

IQTouch

Interactive Flat Panel Display

TB1100 Pro Gen2

——User Manual——



 Returnstar Interactive Technology Group Co., Ltd.

Contents

1. Safety Instruction	3
2. Installation	5
2.1. Bearing capacity	5
2.2. OPS installation	8
3. Enable the device	9
4. Control panel	10
5. Interface	11
6. Remote control	12
7. Remote control area	13
7. Connecting and setting	14
7.1. External computer and touch connecting	14
7.2. AV connecting	15
7.3. Video-OUT	16
7.4. RS232	17
8. Home screen	19
9. Share via QR code	21
10. File	22
10.1. Open file	22
10.2. Save files	23
10.3. Whiteboard setting	23
10.4. About	25
11. File browsing	25
12. Input source	27
13. Custom note	28
14. More tools	30
14.1. Annotation tool	30
14.2. Fast file transfer	31
14.3. Recording	33
14.4. Stopwatch	34
14.5. Timer	35
14.6. PollKit (Voting tool)	35
14.7. Cropping tool	38
14.8. Camera	38
14.9. Calender	39
14.10. Split screen	40
15. Settings	41
15.1. Wireless connection and network	42
15.2. Personal	42
15.3. Input&Output	46
15.4. System	47
15.5. About	52
16. Trouble shooting	53

1. Safety Instruction

For your safety, please read the following instruction before you use the product. Serious injury or property loss may be caused by improper operations. Do not try to repair the product without guidance.

Placement

- Do not place the unit on an unstable cart, stand, tripod, racket, table, or shelf.
- Do not expose the unit to direct sunlight and other sources of heat.
- Do not handle liquids near or on the unit.
- Never spill liquid of any kind into the unit
- Do not put the unit near appliances that create magnetic fields.

Power Supply

- Check that the unit's operating voltage is identical with your local power supply.
- Please unplug power supply and aerial plug when the weather is thunder-storm or lightning.
- Please unplug power supply when there is nobody at home or didn't use over a long time.
- Please keep power cord from physical or mechanical damage.
- Please use exclusive power cord, don't modify or lengthen it.
- Please check and ensure AC source is connected with the ground.
- A sudden power failure may damage the panel.
- Frequent power on and off in a short time may cause faults.

LED Screen

- Never use any other tough or sharp object to replace the written pen.
- Unplug the power supply plug before cleaning.
- Clean the screen with a soft dustless and dry cloth.
- Never use water or the spray type detergent to clean the unit.
- For deep clean, contact an authorized service center.

- Please don't display the high brightness image on the screen for a long time.

Sight Distance

- The best distance between audience and screen is 5-7 times that of screen diagonal.
- The best watching angle between audience and screen is within 178 °

Temperature

- Do not place the unit near or over a radiator or a heater register.
- If your unit is suddenly moved from a cold to a warm place, unplug the power cord for at least.
- Two hours so that moisture that may have formed inside the unit can dry completely.
- Normal operating temperature is 0 ~ 40°C.

Humidity

- Do not expose machine in rain, damp or place near water.
- Ensure the indoor drying, cool.

Ventilation

- Keep the ventilation openings clear.
- Ensure that the unit has enough space for ventilation around: left, right and back >10cm, top > 20cm.

Earphone

- It will affect the hearing if you listen to noisy sound for a long time.
- Before using earphone, please turn down the volume in advance.

2. Installation

2.1. Bearing capacity

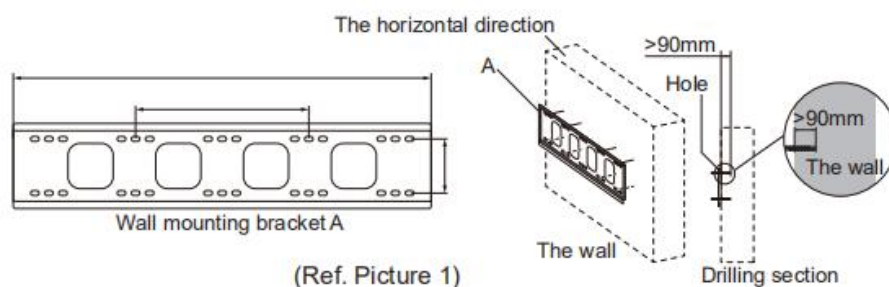
If the product is installed in a wall-mounted way, the bearing capacity of the surface for installation must be at least four times of the weight of the product. If the surface for installation is a wall or the ceiling of a building, the surface must be made of solid bricks, concrete or other materials with equal intensity. If the product is installed on a surface made of loose material such as an old brick wall, wood plank wall, solid brick wall, a metal or non-metal structure surface, or a surface with a thick decoration layer, take necessary consolidating measures to ensure that the product is stably installed.

Step1: Punching holes in the wall

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

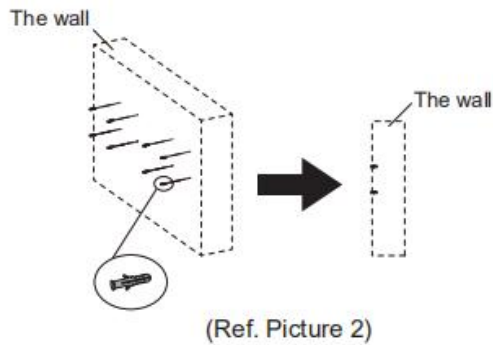
Note:

In order to ventilate and dissipate heat to ensure the normal operation of the device, please keep enough distance between the device and other objects. It is recommended that the top and bottom are more than 20cm away from the mounting surface, and the



