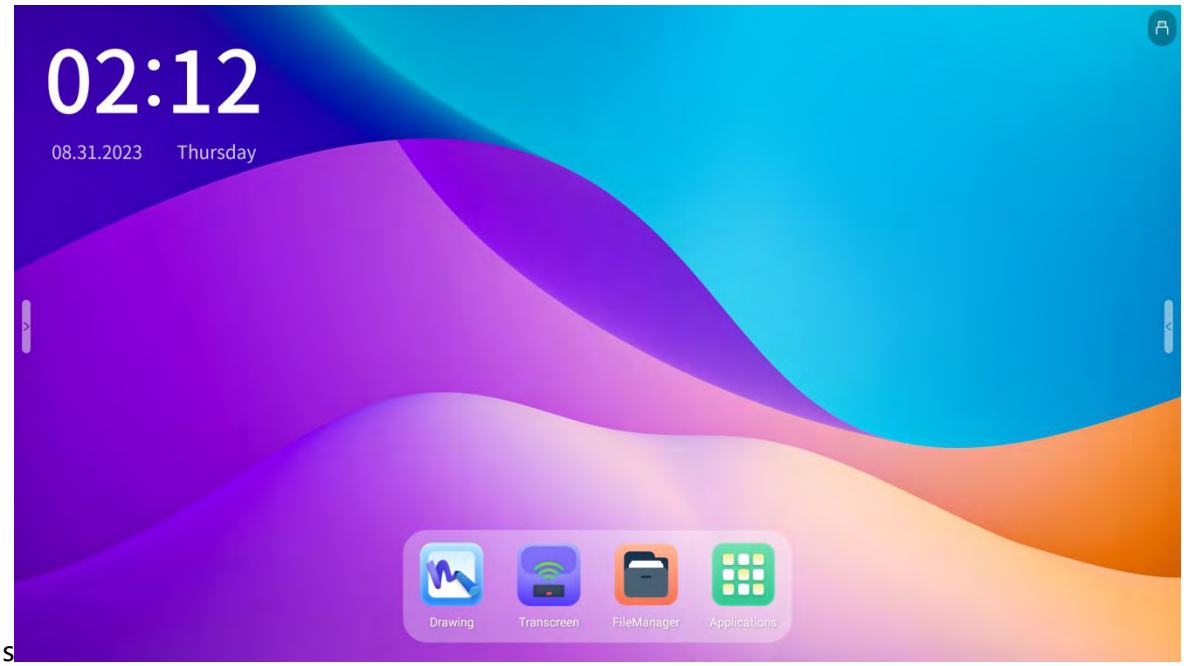
RK3588.3 has passed the Google EDLA certification specification with many new gestures.

A new customized UI for IST is also embedded, with updates to the navigation bar menu, application icons, application interface and default wallpaper. The theme of the whole system is more harmonious and vivid.

## （1）Google EDLA Certified Firmware Homepage




## （2）Android Interactive Homepage




s

## II、RK3588.3 Port

- VByOne (fixed 3840*2160 @60Hz)
- OPS (up to 3840*2160 @50/60Hz,Ethernet 1000Mbps follow)
- Front HDMI IN (up to 3840*2160@50/60Hz)
- HDMI1 IN (up to 3840*2160@30Hz or 1920*1080@60Hz)
- HDMI2 IN (up to 3840*2160@50/60Hz)
- HDMI3 IN (up to 3840*2160@50/60Hz)
- DP IN (up to 3840*2160@50/60Hz)
- Rear TYPE-C IN (up to 3840*2160@50/60Hz, PD 20V/3.25A/65W, USB 3.0)
- Front Type-C IN (up to 3840*2160@50/60Hz, PD 5V/3A/15W, USB3.0, Ethernet 100Mbps follow)
- HDMI OUT (up to 7680*4320@50/60Hz; Note: When the HDMI OUT port outputs 8K images, TYPE-C OUT cannot output images)
- TYPE-C OUT (up to 3840*2160@50/60Hz, USB 3.0)
- RJ45 (up to 1000Mbps)

# III、Remote Control Function

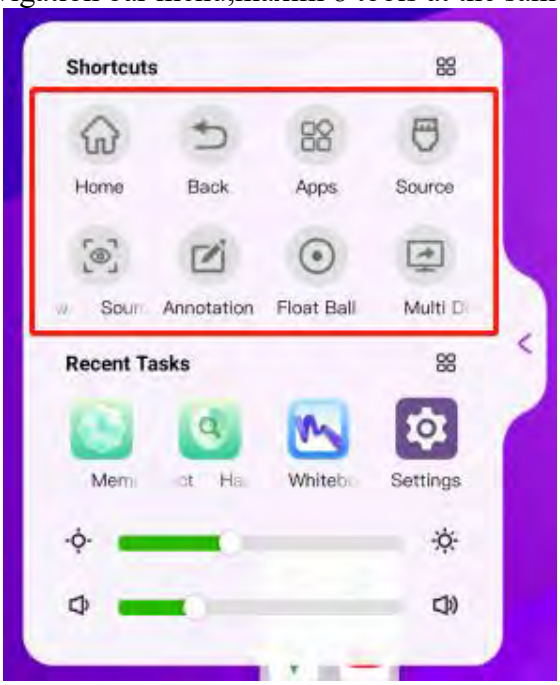
1、Power:Press to power on or enter standby.
2、Sound mode: Press to select the sound mode.
3、Picture mode:press to switch picture mode(only works in signal input source channel, not in Android).
4、Display mode: press to switch display ratio(only works in signal input source channel, not in Android.
5、Mute: Press to mute or unmute.
6、Numeric keys: 0~9
7、Info: Show the resolution and refresh rate of the signal input source channel.
8、Signal source: Press to switch signal source
9、WIFI: Press this key to turn on or off WIFI
10、Homepage: Return to Android homepage
11、▲▼◀▶:up、down、left、right
12、OK: Press to confirm a menu option
13、Back: Press to return upper menu
14、Menu: Open the navigation bar menu
15、PgUp: Page up,can use in PPT
16、PgDn: Page down,can use in PPT
17、Channel+/-: ATV/DTV +/-channel
18、Volume+/-: Adjust the volume
19、F1~F12: Corresponds to F1~F12 under Windows, available under OPS/HDMI/TYPE-C channel (require IST touch frame to use)
20、Alt+Tab:Switch window under Windows
21、Space: Space function under Windows
22、Alt+F4:Close current window under Windows
23、Right: Right mouse button under Windows
24、|◀◀: last song(Available under PC and Android)
25、▶▶| : next song(Available under PC and Android)
26、◀◀: Fast backward(Available under PC and Android)
27、▶▶: Fast forward(Available under PC and Android)
28、▶▌:Pause or play(Available under PC and Android)
29、■: Quit play((Available under PC and Android)
30、PC: Quick switch to VGA IN signal source
31、HDMI: Quick switch to HDMI IN signal source
32、TV: Quick switch to analog TV or digital TV
33、Multimedia:Quick switch to Android media player or file manager
34、Resolution: Function has changed to freeze screen function
35、Energy saving: Off screen
36、Screenshot: Screen
37、Cloud sharing: Function has changed to child lock for locking the screen and touch(Remote control could still control the screen)

# IV、Navigation Bar Menu

Navigation bar menu for convenient tools and quick access to frequently used functions on screen. Including tools、recent tasks、screen brightness、screen volume.

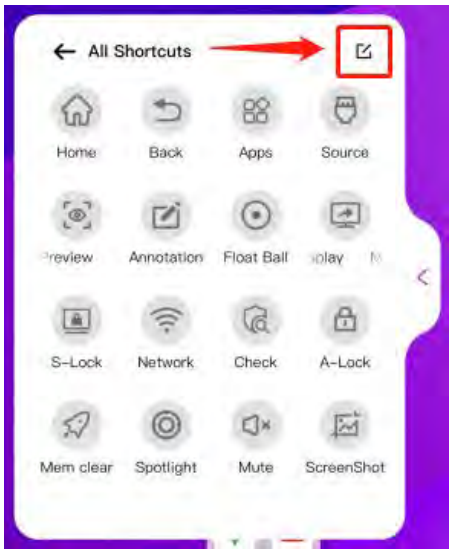
## （1）Shortcuts

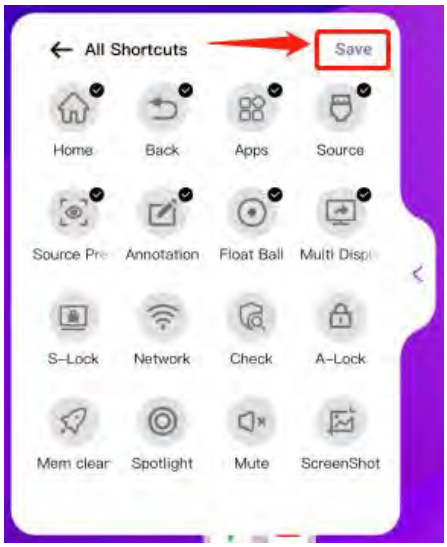
Supporting replaced tools on navigation bar menu,maxim 8 tools at the same time.



A. **Replaced Tools**

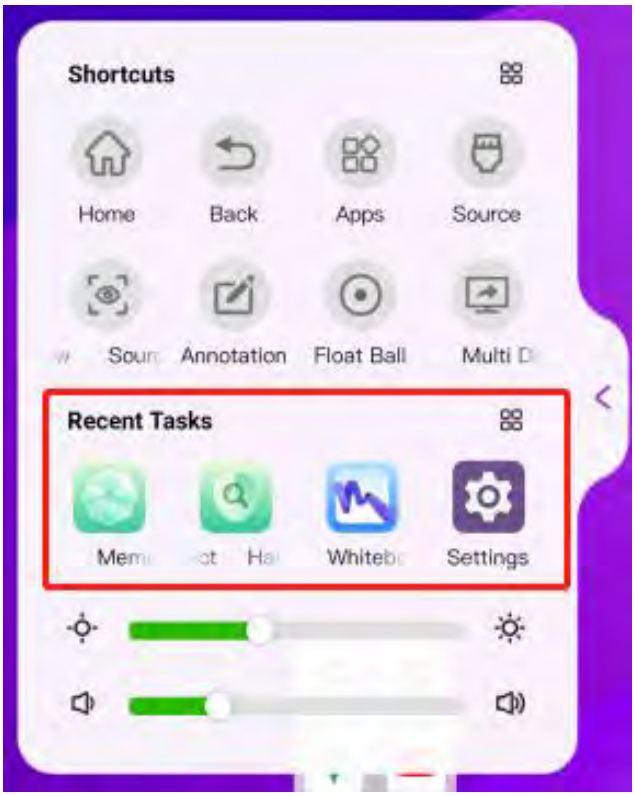
- Press'More' on navigation bar menu .
- Then Press 'Edit' on All shortcuts menu.
- Last press 'Save' after edit tools.



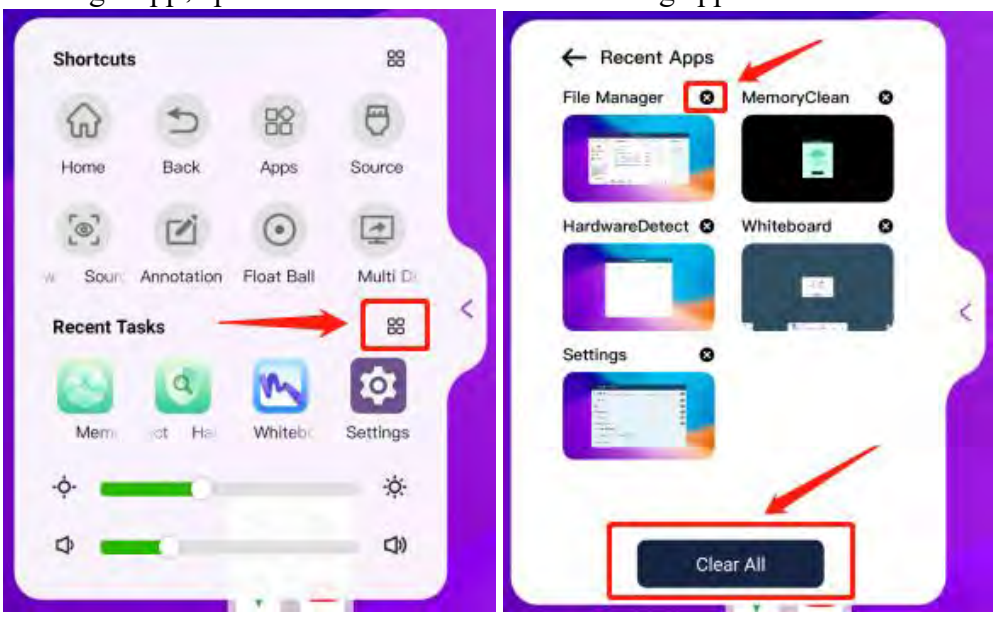

（2）**Recent Tasks**

Shows the recent apps running in background on Android.



### A. Clear running apps

- Press Shortcuts-Recent Apps- 'More'
- Press'×'to delete single app; press 'clear all' to clear all running apps

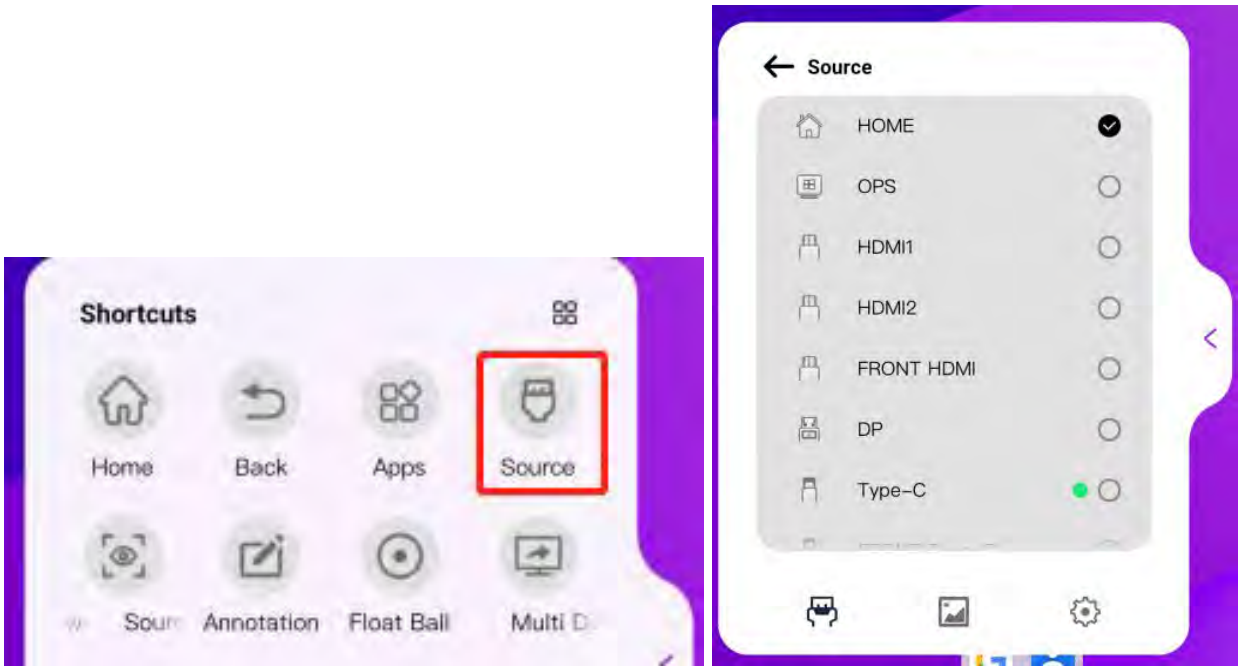



## V、Signal source menu

For convenient switching of signal source channels. In the source menu, it supports changing the source channel name, checking whether the channel has a source access and showing the current channel position.

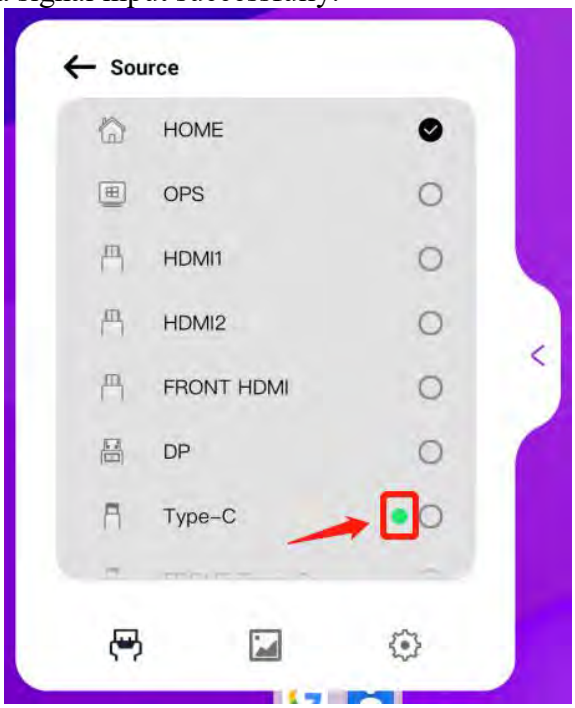
How to open:

- Open the navigation bar menu
- Press 'source' in shortcuts



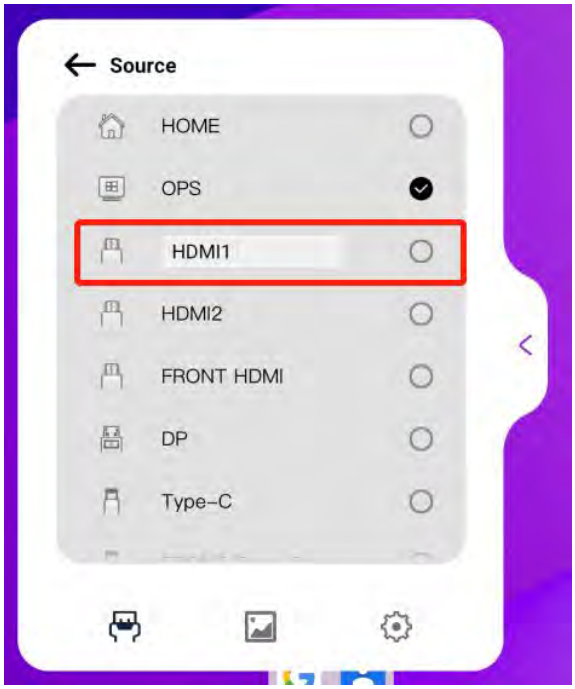
### （1）Signal source detection

When the large screen is connected to a signal source, the channel will light up a green point in the signal source menu to remind the channel has a signal input successfully.



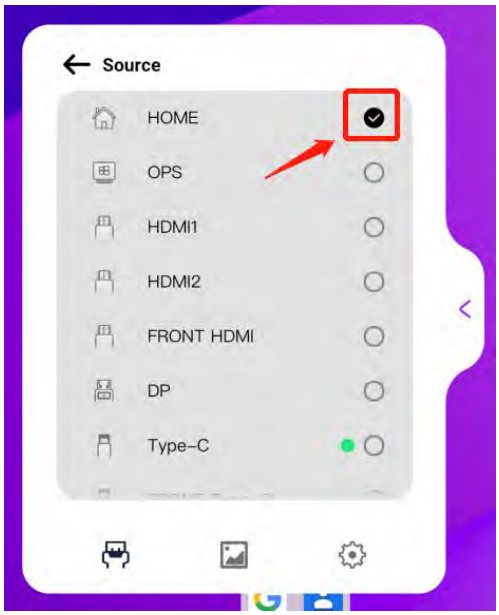

### （2）Signal source change name

Long press the source name for 1 second, you can rename the source channel,maximum input 16 characters；



### （3）Current channel position

If the '√' appears to the right of the channel name in source menu, this represents the current channel position。

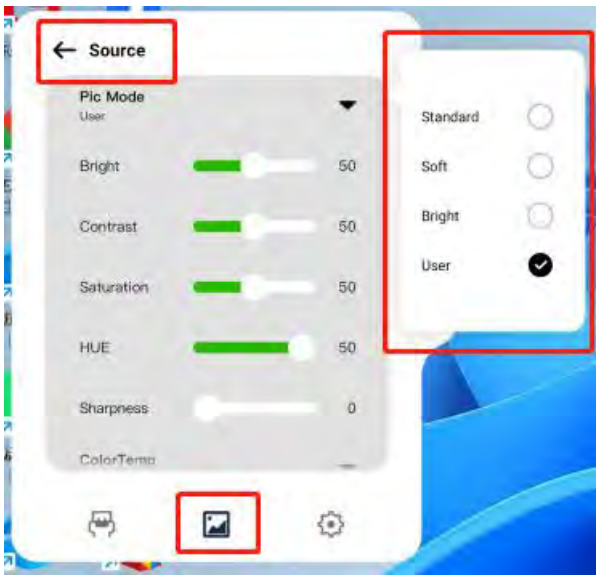



### （4）Signal Source Menu - Image Settings

You can customize the image display mode of the signal source screen.In addition, you can set the display ratio and the color temperature function. However, the image setting page can only be set under the signal source channel, but cannot be set under Android channel. e.g. If the images setting let you feel uncomfortable, system also support reset default settings .

How to open：

- Choose ‘Source’ in navigation bar menu.
- Choose ‘Pic mode’.



**A. Pic Mode**

There are 4 types of image modes: standard, soft, bright, and user mode. Only in user mode user could customize the display mode parameters.

**B. Display Mode**

Display mode support 16:9、4:3、Dot to Dot. Default setting is 16:9。

**C. Colour Temperature**

The color temperature has 3 modes. Normal, cool and warm , which can be customized according to personal needs.

### （5）Signal Source Menu - More Settings

How to open：

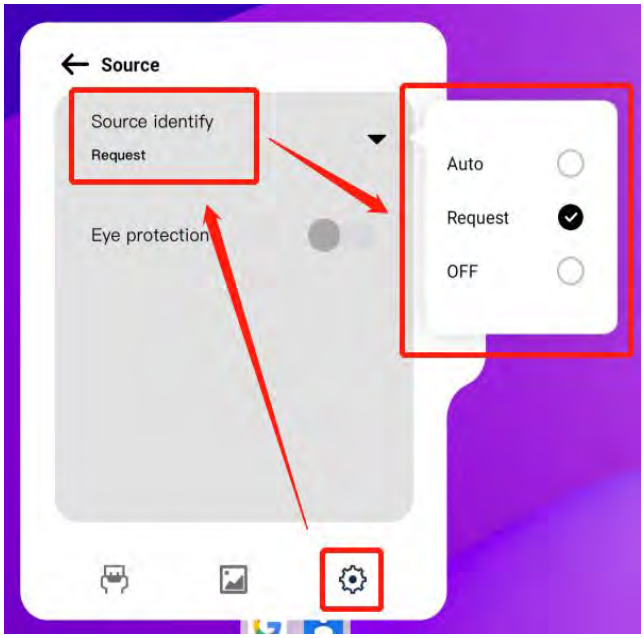
- Choose ‘Source’ in navigation bar menu.
- Select the ‘more’ icon as shown in the picture

**A. Source Detection**

Automatic switch: when the large screen accesses the signal source, the system will automatically switch to the source channel;

Ask to switch: when the large screen accesses the signal source, the system will prompt whether to jump to the source channel;

Closed: When the large screen accesses the signal source, the system will not prompt for signal access and will not automatically jump to the source channel.

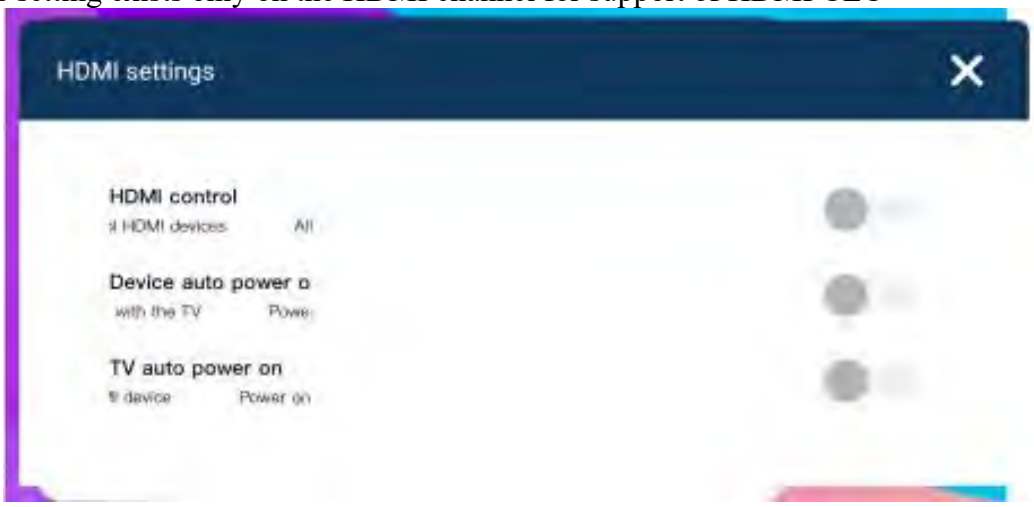



**B. Intelligent eye protection**

Turn on the intelligent eye protection function, the large screen will adjust the screen color temperature and reduce blue light. Red and yellow light makes the screen display warmer and softer.

### （6）HDMI Setting

This setting exists only on the HDMI channel for support of HDMI CEC




**A. HDMI EDID Version**

- HDMI EDID1.4:Maximum 2K60Hz/4K30Hz
- HDMI EDID2.0:Maximum 4K60Hz

**B. HDMI Control(HDMI CEC)**

Used to control the devices that support HDMI CEC function, after opening the function, use the remote control to operate the up, down, left, right, OK, back, pause play, fast forward,fast backward, previous song, next song buttons, you can directly control the CEC device。

How to open：

- Connect the HDMI CEC-enabled device to the HDMI IN port of the large screen with an HDMI cable
- Switch the screen signal channel to HDMI
- Navigation bar - signal source - more settings - HDMI settings -open the HDMI control function
- Use the remote control to press up, down, left, right, OK, back, pause play, fast forward, backward, the previous song, the next song

**C. Automatic shutdown(HDMI CEC)**

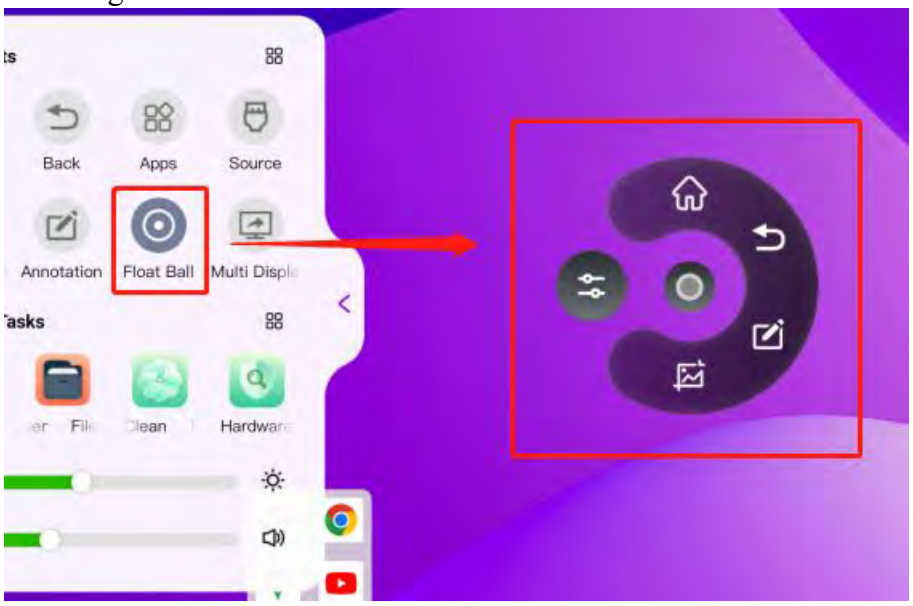
Turn on the automatic device shutdown function for both the large screen and the HDMI CEC device. Let the CEC device use HDMI cable to connect to the HDMI IN port of the large screen. Use the remote control to press the power button to control the large screen to shut down, the large screen will control the CEC device through HDMI CEC function to also enter standby.

**D. TV automatically turns on (HDMI CEC)**

Turn on the TV auto power on function. Let the CEC device use the HDMI cable to connect to the HDMI IN port of the big screen. When the big screen is in standby, use the remote control of the CEC device to control the CEC device to turn on the TV, and the CEC device will wake up the big screen through the HDMI CEC function.

# VI、Floating ball

Floating ball function is default off, mainly used to store frequently used functions. Support up to 4 frequently used functions + 1 floating ball edit function。



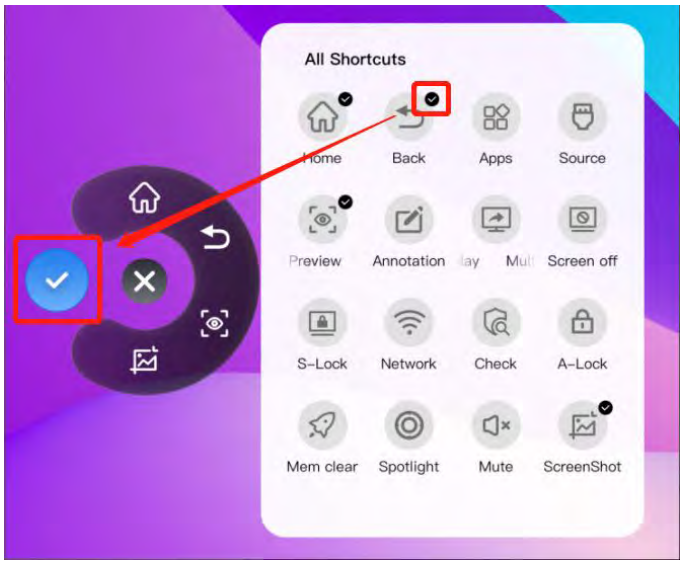

## （1）Floating ball operation

### A. Show the floating ball

- Press the floating ball in navigation bar
- A white transparent ball will appear in the center of the screen
- Press it,the floating ball will expand automatically

### B. Replace function

- Press the floating ball edit button；
- After the ball expand，pick 4 functions；
- Press ‘√’ to save.

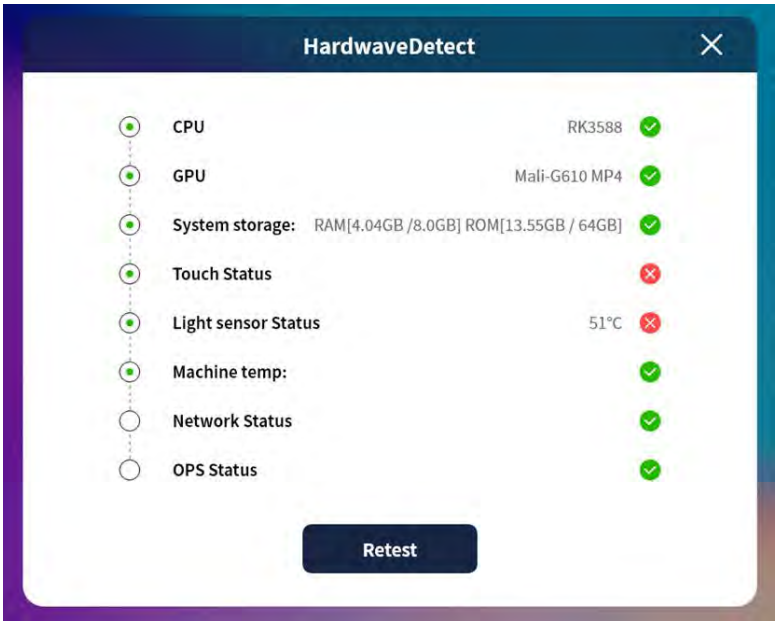


C. **Floating ball automatically hide**

After dragging the hover ball out, if there is no operation within 5s on the screen, the floating ball will be automatically hidden against the sides of the screen;

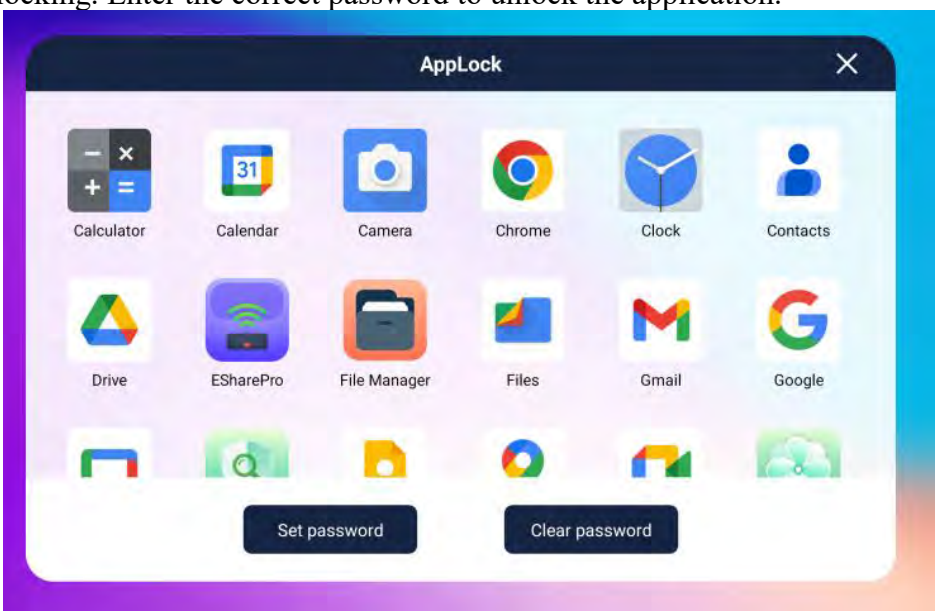
（2）**Floating ball function introduction**

A. **Home：Return to Android homepage；**
B. **Back：back to the last screen；**
C. **annotation：open the annotation**
D. **source： open the source menu；**
E. **Rest screen：turn off the screen light；**
F. **Lock screen：lock the screen(need to open the screen lock function in setting)；**
G. **Network：a quick access to Network Settings；**
H. **Hardware self-check:Check the memory, storage remaining, light sensor and network.**



## I. APP Lock

For application locking. Enter the correct password to unlock the application.

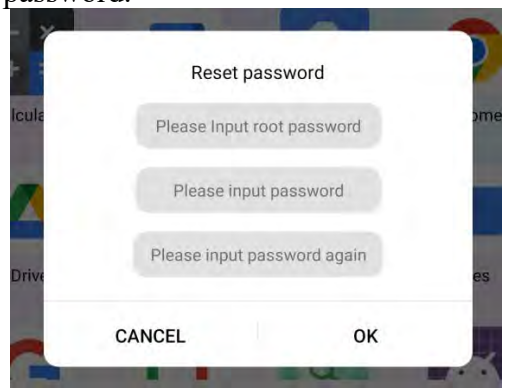



- Set password

  Set 4 digits for the password.

- Change password

  Entering the previously set app lock password or using the super password: 2580; then re-enter the new app lock password to change the app lock password.

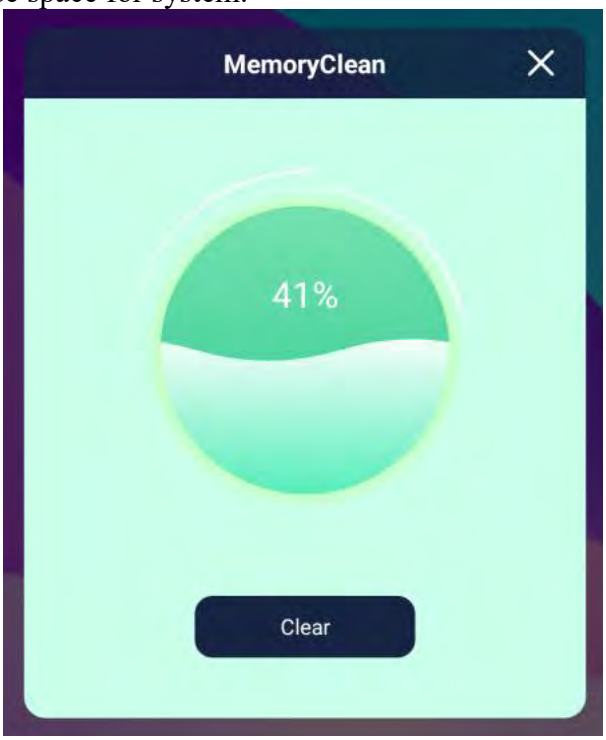


- Clear password

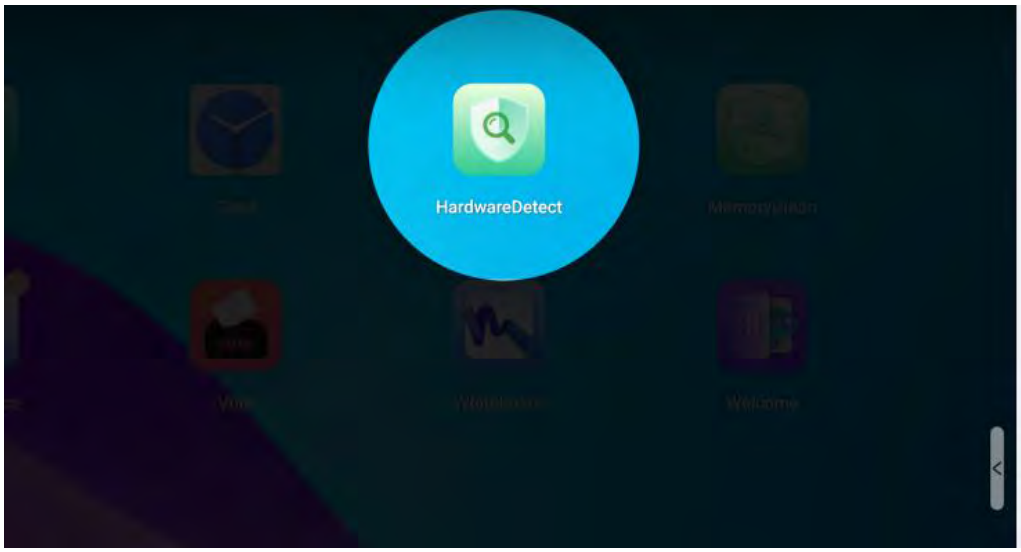
Enter the application lock password setting before or use Super Password: 2580, then clearing the application lock password.

**J. Memory Clean**

Clear the running process,release space for system.




**K. Spotlight:open the spotlight to focus the user's gaze; the size of the spotlight can be adjusted by touching.**

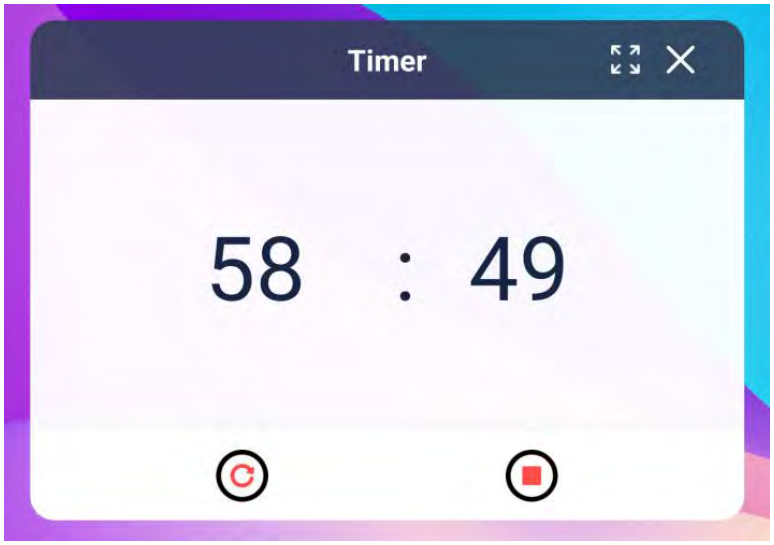


L. **Mute：Mute or unmute.**

M. **Screenshot:Swipe screenshot or capture full screen. The picture will automatically saved in the Pictures folder of the file manager;**

N. **Timer**

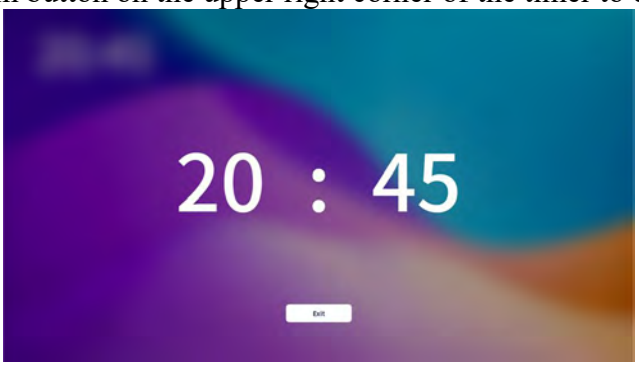
For reminder, maximum 1 hour.




Instruction：

- Start Timer: After setting the time, press the start button.
- Reset timer: pause the timer first, then press reset timer,re-count down the timer.
- Close timer:Press ‘ x’ on the upper right corner of the timer to close the timer.
- Minimize timer: After starting the countdown, no operation for 10 seconds, timer will automatically scale down and transparent.

- Expand timer: Press the zoom button on the upper right corner of the timer to expand the timer full screen.



# VII、Screen wake up

The display has a variety of ways to wake up

### （1）RS232 Wake up

Wake up via RS232 command.

When the device is in standby, send commands through the RS232 port, and the big screen will turn on upon receiving the commands.

- The command to wake up the big screen : 55 00 8E 00 E3
- Baud rate: 38400

### （2）Wake up on LAN

Wake up via network.

- Turn on the network wake-up function in settings
- Connect to wired network
- Windows PC stays on the same LAN as the big screen
- Wake Up Network tool on the PC
- Find the IP address of the big screen and you can wake it up

### （3）HDMI Wake up

When screen standby, the HDMI signal source can be inserted to wake up the large screen.

- Turn on Wake on HDMI in settings
- Display is in standby mode
- Connect the device via HDMI IN port to wake up the display

### （4）HDMI CEC Wake up

Power on the HDMI CEC device to wake up the display.