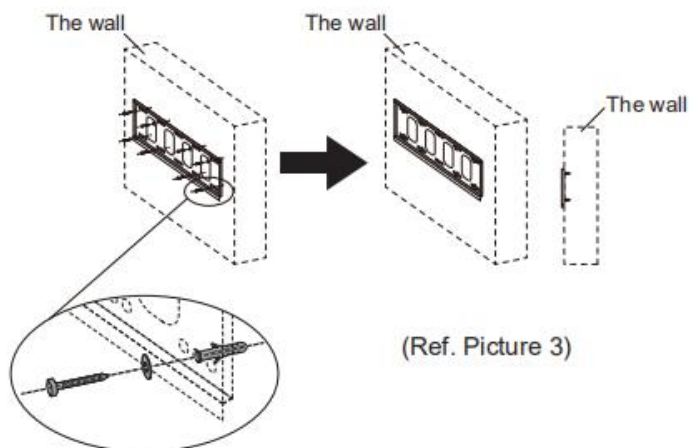
Step2: Expansion bolt installation

Press the expansion bolt into 8 holes. (Ref. Picture 2)



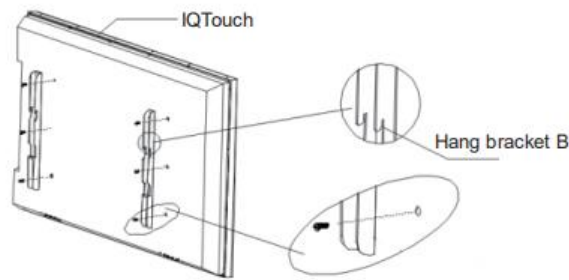
Step3: Wall mounting bracket A installation

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



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

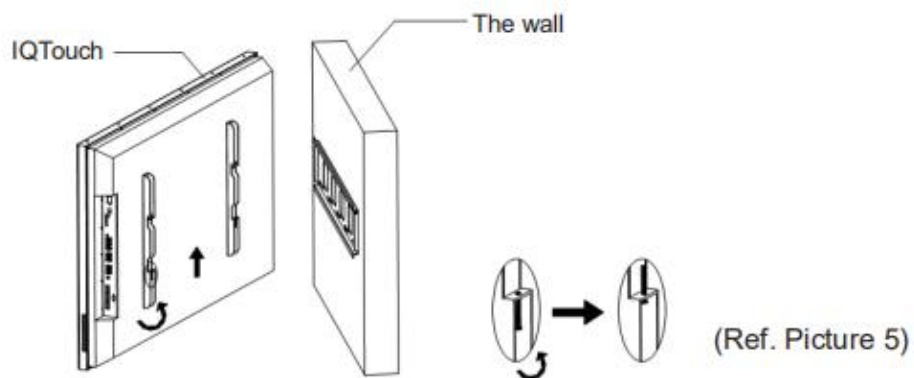
Use screws fix the hang bracket B at the back of IQTouch. Please check the direction of hang bracket B before installation. (Ref. Picture 4)



(Ref. Picture 4)

Step5: Hang IQTouch on the wall mounting bracket A

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



(Ref. Picture 5)

2.2. OPS installation

Note: The OPS does not support hot-plugging. Please insert the plug of the OPS after the interactive display panel is disconnected from the power.

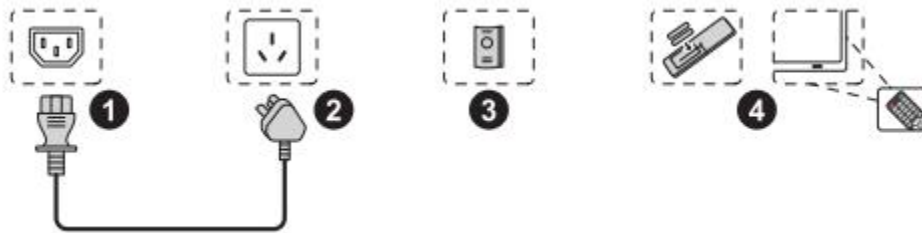
Install the OPS by the following steps:

- 1) Insert the OPS into the special slot on the rear of the interactive flat panel display.
- 2) Tighten the screws.
- 3) Confirm that the OPS is installed correctly.



Handle facing outward

3. Enable the device



- 1) Connect the power cord to the port at the back of the device.
- 2) Plug the power cord to the electrical socket.
- 3) If the power LED light is not turn red please turn on the rocker switch at the back of the device.
- 4) Press power button or put the battery in to remote control and use remote control to power on the device.

4. Control panel



Item	Icon	Function Description
1		Power button: On or standby mode
2		IR receiver:Receive infrared signals such as remote control
3		Light sensor: Automatically adjust screen brightness according to ambient light
4		USB Type C: Image, power, touch, audio and video transmission
5		HDMI port used to connect an external display device
6		Touch USB cable to realize the touch function of external device
7		USB 3.0 port (Andriod & PC)
8		USB 3.0 port (Andriod & PC)
9		NFC card reader. It is used for display access authorization.

5. Interface

Terminal Interface











Side Interface

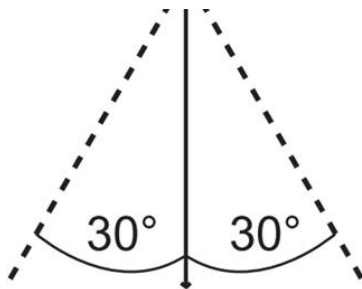


6. Remote control



Button	Function Description
	Power on/off
	Mute
	Setting
	Up/down/left/right button
OK	Confirm
	Control sound volume
	Open/close menu
	Return to previous step
	Turn off speaker

7. Remote control area

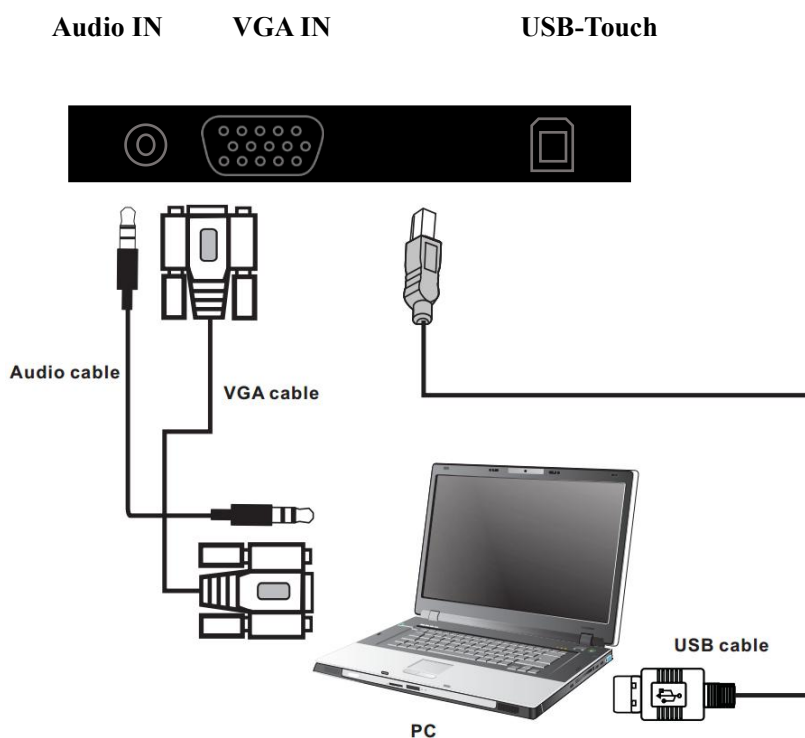



The effective receiving area is about 3 meters with 30° angle from vertical point to the left and right. And the effective receiving area is about 5 meters from the front of device. Note that the remote control signal receiver locates at the position of power indicator.

7. Connecting and setting

For safety, please do not connect any power supply before the external devices setup.

7.1. External computer and touch connecting

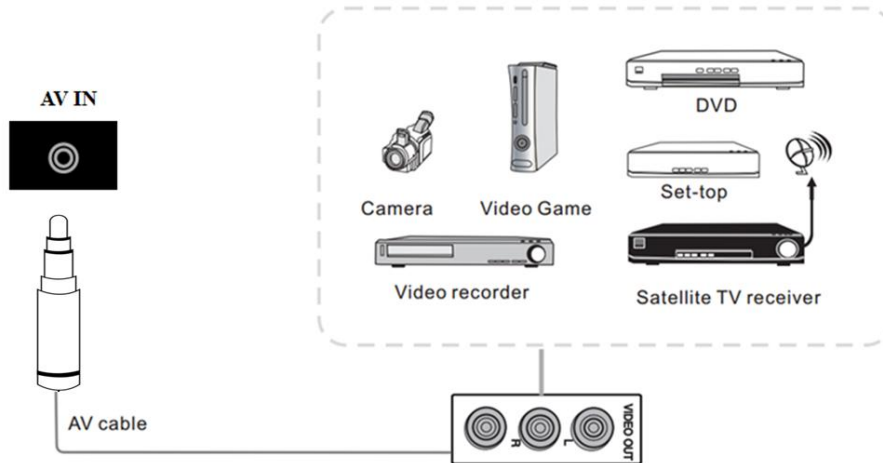



- 1) Connect a VGA cable (15 pin) between the VGA and external PC. Connect an earphone cable between the PC and audio at the same time.
- 2) Connect a USB cable between the external PC and USB terminal.
- 3) Plug the POWER cord and switch it on from the rear panel.
- 4) Start up the external computer.
- 5) Press  to turn on the panel.
- 6) Select Signal source to VGA source according to the one you connected.

Note: The panel can connect with the external PC via HDMI.

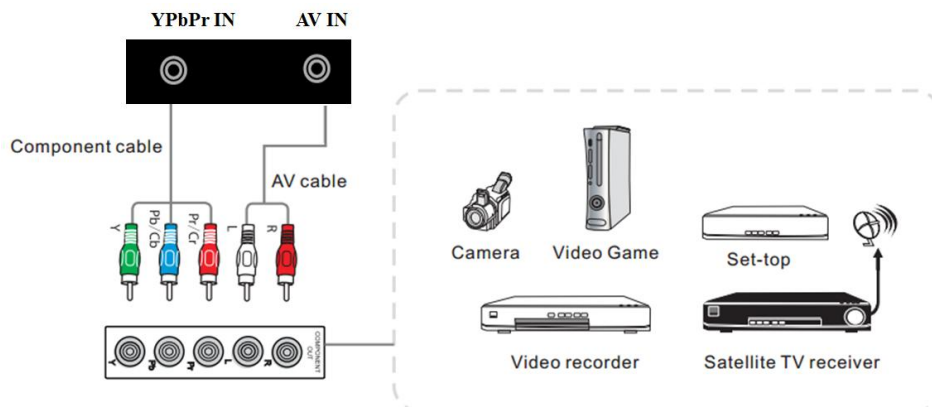
7.2. AV connecting


● AV IN



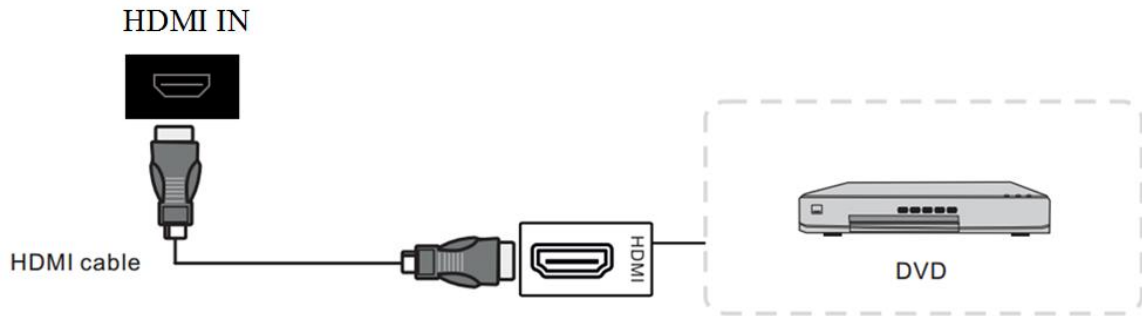
- 1) Connect an AV cable with the device with AV-OUT (Yellow is Video, Red is Audio-R, White is Audio-L).
- 2) Plug the POWER cord and switch it on from the rear panel.
- 3) Press  to turn on the panel.
- 4) Select Signal source to AV IN source.