- Switch to HDMI channel
- Navigation bar - Signal source menu -More settings-Turn on the automatic power on function
- The large screen is connected to a CEC device with HDMI CEC function.(e.g.TV box or DVD)
- Connect the CEC device to the HDMI IN port of the large screen using an HDMI cable.
- Power on the CEC device to wake up the display.

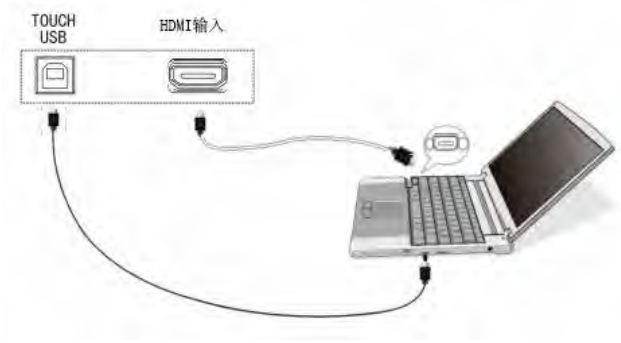
# VIII、Signal source and touch connection method

When using a computer for wired screen casting to the display, the touch can also be transmitted to the computer.

- HDMI 1/2/3 and DP uses the same TOUCH USB (Port J6)
- Front TYPE-C IN comes with touch
- Rear TYPE-C IN comes with touch
- OPS Come with touch
- Front HDMI IN using front TOUCH USB-B

## （1）HDMI IN wired screen casting and touch cable connection

- Using an HDMI cable, connect the HDMI output port of the computer to the HDMI IN port of the display
- Using the USB-B to USB-A cable, connect the external computer's USB-A port to the motherboard's TOUCH USB-B touch port




## （2）TYPE-C IN wired screen casting and touch cable connection

You need to use the TYPE-C cable that supports DP, and the device that supports TYPE-C screen casting, in order to cast the screen of the device to the big screen; and that the TYPE-C should come with USB data transfer function, so that touch data can be sent through.

The front TYPE-C also supports 100Mbps Ethernet sharing function to provide network for the device ( front board need to use RK3588.3_FRTA)

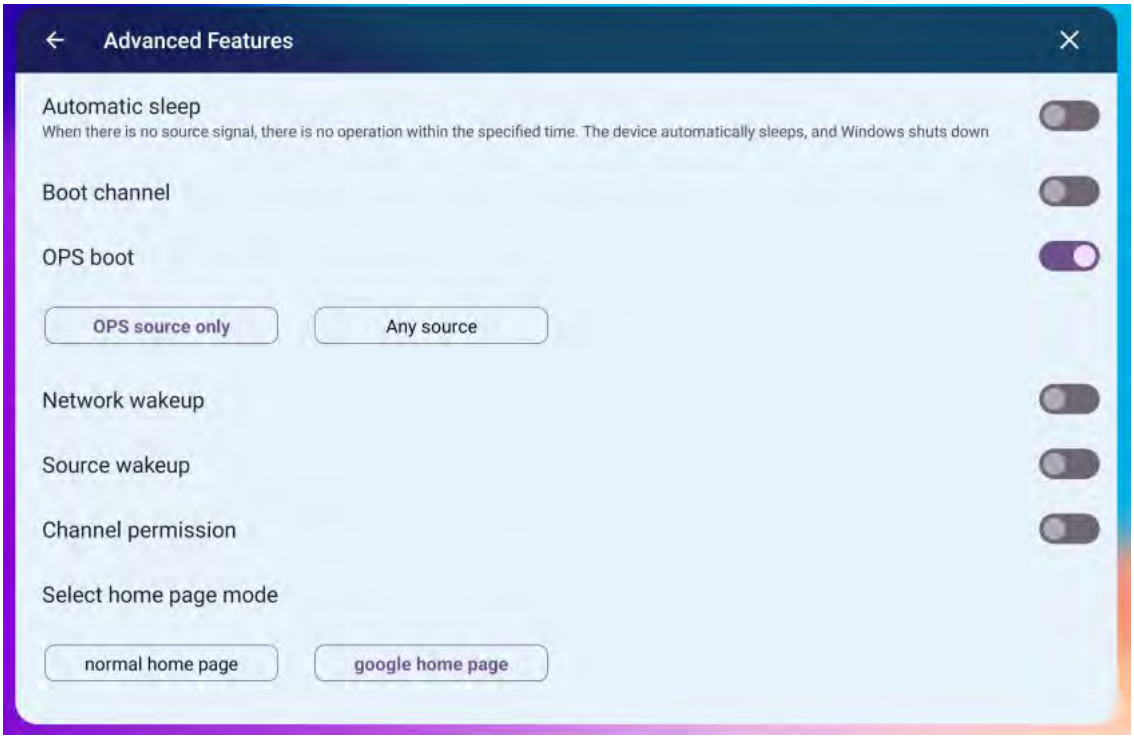
# IX、OPS Function

OPS includes various functions such as HDMI 2.0 IN, UART, USB 3.0 Follow, 1000Mbps Ethernet sharing, OPS switch on/off, and signal detection function.

## A. OPS switch on/off

Display controls OPS to switch on or off automatically

- Switching to OPS channel, choose manually open OPS.
- In settings, open the OPS boot option and choose the OPS self-start




- When the large screen shuts down, it will automatically control the OPS to shut down first, then shut down the large screen after the OPS completely shuts down.

## B. OPS built-in UART

Open the serial port tool and connect to COM2 port to use the serial port function.

## C. USB 3.0 Follow

OPS channel can mount the USB device connected to the Public USB3.0 port on the large screen, and supports up to USB3.0. Also supports touch follow function.

## D. Ethernet Sharing

OPS function supports 1000Mbps Ethernet follow function, when the RJ45 port of the big screen is connected to Ethernet, the display can provide Ethernet for OPS, the maximum support is 1000Mbps.

# Ⅹ、 HDMI Function

The large screen supports up to 4 HDMI IN to access the signal source at the same time, respectively HDMI 1/2/3 IN and Front HDMI IN; also supports HDMI OUT up to 8K 60Hz image output。

## （1）HDMI ARC/eARC

HDMI 1 IN can use ARC/eARC (only HDMI1), when HDMI1 is connected to ARC/eARC audio, the big screen can transmit the sound back to the audio.

How to use：

- The audio used needs to support ARC/eARC function;
- THDMI cable with one end connected to the large screen and one end connected to the audio ARC/eARC HDMI port
- Audio switch to ARC/eARC channel；
- When big screen plays audio on the Android or other source channel, the sound will sent back to the audio

## （2）HDMI CEC

This function is introduced on Ⅴ-(6)-A, B, C。

# XI、TYPE-C Function

## （1）Rear TYPE-C IN

### A. TYPE-C IN reverse charge

Maximum support PD65W (if the device is not PD charging protocol, the maximum can only use 15W charging)；

### B. TYPE-C as Public USB 3.0

TYPE-C port access to USB devices. Can read to that USB device under Android or channel. Maximum support for USB3.0 devices.

## （2）Front TYPE-C

### A. TYPE-C reverse charge

With RK3588.3_FRTA front panel, maxim PD15W。

### B. TYPE-C as Public USB3.0

TYPE-C port access to USB devices. Can read to that USB device under Android or channel. Maximum support for USB3.0 devices；

### C. TYPE-C Network sharing

With RK3588.3_FRTA front panel, support 100Mbps network sharing (need RJ45 port of large screen to access Ethernet)。

## （3）TYPE-C OUT

### A. Video Output

Supports up to 4K 60Hz output (when HDMI OUT outputs 8K images, the TYPE-C OUT output image function is turned off))

### B. TYPE-C as Android USB 3.0

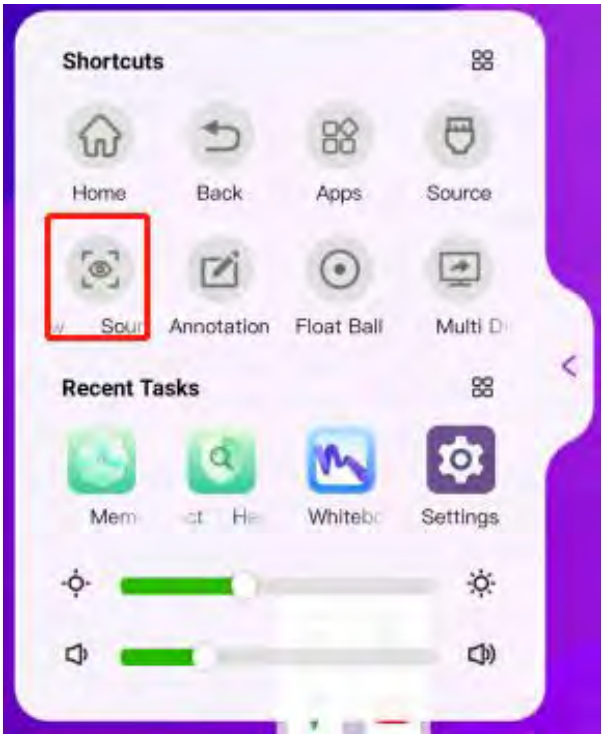
TYPE-C OUT support USB3.0, you can access 3.0 U disk use, only Android channel can read.

# XII、Double Channel Preview Window

The display supports simultaneous display of dual-channel source windows (left), and only supports dual-channel display of HDMI1 + other source channels.

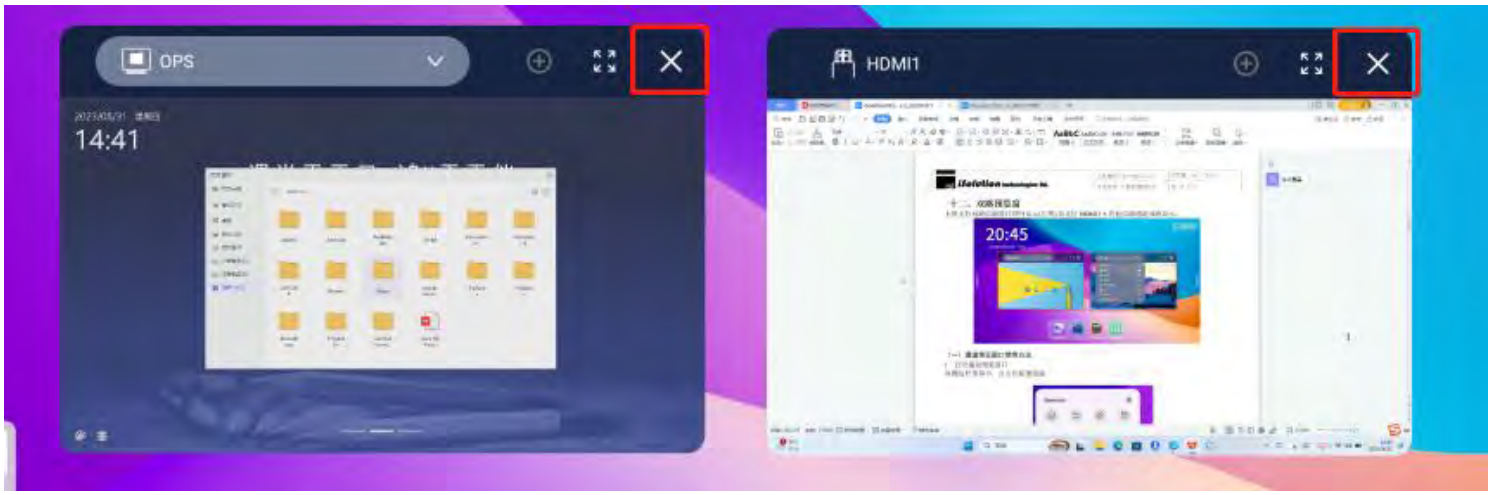
## （1）How to use the channel preview window

### A. Open the source preview window



### B. Close the channel preview window

Press the × in the lower right corner of the preview window to collapse the preview window.

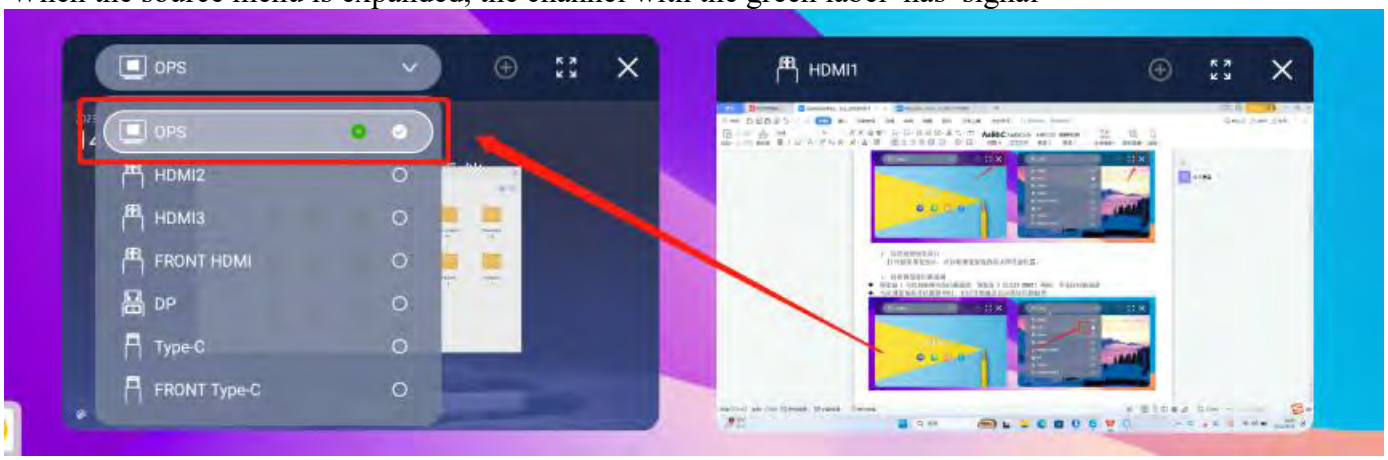



### C. Floating channel preview window

After opening the floating preview window, you can drag the preview window to any position on the big screen.

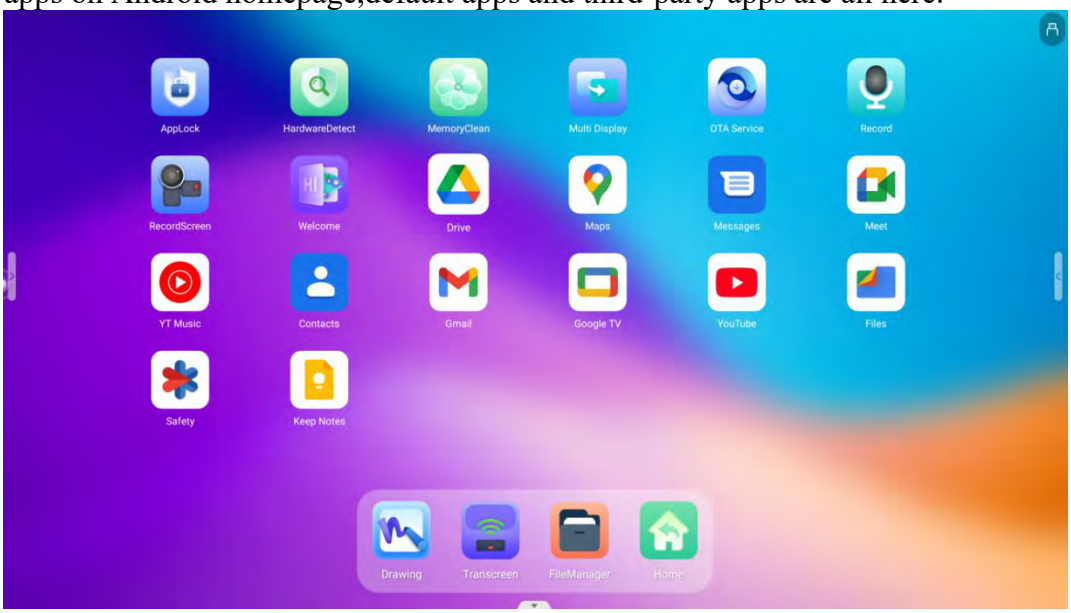
### D. Switch the preview window source channel

- Preview window 1 can switch all source channels, preview window 2 only supports HDMI1 screen, does not support switching channels
- When the source menu is expanded, the channel with the green label has signal



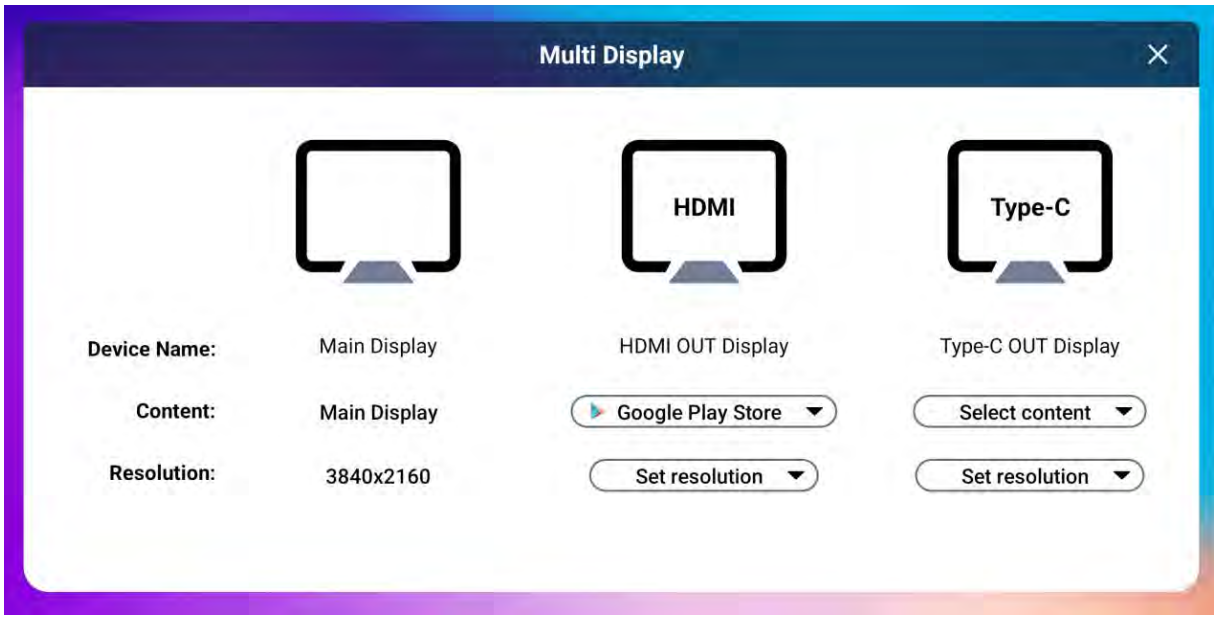
## XIII、Applications

Choose more apps on Android homepage,default apps and third-party apps are all here.




## XIV、Multi-screen extension

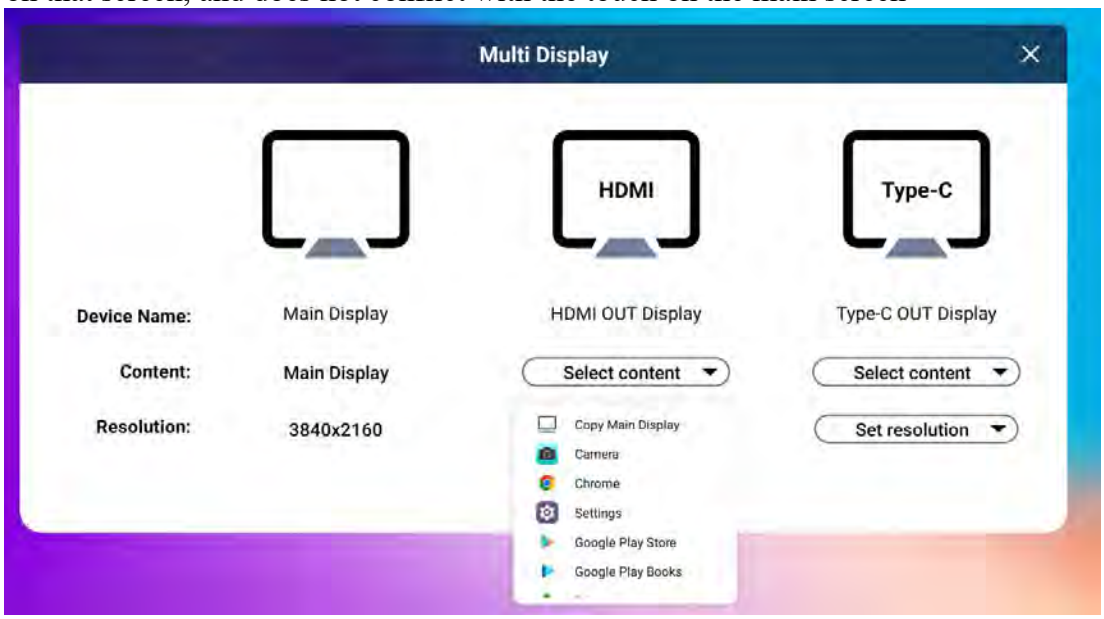
Multi-screen expansion function, you can output the large-screen application screen to other displays through wired projection (HDMI OUT and TYPE-C OUT), and support up to 3 screens to display 3 different applications at the same time (main screen+HDMI OUT+TYPE -C OUT), or copy the main screen to the secondary displays. It is also possible to set the resolution of other displays.



### （1）Display content (output screen)

You can choose the content on the secondary screen. When connected to HDMI OUT and TYPE-C OUT, the default selection is to copy the screen of the main screen; you can also manually select other applications to be output, so 3 applications can be displayed at the same time.

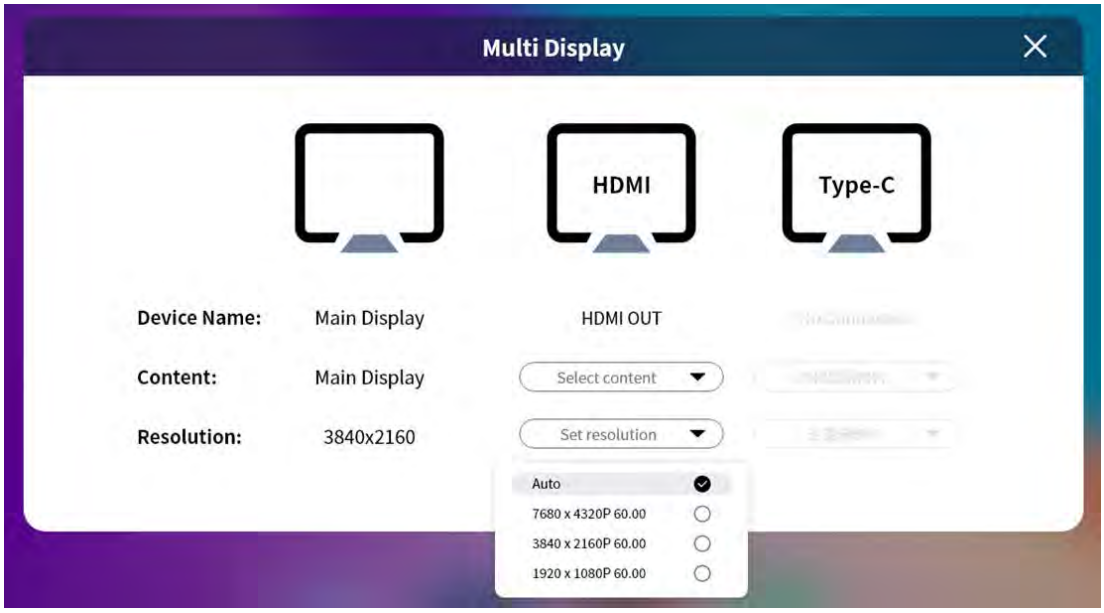
If the display connected to the TYPE-C OUT has touch function, then when connected, it also supports the touch function on that screen, and does not conflict with the touch on the main screen




### （2）Resolution

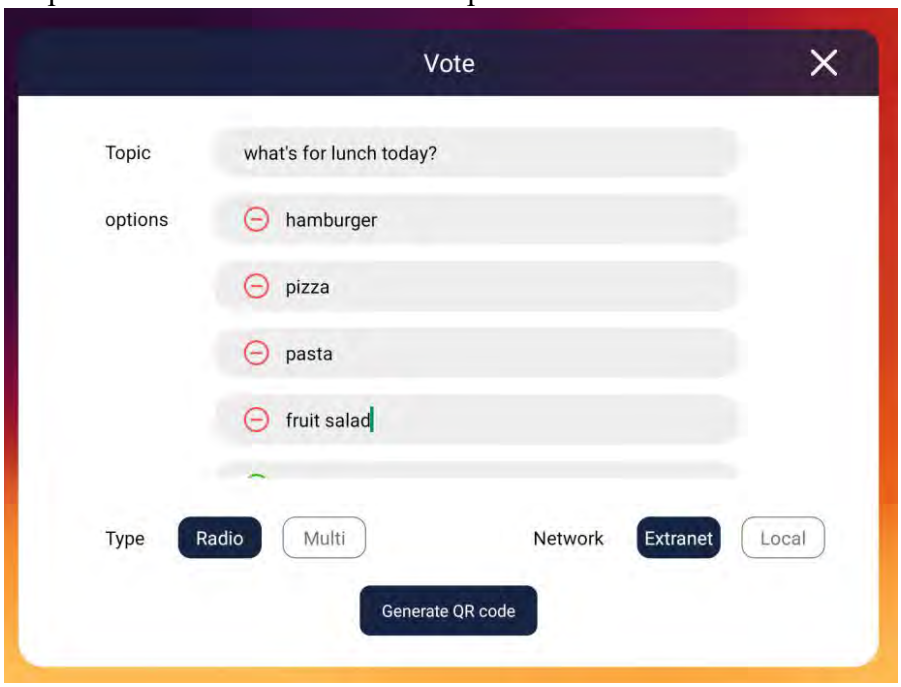
Secondary screen resolution selection, HDMI OUT supports up to 8K 60Hz (this option will only appear when the monitor supports 8K 60Hz, and HDMI2. 1 cable is required), TYPE-C OUT supports up to 4K 60Hz.

- HDMI OUT default output 4K 60Hz
- When the source menu is expanded from the preview window, a green label will,appear on the channel if there is signal.



# XV、Vote

The Vote app can help the team make decisions on important issues。

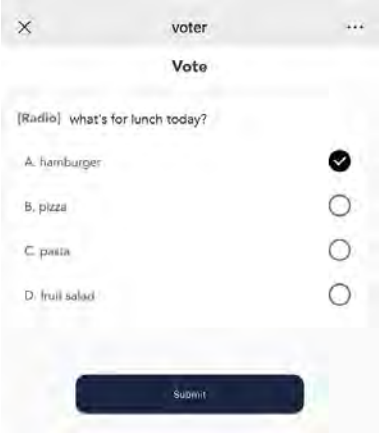



## （1）How to use

- Voting topic: The topic of this voting needs to be written (required).
- Voting options: Set the voting options for this time. There are at least 2 voting options (required).
- Option type: Set whether the voting option is single or multiple.
- Network: The network is divided into the external network and the internal and external network. When selecting the external network, the large screen and the participating voter can not be in the same LAN; When selecting the Intranet, the large screen must be on the same LAN as the participating voter.
- Generate two-dimensional code: After setting the above content, choose "Generate two-dimensional code" and the large screen will display two-dimensional code and update the voting status in real time.
- When the QR code is too small, you can press the enlarge button to enlarge the QR code; After enlarging, you can press the blank area outside the two-dimensional code to close.

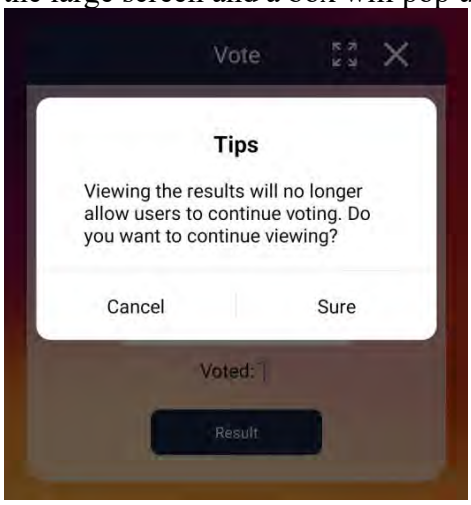
### （2）Voter operation progress

- Voters scan the code for voting.
- Choose the options
- Submit

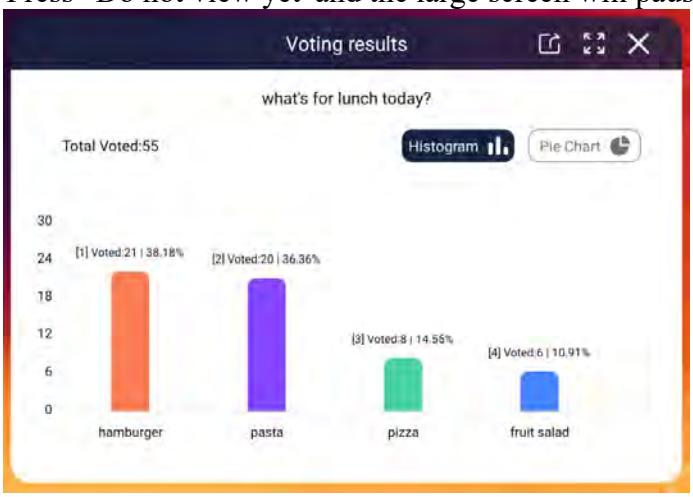


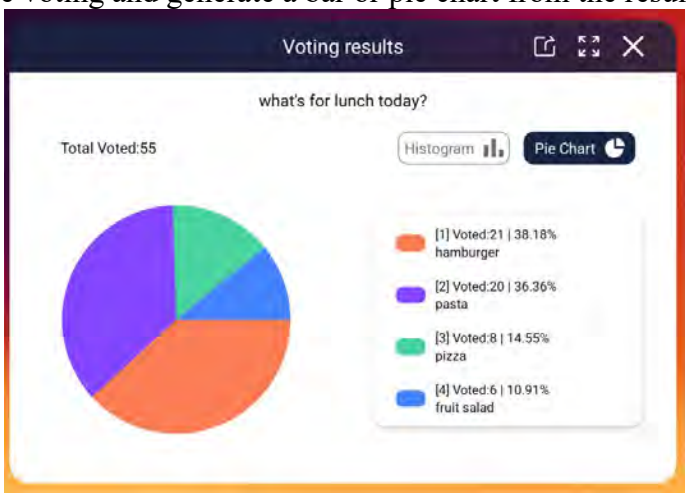

### （3）Vote result

- Press the 'View Results' button on the large screen and a box will pop up asking you whether to close the vote.




- Press 'Do not view yet' and the large screen will pause voting and generate a bar or pie chart from the result.



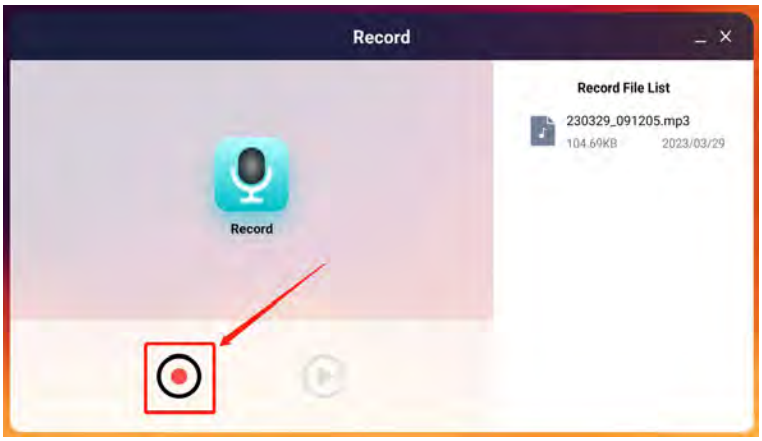



# XVI、Record

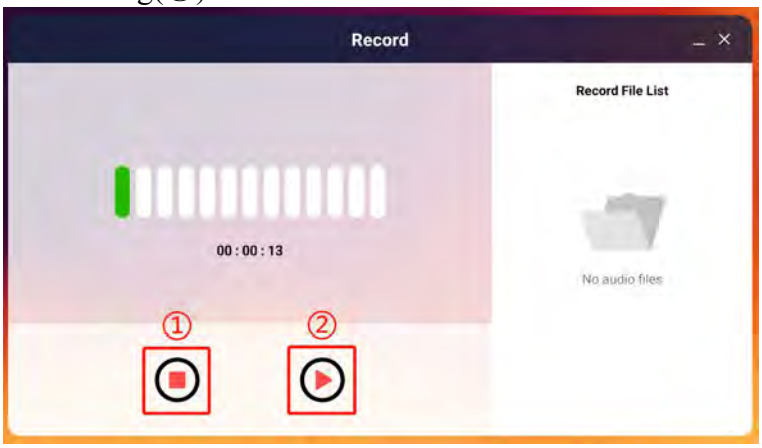
Recording large screen external sound sources to record classroom content or meeting content.

How to use：

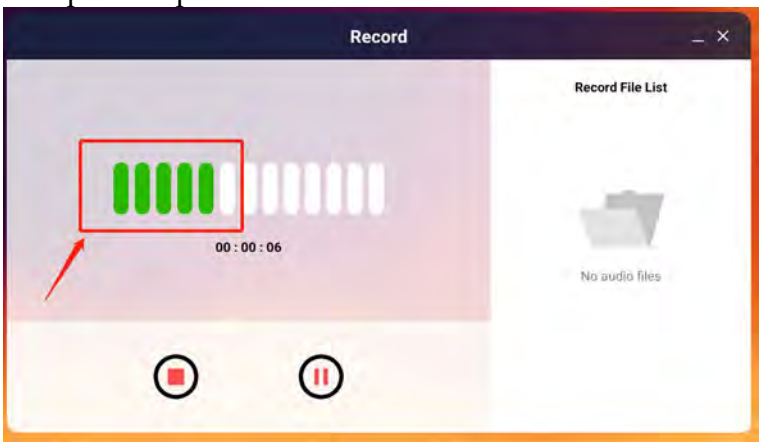
- Press the record button.




- End recording(①) Pause recording(②)

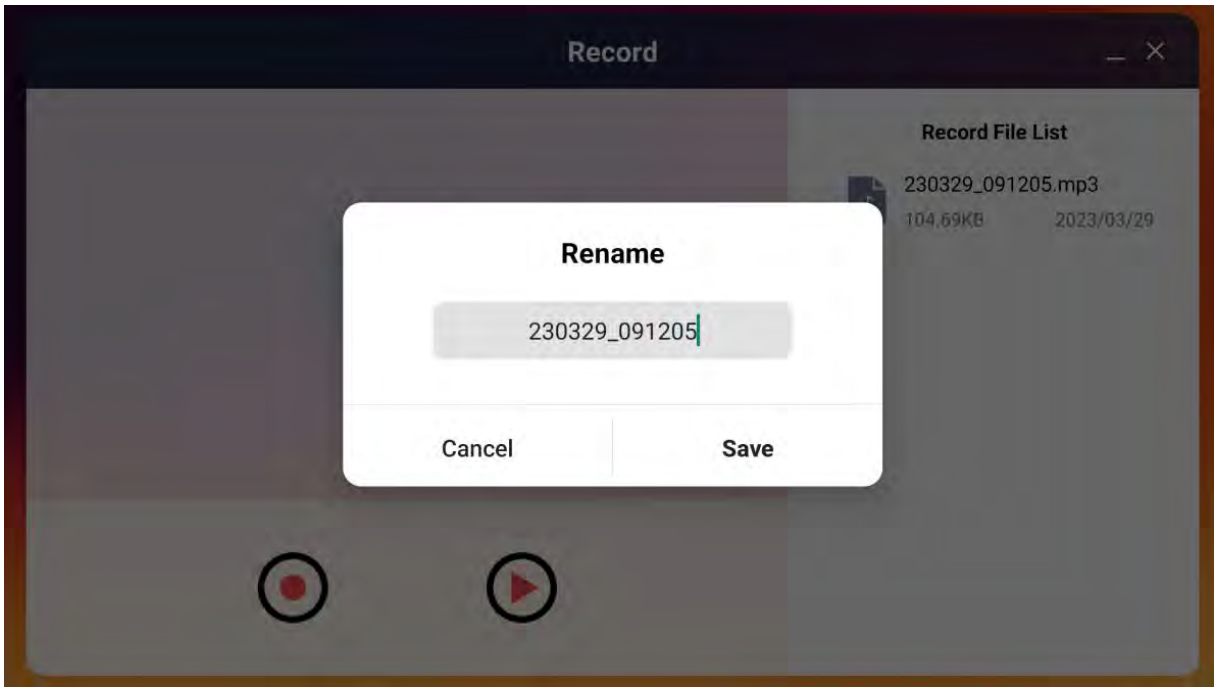



- If an external sound source exists, the recording application screen displays a green voice print, indicating whether the large screen has picked up the external sound source.



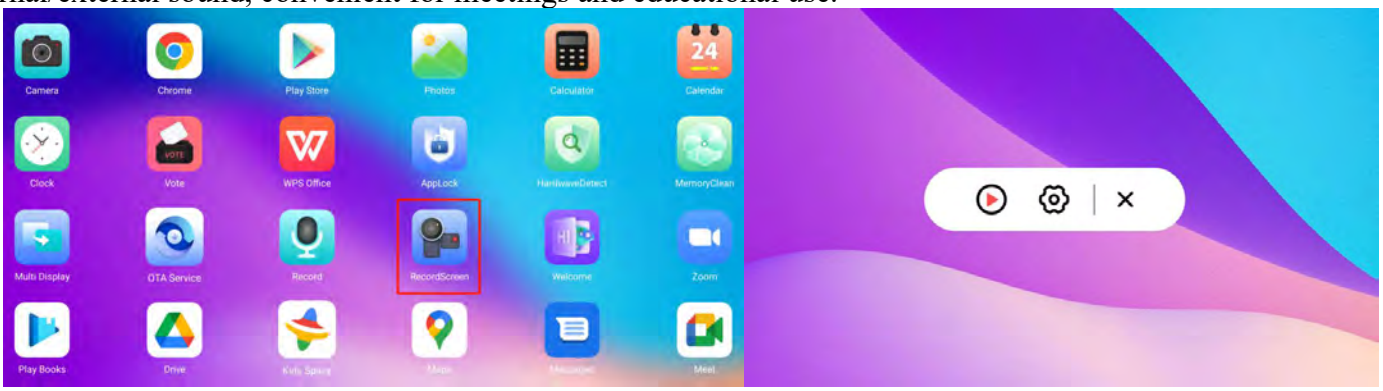
- Recording file

Press the recording file for 1-sec . You can play the file, skip the system player to play, rename,or delete the recording file .

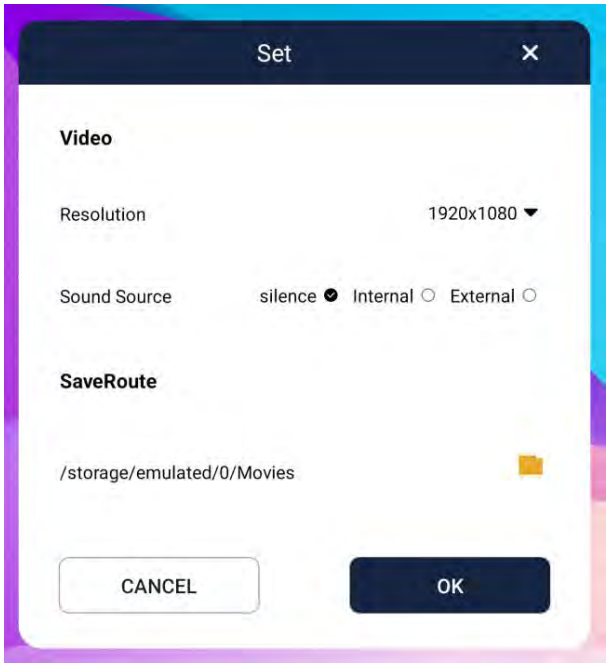


# XVII、Screen Recorder

Screen recorder can record Android and PC screen images, as well as the option to record large internal/external sound, convenient for meetings and educational use.




## （1）Setting




### A. Resolution

Screen recorder support 3 resolutions：1920*1080、1280*720、854*480. Default 1920*1080.