● YPbPr



- 1) Connect a YPbPr cable with the device with YPbPr.
- 2) Plug the POWER cord and switch it on from the rear panel.
- 3) Press  to turn on the panel.
- 4) Select Signal source to YPbPr source.

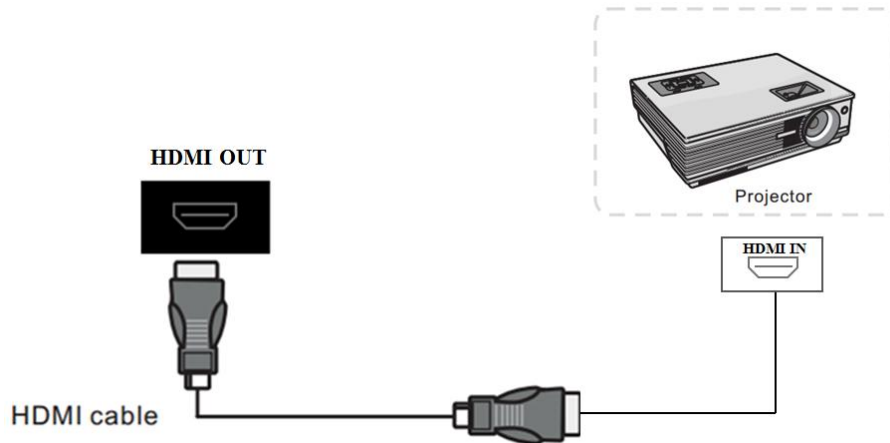
- **Front HDMI/ HDMI 1/ HDMI 2**




- 1) Connect a HDMI cable with the device with HDMI.
- 2) Plug the POWER cord and switch it on from the rear panel.
- 3) Press  to turn on the panel.
- 4) Select Signal source to HDMI source according to the one you connected.

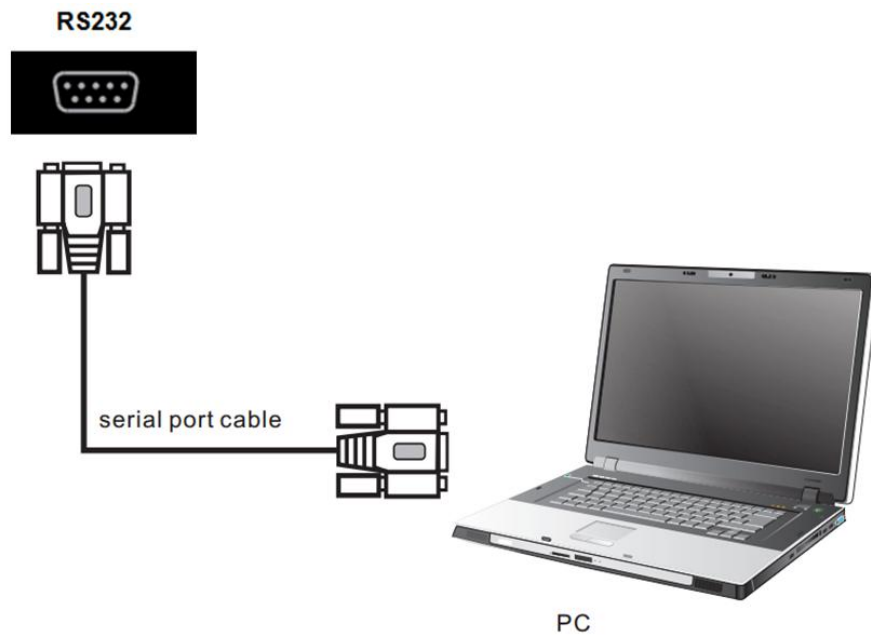
7.3. Video-OUT

- **HDMI-out**



- 1) Connect a HDMI cable with the device with HDMI.
- 2) Plug the POWER cord and switch it on from the rear panel.
- 3) Press  to turn on the panel.

7.4. RS232



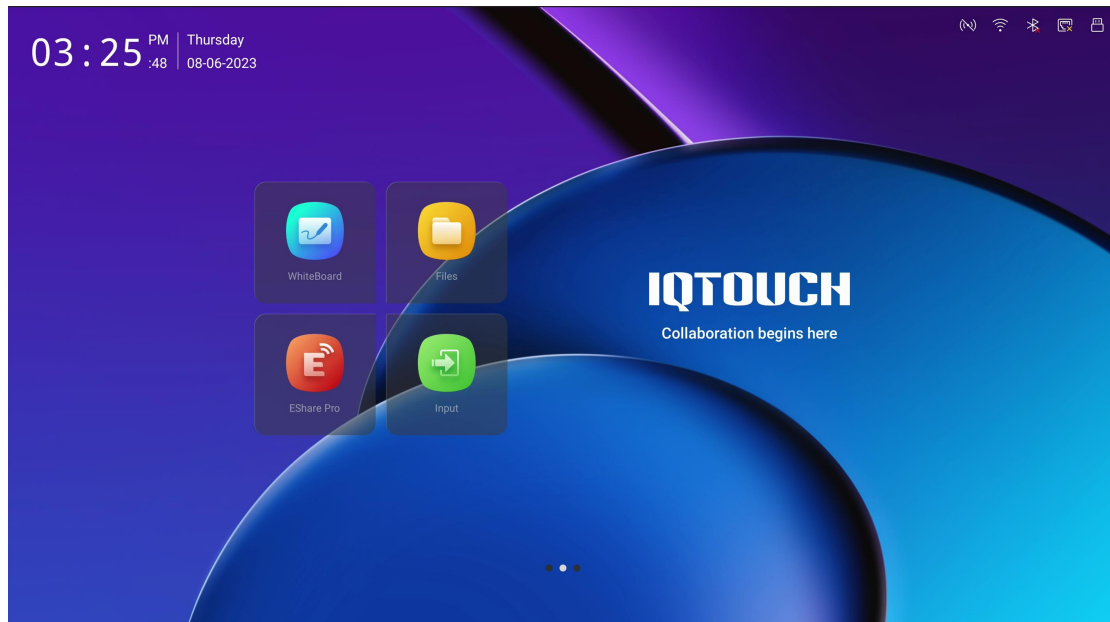
- 1) Connect a serial port cable with the device.
- 2) Plug the POWER cord and switch it on from the rear panel.
- 3) After connecting the central control system and unit, you can use some of the function such as power on/off or adjust the volume etc.

RS232 code list

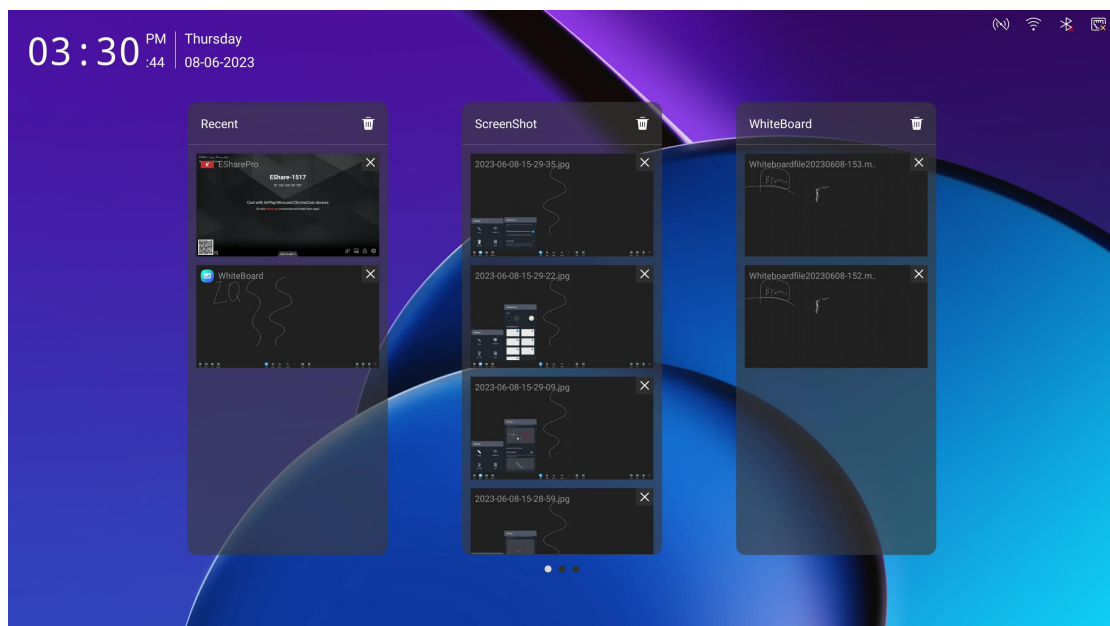
RS232 Code for Android Firmware	
16-byte command, baud rate 9600	
Start code 99, client code 23, function ID code, device ID code (generally 01 without special instructions), check code + function ID code = FF, end code AA	
Function	Required Commands(Hex)
Power on	AA BB CC 01 00 00 01 DD EE FF
Power off	AA BB CC 01 01 00 02 DD EE FF
Android	AA BB CC 02 0A 00 0C DD EE FF
VGA1	AA BB CC 02 03 00 05 DD EE FF
HDMI1	AA BB CC 02 06 00 08 DD EE FF
HDMI2	AA BB CC 02 07 00 09 DD EE FF
HDMI3	AA BB CC 02 05 00 07 DD EE FF
DP	AA BB CC 02 11 00 13 DD EE FF

00—100	AA BB CC 03 00 xx ** DD EE FF Note: xx = volume level value, for example, if the volume is 30 (decimal) = 1E (hexadecimal), XX = 1E; ** = 03+00+1E (hexadecimal) = 21
Mute	AA BB CC 03 01 00 04 DD EE FF
Unmute	AA BB CC 03 01 01 05 DD EE FF
ATV(00-100)	AA BB CC 05 00 XX ** DD EE FF Note: XX represents the channel to be selected, ** value represents XX+05, and the calculated result is represented in hexadecimal.
ON	AA BB CC 09 01 00 0A DD EE FF
OFF	AA BB CC 09 00 00 09 DD EE FF
WIN	AA BB CC 07 0B 00 12 DD EE FF
Space	AA BB CC 07 46 00 4D DD EE FF
Alt+Tab	AA BB CC 07 1D 00 24 DD EE FF
Alt+F4	AA BB CC 07 1F 00 26 DD EE FF
NUM_1	AA BB CC 07 00 00 07 DD EE FF
NUM_2	AA BB CC 07 10 00 17 DD EE FF
NUM_3	AA BB CC 07 11 00 18 DD EE FF
NUM_4	AA BB CC 07 13 00 1A DD EE FF
NUM_5	AA BB CC 07 14 00 1B DD EE FF
NUM_6	AA BB CC 07 15 00 1C DD EE FF
NUM_7	AA BB CC 07 17 00 1E DD EE FF
NUM_8	AA BB CC 07 18 00 1F DD EE FF
NUM_9	AA BB CC 07 19 00 20 DD EE FF
NUM_0	AA BB CC 07 1B 00 22 DD EE FF
Display	AA BB CC 07 1C 00 23 DD EE FF
Input	AA BB CC 07 07 00 0E DD EE FF
Home	AA BB CC 07 48 00 4F DD EE FF
Menu	AA BB CC 07 0D 00 14 DD EE FF
Delete	AA BB CC 07 40 00 47 DD EE FF
Energy	AA BB CC 07 4E 00 55 DD EE FF
UP	AA BB CC 07 47 00 4E DD EE FF