### B. Sound source

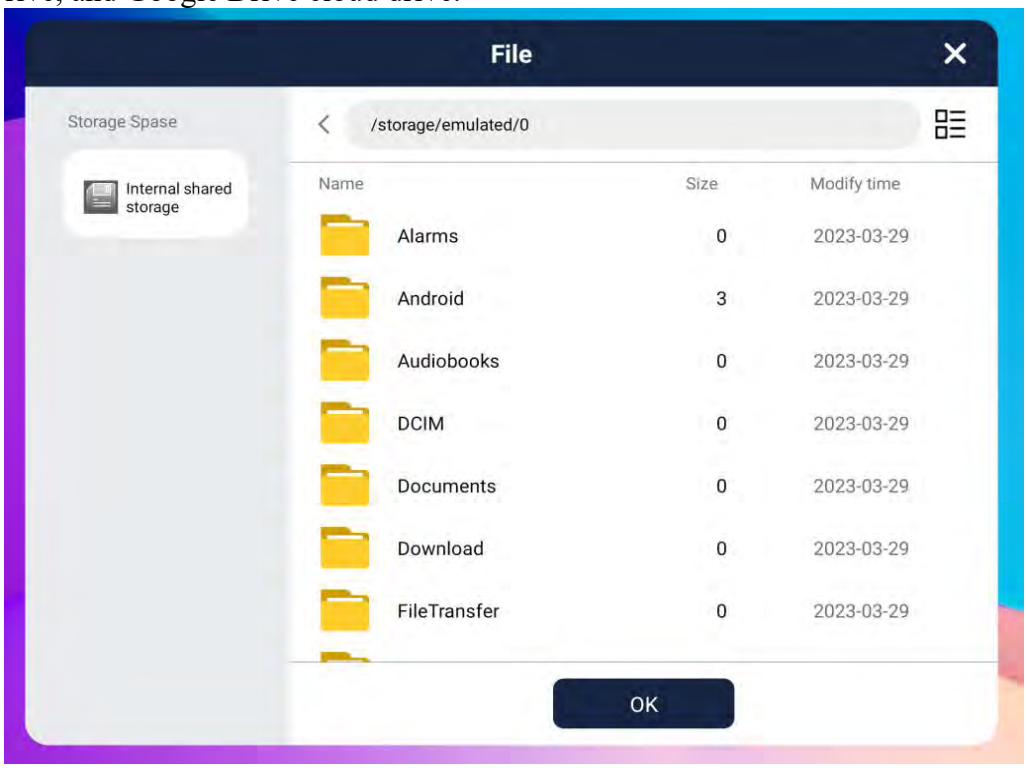
There are three kinds of sound test: silent, internal and external. If you need to record, you need to connect the recording microphone。

- Silence: Only a large screen is recorded, but no sound is recorded
- Internal: Records internal sounds on a large screen, such as those in multimedia or source channels

- External: Record ambient sounds, such as teacher lectures, meeting discussions, etc

**C. Save Path**

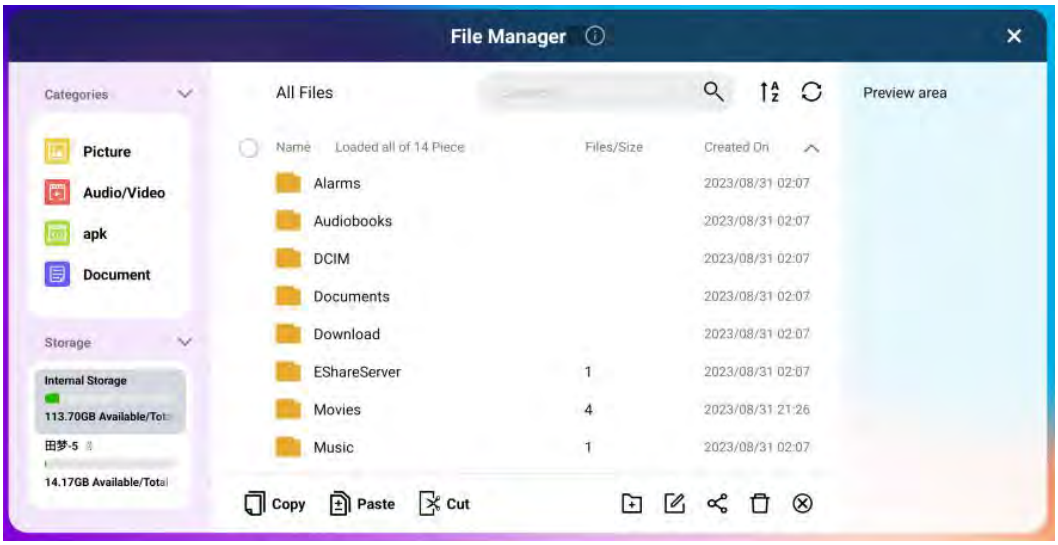
Files will default store in the large-screen internal storage space. However, it also supports external storage, such as USB, One Drive, and Google Drive cloud drive.




**（2）Start recording**

When you click Start Screen Recording, the screen recording app will automatically become a floating window. The floating window will be moved to the lower right corner of the large screen and can be dragged freely. Three function can be use on floating window.Screen recording duration, end screen recording, pause screen recording.

# XVIII、File Manager




## （1）Classified browsing

The file manager can classify files by image, audio/video, installation package, and document.

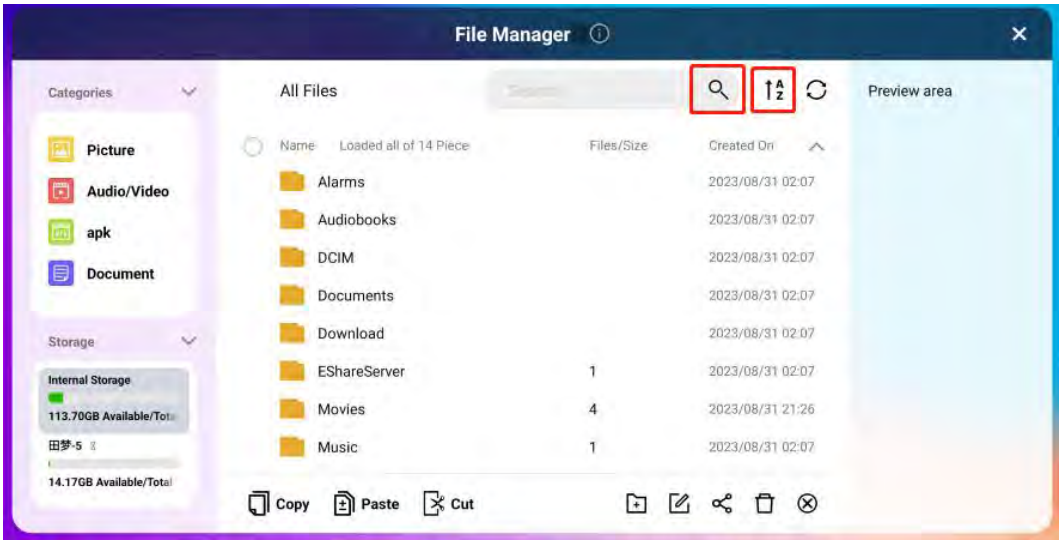
## （2）Common functions

### A. File Searching

If you enter a keyword, you can search for all files with the keyword in the current folder.

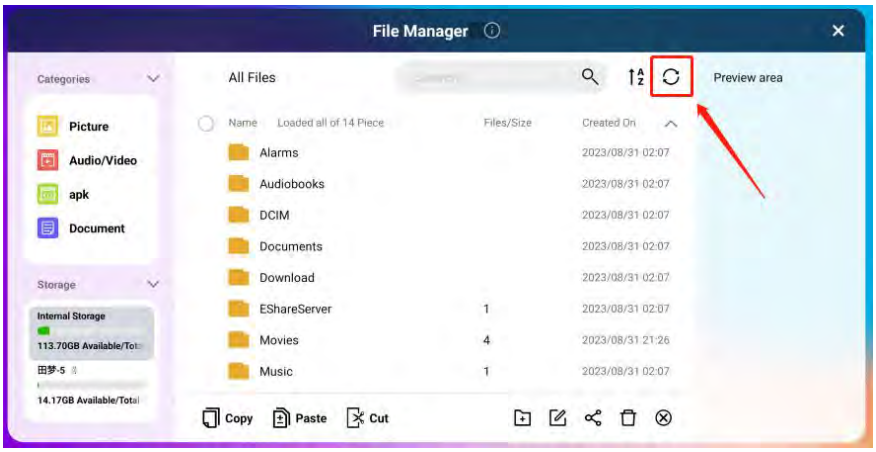
### B. File sorting

Sort files or folders by certain rules (name, size, time, type).



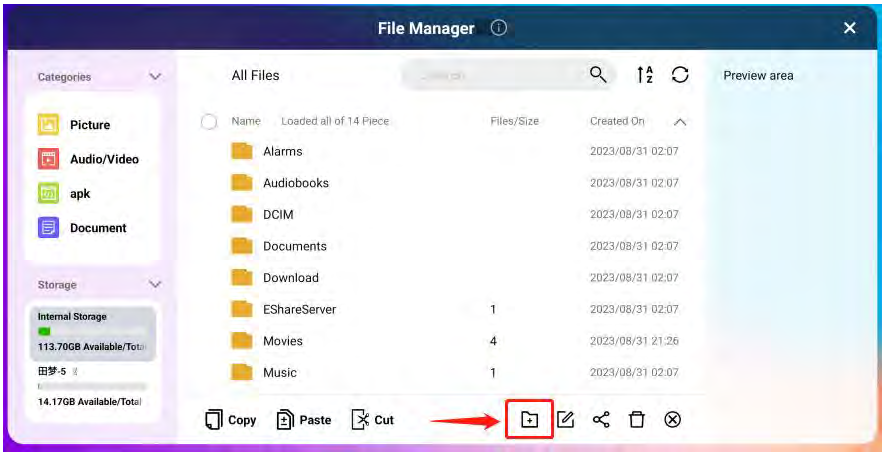

### C. Refresh

Refresh the file.



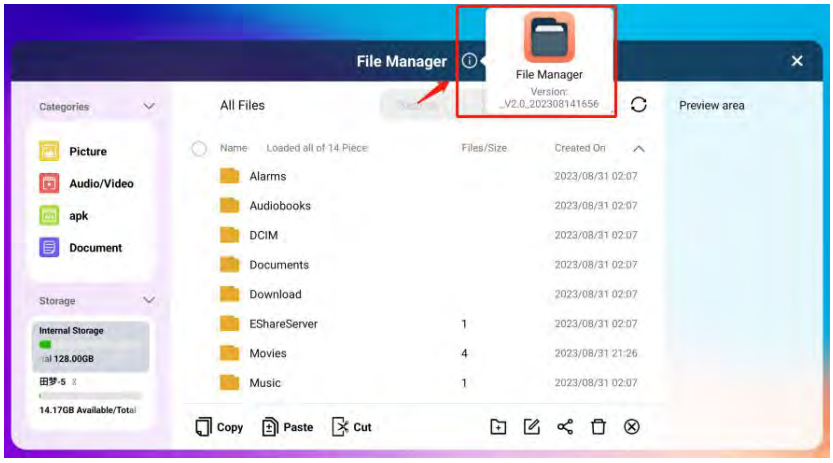

### D. New folder

Creating a new folder.

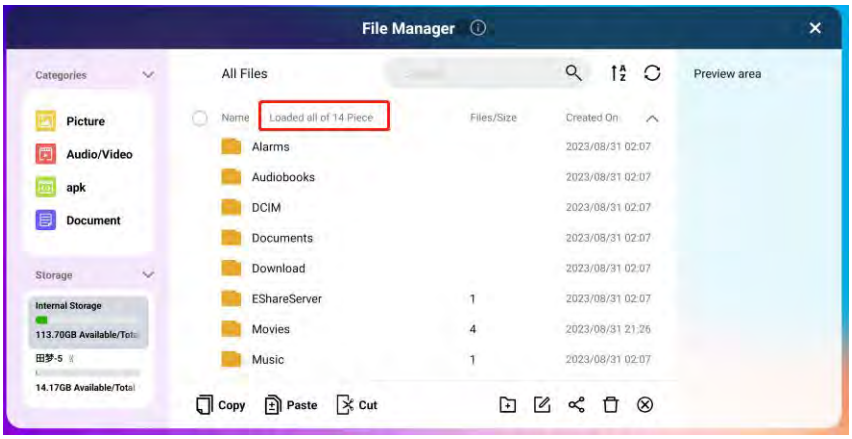


## E. About

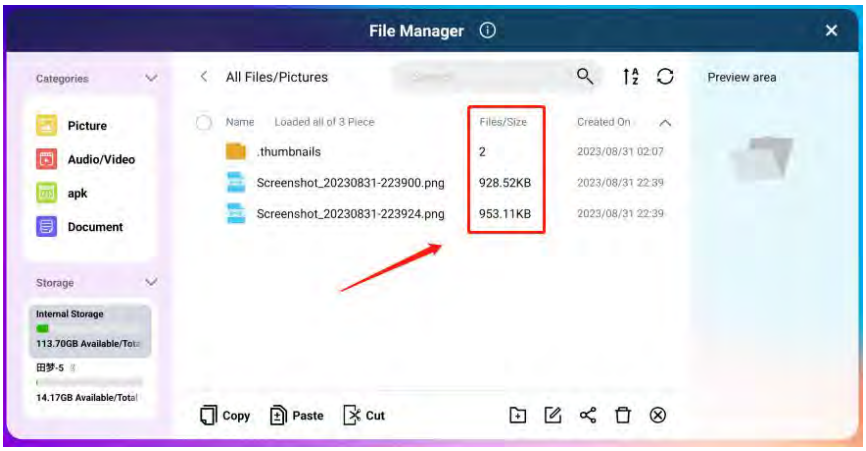
Check the version of the folder;



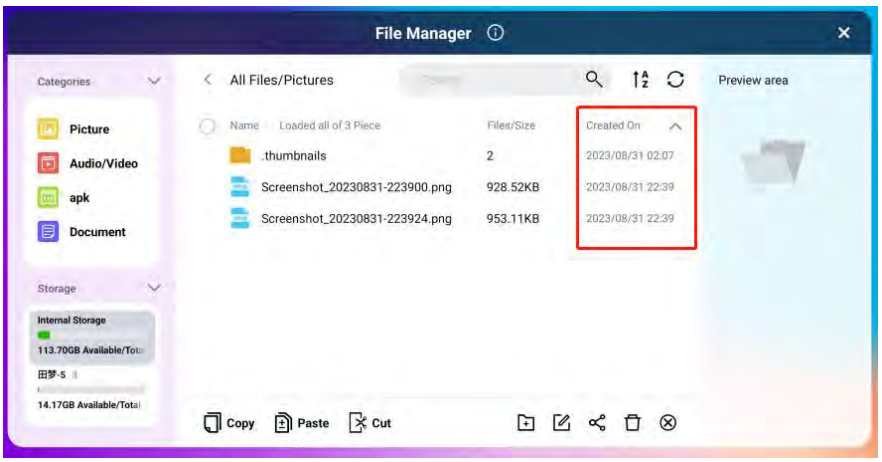

## F. Show the number of subfiles




## G. Show the file size

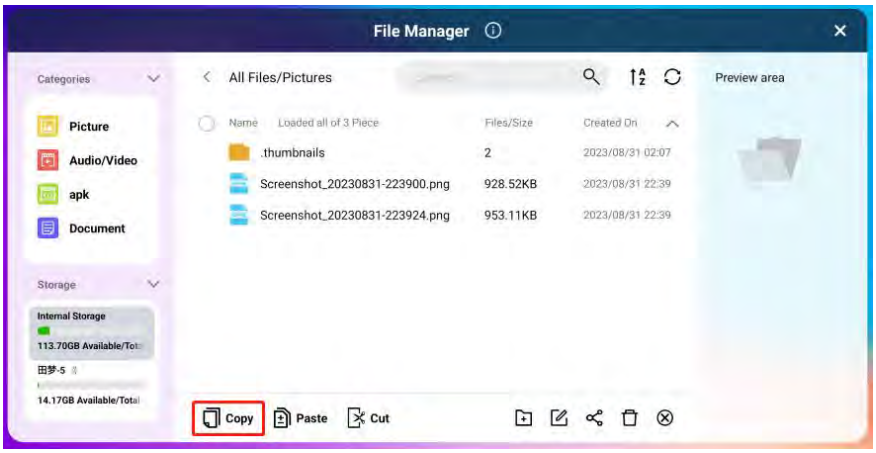


## H. Show the edit time on the file



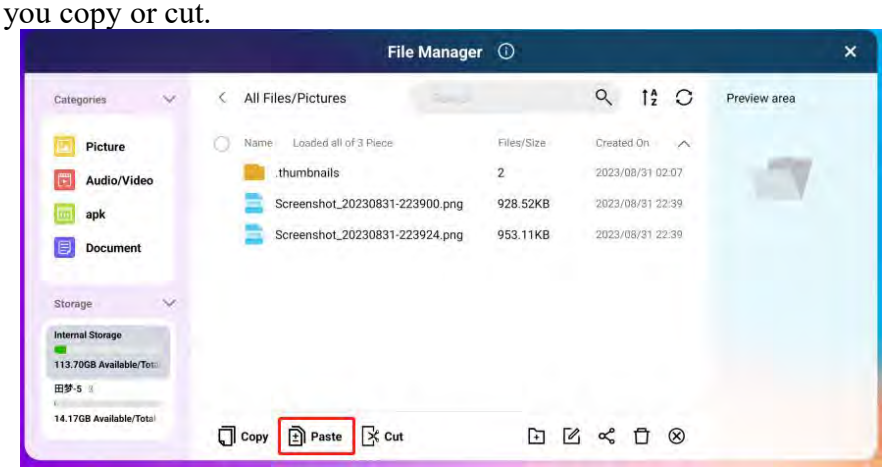

## I. Copy

Duplicate the file to another folder.

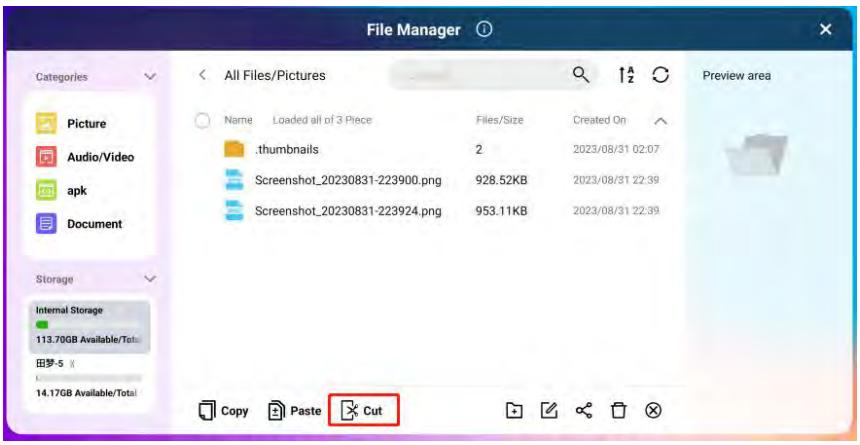



## J. Paste

Paste the file that you copy or cut.

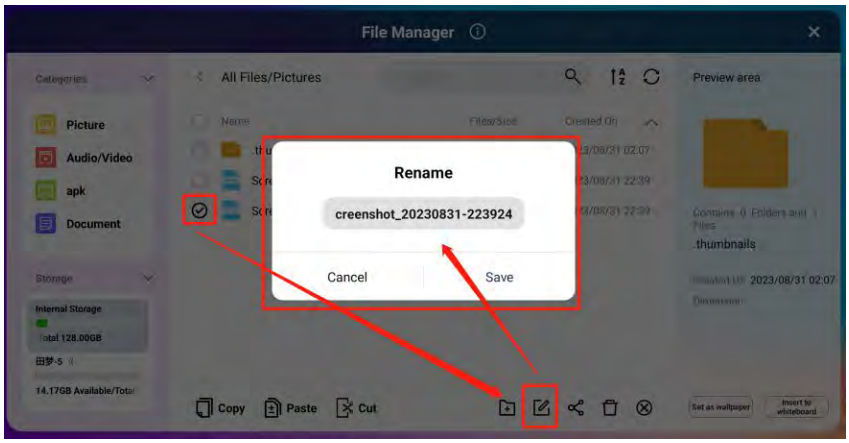


## K. Cut



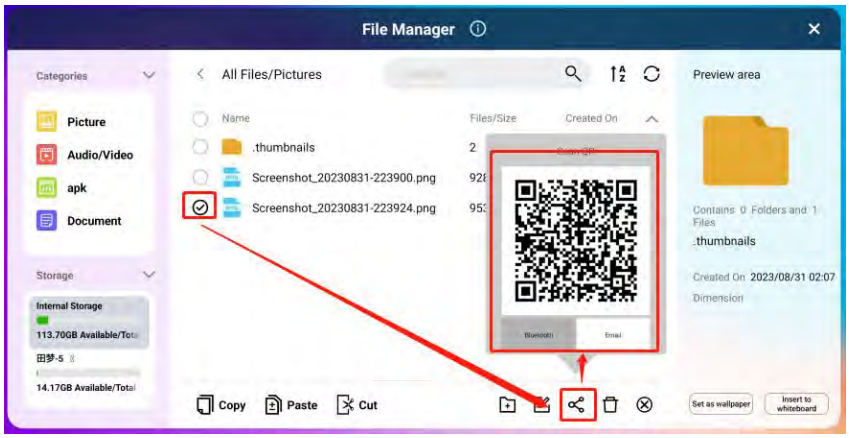

## L. Rename

Choose the file then rename.



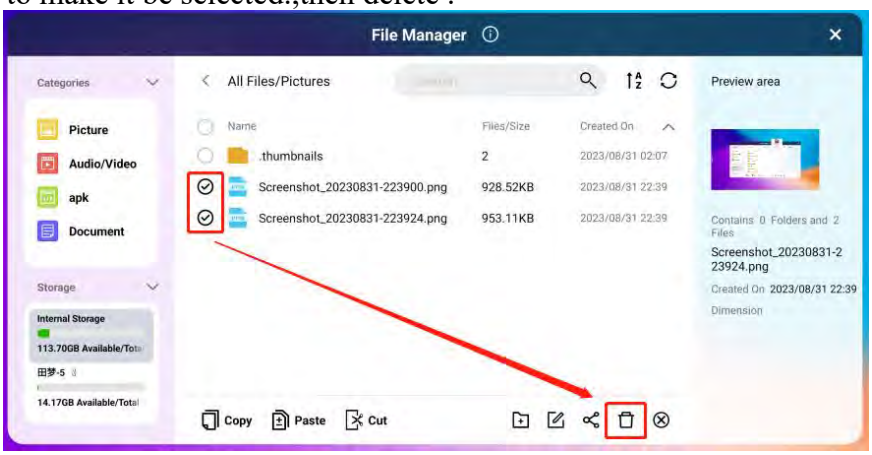

## M. Share

Connect the mobile phone and the large screen to the same LAN, select the file ,then choose Share, scan the QR code, download and browse the file .



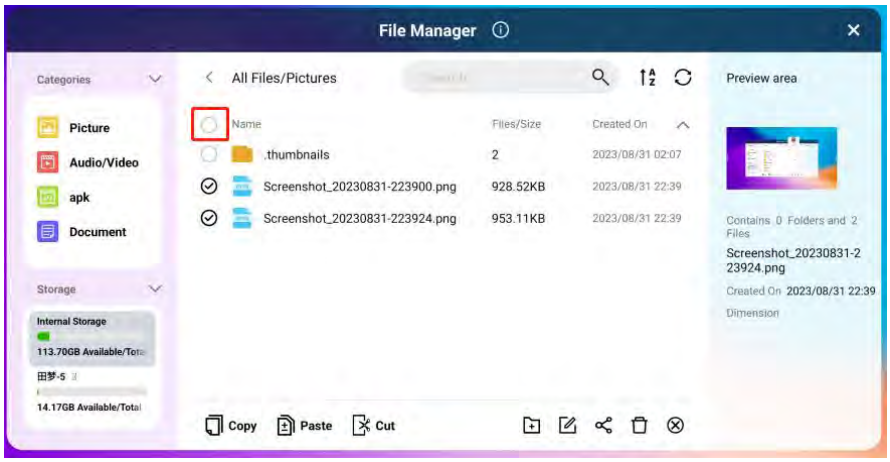
N. **Delete**

Long press the file to make it be selected.,then delete .



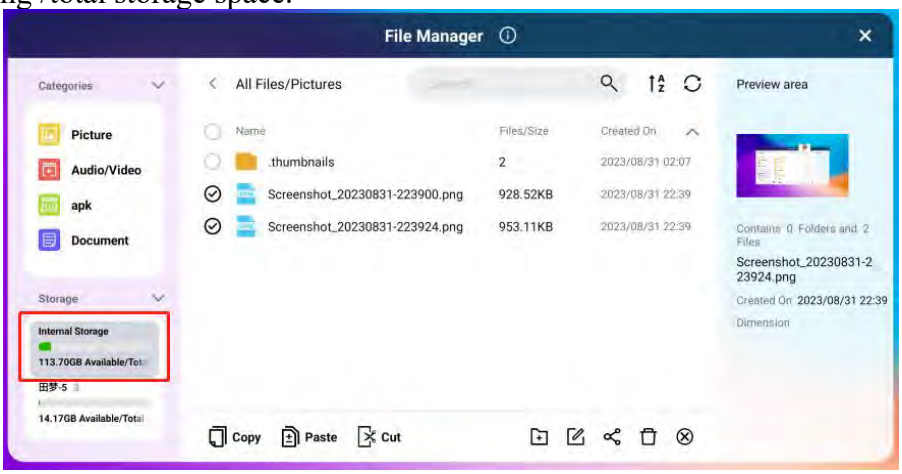

0. **Select all file**

Long press the file to make it be selected. Press the small circle on the icon to select all files under the current folder or uncheck them all.



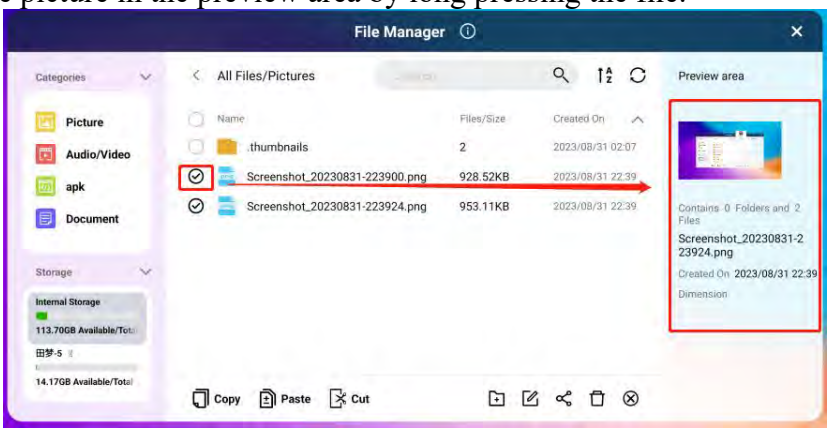

## （3）Storage space

Show the remaining /total storage space.



### （4）File preview

You can preview the picture in the preview area by long pressing the file.

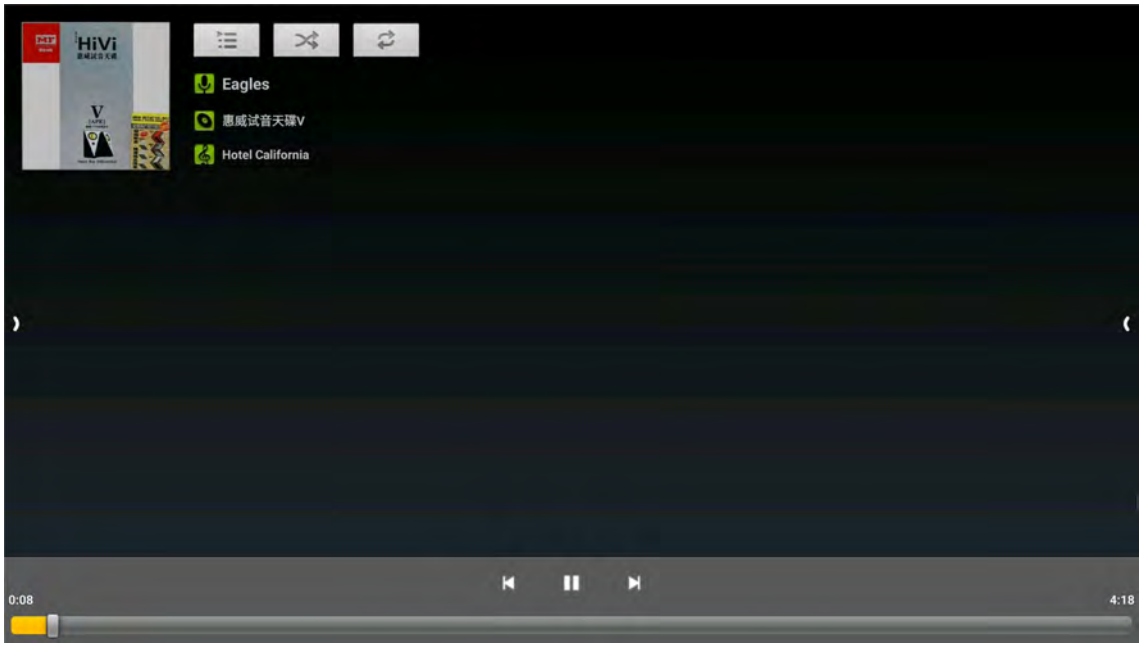



## XIX、Media Player

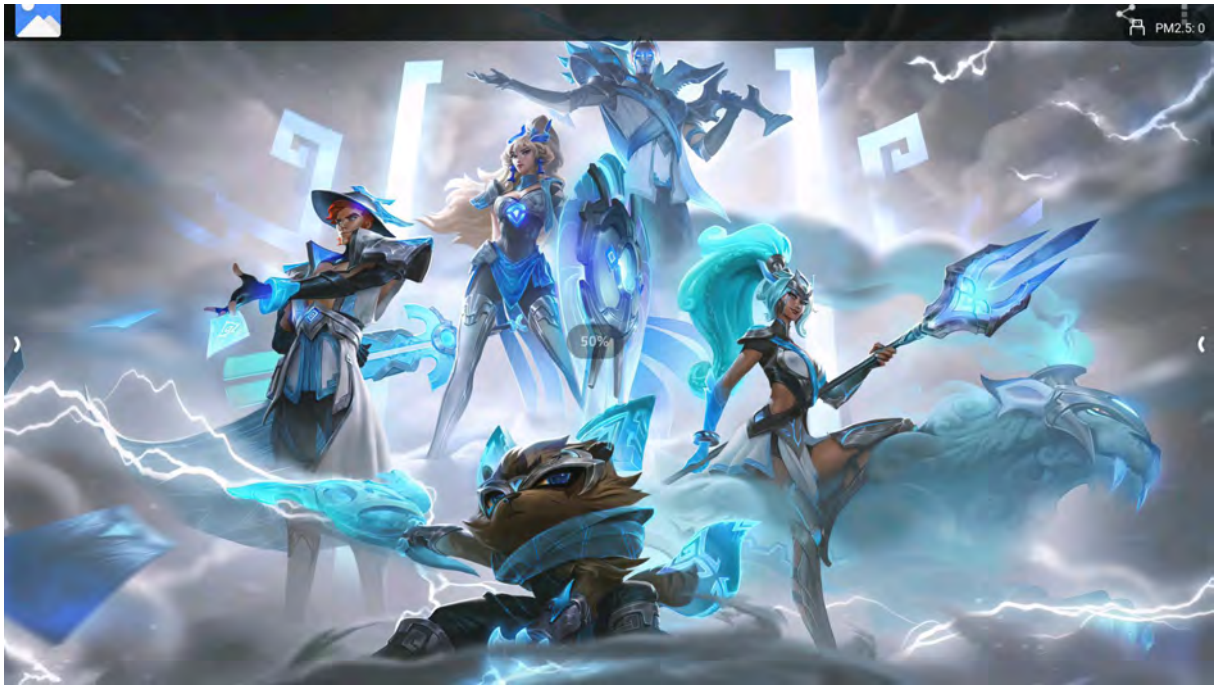
The system has a built-in video/audio/picture player, but it has been integrated into the file manager. You can open audio, video and picture files from the file manager and play directly.

### （1）Video player

（2）**Audio player**



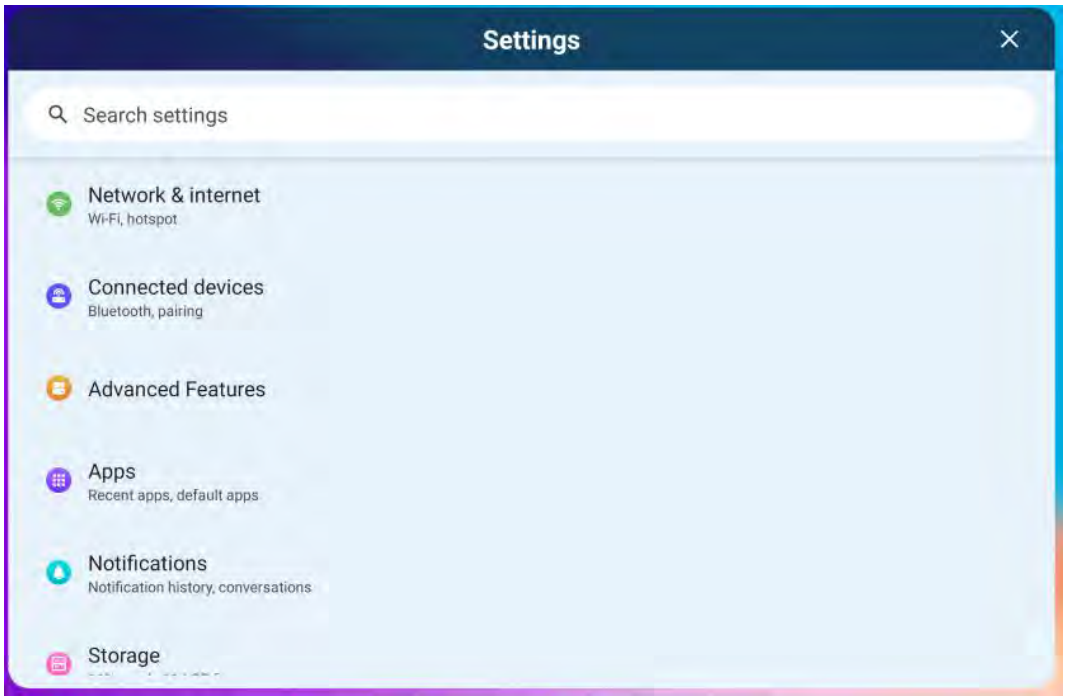

（3） **Image viewer**



# XX、Setting

Settings of the system can be found here.

## （1）Network



### A. Wireless Network

Big screen should connect WIFI

- The large screen carries a WiFi module (DCT85N2001) by default, which supports WiFi5, with a maximum uplink and downlink speed of 866Mbps, and supports 2.4GHz and 5GHz frequency bands.

- RK3588.3 supports up to WIFI6 (WXT14R2201), and the maximum uplink and downlink speed of this module is 1201Mbps. Supports 2.4GHz and 5GHz frequency bands.

### B. Wired Network

The large screen has 2 Ethernet ports, but only supports single network port input, and the maximum link speed is 1000Mbps.

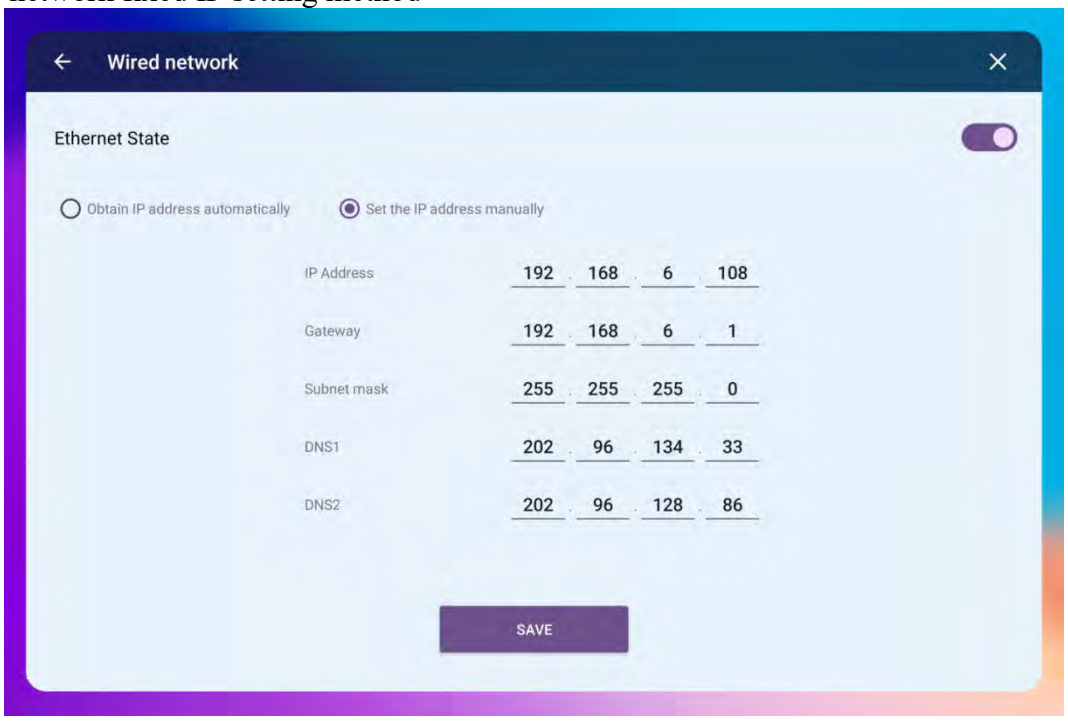
Wired network sharing function:

- Provide network for PC: The large screen has 2 Ethernet ports. When one is connected to Ethernet, the other network port can be connected to PC for Internet use by PC, with a maximum link speed of 1000Mbps.

- Provide network for OPS: When the network port of the large screen is connected to the Ethernet, switch to the OPS channel, and the OPS computer will also have network, with a maximum link speed of 1000Mbps.

- Provide network for front TYPE-C: When the network port of the large screen is connected to Ethernet, switch to the Front TYPE-C channel, and Front TYPE-C will also have network sharing, with a maximum link speed of 100Mbps.

Wired network fixed IP setting method

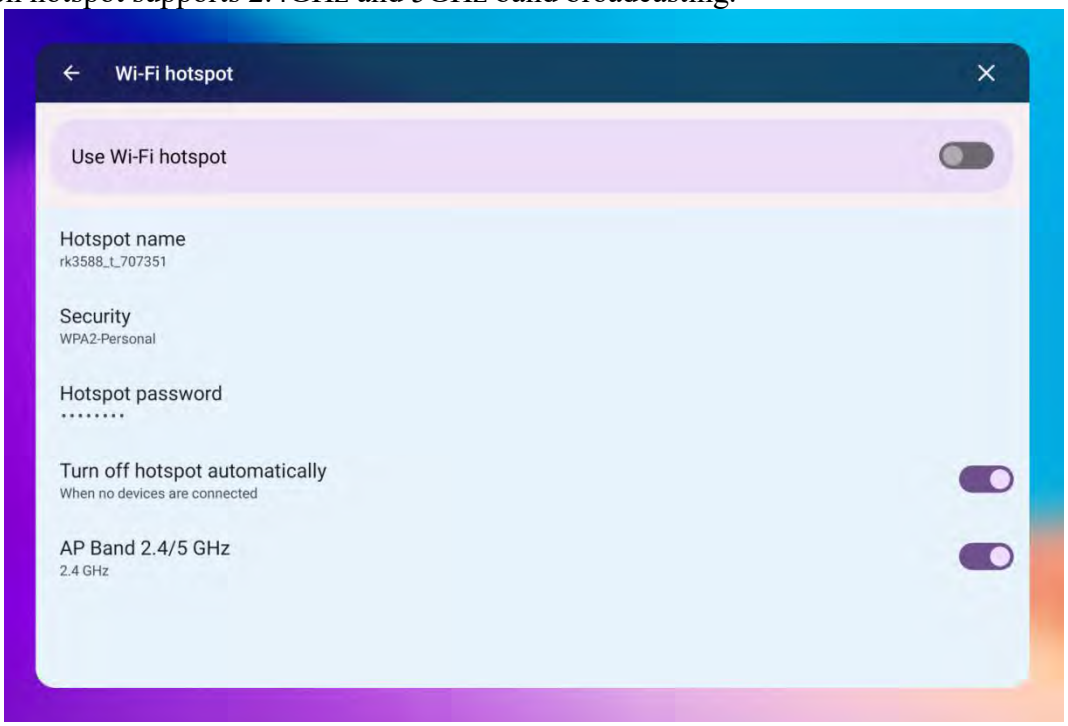



- Fill in the IP segment of the router to the IP address of the big screen
- Fill in the gateway of the router

- DNS can be set to 8.8.8.8 or 8.8.4.4
- Once set up, you can use the fixed IP of the wired network to access the Internet

### C. Hotspot

Large screen hotspot supports 2.4GHz and 5GHz band broadcasting.



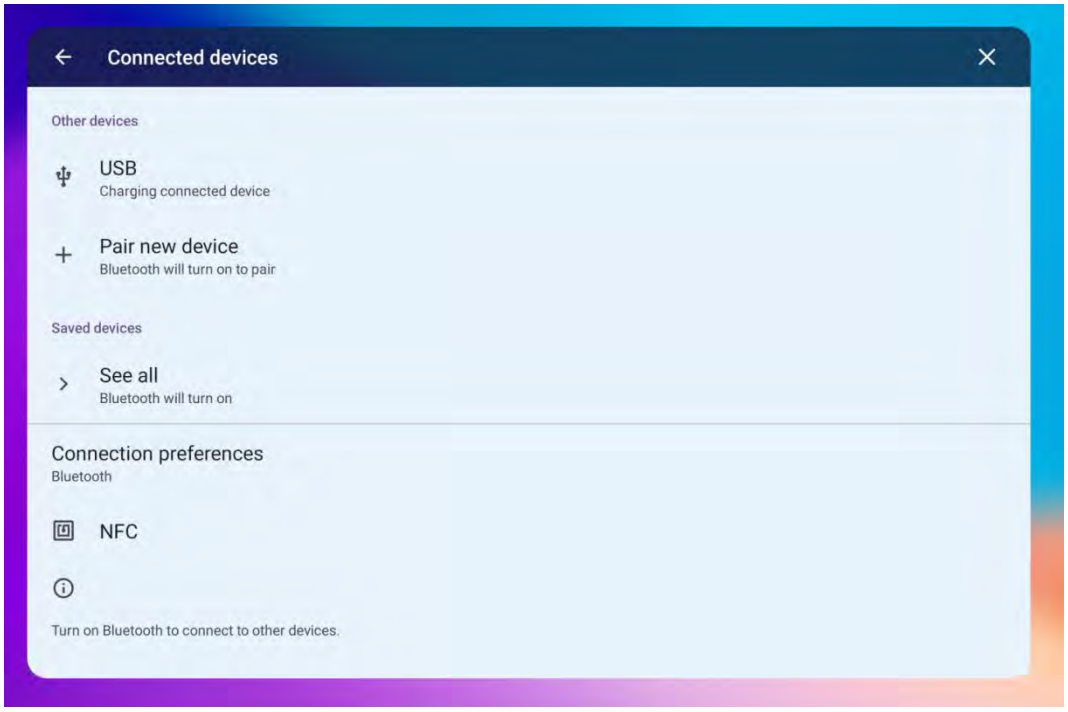

- The large screen carries a hotspot module (DCT85N2001) by default. This module supports WiFi5, The maximum link speed of uplink and downlink is 866Mbps, and supports 2.4GHz and 5GHz frequency bands.
- RK3588.3 supports up to WIFI6 (WXT14R2201), and the maximum uplink and downlink speed of this module is 1201Mbps. Supports 2.4GHz and 5GHz frequency bands.

### D. Network status

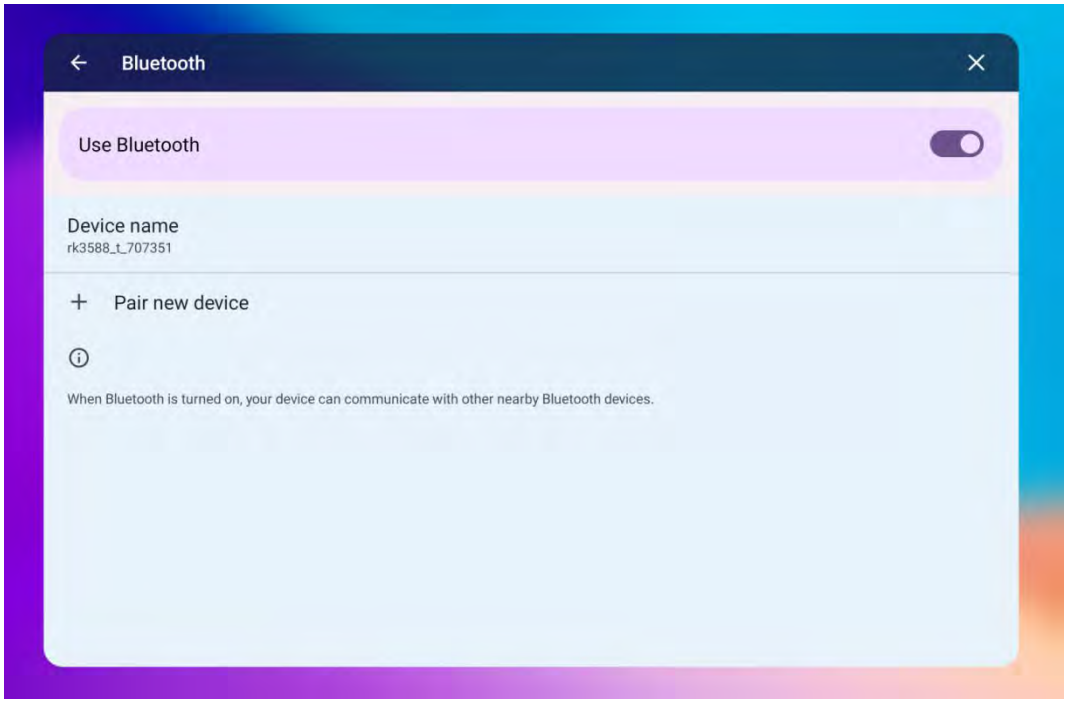
Network information of the display.

## （2）Connected Devices

You can found Bluetooth and NFC here.




### A. Bluetooth



B. **NFC**

You can set the function for the added NFCS. By swiping the NFC card, you can quickly start applications, unlock channels, log in using NFC, and wake up the standby screen.

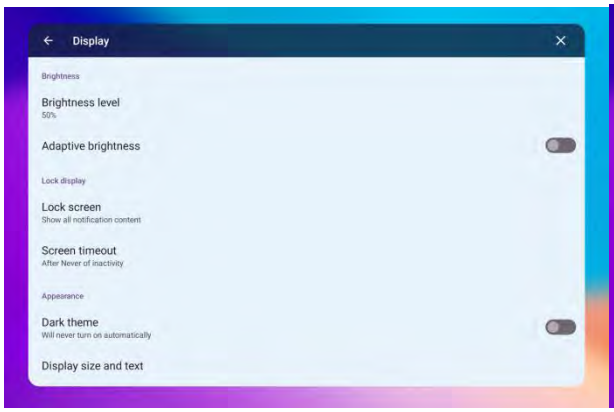
How to use：

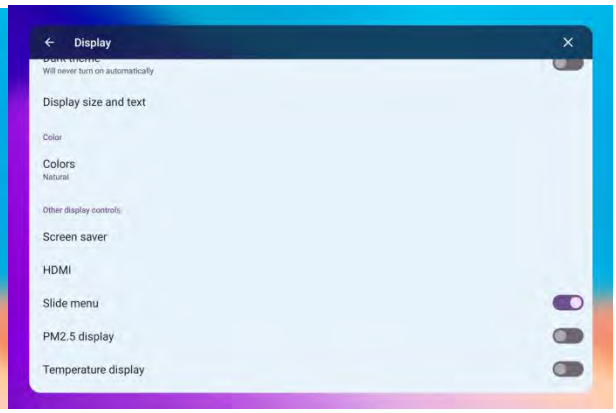
- Add NFC card
- Press the Add button in the upper right corner of the NFC interface.
- Use the administrator card to swipe the identification area of the NFC module to unlock the large-screen NFC function；

- Swipe the NFC card to the identification area of the NFC module on the large screen for binding.
- Press ‘OK’.
-

（3）**Display and volume**

You can set the brightness, volume, touch sounds, show PM2.5,show temperature.



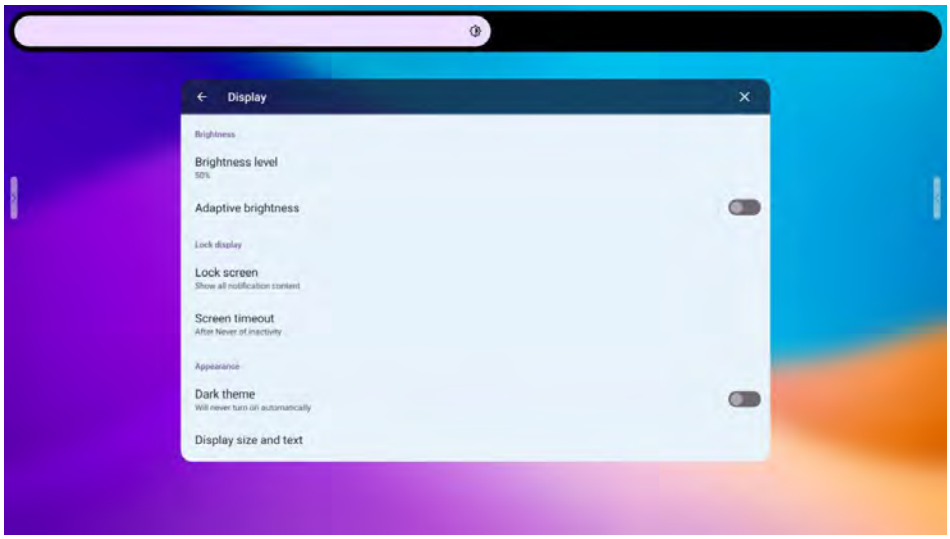



### A. Brightness mode

- Standard mode: The default screen brightness is 80, and the brightness cannot be adjusted manually
- Custom mode: You can manually adjust the brightness of the large screen
- Automatic mode: Control the brightness of the large screen according to the ambient light intensity. The greater the ambient light intensity, the higher the screen brightness. You cannot manually adjust the brightness
- Energy-saving mode: The brightness is set to 50, and cannot be adjusted manually

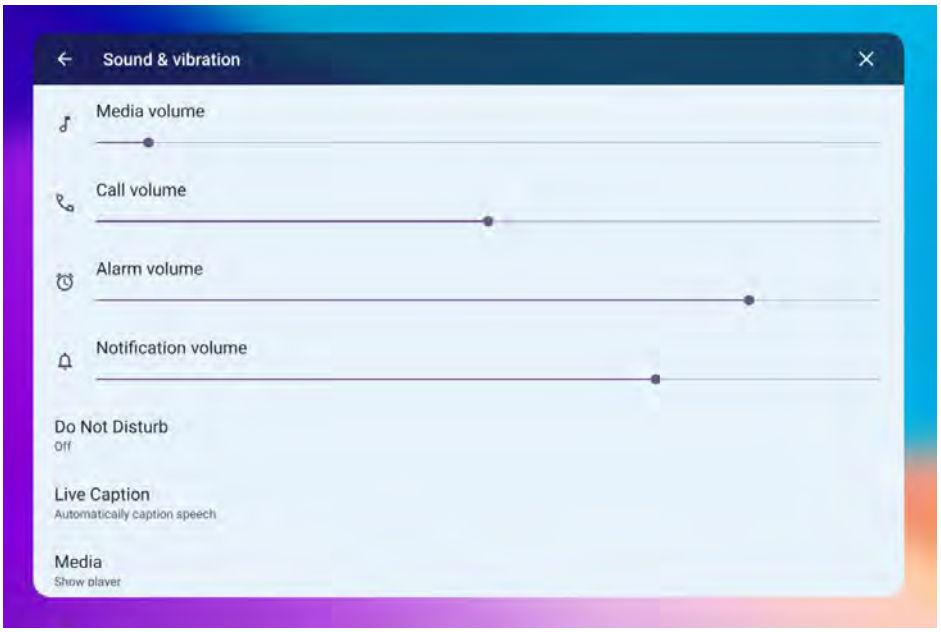
### B. Brightness bar

The brightness bar shows the current screen brightness, the darkest is 0, and the brightest is 100, which can be adjusted manually in the customized brightness mode.




### C. Volume bar

Used to adjust the volume of the large screen, the minimum is 0, the maximum is 100



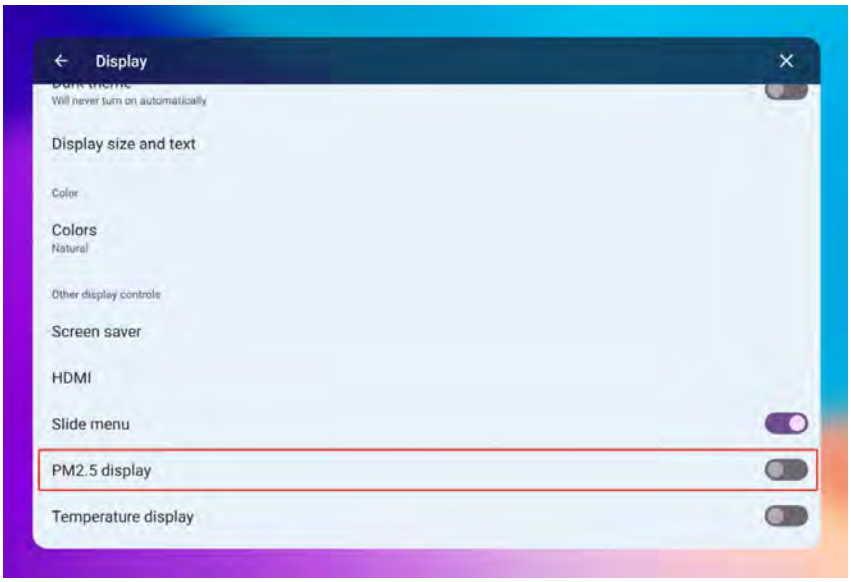
### D. Touch sounds

Open and choose the function button of the screen, there will be touch sounds. Turn offto mute the sounds.

### E. PM2.5

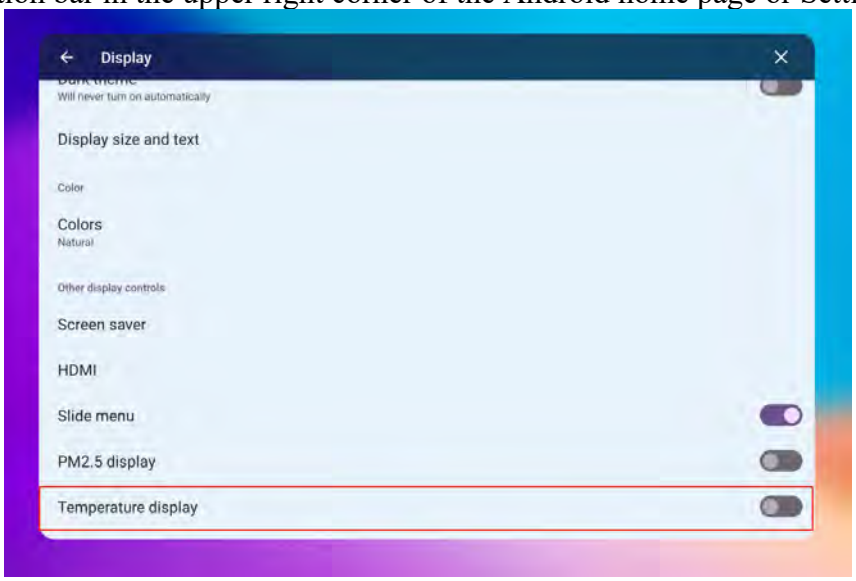
It is used to detect the PM2.5 value in the environment. After the function is enabled, the PM2.5 value will be show in the upper right corner of the large screen on the Android home page.

- To support PM2.5, the machine needs to connect the PM2.5 module。




### F. Show temperature

This function is used to detect the temperature of the large screen body. After this function is enabled, it is displayed in the notification bar in the upper right corner of the Android home page or Settings screen.



## （4）Individualization

### A. Set wallpaper

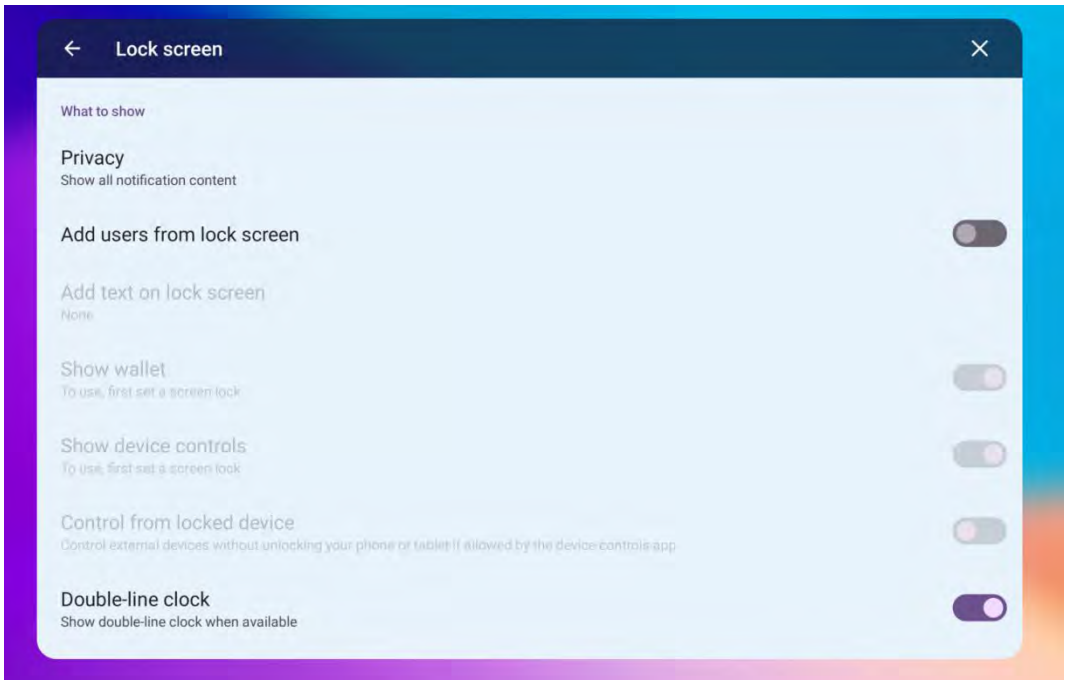
The large screen can use 8K pictures as wallpapers.

### B. Five finger touch to turn off the display

When five fingers long press the large screen at the same time, the display can be turned off.

- Gesture operation definition: When five fingers touch the large screen at the same time without swiping, the function will take effect.
- When using the whiteboard, annotation or source channels, the five-finger off screen function is disabled by default

### C. Lock Screen




- Open the function without setting a password lock: swipe to unlock
- Set the lock screen password : You will need to enter the lock screen password to unlock the big screen, if you forget the big screen password, you can use the super password to unlock the big screen, super password: 2580
- Delete password : To delete the password, you need to enter the previous lock screen password or enter the super password : 2580 to delete
- Change the password : to change the password, you need to enter the previous lock screen password or enter the super password: 2580 to change

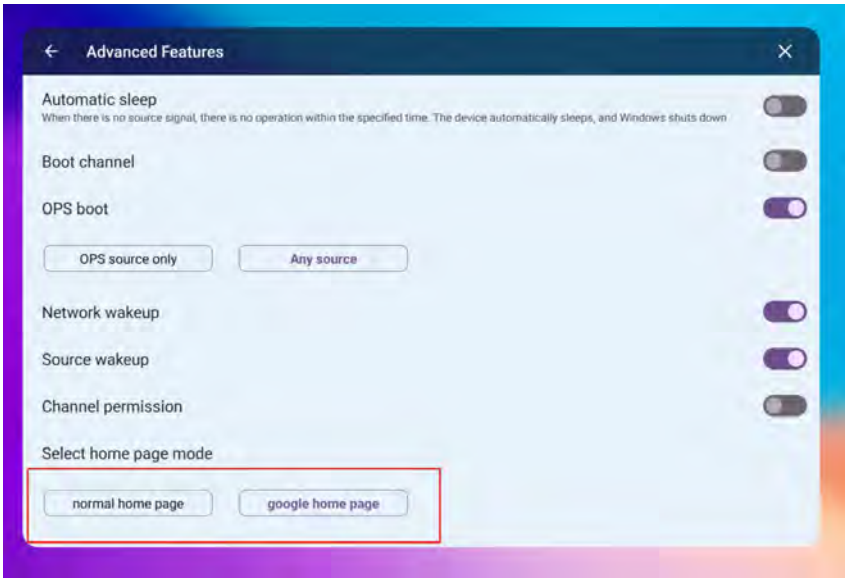
### D. Gesture management

This change adds the gesture function. In addition, it also supports the user-defined gesture function. You can use gestures to quickly start applications or switch to the source channel of a signal.

- Default gestures
- Edit gestures，quick open apps
- Edit gesture，switch the source channel:

### E. Select home page mode

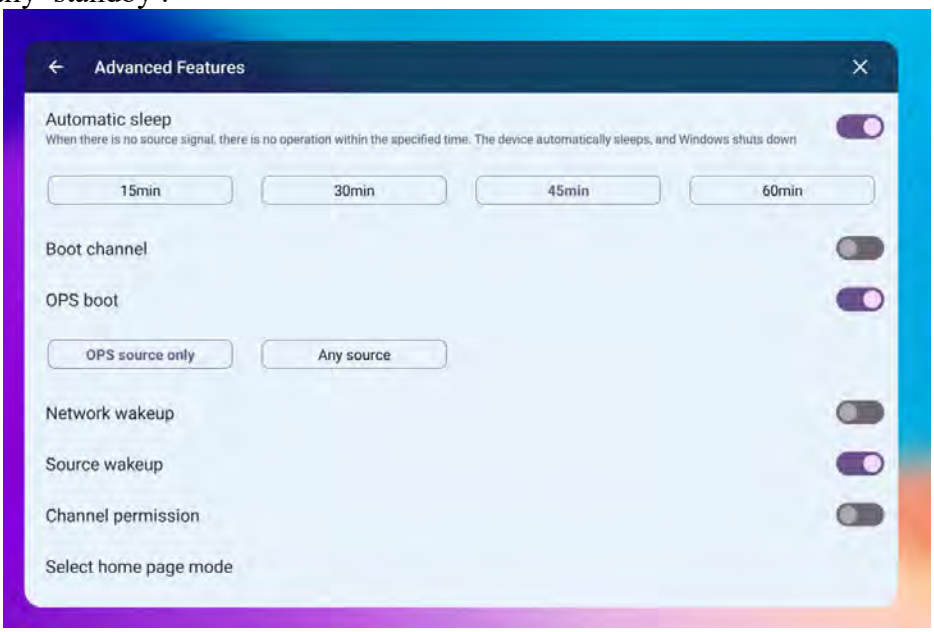
Two interactive UI styles are built into the system. Normal home page : Higher customization, more similar to the previous operation mode. Google Home Page(pass EDLA certificate): Google Native operations。



## （5）Advanced Features

### A. Automatic sleep

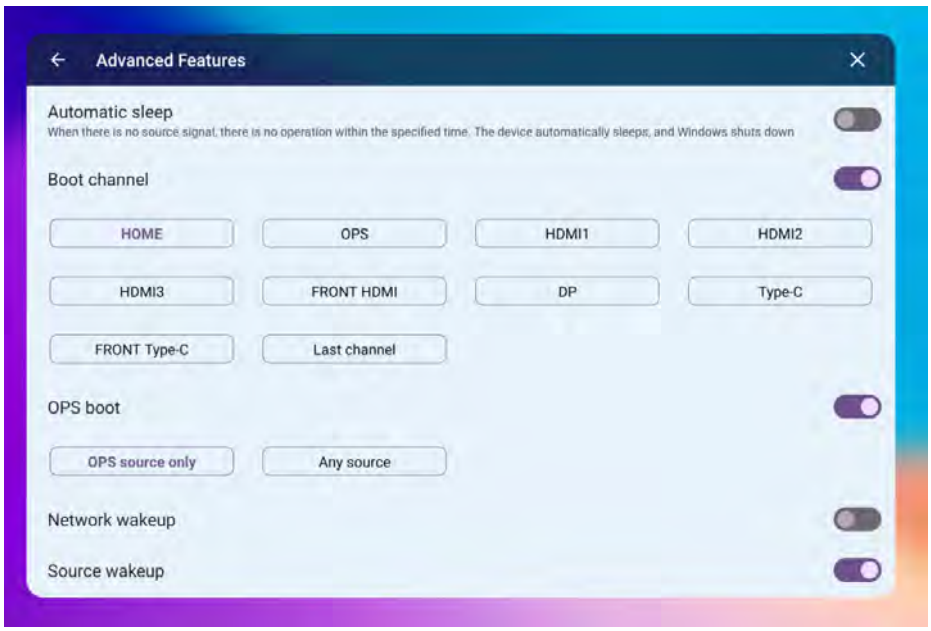
In the signal channel, if there is no signal source for a long time and no operation is performed on the machine, the screen automatically standby .




### B. Boot channel

You can choose which channel the big screen will be displaying when you turn it on.

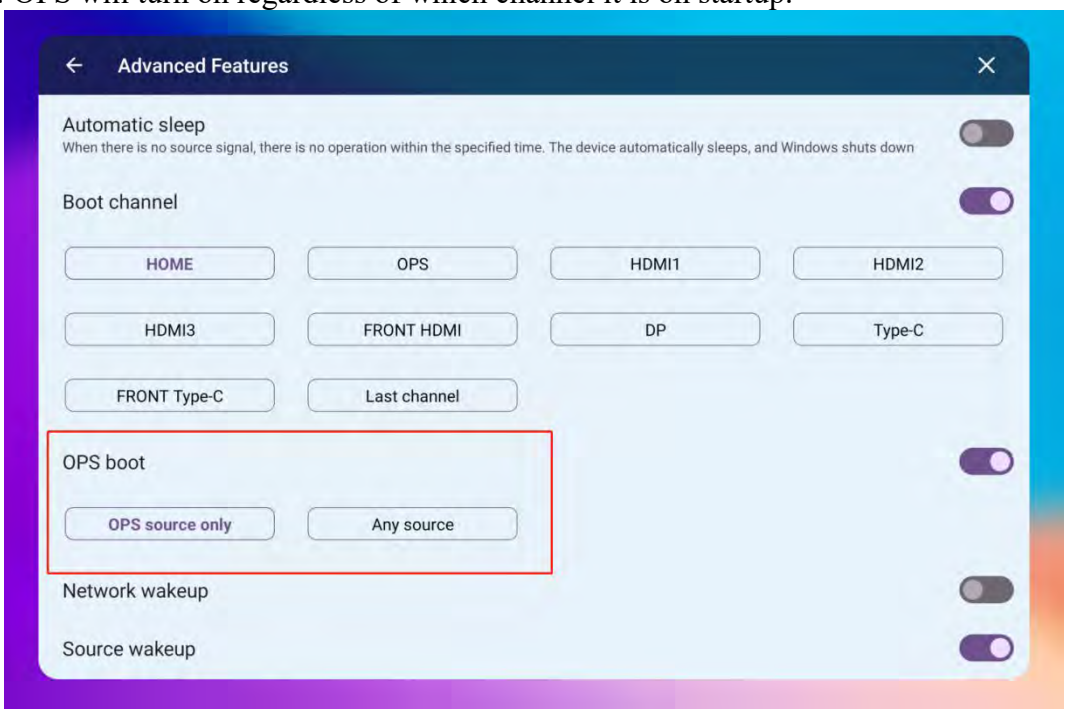
- Previous channel: what channel the big screen is in when it is turned off, which channel it is again when it is turned on



### C. OPS Boot

It is used to set the OPS boot function. The system defaults to off. When it is turned on, the system will determine whether the OPS should be automatically turned on when the display is turned on.

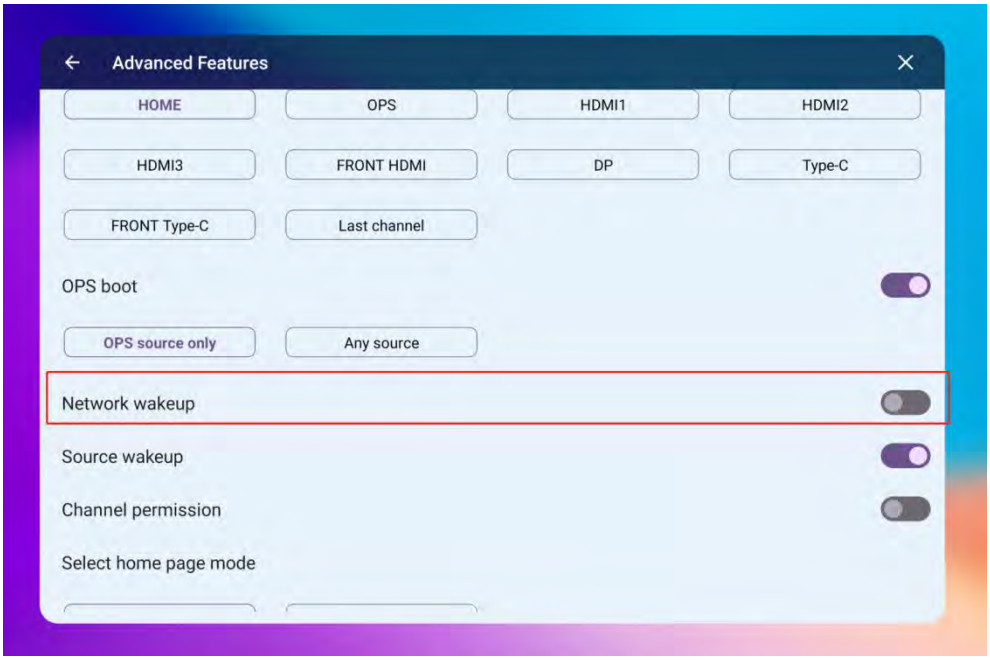
- OPS source only: Boot OPS on start up only when it’ s OPS source on startup
- Any source: OPS will turn on regardless of which channel it is on startup.




### D. Network wake up

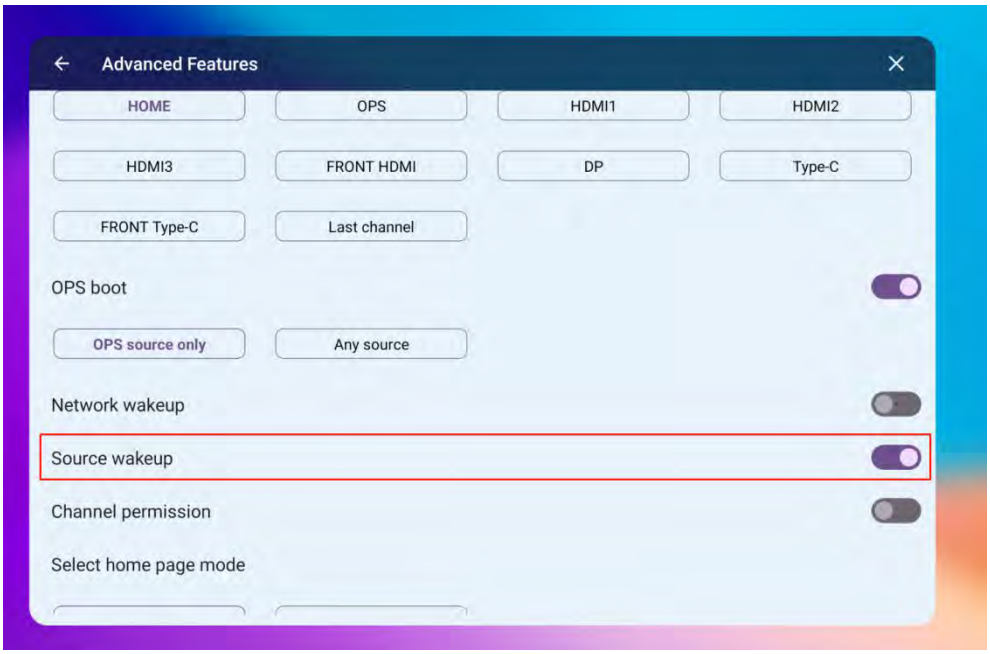
If the large screen is on the same LAN as a Windows PC, you can use a Windows PC to wake up the large screen in standby state.

- Screen need to open network wake up function.
- Screen connected to the wired network.
- Windows computer and in the same local area network (LAN).
- Windows PC using wake on LAN tool, search to screen the IP address and MAC address
- to manually will screen in standby mode.
- Last Windows with wake on LAN tool, will wake up the boot.
- Remarks: when open this function, will increase the time the standby power consumption.




E. **HDMI wake up**

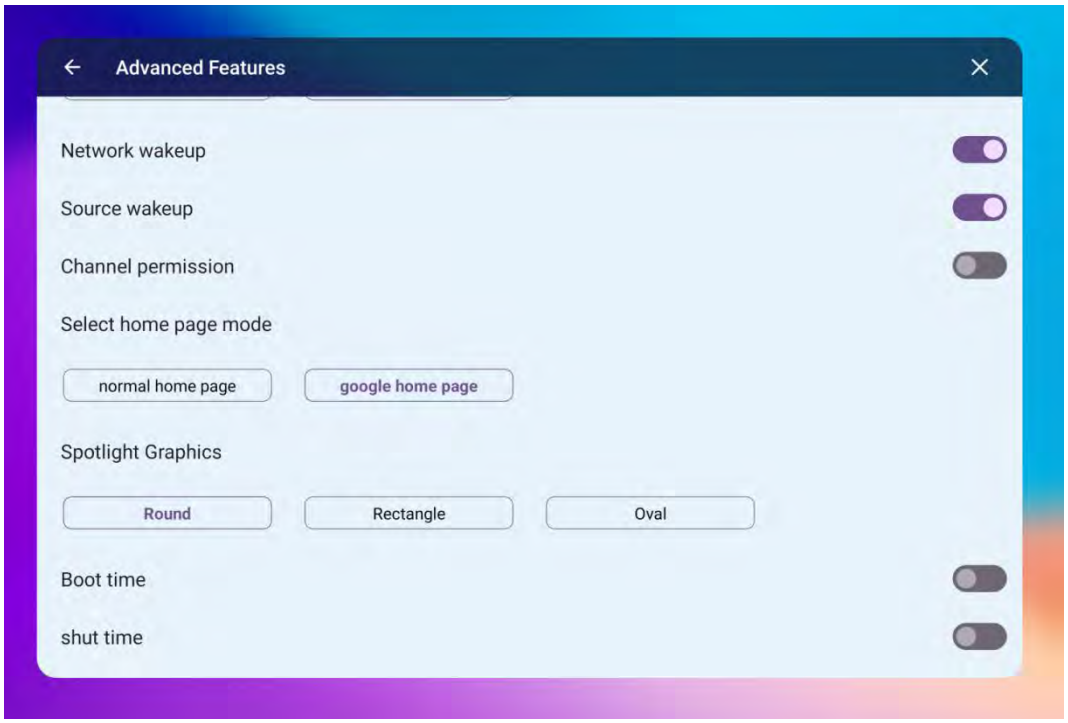
HDMI signal source can be used to wake up the large screen in standby state.




- Turn on the HDMI wake-up function.
- Put the large screen in standby.
- Connect the active HDMI cable to the HDMI IN port to wake up the display.

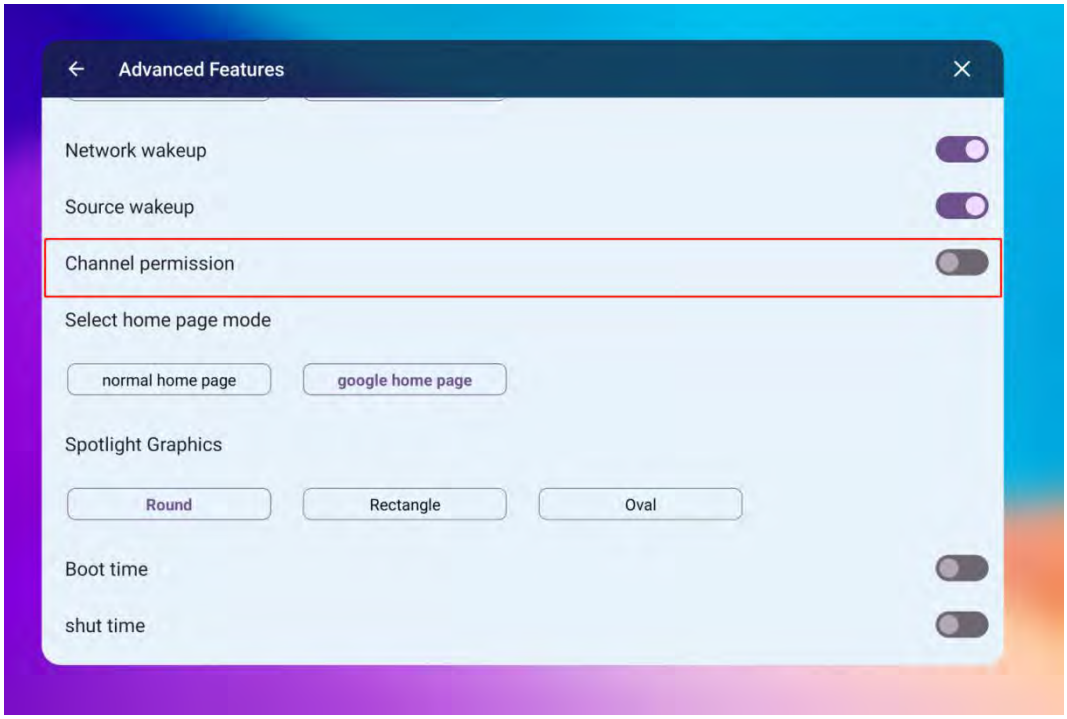
### F. Scheduled shutdown

You can set the startup time and shutdown time of the large screen to control the automatic startup or shutdown of the large screen.



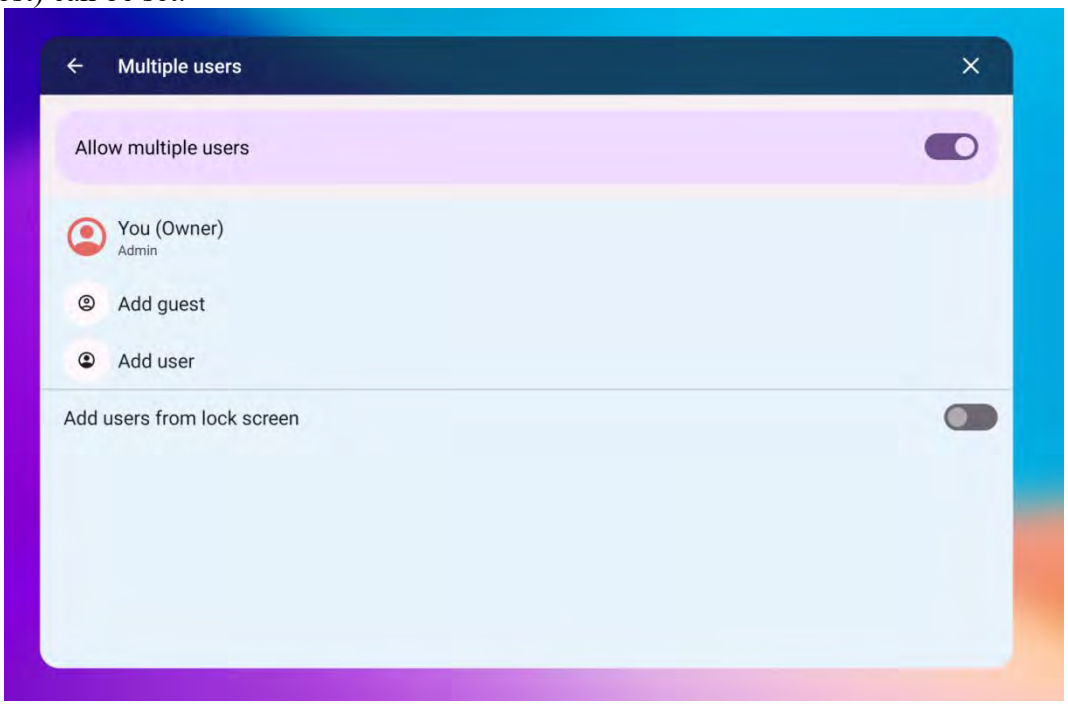

### G. Channel permission

Enable the function and set the password. Switch to the source channel and enter the password to unlock .



### （6）Multi-User

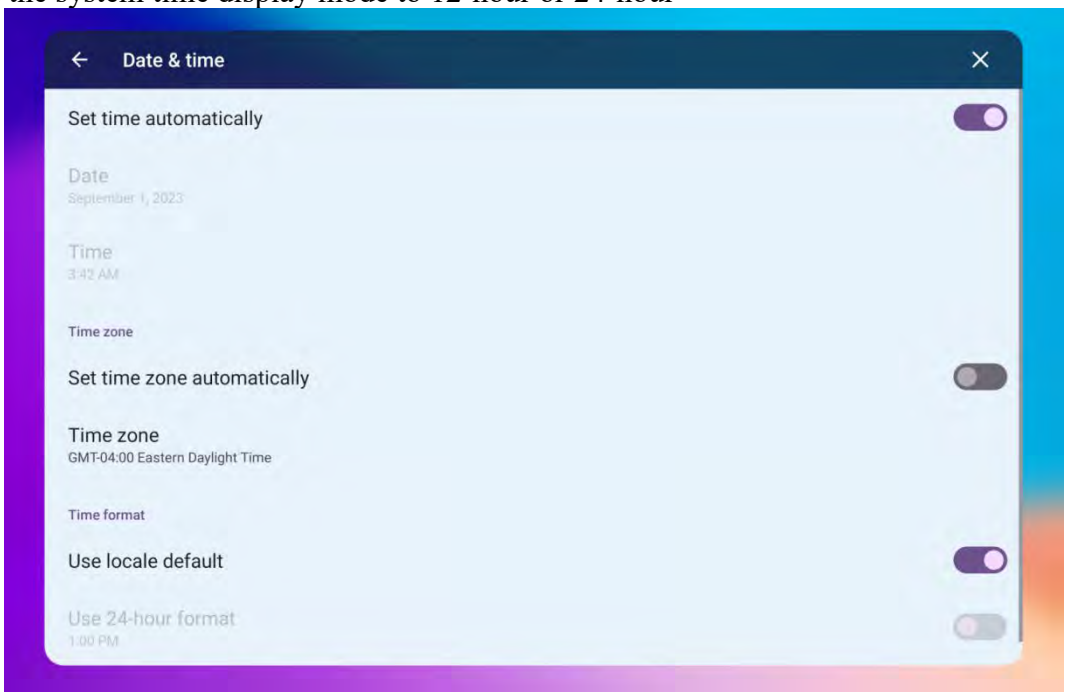
When the system starts up, it is logged in as the main user as default, and up to 10 users (including the host) can be set.




### （7）System Settings

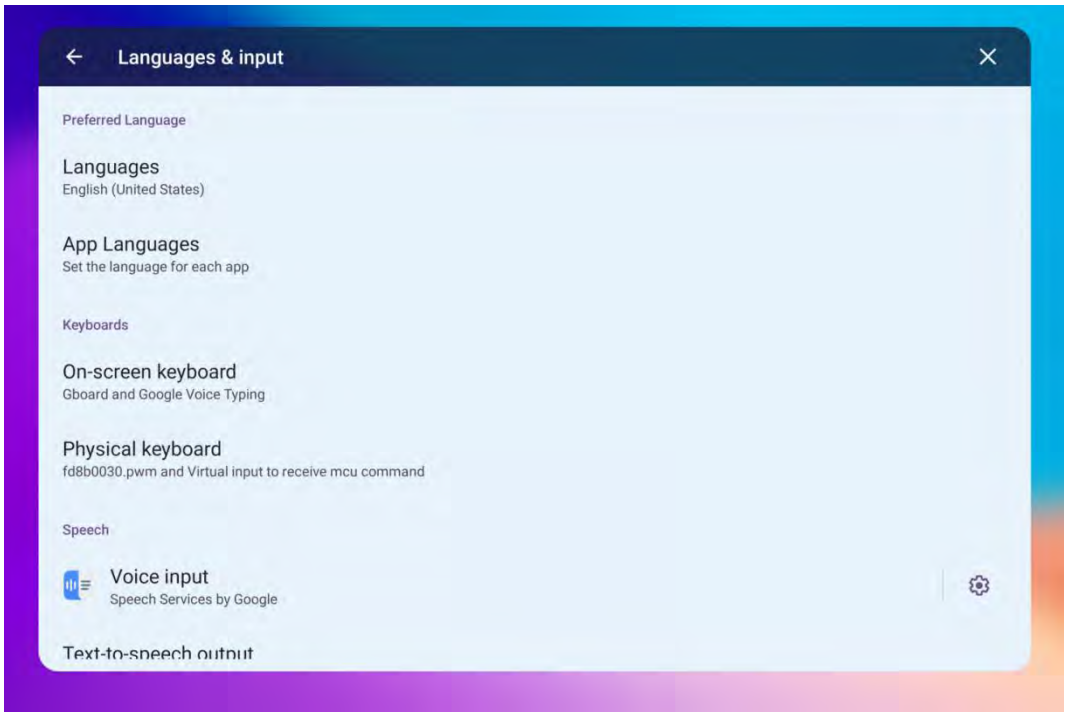
#### A. Date and time

- You can determine the date and time via the network or manually set the system time
- You can set the time zone of the large screen
- You can set the system time display mode to 12-hour or 24-hour



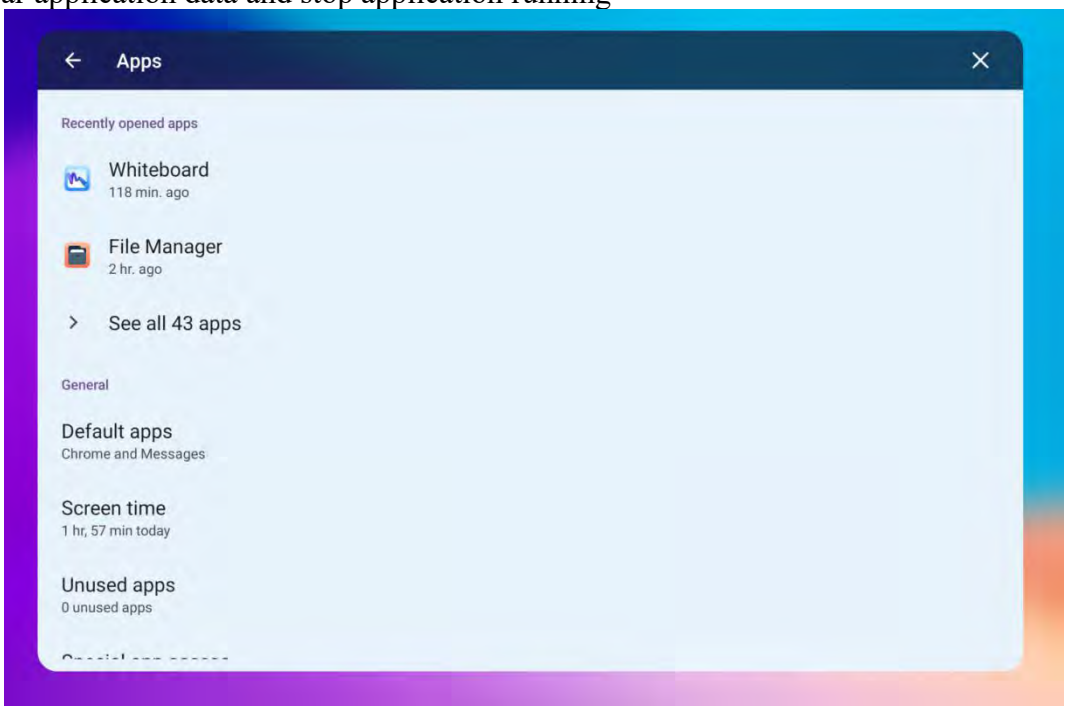
### B. Language and Input method

It is used to set the system language and virtual keyboard. If the large screen has a third-party virtual keyboard installed, it can also be set here.