8. Home screen



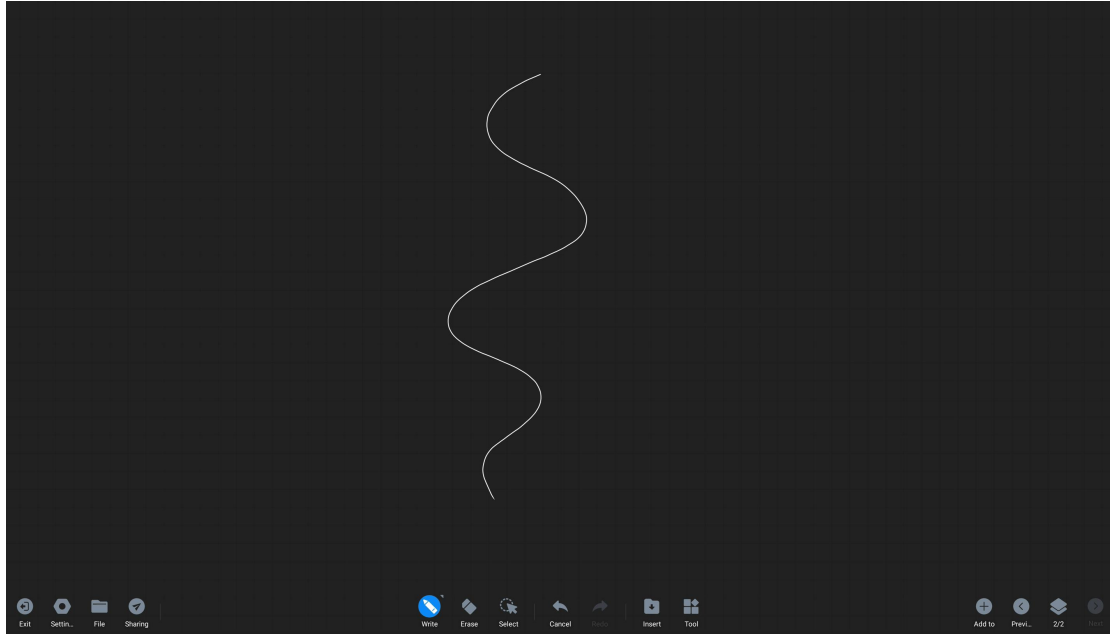
- Status display: Hotspot, Wired network, USB, Wi-Fi.
- Home Screen: Whiteboard, Files, Input, custom note.
- Recent Swipe right to go to recent pages for recent apps used, recent screenshots, and recent whiteboard.



Whiteboard is a multi-functional writing application that helps users communicate

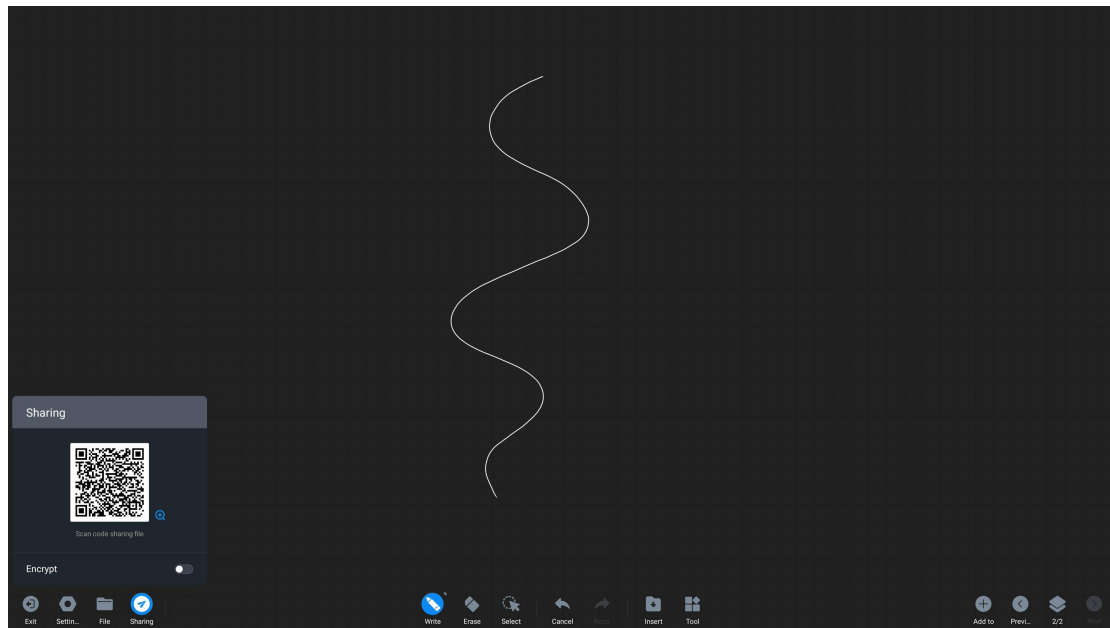
efficiently. It brings a relaxed experience and improves team efficiency. You can tap the Whiteboard icon on the start screen. After the meeting, you can scan the QR code to take away the content on the whiteboard.

- On the home screen, tap WhiteBoard icon.