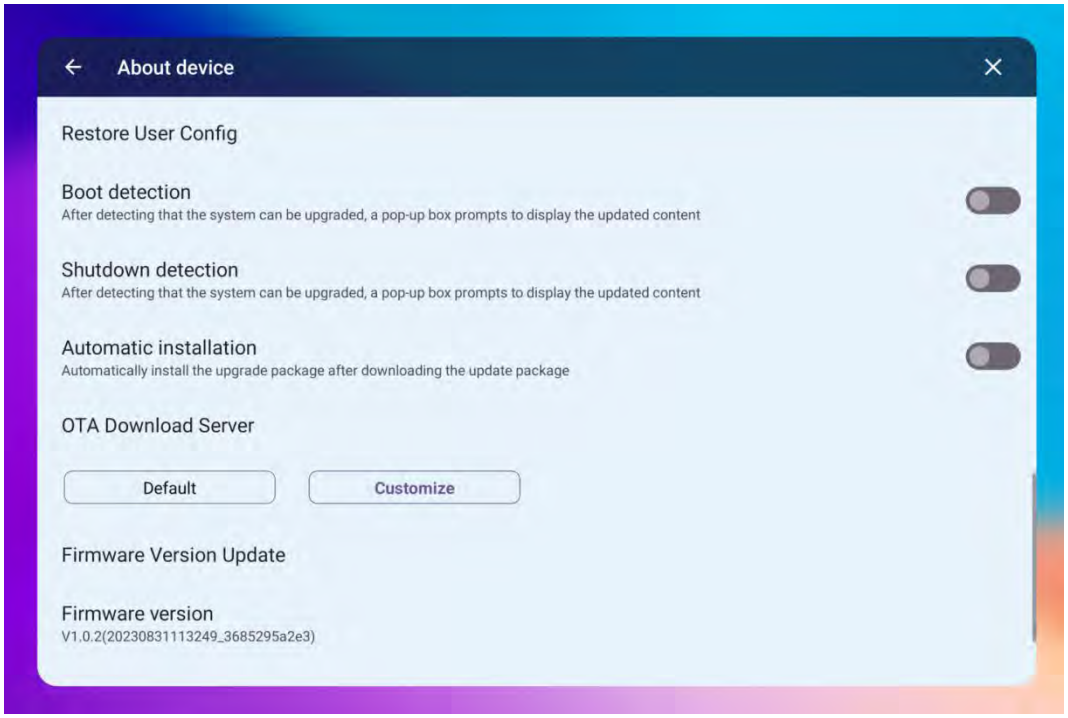

### C. App Info

Used to clear application data and stop application running



## （8）About

It is used to modify the device name of the large screen, restore factory settings, restore user settings, and display system version number and other information.




### A. Device name

The device name supports a maximum of 20 characters.

### B. Restore factory settings

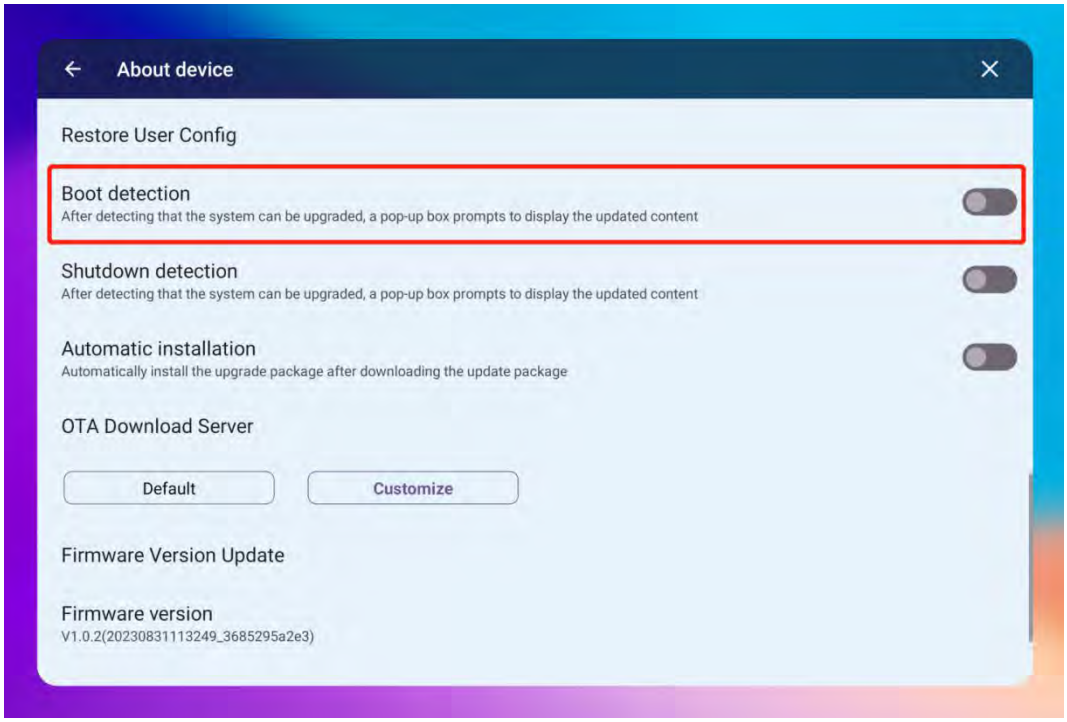
After restoring the factory settings, all user information and function settings on the large screen will be erased, including the applications installed by the customer, the files stored in the file manager, and the function settings of the large screen.

### C. User Settings Reset

It is a semi-factory reset. After reset, the system switches set by the user will return to the default state, but the installed applications and files will not be cleared.

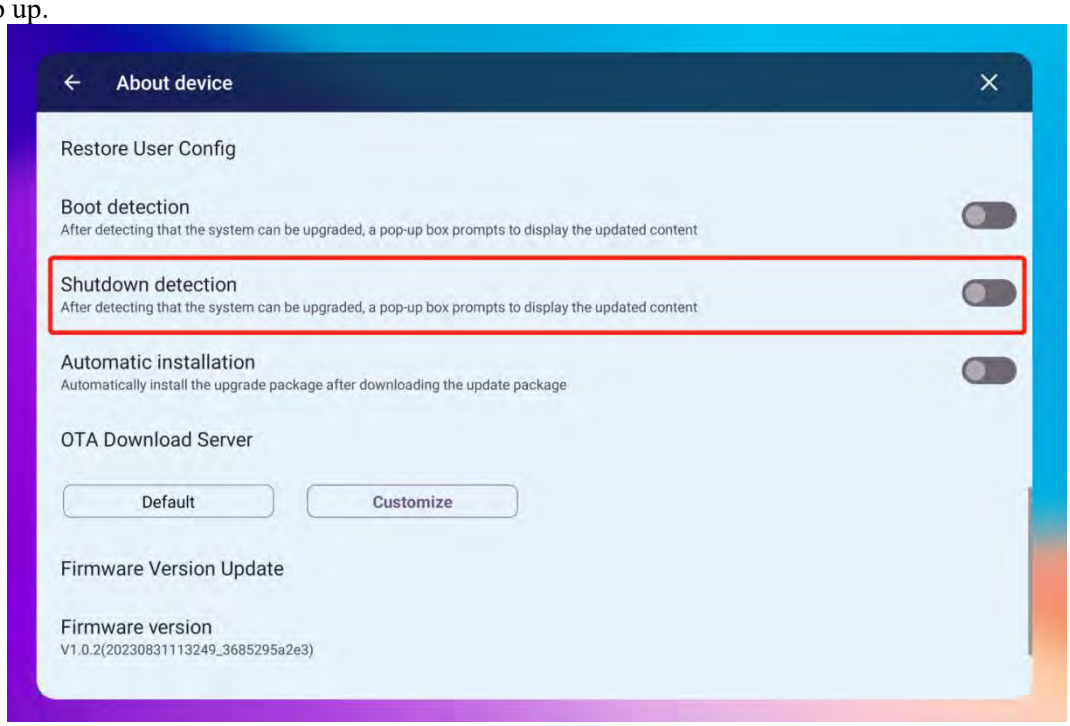
### D. Boot detection

When the large screen is connected to the Internet and is turned on, if an update is detected, a prompt box will pop up indicating that the can be updated.



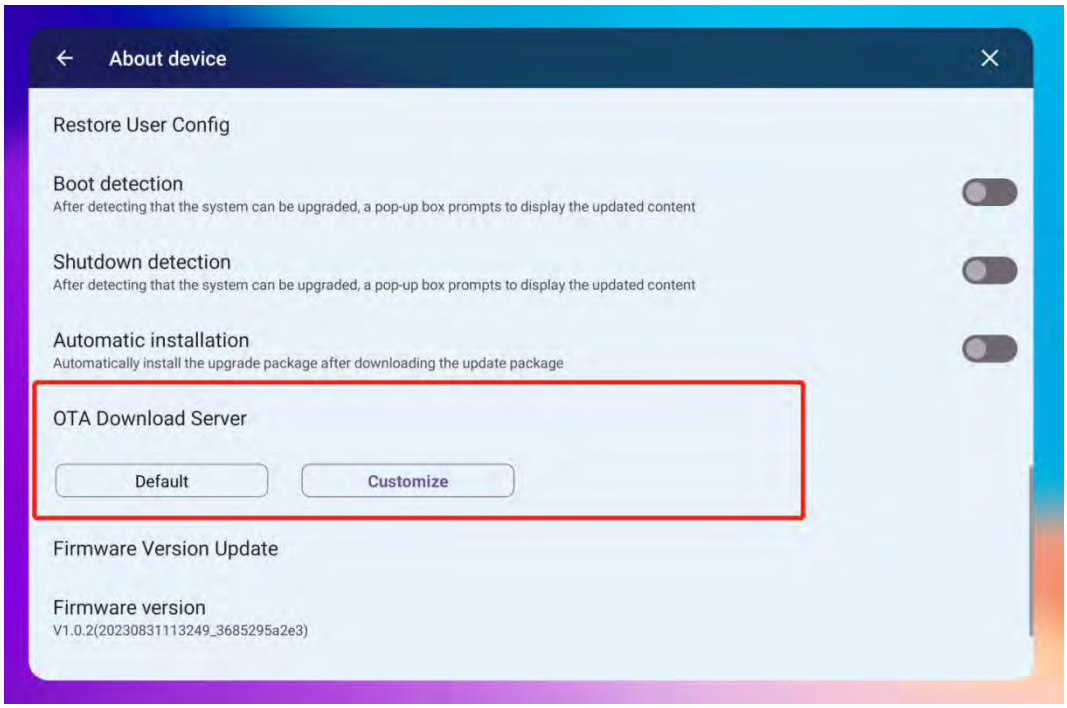

### E. Shutdown detection update

Before the large screen is turned off, if an newer system firmware is detected, a system upgrade prompt box will pop up.



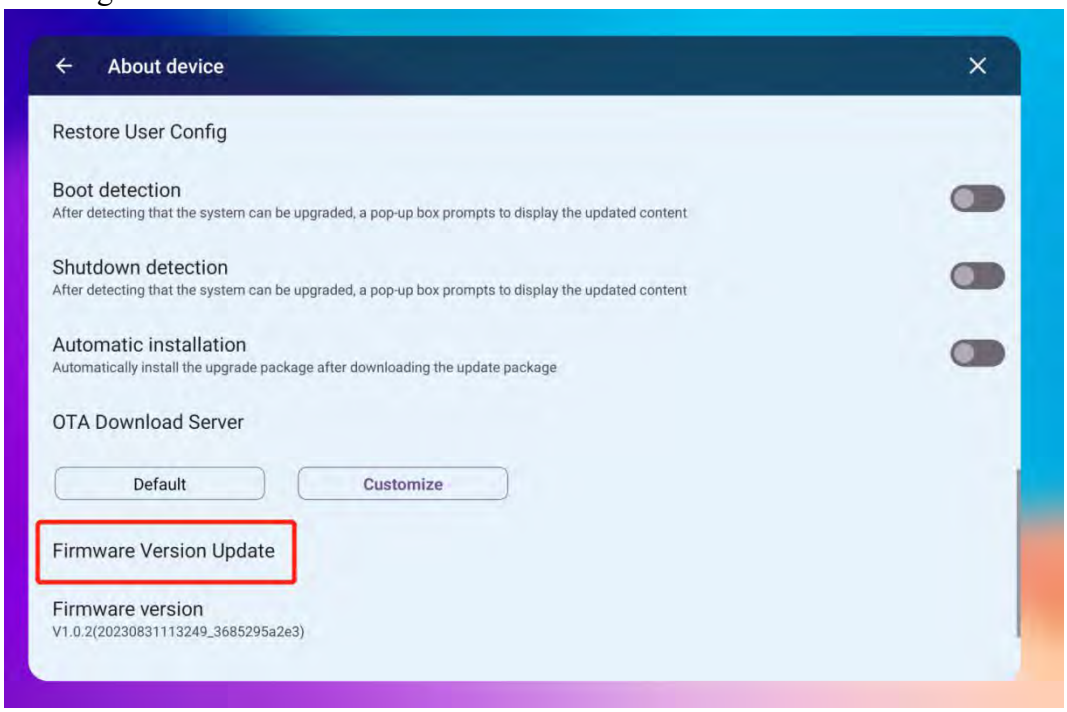
### F. OTA Download Serve

It is used to set the server of the OTA upgrade. Generally, end users use the default button. During the debugging stage, they can customize the input server address to test and confirm the OTA function.

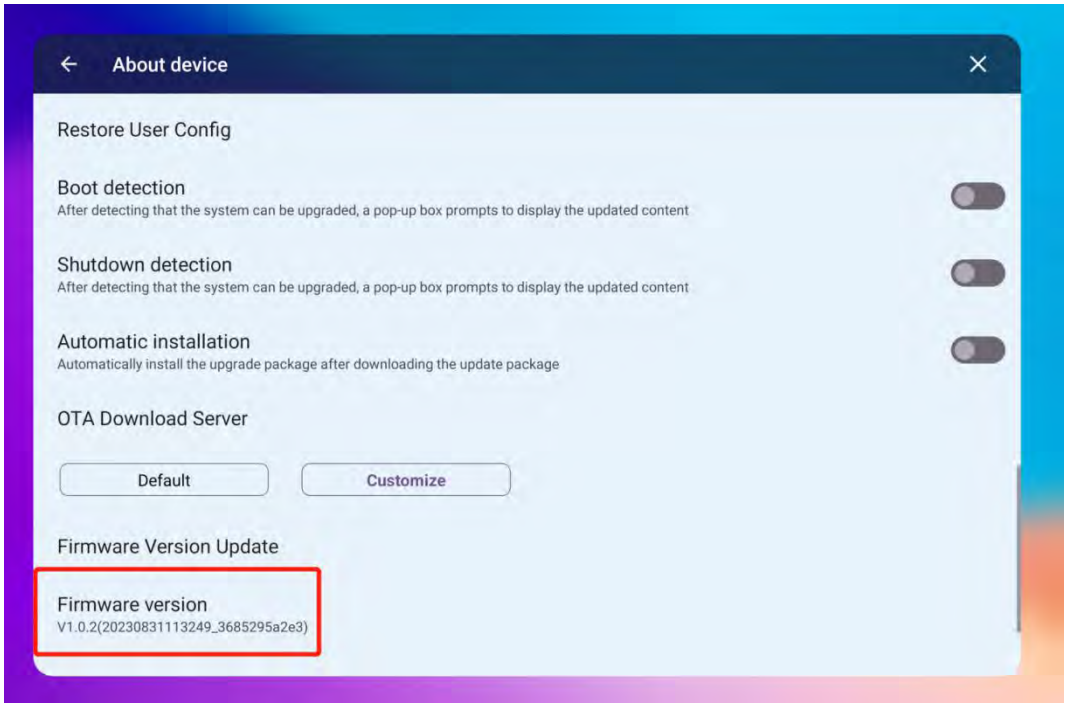



### G. Firmware upgrade

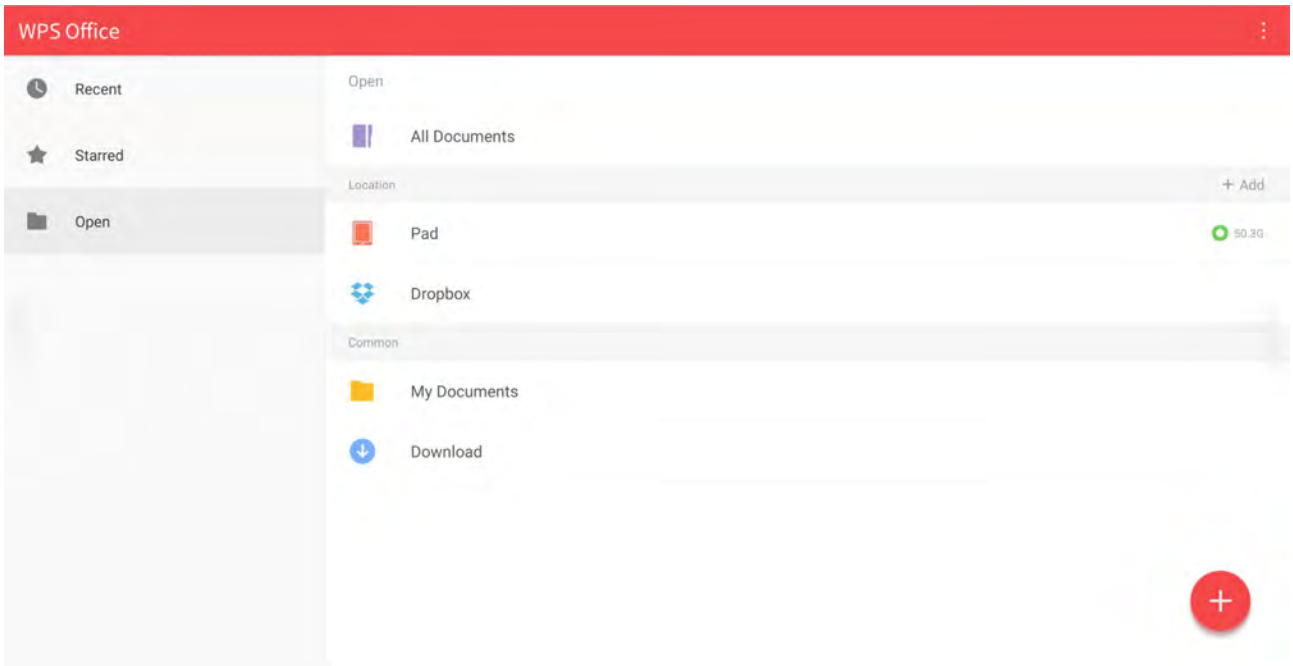
When the server has a newer firmware version, you can manually choose the firmware version upgrade to upgrade the large screen OTA



### H. Firmware version

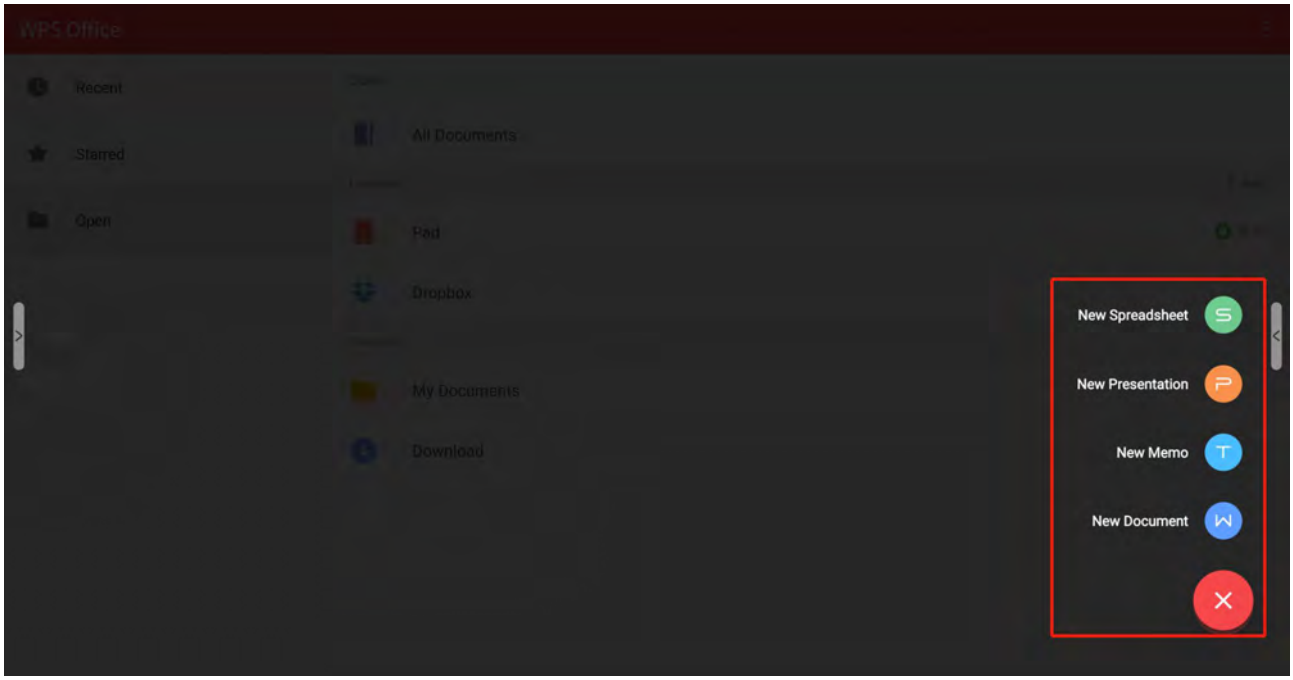



## XXI、WPS Office



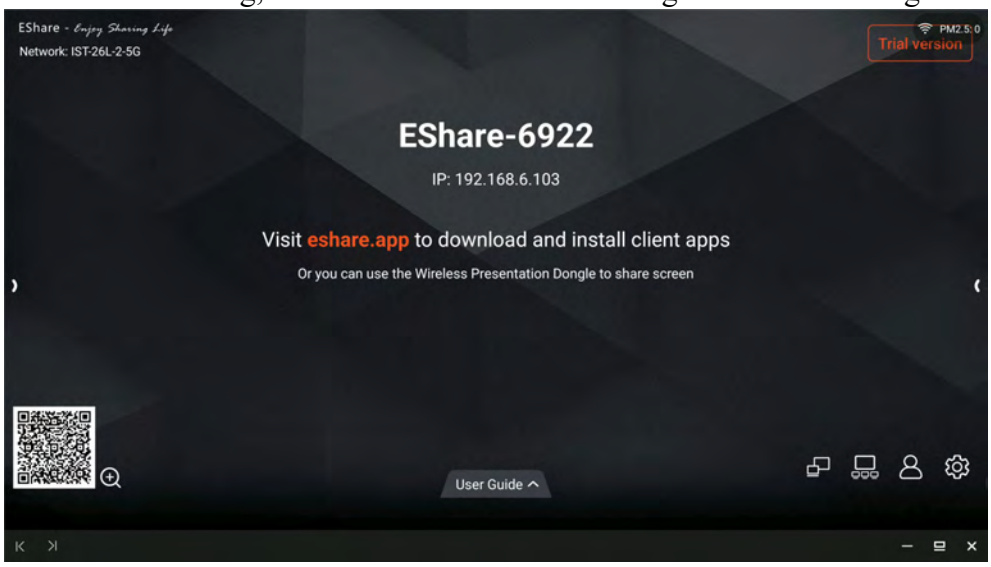

### A. Create a new Excel, PPT, note, document

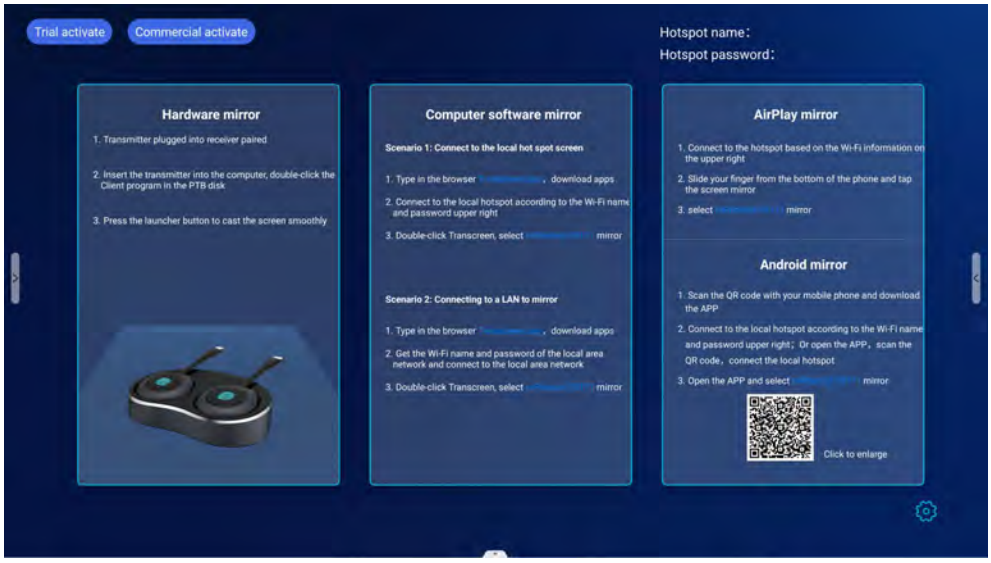
Touch + to create new forms, presentations or word documents.




## XXII、Screen Casting

The product supports E-share and Transcreen screen casting software. Both of them have similar functions and support wired network screen casting, wireless network screen casting and screen casting device.






- When casting a screen over a LAN, Android devices and Windows devices need to install the corresponding application. You can scan the QR code on the screen projection software through a browser and download it from the website. Apple devices can use Screen Mirroring to choose to cast their screen.
- The large screen can be activated on a trial basis for the first time. If you need to fully activate it, you need to purchase a projection code to use it normally.

### （1）Wired Network Screen Casting

- The large screen is connected to the wired network
- Open the projection software ( Eshare or Transcreen ) and activate the device.
- The projection device needs to be in the same local area network as the large screen.
- Open the corresponding screen projection application on the projection device, select the large screen device, select mirror projection, and you can cast the screen.

### （2）Wireless Network Screen Casting

#### A. WIFI Screen Casting

- The large screen is connected to the wired network.
- Open the projection software ( Eshare or Transcreen ) and activate the device.
- The projection device needs to be in the same local area network as the large screen.
- Screen projection device open the corresponding screen projection application, select the large screen device, select mirror projection, and you can cast the screen.

#### B. Hotspot Screen Casting

- Turn on the hotspot on the big screen.
- The screen projection device is connected to the hotspot signal sent by the large screen.
- Open the projection software ( Eshare or Transcreen ), connect the large screen to the Internet and activate the device.
- Screen projection device open the corresponding screen projection application, select the large screen device, select mirror projection, and you can cast the screen.

### （3）Screen Projector

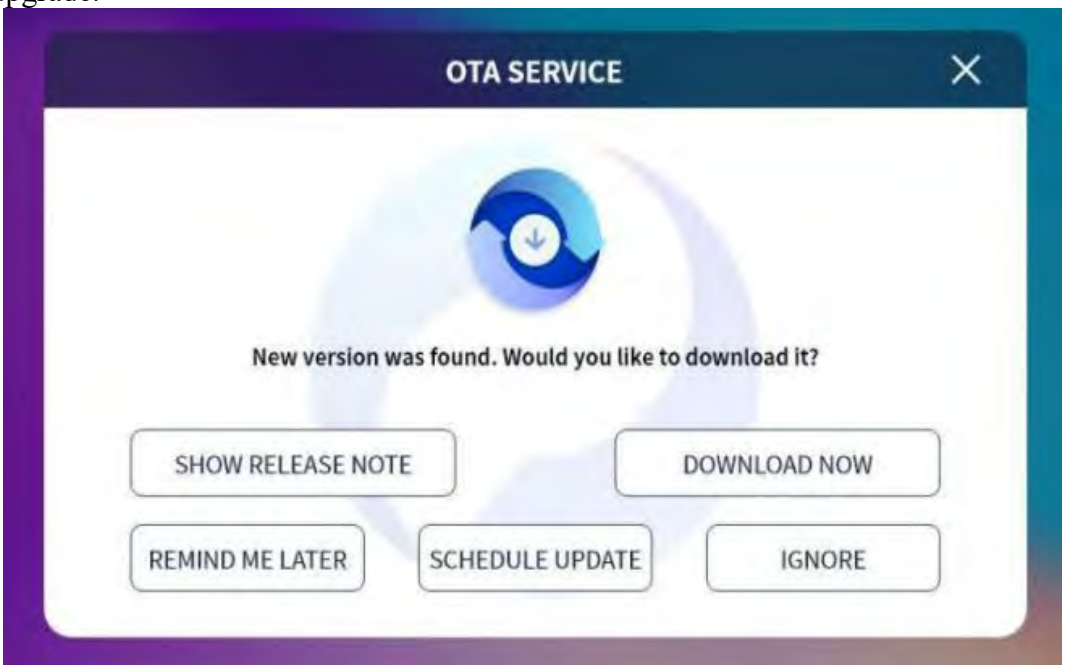
- Open the projection software ( Eshare or Transcreen ), connect the large screen to the Internet and activate the device.
- Connect the screen projector to the USB port of the large screen and pair it with the large screen.
- Wait for the large screen pairing to be 100% complete.
- Connect the screen projector to the Windows computer, and press the screen projection button on the screen projector to cast the screen. (Some computers may not automatically pop up the screen projection box, you need to go to the screen projection folder of the computer, manually open the application, and then click the projection screen)

## XXIII、System Updates

For large screen firmware upgrade, there are two ways: network upgrade and local upgrade.

### （1）Network update

When the server has an OTA package higher than the current version, click the network update button to perform network upgrade.

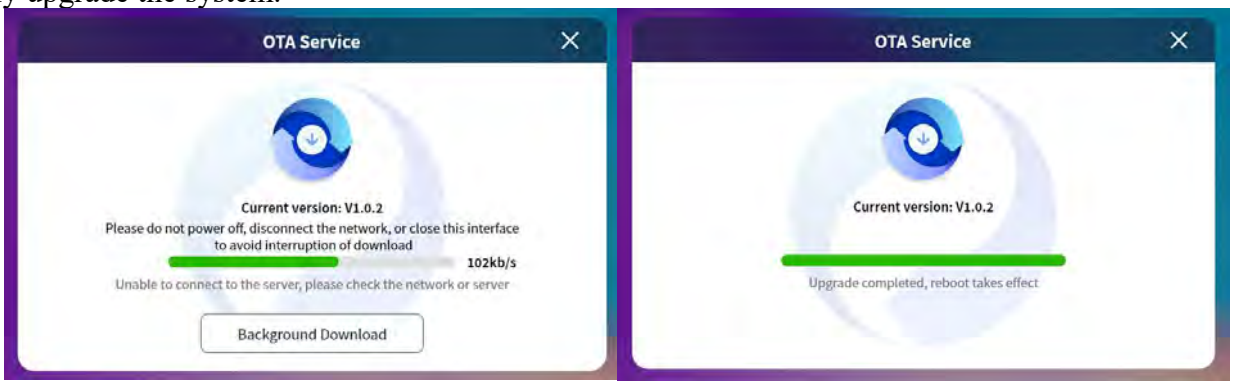



**A. Show release note**

To show the version update content.

**B. Download now**

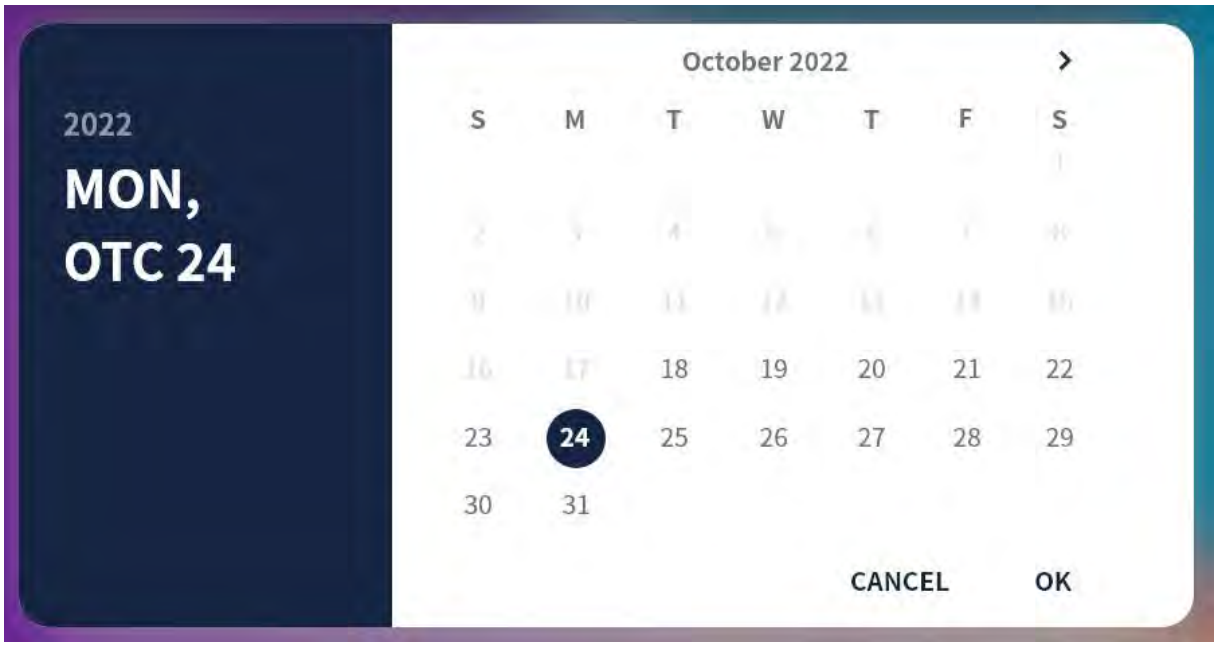
After choosing the Download Now button, the download progress bar will be displayed automatically. Do not power off during the upgrade. After the system is upgraded, you need to manually restart the large screen to automatically upgrade the system.




- network download support breakpoint continuingly when the time the network is a bad environment, recover in time the network, can still continue to complete the upgrade under before the progress bar
- support background download function, can be downloaded, operation time, upgrade process does not affect the individual operations.

C. **Update plan**

You can set the date you want the system to update.



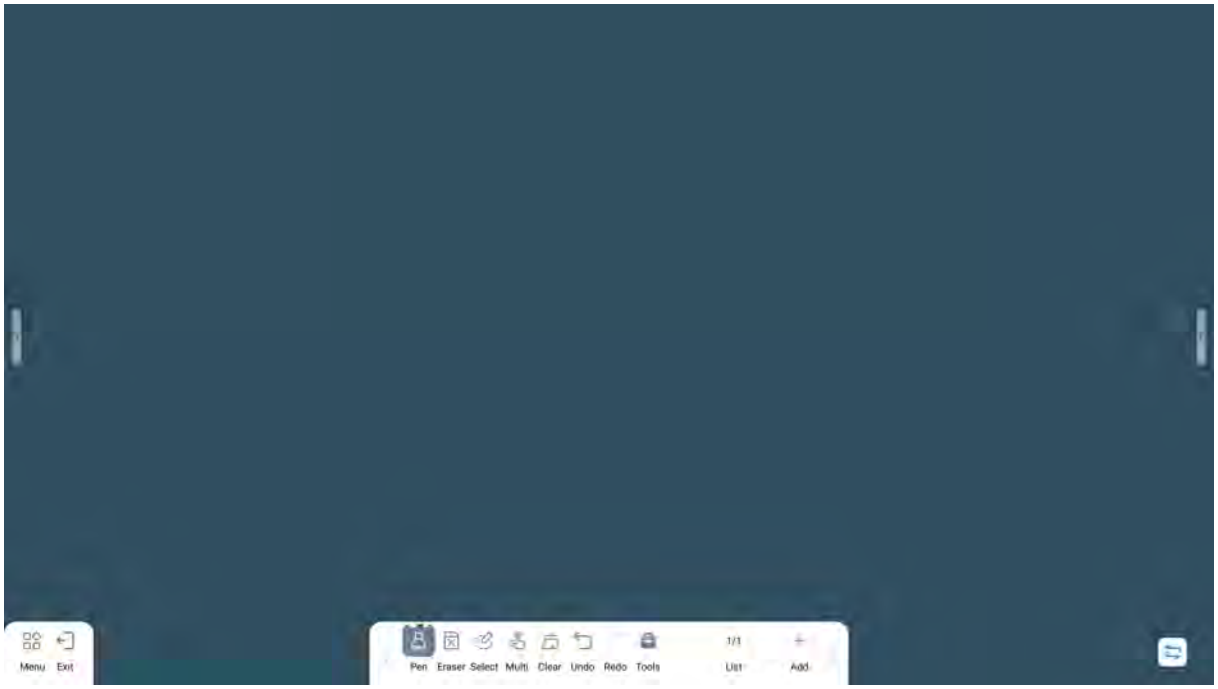

（2）**Local Update**

The USB flash drive can be updated locally when the OTA file named update.zip is placed into the USB flash drive.

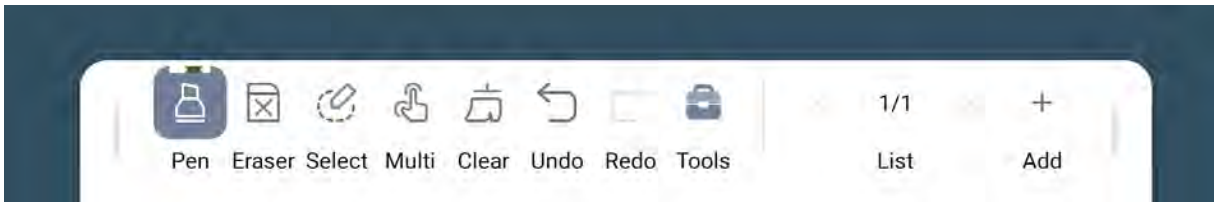
- The Update.zip file is different from the firmware upgraded on the USB flash drive. If OTA local packages are required, ask a software engineer to package them.

# XXIV、Whiteboard

Whiteboard homepage

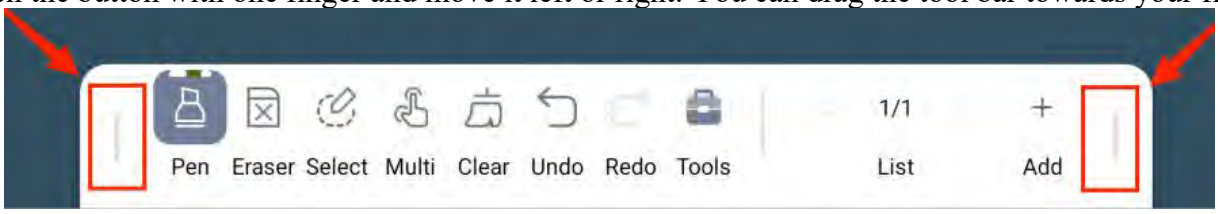



## （1）Tool Bar



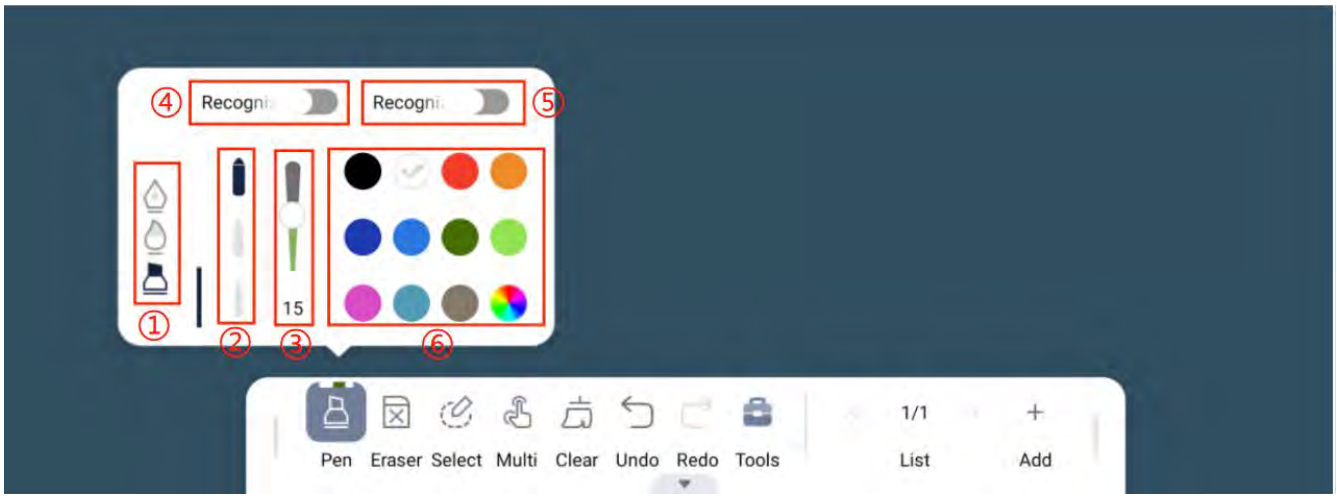

### A. Move the tool bar

Touch the button with one finger and move it left or right. You can drag the tool bar towards your finger



## （2）Pen

Used to change the type of brush, and adjust the thickness of the handwriting.




①Brush function

The paintbrush supports 3 kinds of pen shapes, from top to bottom are fountain pen, brush, and whiteboard pen. It draws materials from reality, selects 3 kinds of pens commonly used in life, and imitates the pen marks written by pens.

Fountain pen: Smooth drawing lines, tough pen marks, sharp edges when detached

Brush pen: The lines are round and smooth, art style writing

Whiteboard pen: draw lines without any effects, has the fastest writing speed

②Adaptive thickness pen function

The self-adaptive thickness pen function has recognition of three types: SS (super fine pen), S (fine pen), and F (thick pen), which is distinguished by the size of the pen used to touch.

Although it is an adaptive pen thickness, this function is defined as three different types of electronic pens. Each pen can adjust the pen settings, line thickness and line color independently according to personal preferences. When different people use different pen thicknesses When writing with a special pen, the electronic whiteboard can accurately distinguish the drawn lines.

Remark:

The function of the adaptive thickness pen is dependent on the touch frame, and the touch frame needs to support this function

Ultra-fine pen: 2.8mm

Fine pen: 6.5mm

Thick pen: 10mm

③Pen thickness adjustment

The size of the pen mark can be adjusted.

④Shape recognition

After this function is turned on, shapes can be automatically recognized according to the shape of the drawn line, and this function can recognize the shapes drawn by multiple users at the same time.

Remark:

Delete: The shapes identified by drawing lines can only be erased by using the selection or clear screen, and the eraser cannot erase this shape

Supported shapes: triangle, rectangle, trapezoid, circle, ellipse

⑤Text recognition

After the function is turned on, the language pack can be automatically downloaded through the default language of the system. After the whiteboard recognizes the font shape of the line drawn on the large screen, it will automatically convert it into text.

Remark:

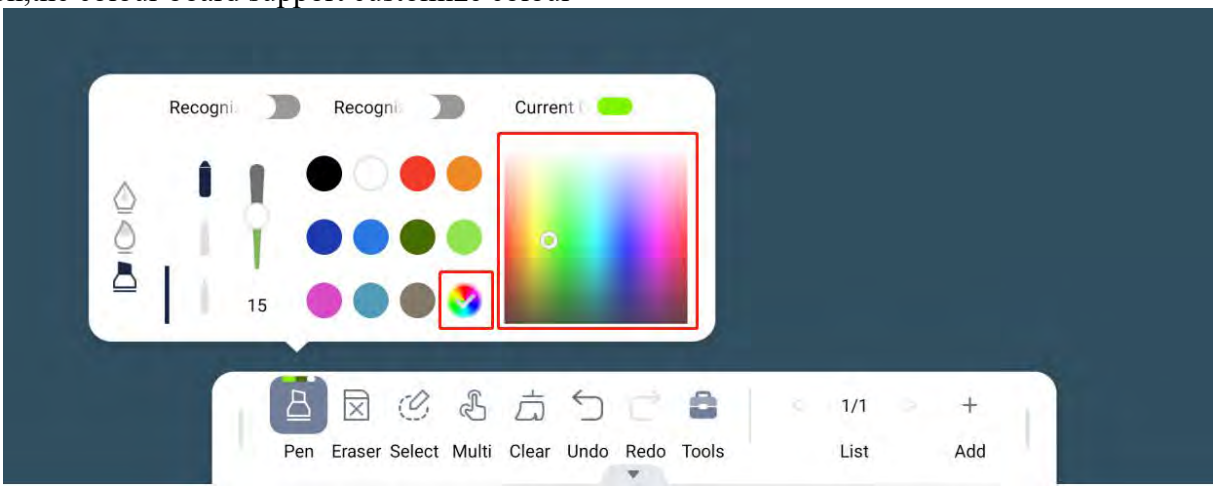
After opening the function for the first time, the machine needs to connect to the network to download the language pack

Text recognition can only recognize the current system language and English letters Supported languages: Chinese, English, Korean, Japanese, Latin

⑥Brush color board

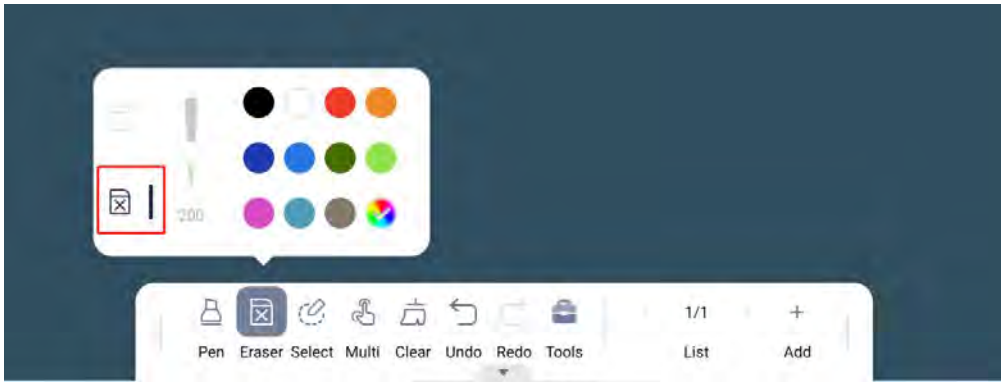
This function is used to change the pen color

In addition,the colour board support customize colour



## （3）Eraser

### A. Eraser Function

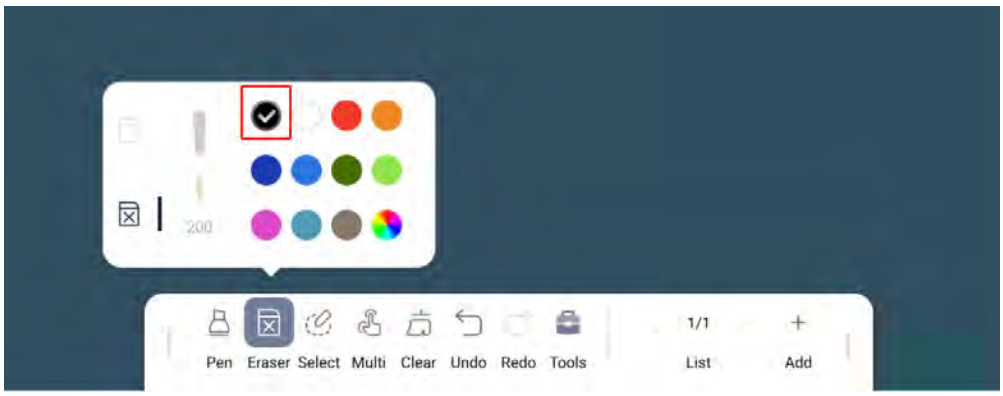



Used to erase the lines on the electronic whiteboard, when elected, function (3) (eraser size adjustment) will light up, can adjust the size of the eraser, support 100~350 units of adjustment。

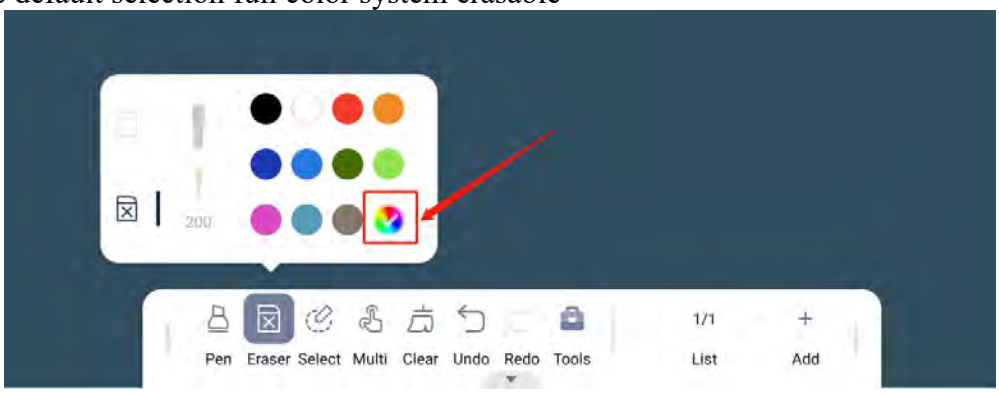
- eraser thickness adjustment, is used to adjust size of eraser.
- eraser function without color plate, all the default color of paint line can be erased.
- The eraser function can only erase drawn lines, not graphics tools, inserted pictures。

### B. Circle wiping function

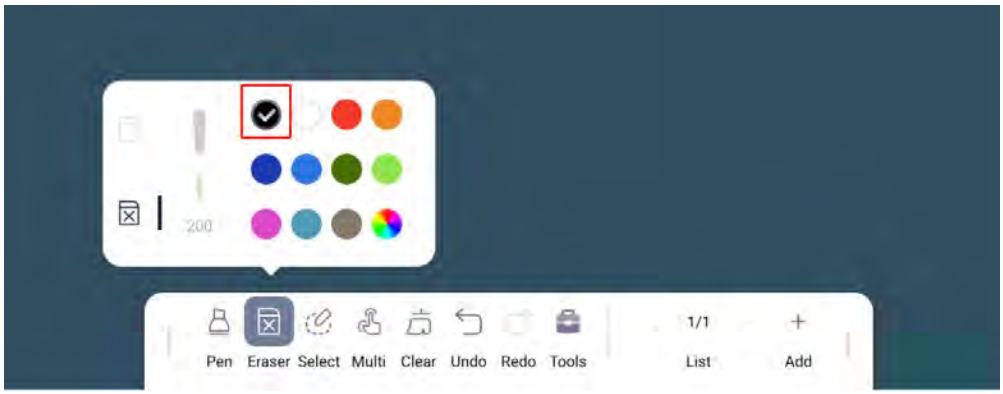
When the circle to wipe function is selected, the corresponding content can be cleared by swiping by the drawing line, picture, or shapes on the electronic whiteboard; it can also be used to circle the object, and the content will be cleared when pen released.



- Ring wipe can not use the thickness function, the default gray
- Circle erasable default selection full color system erasable




- Specific circles erase specific colors of lines, for example, if you choose black circles, when you use the circle erase function, only black lines can be erased, other colors of lines will be automatically retained.




**C. Hand back eraser**

The requirement for calling out the eraser on the back of the hand is a minimum contact of 30mm (length and width). The larger the contact size, the larger the eraser will be.

### （4）Select function (Circle function)

**A. Circle select**

After the target is selected, you can move, copy, delete, rotate, or change the color of the target.

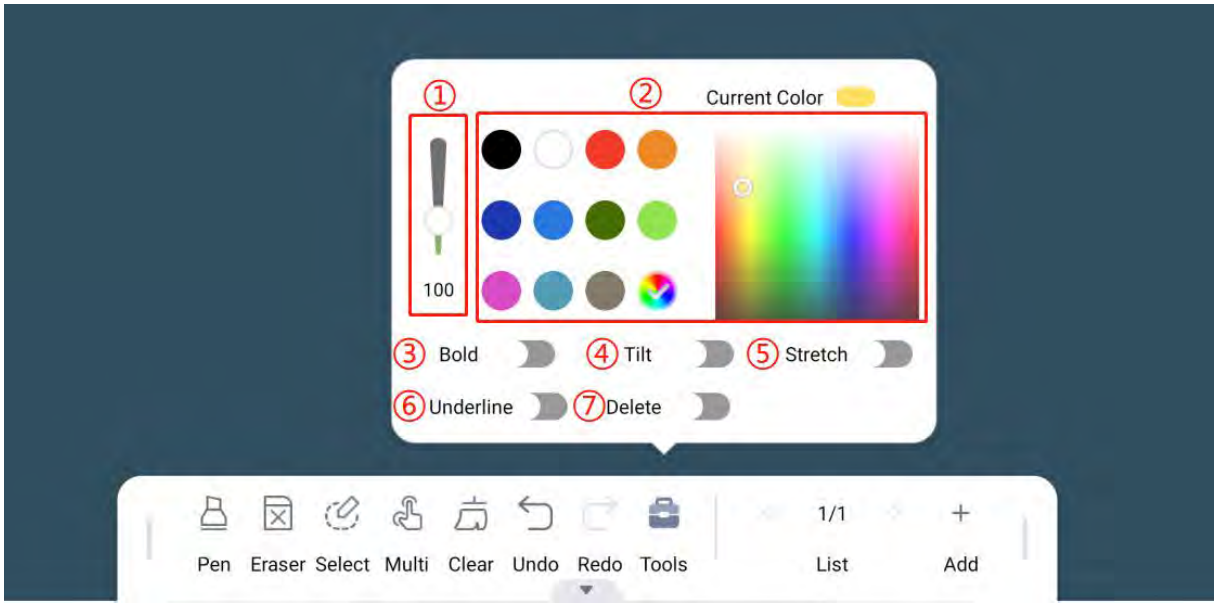
B. **Three-finger roaming function**

Under the "Select" function, you do not need to select the target. You can directly swipe the screen with three or more fingers to drag the whole screen of the whiteboard

C. **Zoom function**

When in the "Select" function, touch the large screen with two fingers, shrink the two fingers inward, you can zoom out, and vice versa, extend the two fingers outward, you can zoom in

## （5）Text tool




The text tool is used to input comp, ①-⑦ are to give various attributes to the text respectively

①Text size

Support the adjustment between 31- 129 in size, which can be used to adjust the size of the text

②Color selection

Ten colors to choose from and more to be customized

③ Bold

bolder and make text stand out

④ tilt

You can tilt the text

⑤ Stretch

Stretch the text

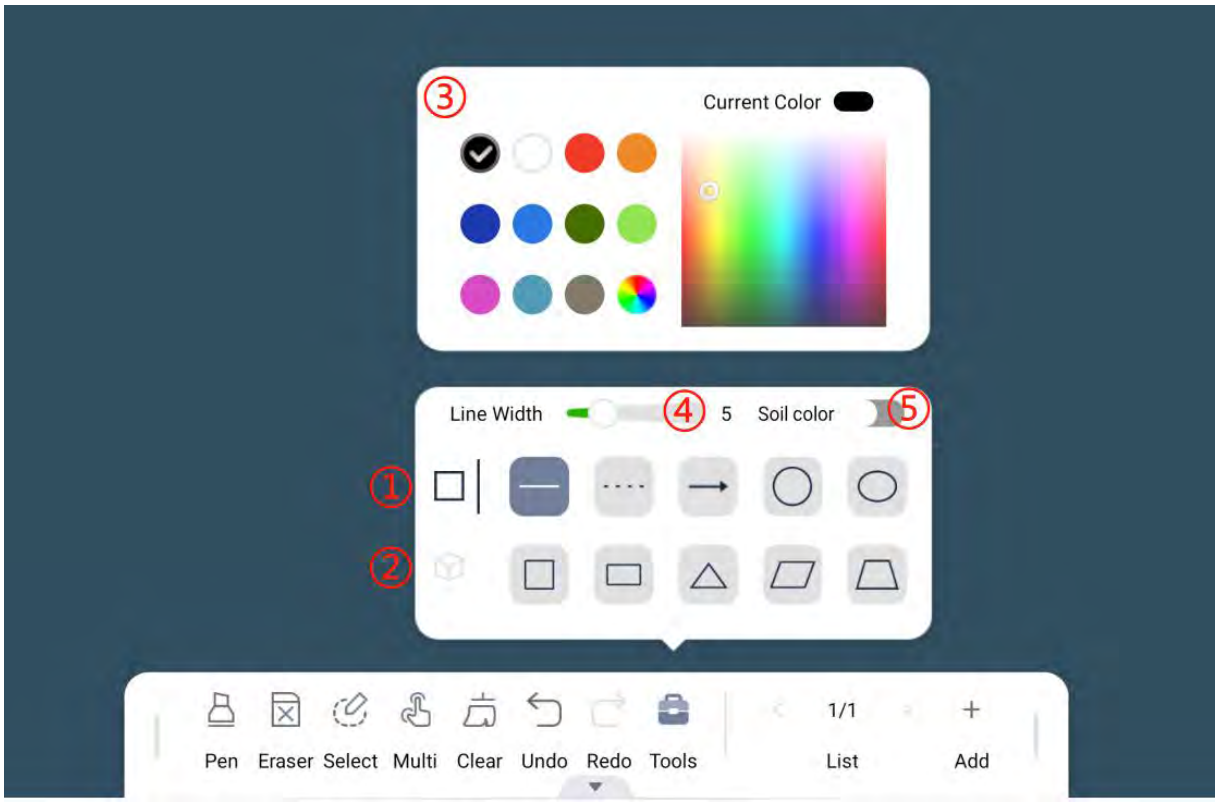
⑥ underline

Underline the text

⑦ Stretch

Give the text strikeout line, whether to modify more clearly

## （6）Shape tools




①2D shape tool

After selecting a 2D shape tool, you can select the tool on the right, and touch the large screen to draw the corresponding shape.

- Can cooperate with function (3) (border size adjustment function), to adjust the size of the graphic border
- Can cooperate with function ④(graphic color board function), to change the color of the drawing
- Can cooperate with the function ⑤(color filling function), to fill color inside 2D graphics

②3D shape tool

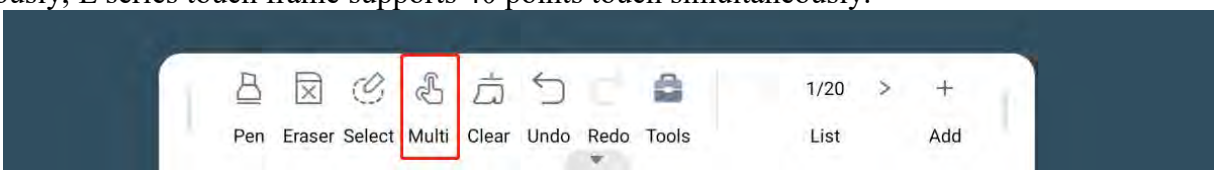
After selecting the 3D graphics tool, you can choose the following tools, and touch the large screen to draw the corresponding shapes.

- Can cooperate with function (3) (border size adjustment function), to adjust the size of the graphic border
- Can cooperate with function ④(graphic color board function), to change the color of the drawing

### （7）Multi-point single-point switching

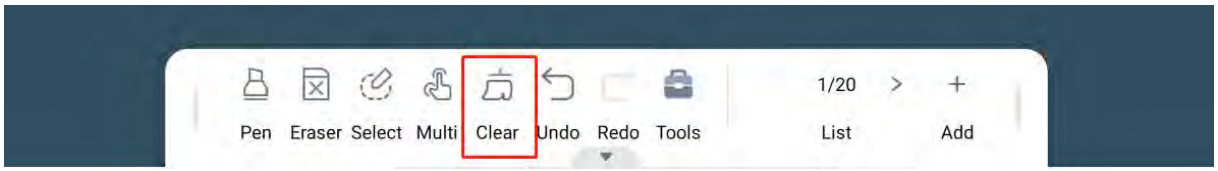
Used to switch between single- finger writing and multi- finger writing.

- Single-point state: When writing, one finger writes normally, two fingers zoom, three fingers roam, you can drag the whiteboard with three fingers
- Multi-point state: each finger is writing, X/F series touch frame supports up to 20 points to write simultaneously, E series touch frame supports 40 points touch simultaneously.




### （8）Clear Screen

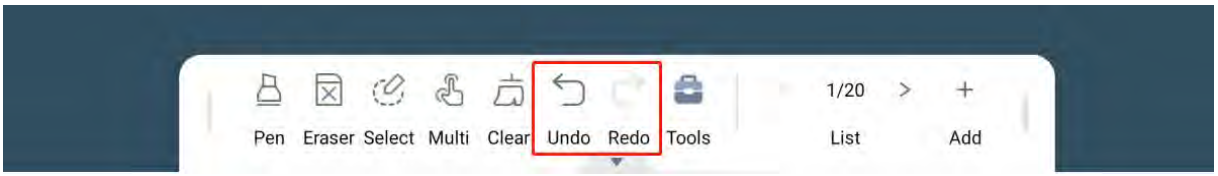
Clear all content on the current page, including lines, shapes, images, text, tables , mind maps, and math tools.



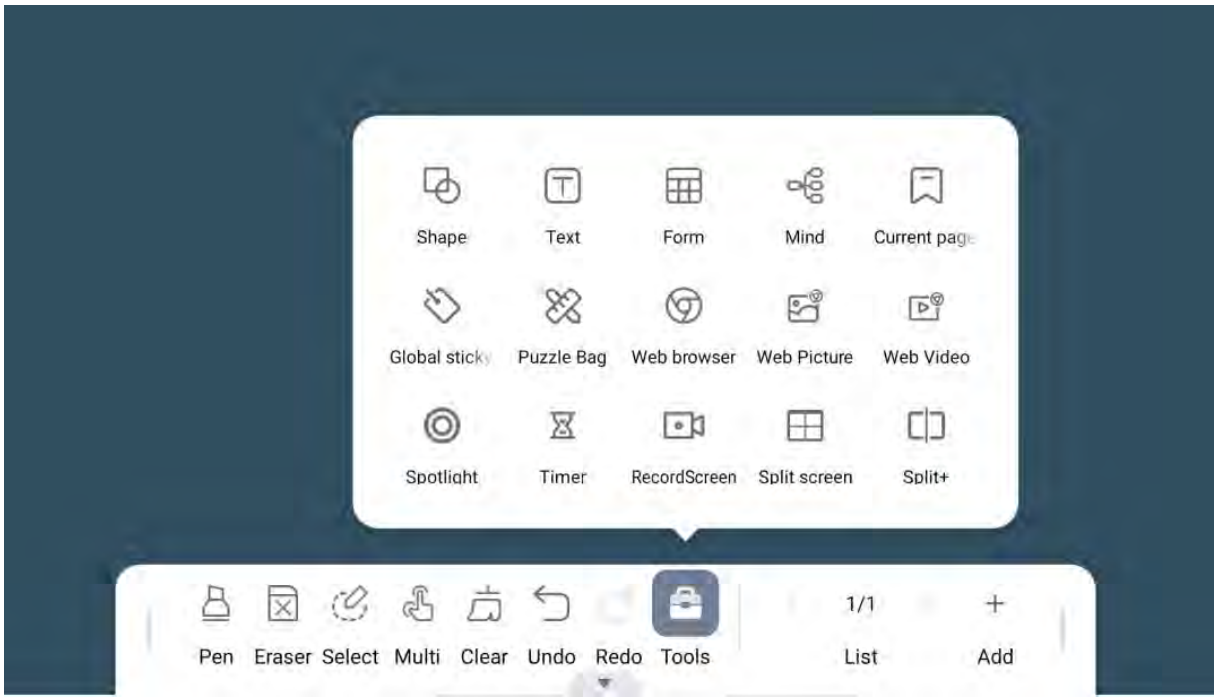

- You can roll back the clearing operation by undo.

### （9）Undo 、Redo

- Undo the last action.
- Redoing the last operation , equals to canceling the undo.



## （１０）White Board Tools




**A. Toolbox - All tools**

All the tools are stored here, including educational tools, conference tools, and other tools.

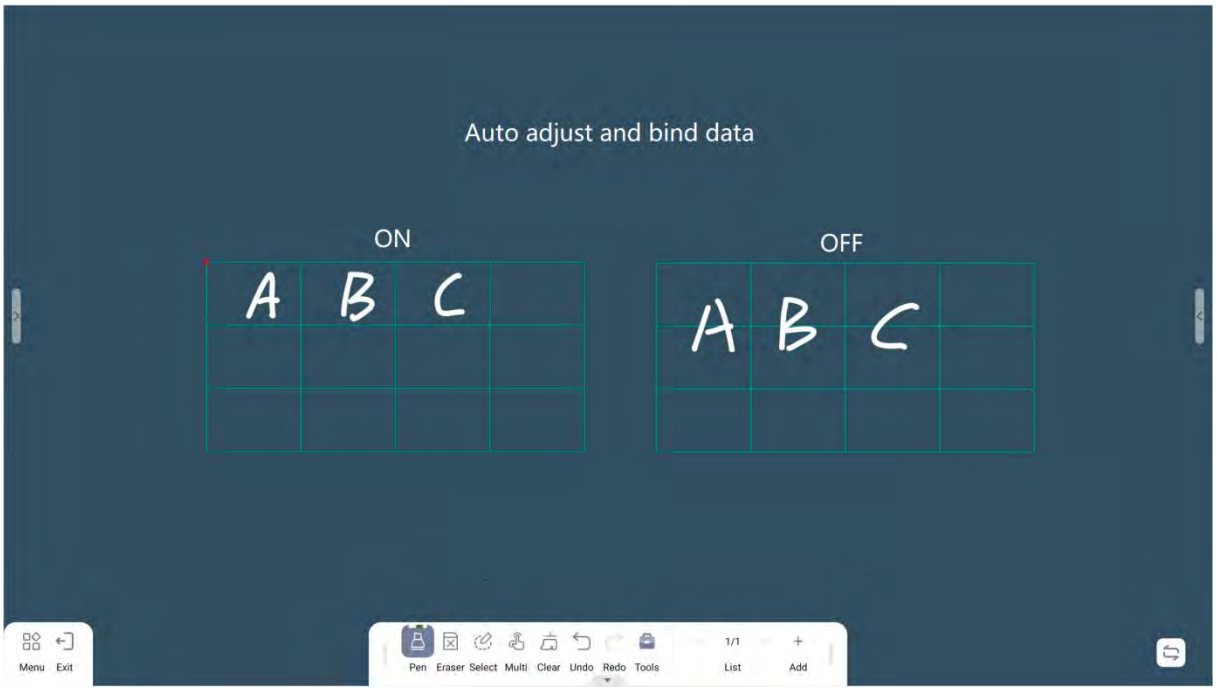
**B. Toolbox - Conference tools**

Put together a list of tools you use frequently in meetings.

**C. Toolbox - Educational tools**

Group together the tools you use frequently in class.

## （１１）Tools-Form

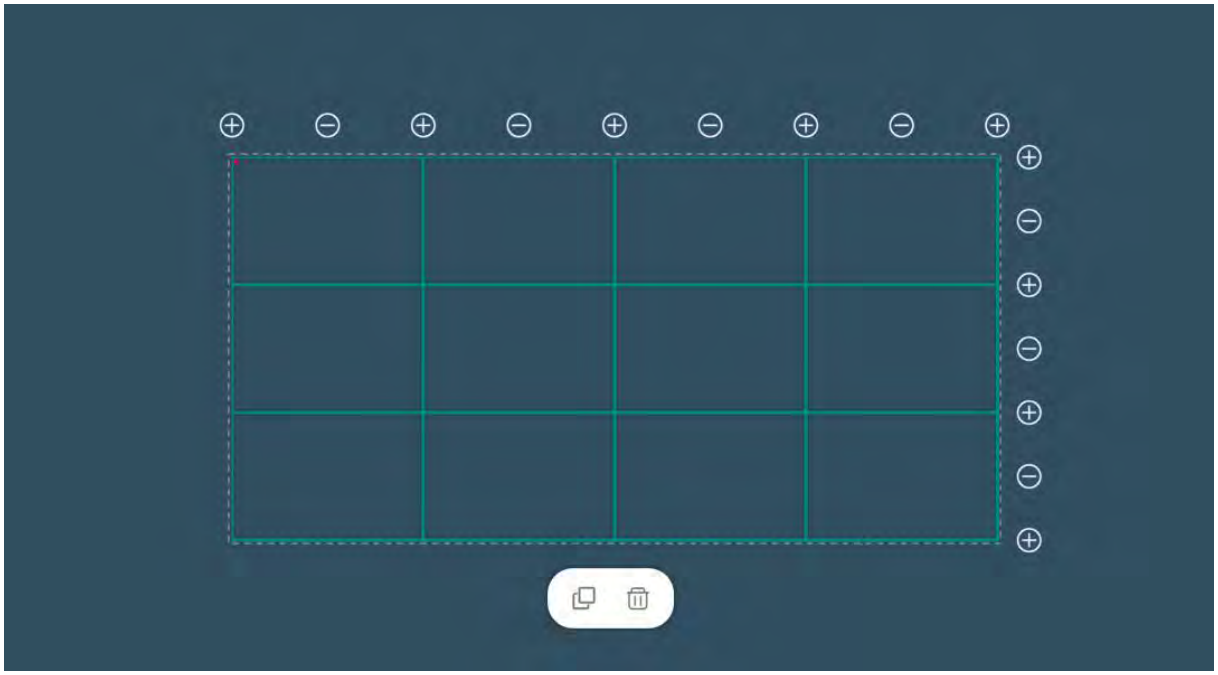



**A. Row**

Decides how many rows the table has, the range is 1-10, the default is 3

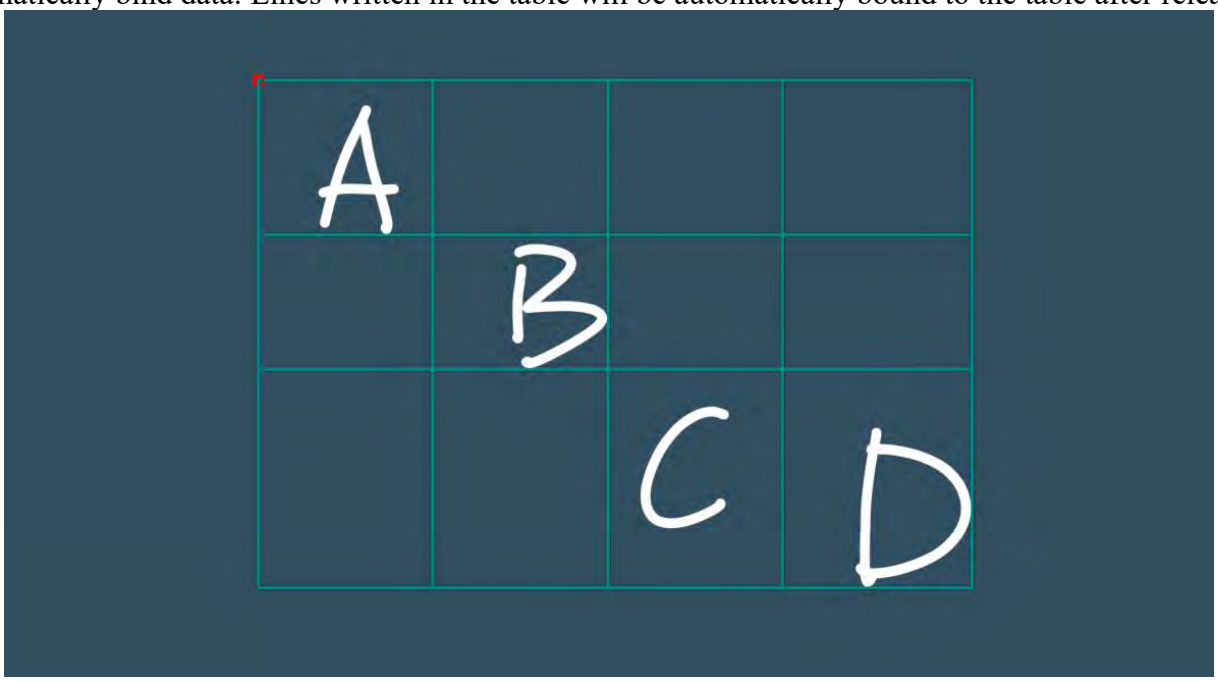
**B. Column**

Decides how many columns the table has. The range is 1-10, and the default is 4



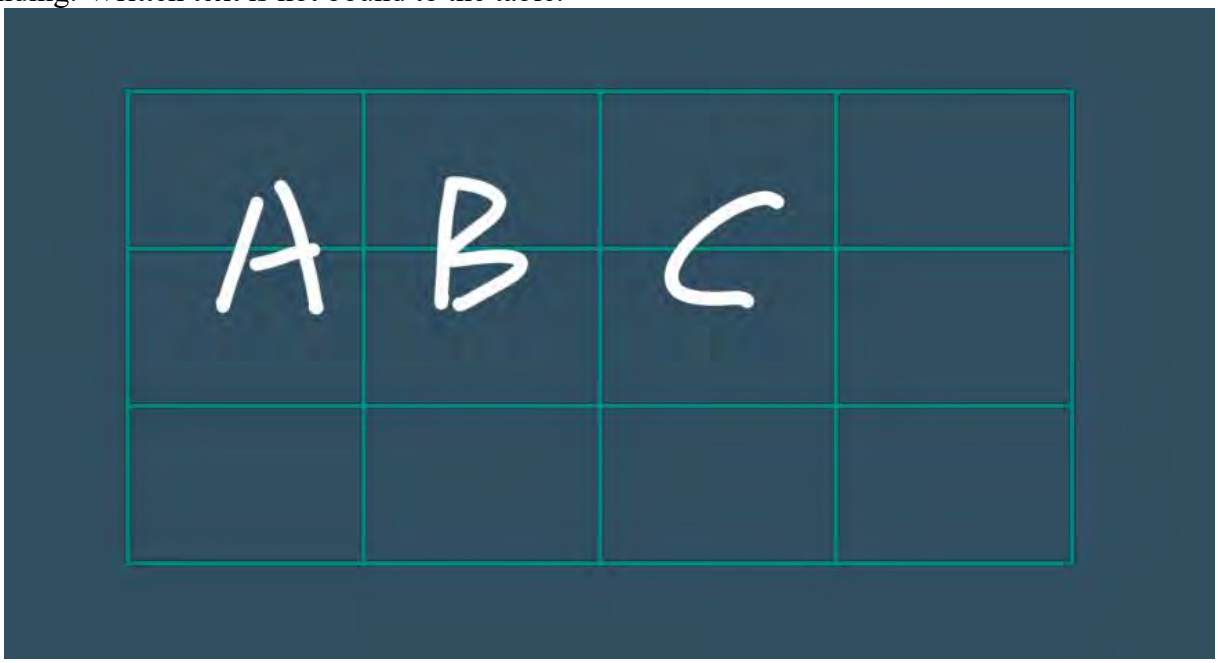
### C. Binding data

- Automatically bind data: Lines written in the table will be automatically bound to the table after release



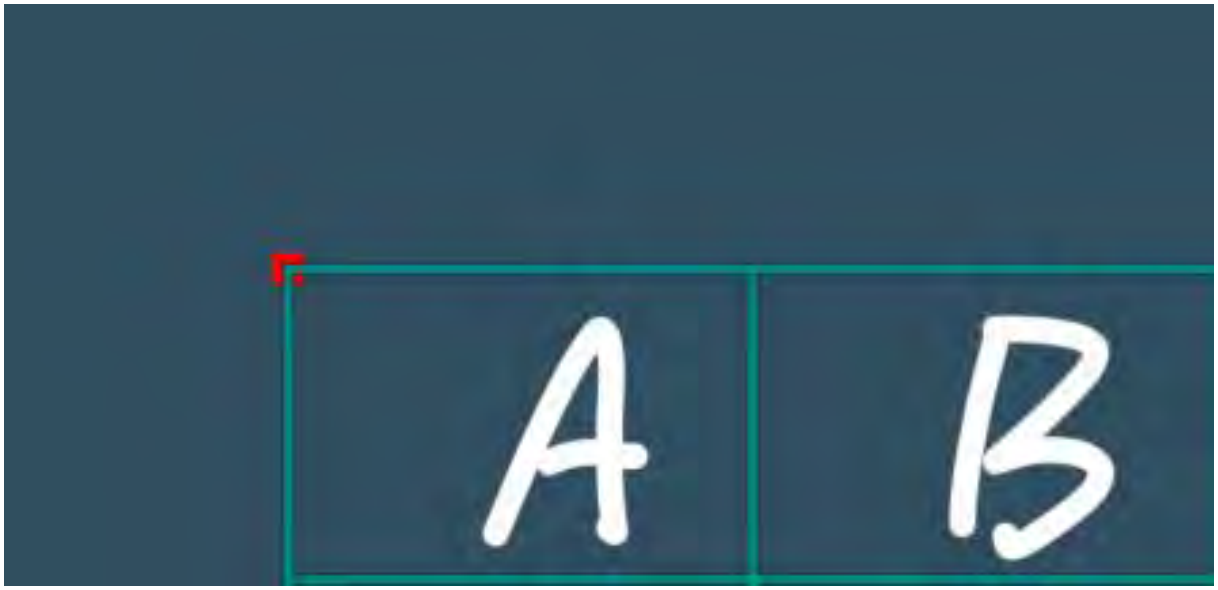

(Tables that automatically bind data)

- No binding: Written text is not bound to the table.

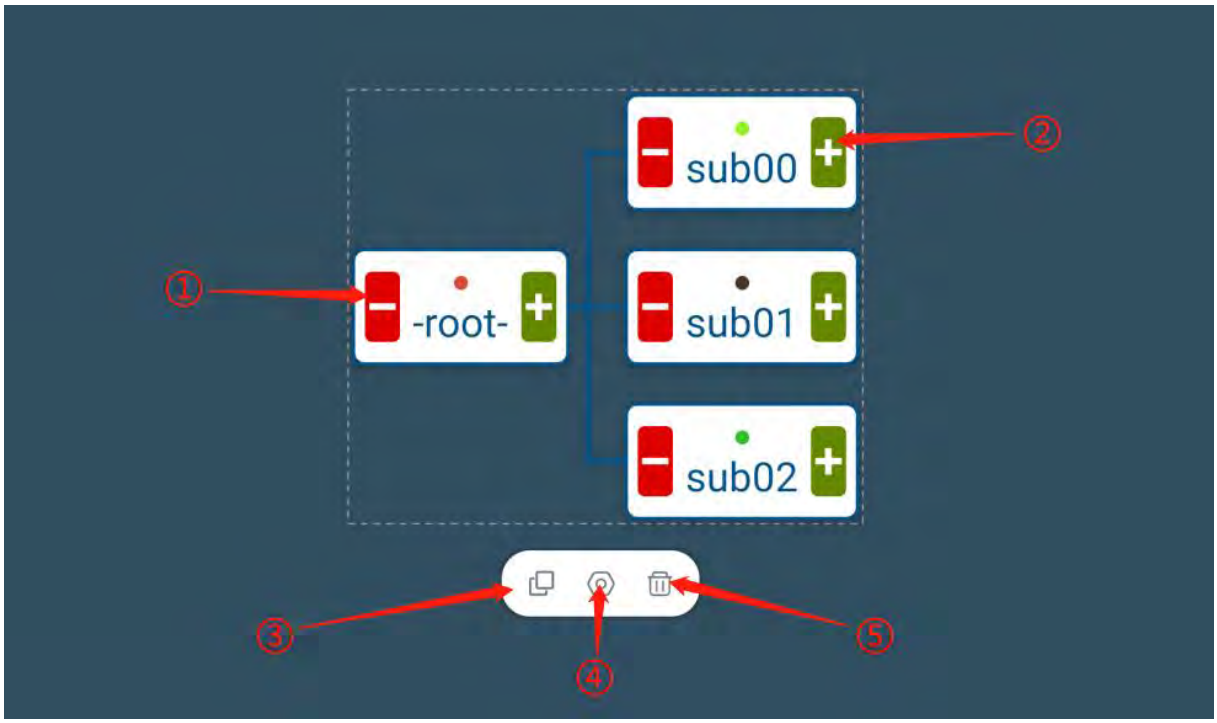



(A table with no data bound)

- Difference: The table that automatically binds data is opened with a red arrow in the upper right corner of the table for distinction.