9. Share via QR code

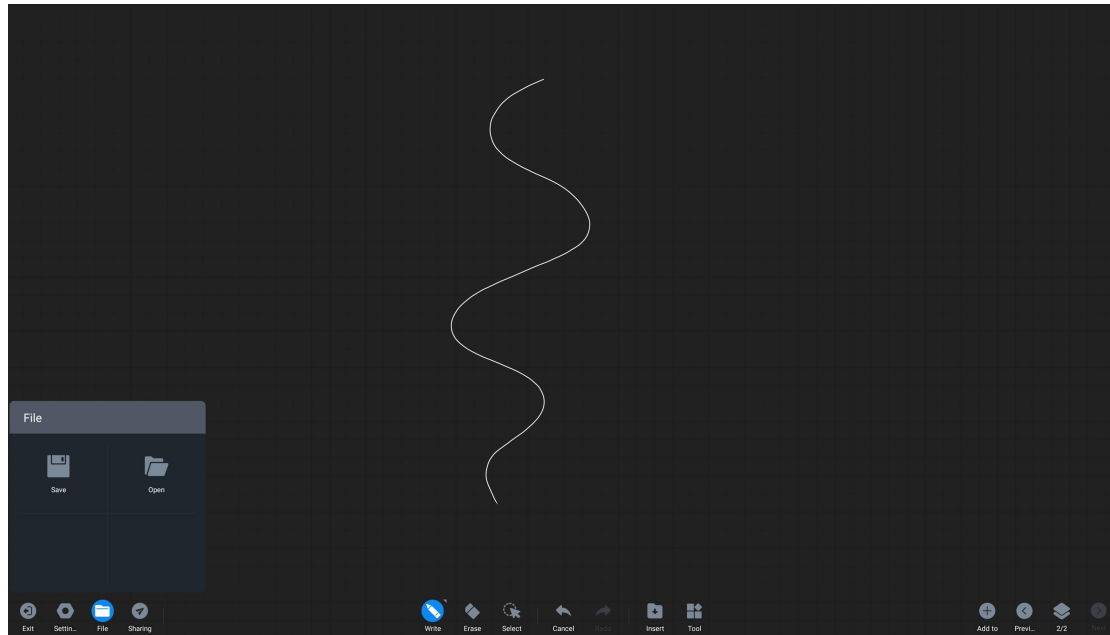
- At the bottom tool bar on the left, tap Sharing. A QR code window will pop up.
- Follow the on-screen instructions, and use your smartphone to scan the QR code to access the File URL.
- Save the file to your smartphone.



10. File

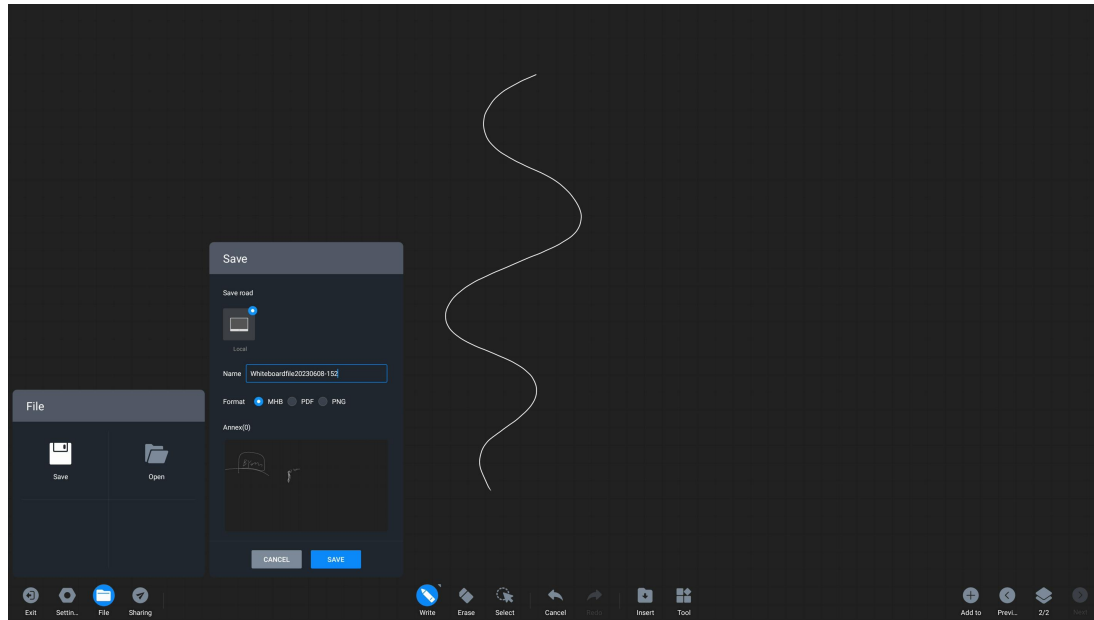
10.1. Open file

- At the bottom toolbar on the left, tap File. A File window will pop up.
- Follow the on-screen instructions, and open the file folder to select the whiteboard file you need. (With MHB file format).



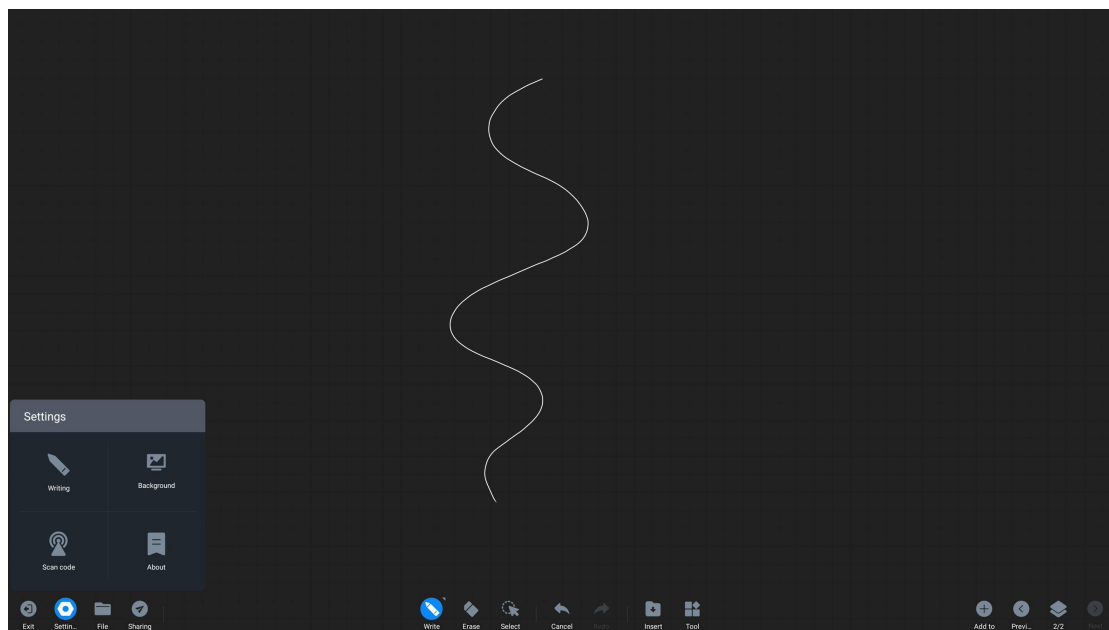
10.2. Save files

- At the bottom tool bar on the left, tap File. A File window will pop up.
- Follow the on-screen instructions. Save the whiteboard file locally or to a USB drive.