## （１２）Tools-Mind map

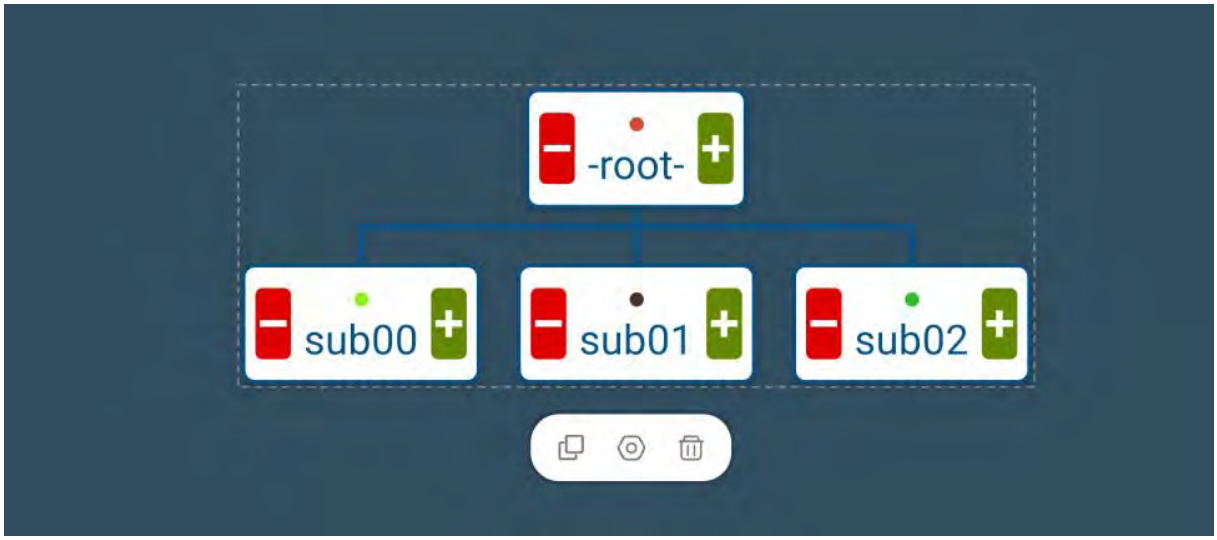



Click the mind map function below to generate a mind map, and long press the ① and ② buttons in the above picture to appear

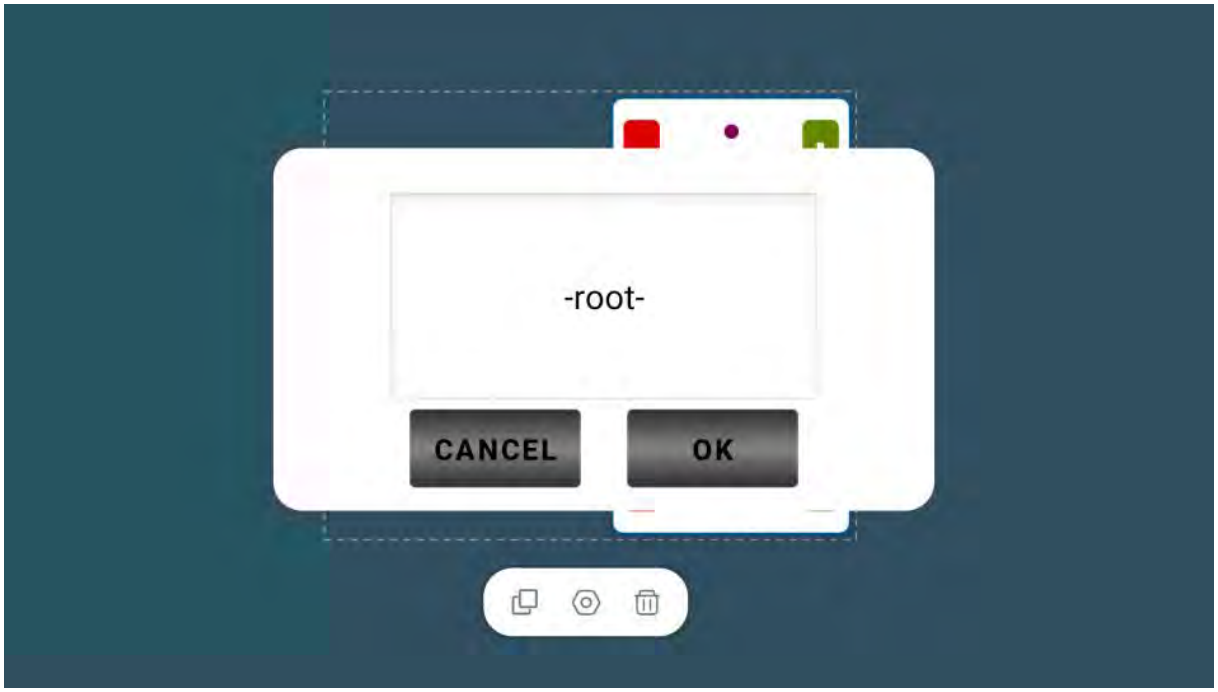
①The button means to delete the node and its child nodes

②The button means to add a child node

In this state, click the ③ position to change the layout, as follows

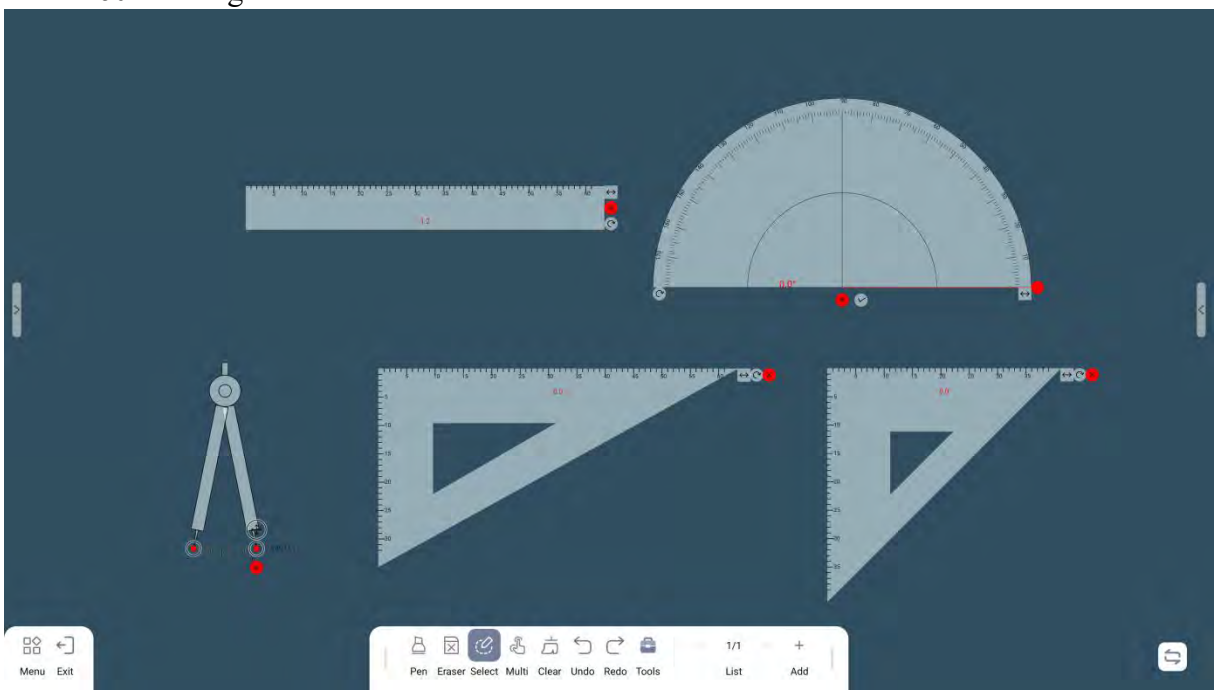



Double-click a node to edit the text, as follows



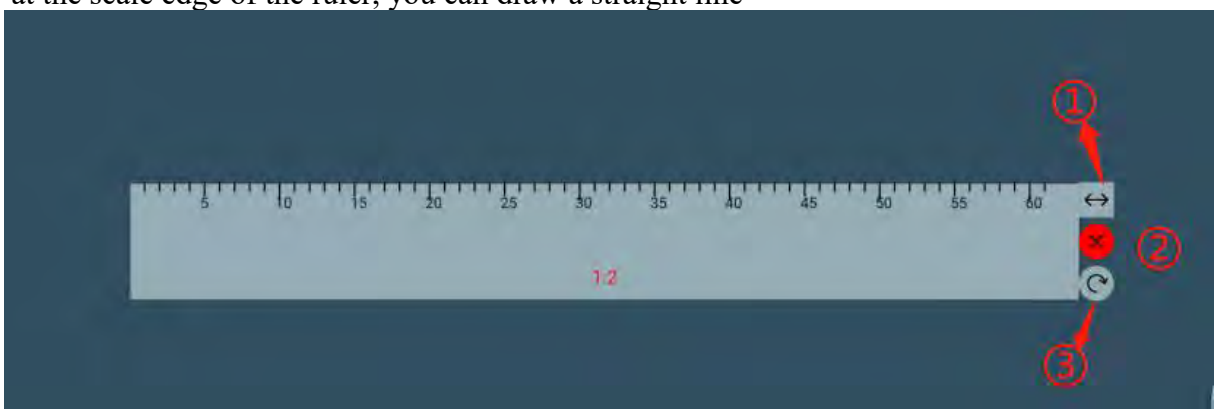

### （１３）Tools-Math tools

The white board has five kinds of mathematical tools, including straight ruler, Angle ruler, compass, 45° triangle ruler and 60° triangle ruler.



### A. Ruler

Draw at the scale edge of the ruler, you can draw a straight line




Features:

- ①Change the length of ruler
- ②Remove ruler
- ③Rotate

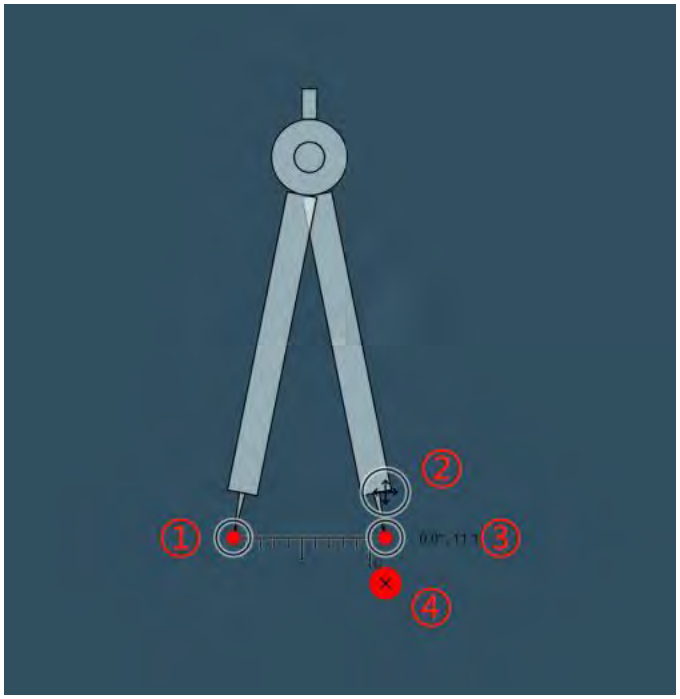
### B. Protractor

You can measure the angle by adjusting the red dot, and the angle will be shown on the protractor.

Features:

- ① Rotate
- ② Remove the angle ruler tool
- ③ Draw an angle
- ④ Enlarge
- ⑤ Adjust the angle

### C. Compass



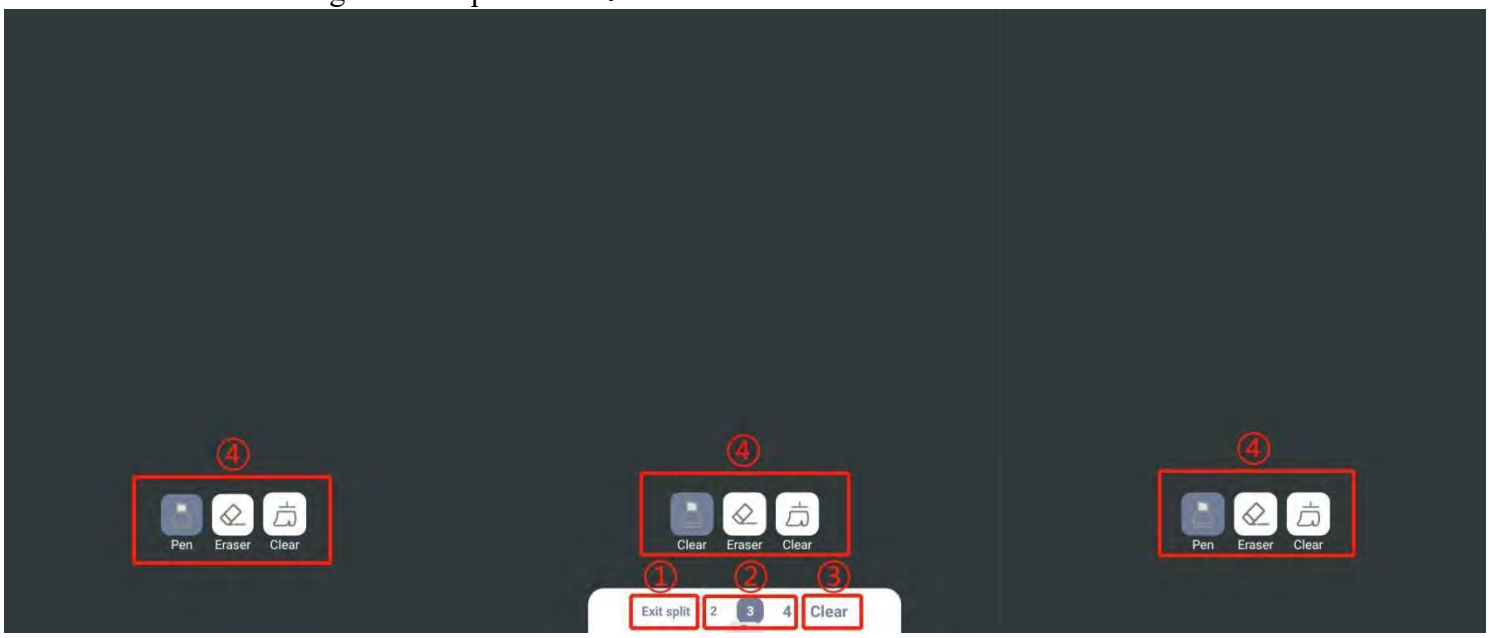

Features:

- ① Fix a point and draw a circle around the point
- ② Adjust radius, rotate
- ③ Move the point to draw a circle, and the displayed figures are the angle and
- radius
- ④ Remove compass tool

### （１４）Tools-Split

The difference between split screen and split screen + is that the compact split screen supports 2 to 4 split screens, while split screen + supports only 2 split screens. In addition, the split screen can only use the simplest features

Split:Support simple writing, erasing and screen clearing. The operations between split screens are independent. You can change the number of split screens and set the default number of split screens in real time, and clear data after exiting the thin split screen。



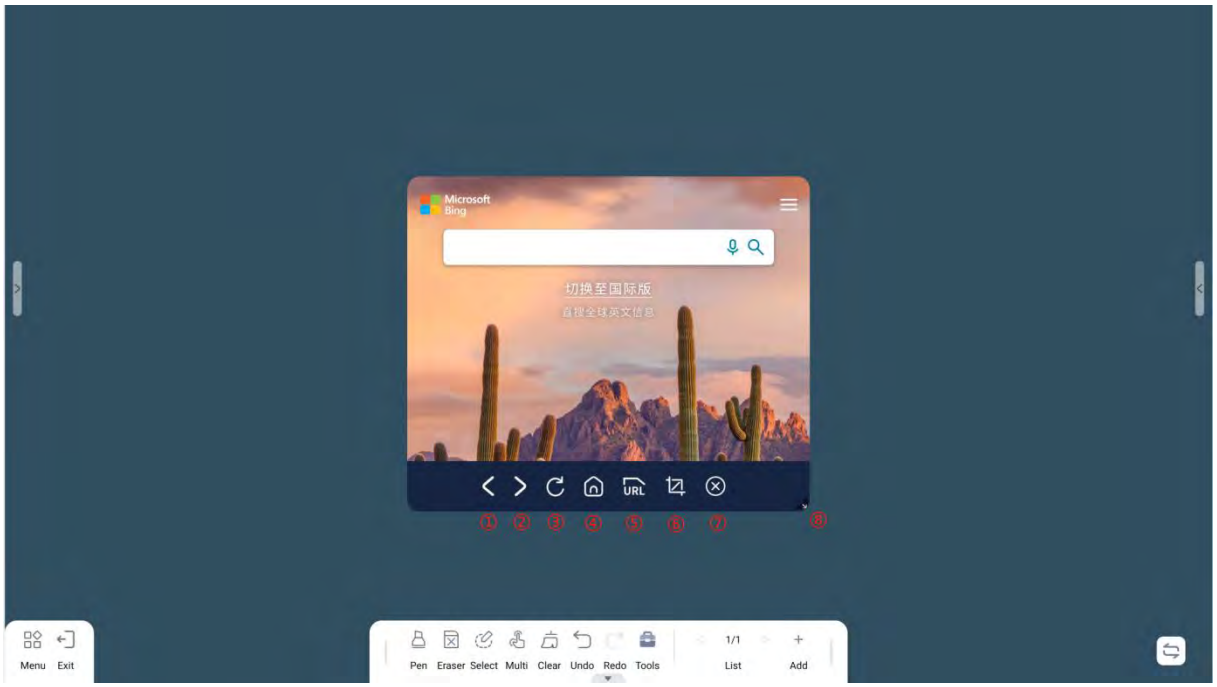

- ① Exits the simplified split screen
- ② Change the number of split screens. A maximum of 2 to 4 split screens can be changed
- ③ Clear screen: After clicking, all split screen lines will be cleared
- ④ Each screen has the tools of brush, eraser, clean screen (single screen).

### （１５）Tools-Split+

Full-featured split-screen function, when the screen is split, it supports independent operation of the whiteboards on both sides. When one side uses functions such as whiteboard, clear screen, recall, or restore, the other side of the whiteboard is not affected by the function.

- How to exit the split screen + function: when you click the split screen + function again, you can exit the split screen + function

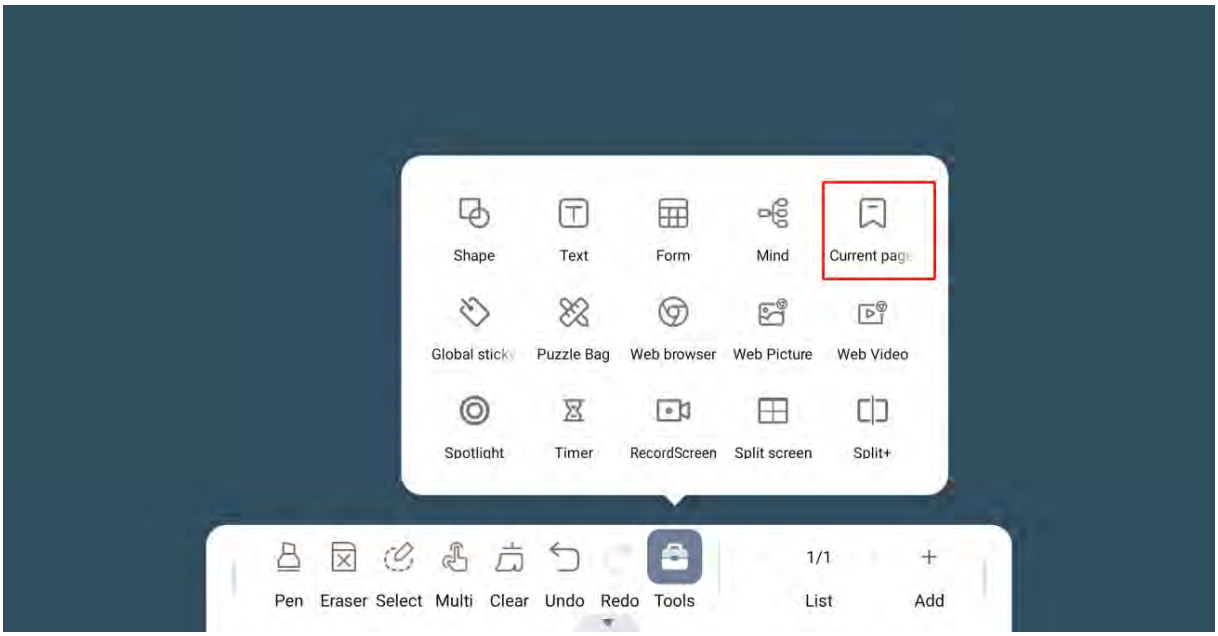
## （１６）Tools-Micro-web browsers




- ① Back
- ② Forward
- ③ Refresh
- ④ Return to the browser homepage
- ⑤ Display URL
- ⑥ Screenshot and import to the whiteboard
- ⑦ Close minibrowser

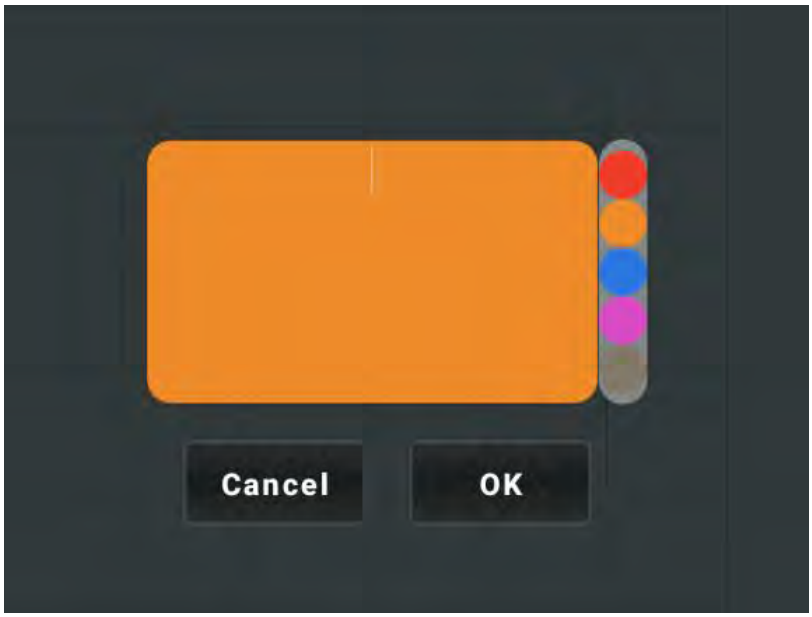
### （１７）Tools-Current page note

Note on the current page indicates the content to be told on the current whiteboard page. This note is displayed only on the current whiteboard page. When the screen clearing function is used, this note will also be cleared.

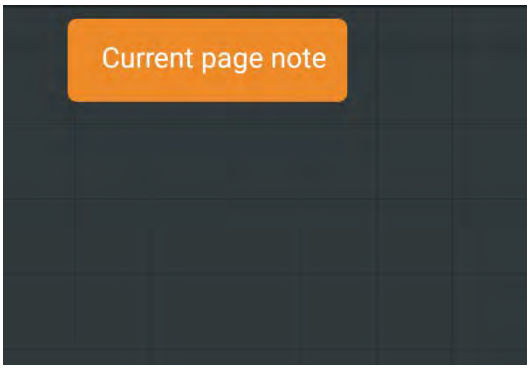



How to use：

- Create a note on the current page, select the color of the note, and enter text.

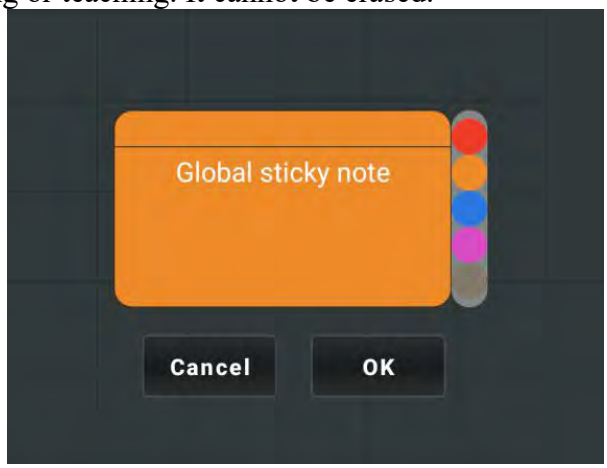


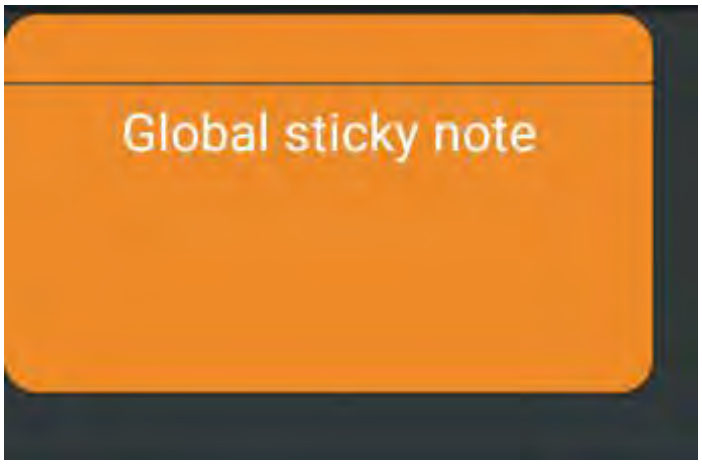
- Note after shrinking




### （１８）Tools-Global sticky note

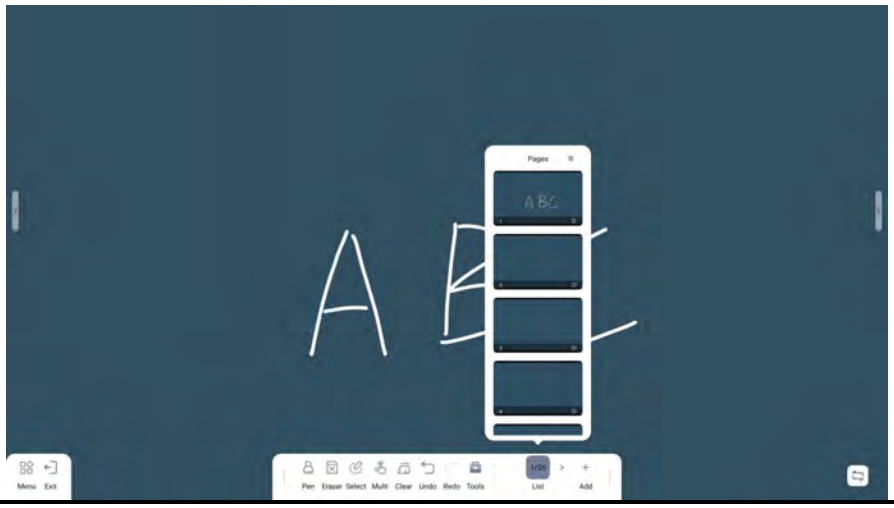
The global note can be displayed on all whiteboard pages. It is a small tool used to explain the topic of the meeting or teaching. It cannot be erased.



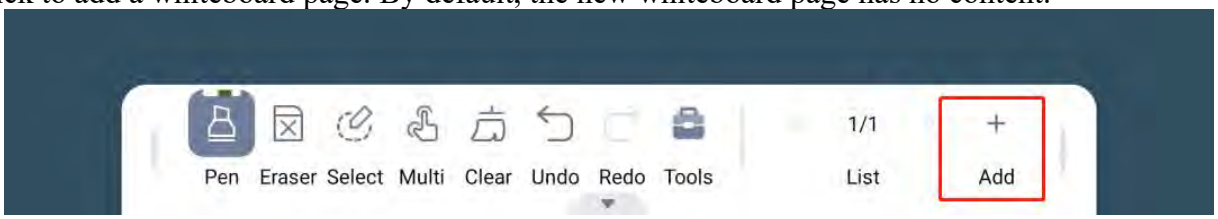

### （１９）Whiteboard page management

- Press the left arrow < to switch to the previous whiteboard page of the current whiteboard page
- Press the right arrow > to switch to the next whiteboard page on the current whiteboard page
- This function is available only when the whiteboard contains at least two pages
- Press the up arrow ∧ to open a list of all whiteboards



### （２０）Add whiteboard page

Click to add a whiteboard page. By default, the new whiteboard page has no content.

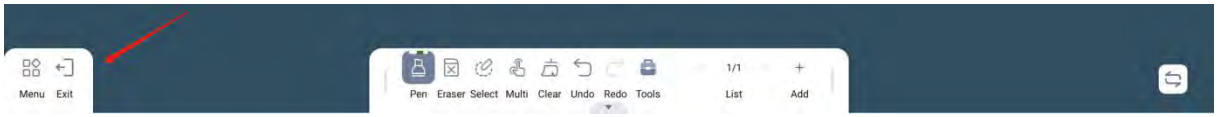



### （２１）Side Menu

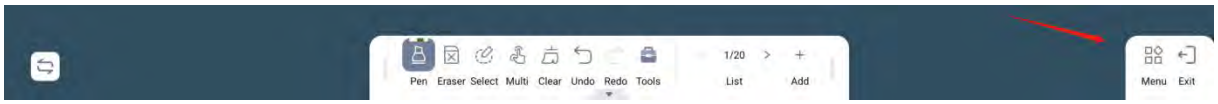
**A. Side menu features swap buttons**

After pressing the button, the position of the menu on the left side of the whiteboard will be switched to the right side of the large screen

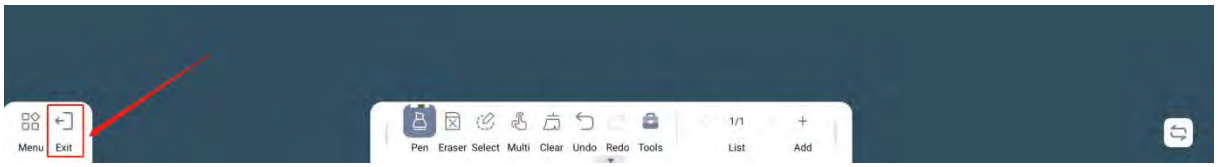
- Before：




- After：




### （２２）Exit the whiteboard

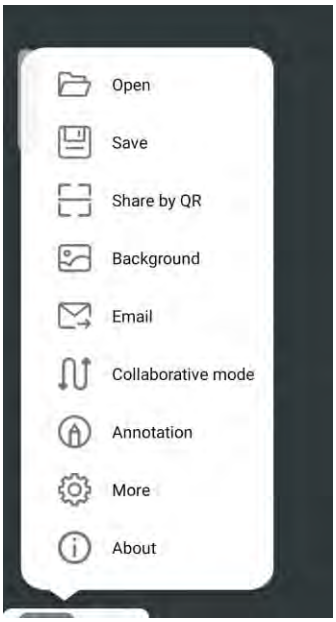


To exit the whiteboard, a dialog box will be displayed to choose whether to save the file or cancel the exit

- Cancel: Cancels the whiteboard exit
- No: exits the whiteboard without saving the whiteboard content
- Yes: Exits the whiteboard and saves the whiteboard content

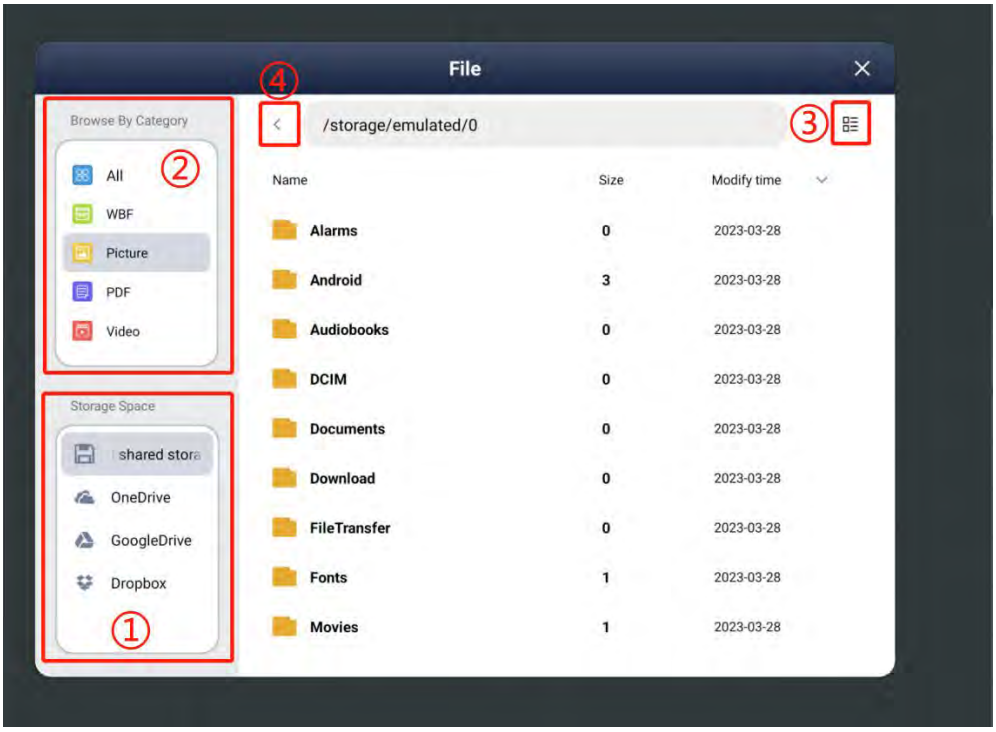
### （２３）Side tool - Menu

The whiteboard menu is used to store the whiteboard functions that are not frequently used.




### （２４）Whiteboard side menu - Open file

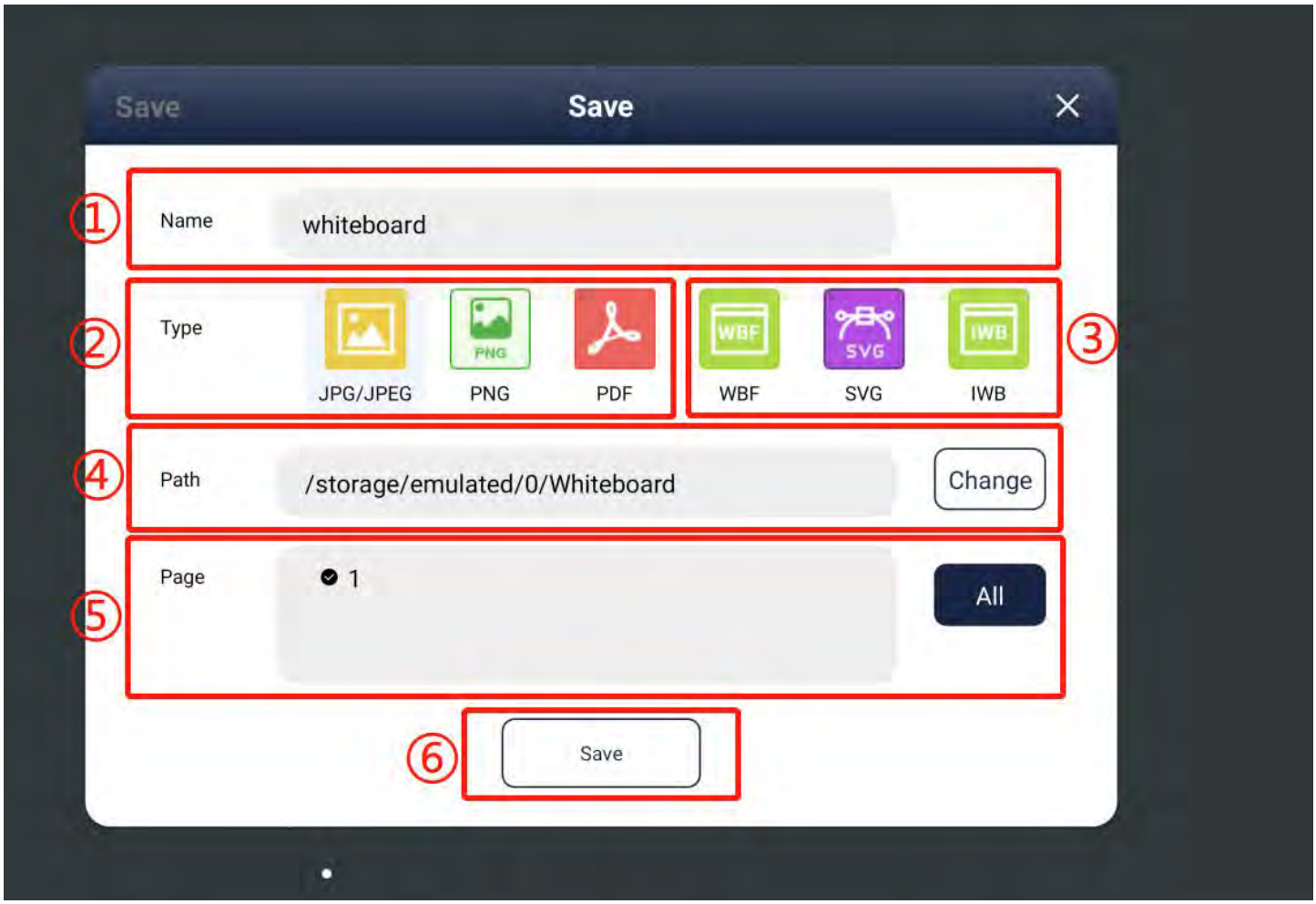
Open the files or import them into whiteboard.




- ①source files: built-in storage space, OneDrive, GoogleDrive, dropbox, U disk;
- ②the classification of all, any WBF, pictures, PDF, and video
- ③display format: switch to a list or grid display
- ④returns the file directory at the next higher level

### （２５）Whiteboard side menu - Save

Save the contents of the current whiteboard to a file location.




- ① User-defined names are supported
- ② Supported image formats:

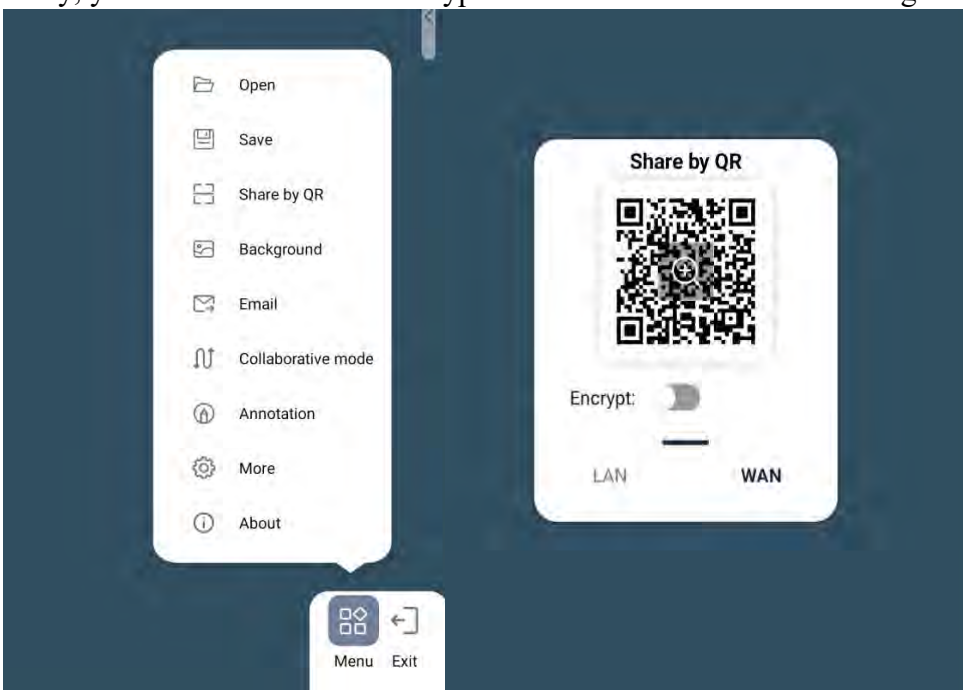
JPG\JPEG:
Support high compression rate, download speed
PNG:
Small size, lossless compression
PDF:
Use document format retention, not easy to be arbitrarily modified

- ③ The supported data format file (WBF, SVG, and IWB) is used to save the original data. After you save the file and open it again, you can edit the whiteboard.
- ④ Save path: built-in storage, U disk, web disk
- ⑤ Customize the whiteboard page to save the whiteboard. You can select the whiteboard page to save the whiteboard content.
- ⑥ Save

### （２６）Whiteboard side menu - Scan code to share files

You can share the whiteboard page on an external device (such as a mobile phone or tablet) over the network.

There are three ways of sharing, LAN sharing, WAN sharing and Bluetooth sharing. At the same time, in order to keep confidentiality, you can also choose to encrypt whiteboard content when sharing。




**A. LAN sharing**

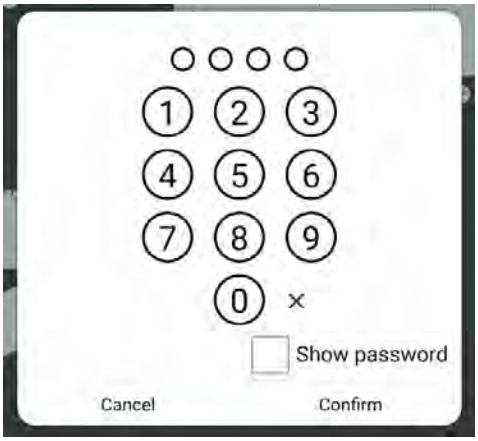
The contents of the whiteboard can be obtained only when the mobile phone and the large screen are in the same LAN and the QR code of the large screen can be scanned by the mobile phone.

**B. WAN sharing**

In WAN sharing, the mobile phone and the large screen do not need to be in the same LAN. The mobile phone can scan the two-dimensional code on the large screen to obtain the content on the large screen.

**C. Encrypted sharing**

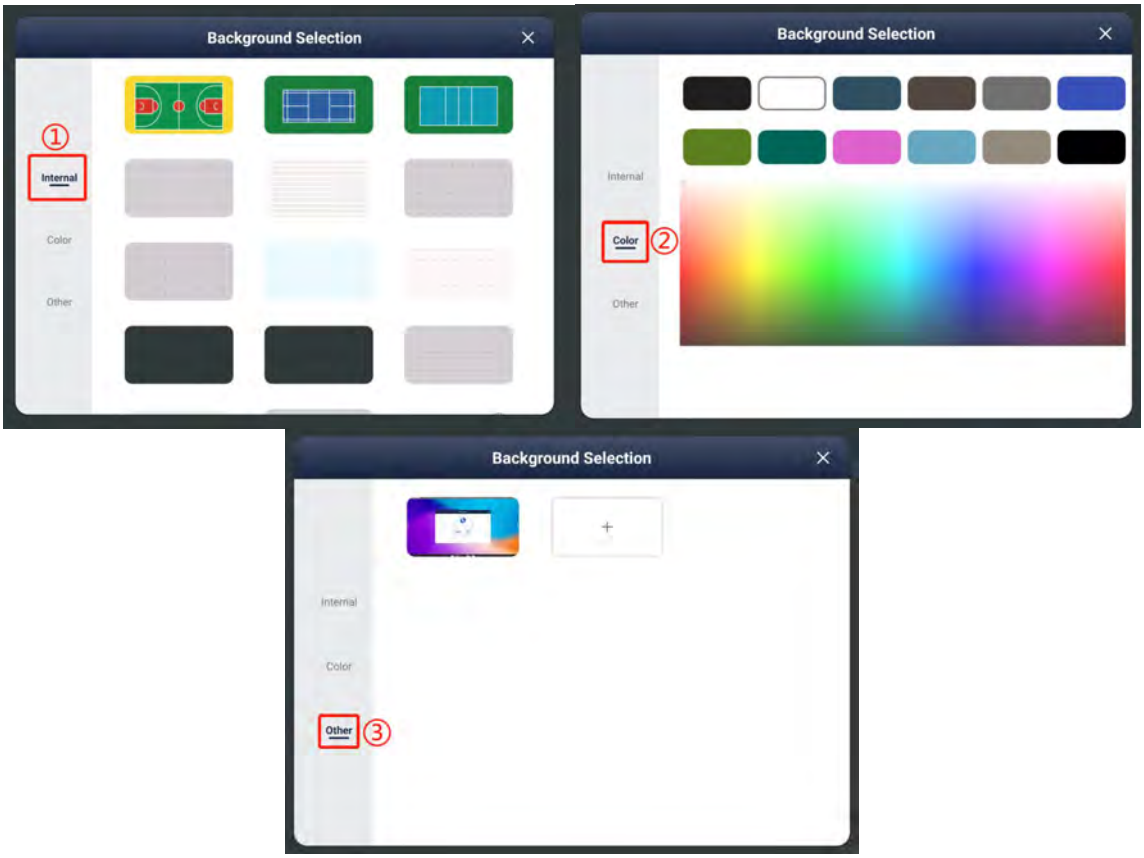
When this option is enabled, a password box will popping-up for setting  password. When someone scans the QR code on the large screen using a mobile phone, they need to enter the same password to access the whiteboard page。




**D. Enlarge the code**

Press + to enlarge the code.

## （２７）Whiteboard side menu - Replace background

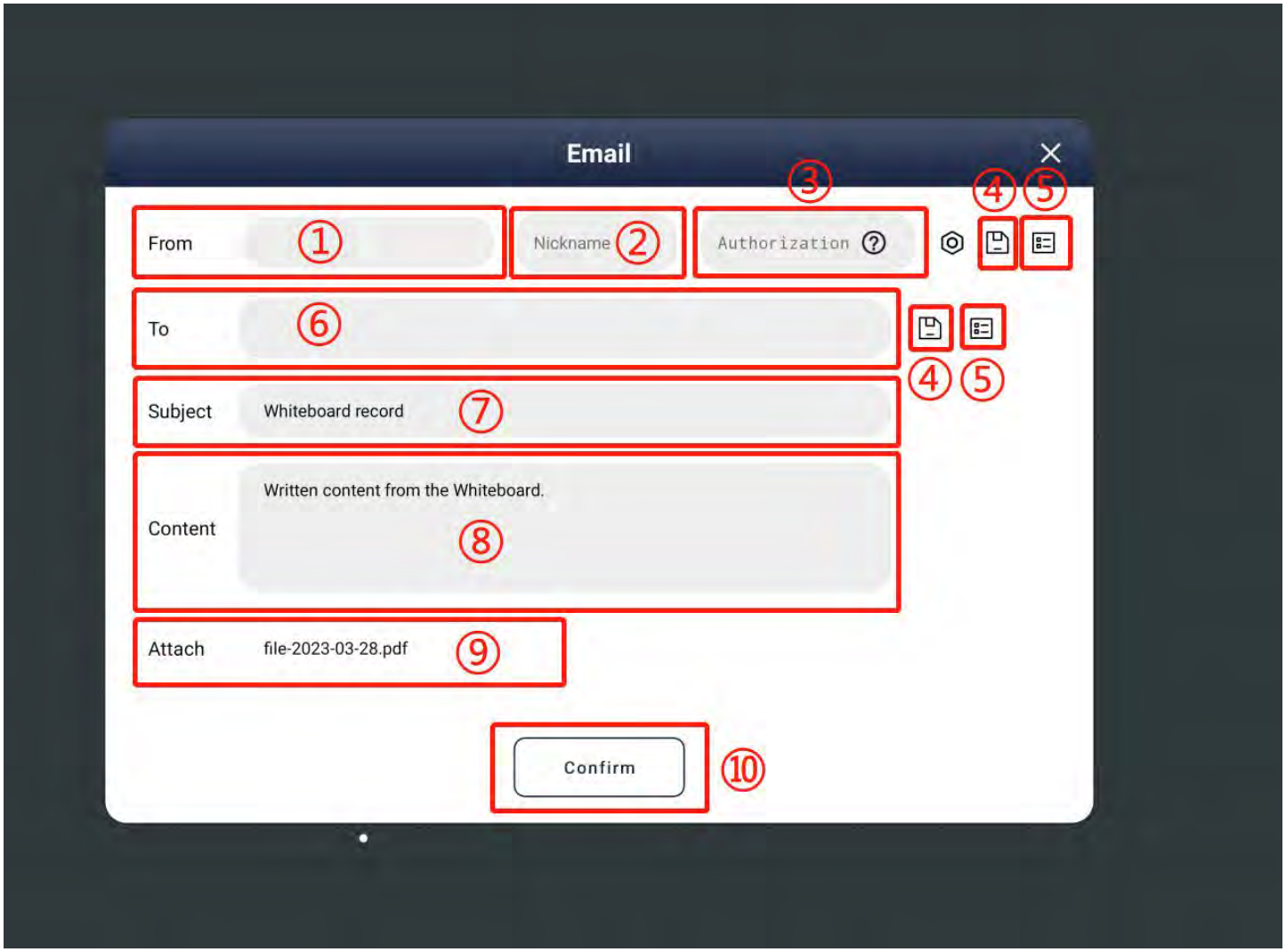



A. **Background: 15 conferences and teaching backgrounds are built in.**

B. **Color backgrounds: You can set the solid color background, support the custom color plate for your choice.**

C. **Other backgrounds: Images can be imported from the machine's storage space, external USB flash drive, or web disk as the background.**

## （２８）Whiteboard Side menu - Send mail

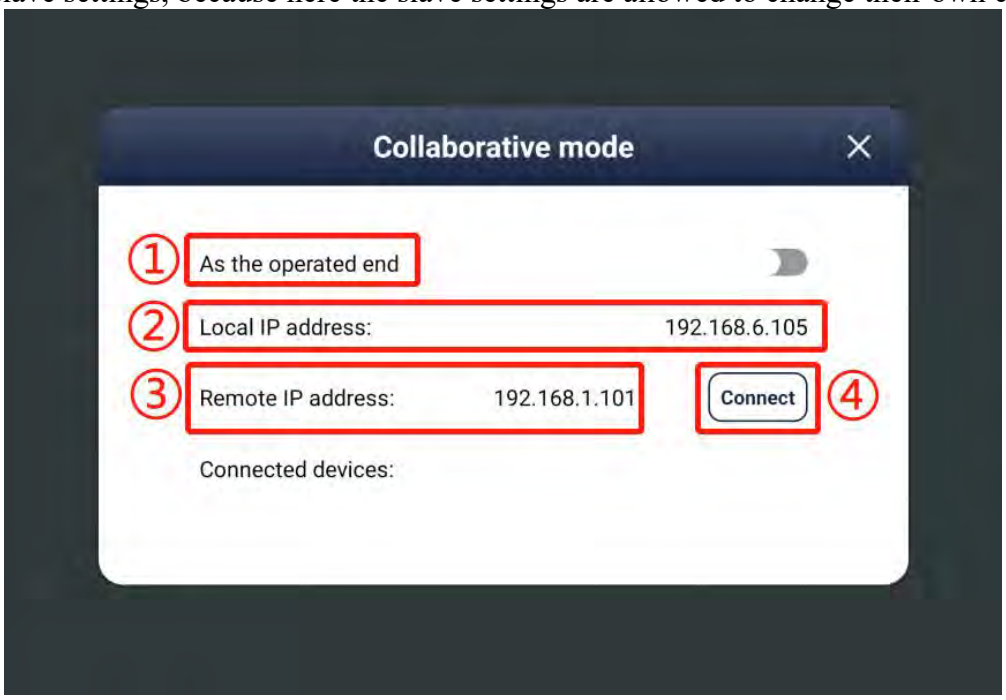



- ① The sender's email account
- ② Sender's Nickname
- ③ Authorization password of the sender
- ④ Save sender\recipient account information
- ⑤ Select sender\recipient account
- ⑥ Select other servers and ports (optional)
- ⑦ Recipient's email account
- ⑧ Edit email subject
- ⑨ Edit email content
- ⑩ Send email

### （２９）Whiteboard Side menu-Collaborative mode

Within the same LAN, one device (master) can control another device (slave) to synchronize the contents of the whiteboard to the (slave) device, or control the (slave) device to remove the drawing lines from the whiteboard. There are three main functions:

- Writing: The touch data written by the master device is transmitted to the slave device in real time, and the slave device operates according to its current writing configuration.After manual synchronization, you can write the same content.
- Clear screen: The master device controls the slave device to clear the screen, but the master device does not clear the screen.
- Manual synchronization: synchronize the writing configuration (size, color and input mode) of the master device to the slave settings, because here the slave settings are allowed to change their own configuration.



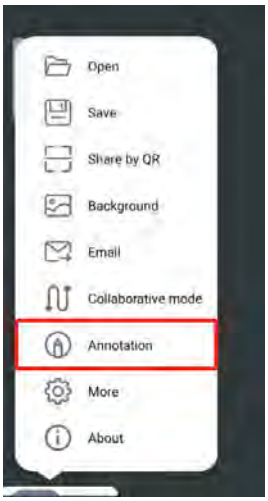

- ① As the operated end: After opening, connect with other MFPs, the drawing line of the other party will be synchronized to this device.
- ② Local IP address: display the network IP address of this device;
- ③ Remote IP address:
- ④ Connection

How to connect：

- First set device A and device B in the same LAN
- Device A is in the 'As Operated Side' is on state, let Device A be the slave device.
- Device B in 'as the operated end' is off, leaving device B as the master device.
- Enter the 'remote IP address' of device B into the IP address of device A
- Click the connect button of device B
- When the connection is successful, the bottom of the page will show Connected Device:XXXXX (Device A name)

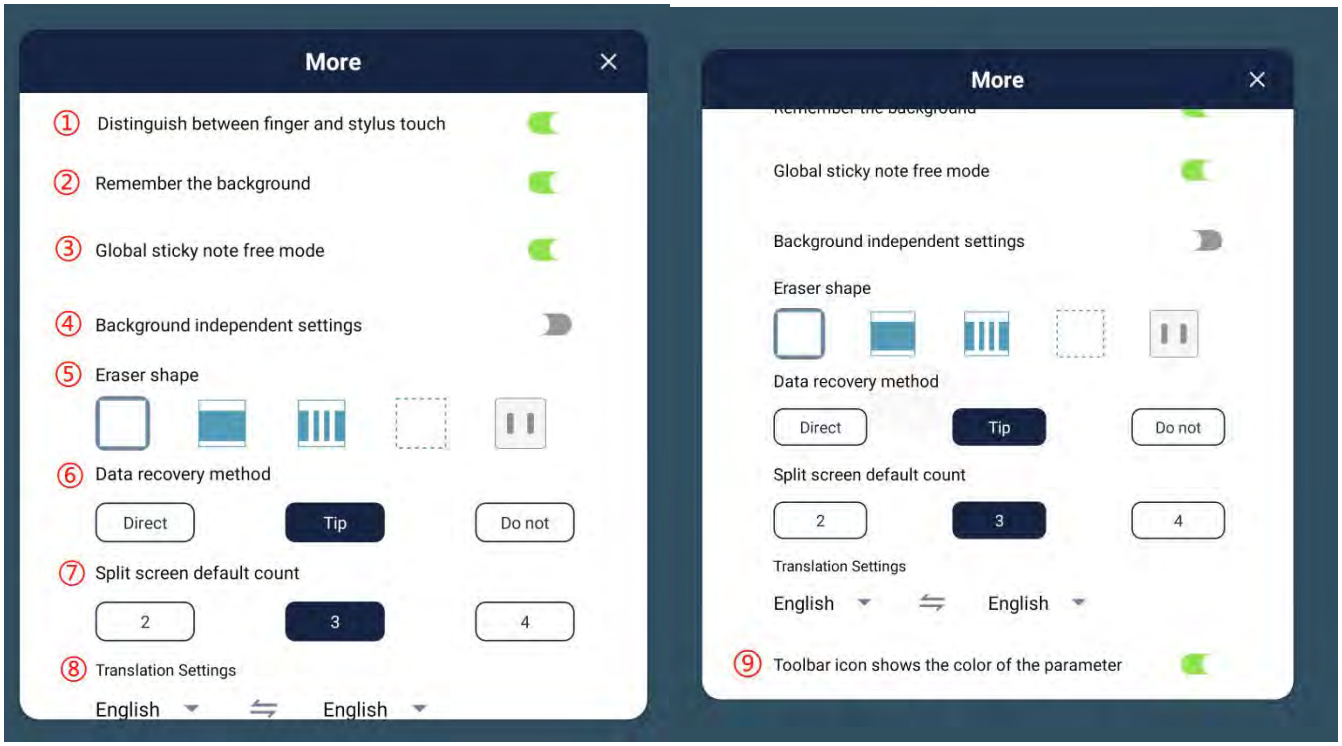
### （３０）Whiteboard Side Menu - Annotation

Quick access to the annotation .




### （３１）Whiteboard Side Menu - More Settings

Some of the preferences provided to users.

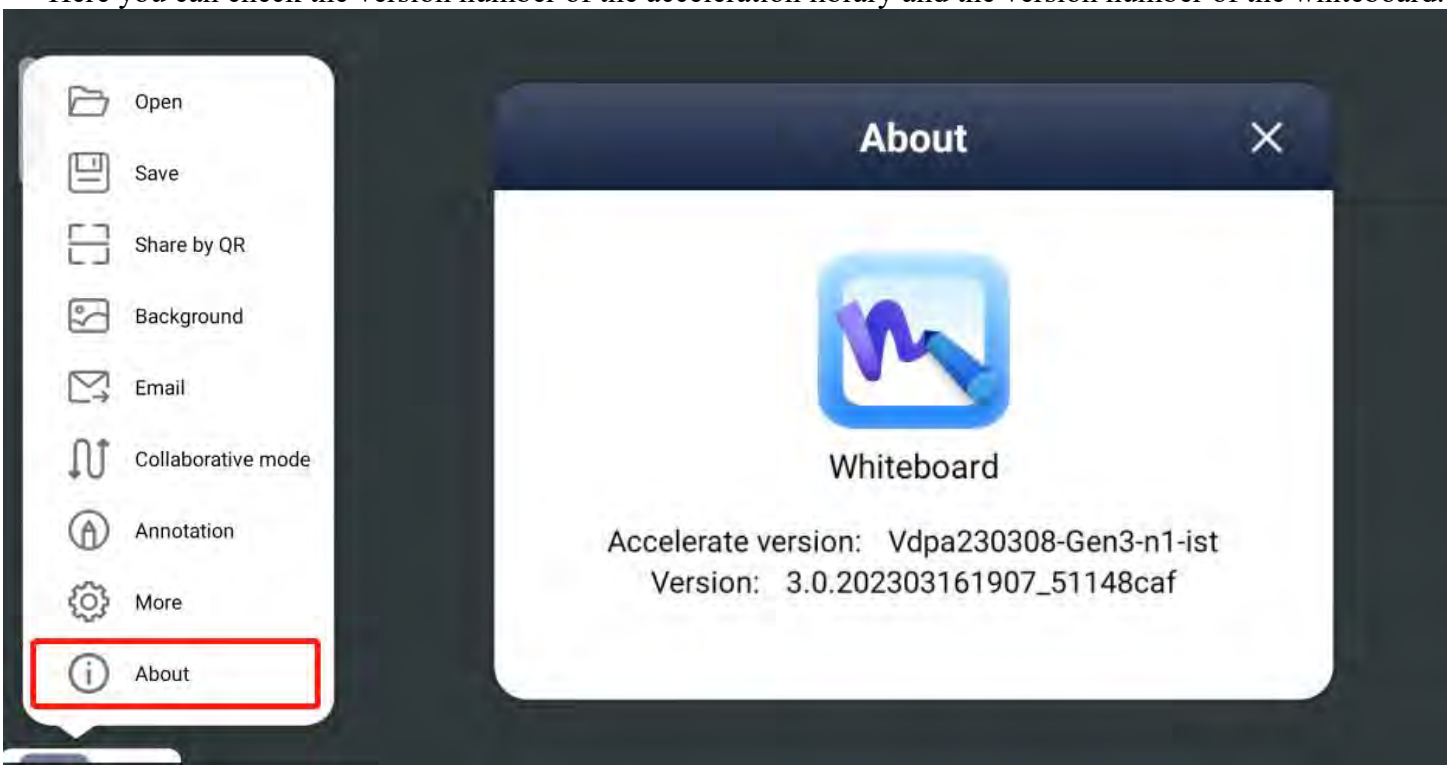



- ① Hand and pen recognition: Whether to distinguish the finger and pen parameters when writing according to the different contact area with the screen.
- ② Remember background: whether to remember the last set background, also effective after shutdown.
- ③ Global sticky note free move mode: you can drag the global sticky note on the big screen at will after opening.
- ④ Board eraser shape: you can choose different board eraser patterns.

- ⑤ Data recovery mode: detect data with data presence, the way to recover.
- ⑥ Default number of split screens: the default number of split screens when entering the streamlined split screen, you can set 2, 3, 4.
- ⑧ Translate setting
- ⑨ Toolbar icon shows the color of the parameter.

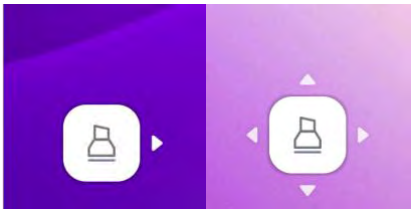
### （３２）Whiteboard Side Menu-About

Here you can check the version number of the acceleration library and the version number of the whiteboard.



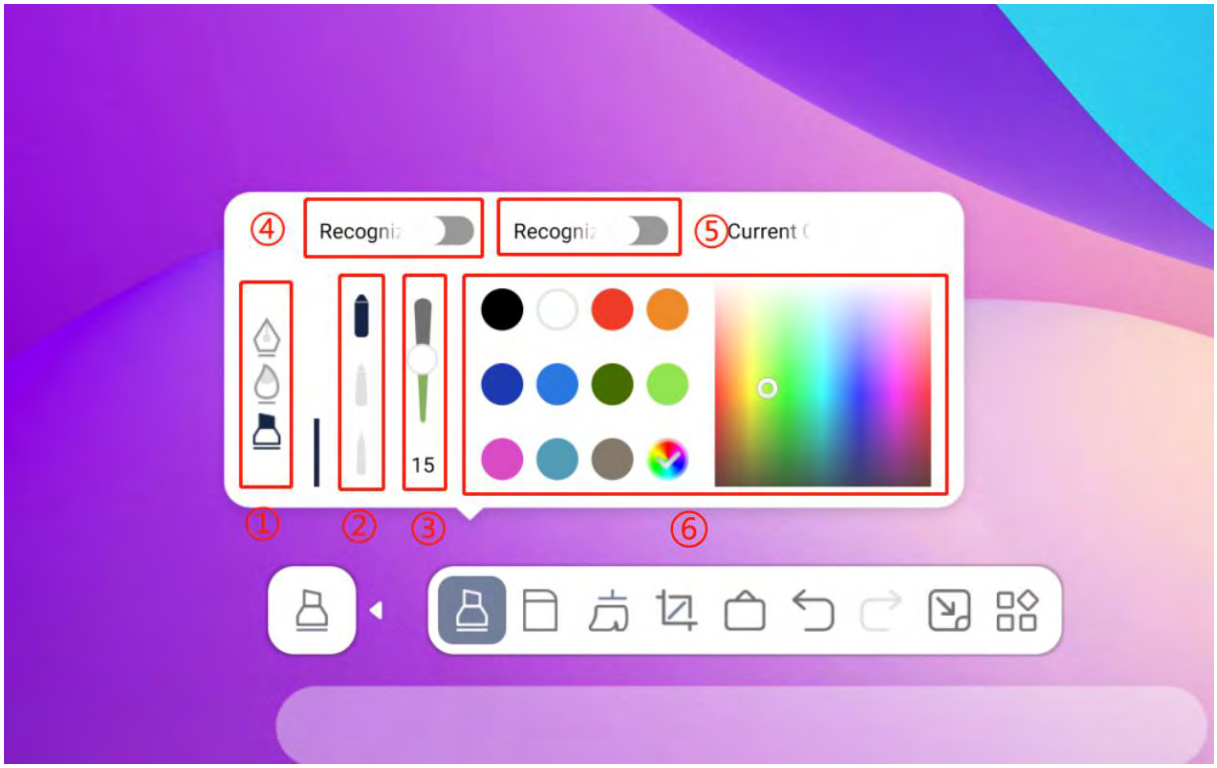
# XXV、Annotation

Access to the annotation function



- ①Not moving
- ②Moving
- ③Expand the annotation box

## （1）Annotation pen




①Adaptive thickness pen function

The self-adaptive thickness pen function has recognition of three types: SS (super fine pen), S (fine pen), and F (thick pen), which is distinguished by the size of the pen used to touch.

Although it is an adaptive pen thickness, this function is defined as three different types of electronic pens. Each pen can adjust the pen settings, line thickness and line color independently according to personal preferences. When different people use different pen thicknesses When writing with a special pen, the electronic whiteboard can accurately distinguish the drawn lines.

Remark:

The function of the adaptive thickness pen is dependent on the touch frame, and the touch frame needs to support this function

Ultra-fine pen: 2.8mm

Fine pen: 6.5mm

Thick pen: 10mm

②Brush function

The paintbrush supports 3 kinds of pen shapes, from top to bottom are fountain pen, brush, and whiteboard pen. It draws materials from reality, selects 3 kinds of pens commonly used in life, and imitates the pen marks written by pens.

Fountain pen: Smooth drawing lines, tough pen marks, sharp edges when detached

Brush pen: The lines are round and smooth, art style writing

Whiteboard pen: draw lines without any effects, has the fastest writing speed

③Pen thickness adjustment

The size of the pen mark can be adjusted.

④Shape recognition

After this function is turned on, shapes can be automatically recognized according to the shape of the drawn line, and this function can recognize the shapes drawn by multiple users at the same time.

Remark:

Delete: The shapes identified by drawing lines can only be erased by using the selection or clear screen, and the eraser cannot erase this shape  Supported shapes: triangle, rectangle, trapezoid, circle, ellipse

⑤Text recognition

After the function is turned on, the language pack can be automatically downloaded through the default language of the system. After the whiteboard  recognizes the font shape of the line drawn on the large screen, it will automatically convert it into text.

Remark:

After opening the function for the first time, the machine needs to connect to the network to download the language pack

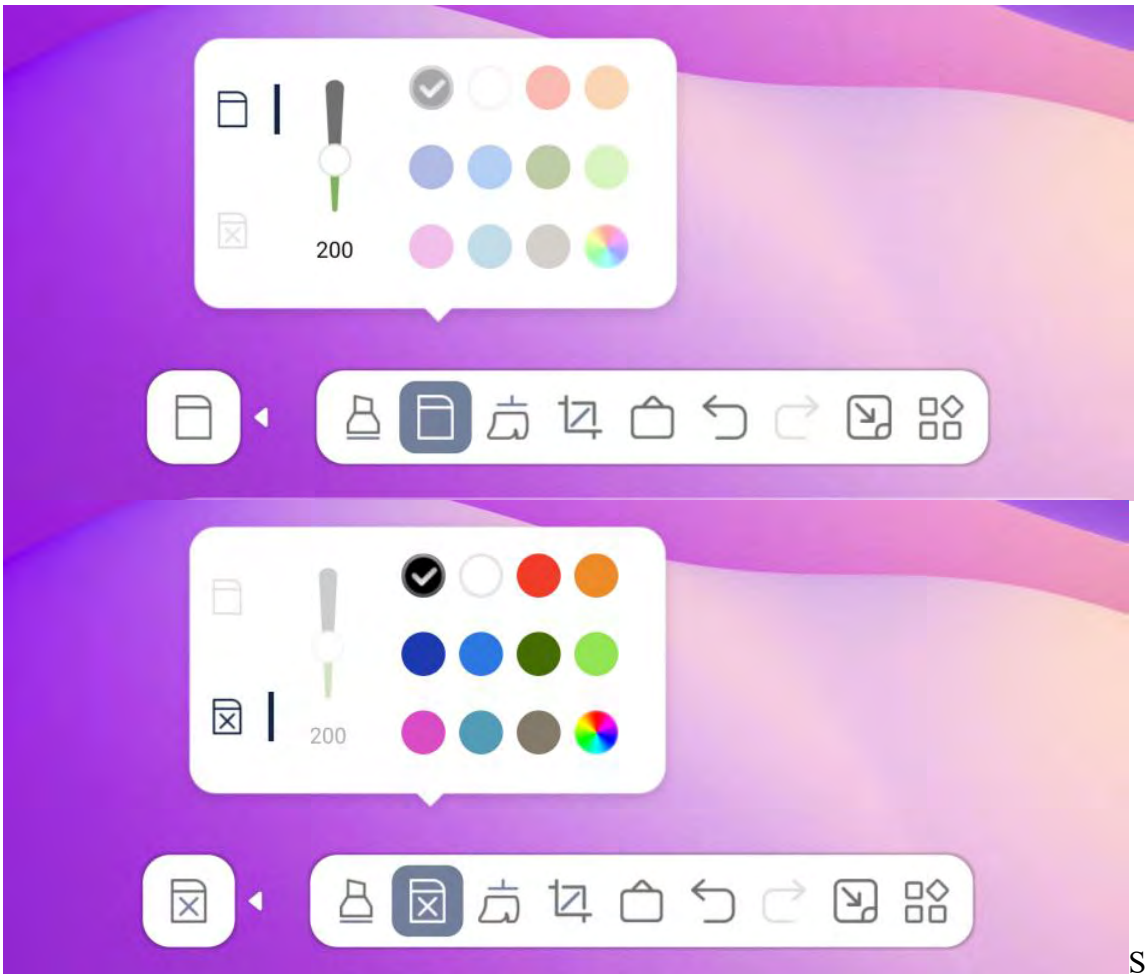
Text recognition can only recognize the current system language and English letters

Supported languages: Chinese, English, Korean, Japanese, Latin

⑥Brush color board

This function is used to change the pen color

## （2）Erase the annotation




S

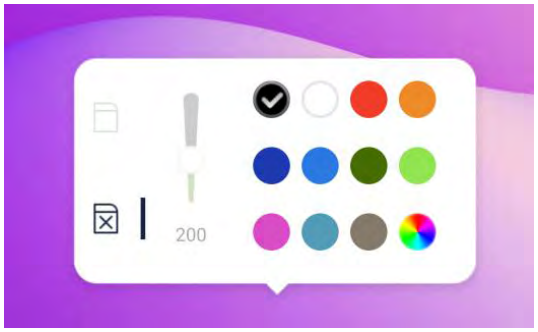
### A. Eraser

Used to erase the drawing line on the whiteboard, when selected, function ③ (eraser size adjustment) will light up, you can adjust the size of the eraser, support 100~350 units of adjustment.

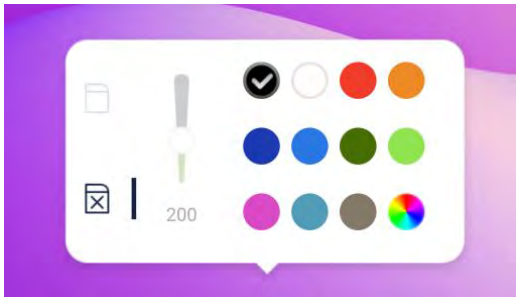
- Eraser thickness adjustment,Used to adjust the size of the eraser.
- Eraser function has no color palette, by default all colors of the drawing line can be erased.

B. **Circle Eraser**

When the circle erase function is selected, the corresponding content can be cleared by touching the drawing line on the whiteboard; or by circling the object with the circle erase function, the content can be cleared as well.




- Circle eraser is not available with the coarse and fine function, the default is set to gray
- Circle eraser default select full color can be erased




- Specific circles erase specific colors of lines, for example, if you choose black circles, when you use the circle erase function, only black lines can be erased, other colors of lines will be automatically retained.

C. **Hand Back Eraser**

The hand back eraser eraser requirements is the minimum contact 30mm (length and width), the greater the contact out of the board eraser the larger

### （3）Clear Screen

Clear all contents on the screen.

### （4）Screenshot insert whiteboard function

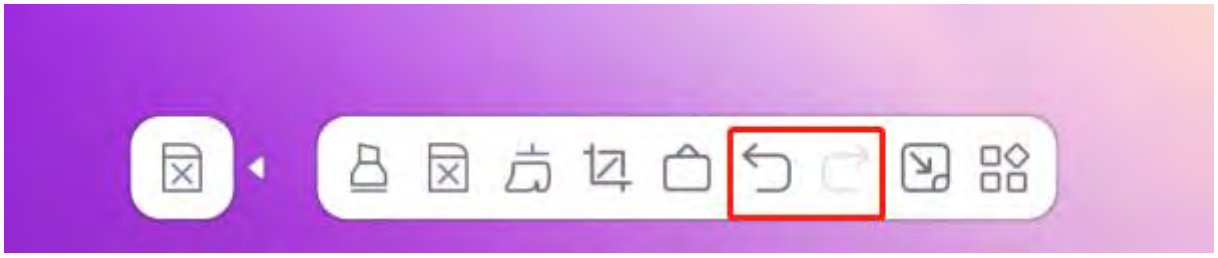
By this function,the annotation will generate a screenshot of the large screen background along with the content of the annotation and insert it into the whiteboard。

### （5）Access to whiteboard

Quick access to whiteboard.

### （6）Undo、Redo

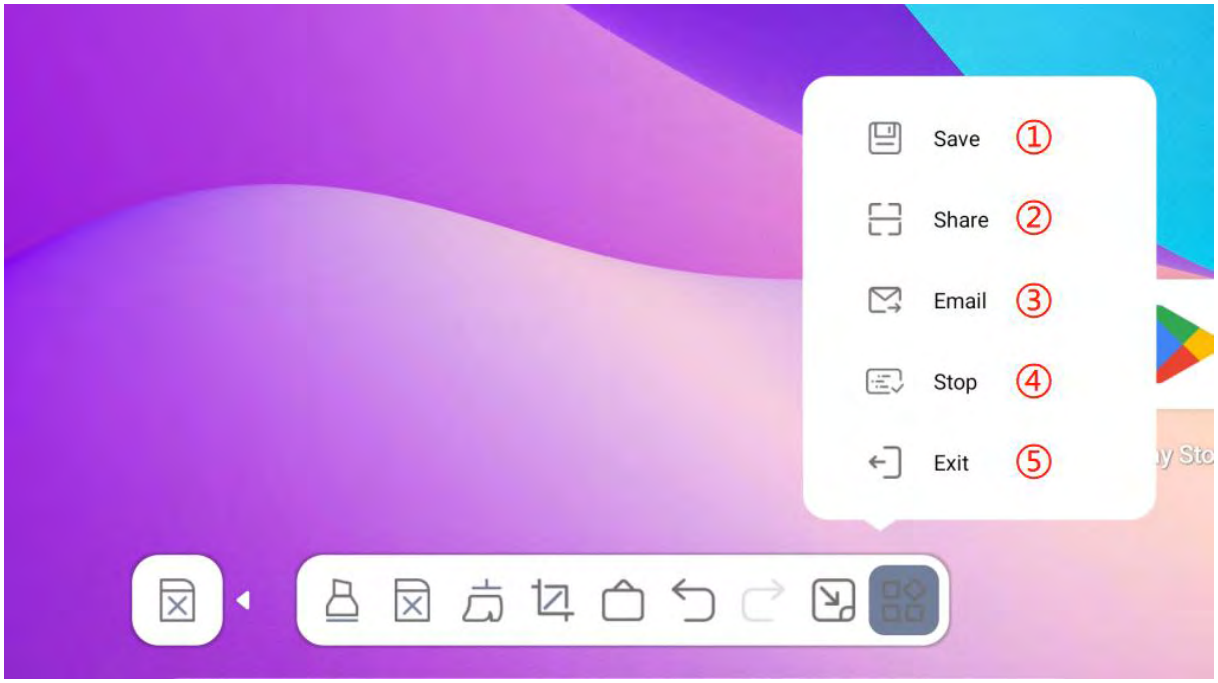
- Undo the last action.
- Redoing the last operation , equals to canceling the undo.



### （7）Minimize the annotation

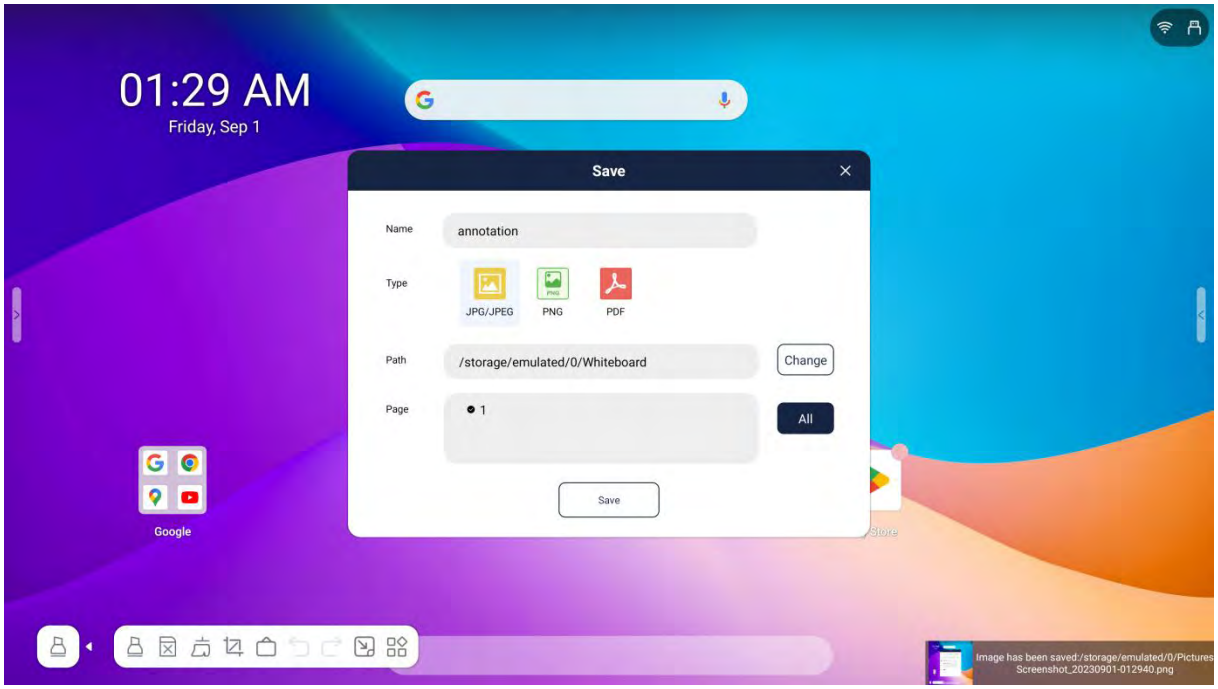
Minimizing the annotation to the background will not exit the annotation, and when you reopen the annotation, you can also re-edit the content of the annotation.

## （8）Annotation-More menu




### A. Save files

Same as the whiteboard.

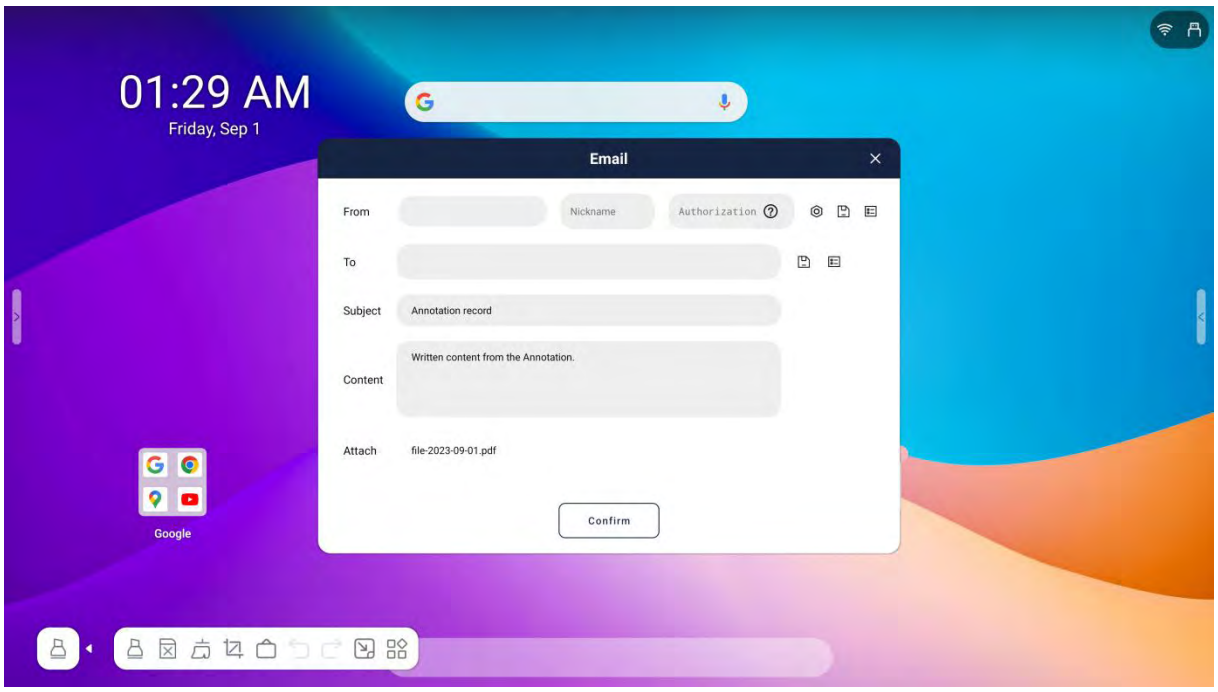



### B. Scan code to share

Same as whiteboard.

### C. Send Email

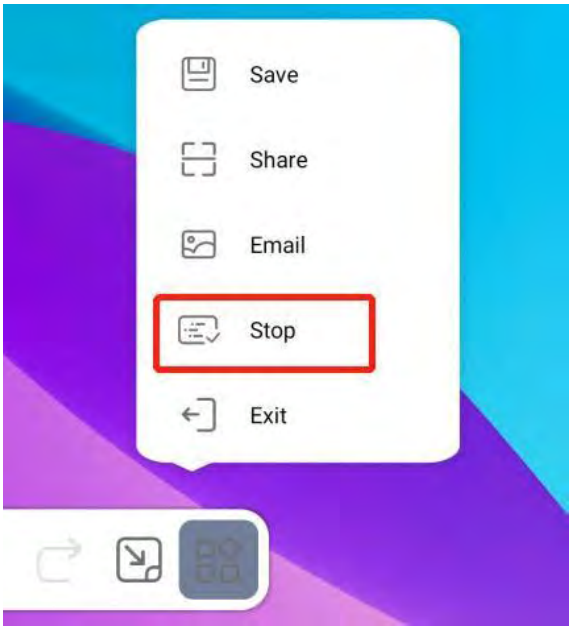
Same as whiteboard.



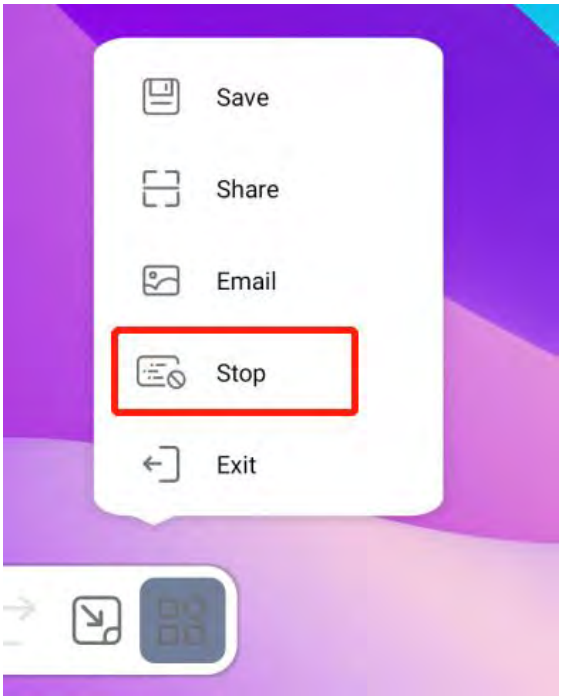

### D. Background stop

The default background is static, so it is more convenient for users to annotate the interface they need. However, when necessary, such as when a video is playing in the background, you can also watch the video and annotate the content at the same time.

- Static background icon：

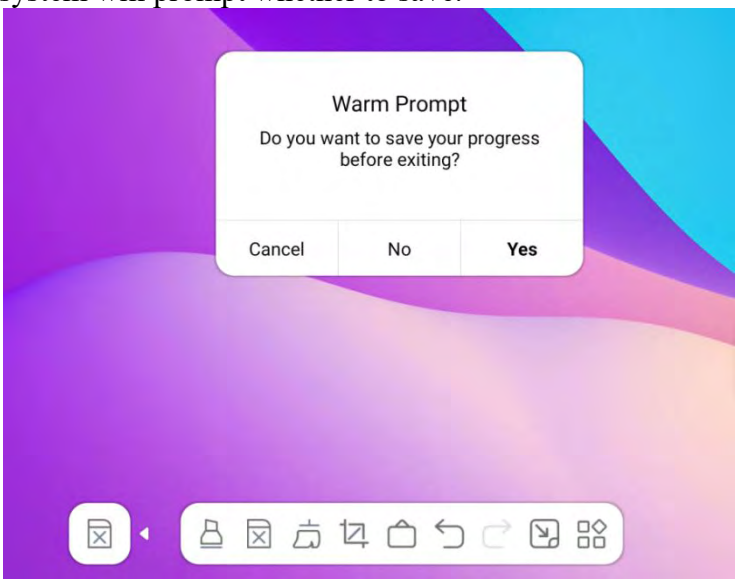


- Movement background icon:




**E. Exit the annotation**

Exit the annotation, the system will prompt whether to save.



FCC Warning

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 inte rference received, including interference that may cause undesired operation.

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interferenceto 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.

Radiation Exposure Statement

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.