10.3. Whiteboard setting

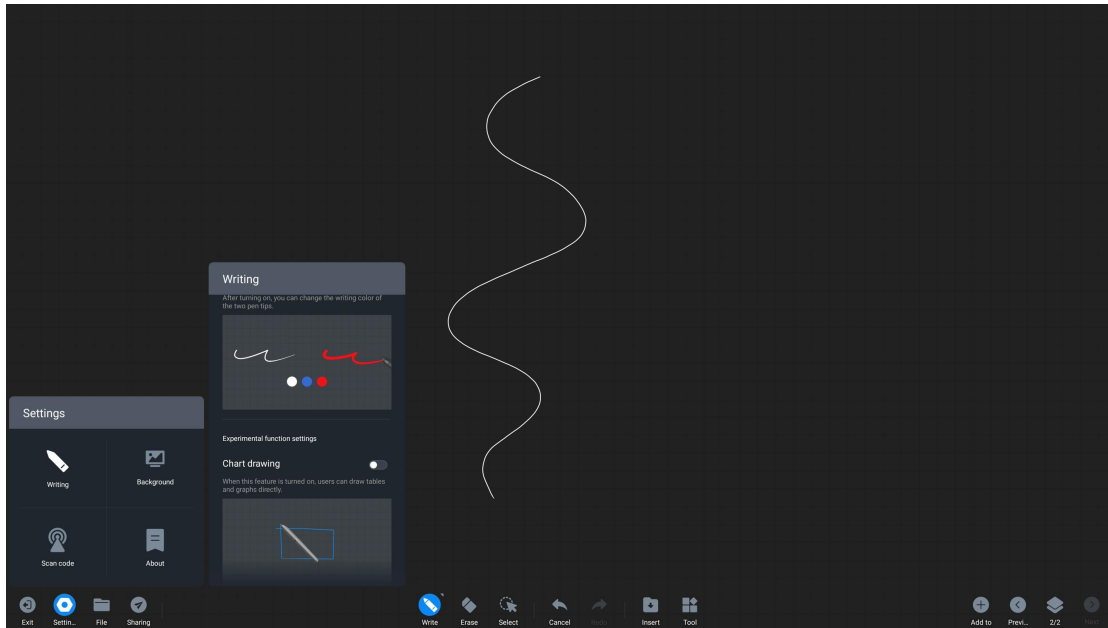
At the bottom toolbar on the left, tap **Setting**. A Setting window will pop up.



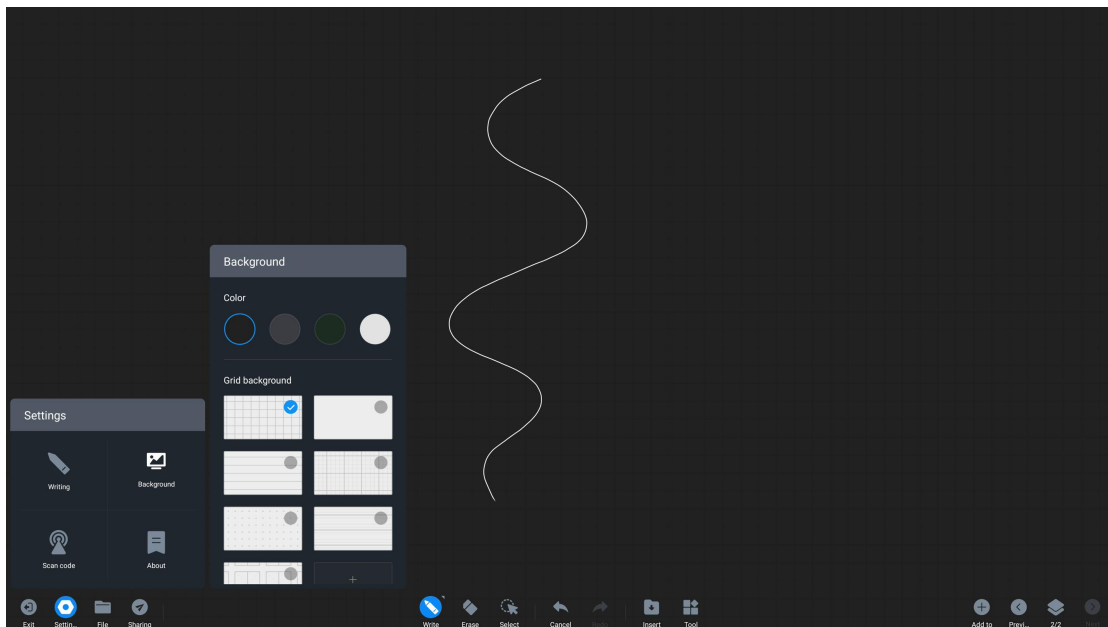
- Writing: Tap Writing to enable or disable such features as pen-tip writing, chart

drawing, and dual-color pen.

- **Multilayer Writing:** Enable it to allow multiple people to write on the whiteboard at the same time.
- **Chart Drawing:** Enable the automatic graphic recognition feature. It is turned off by default, and the default option will be restored after restarting.
- **Dual color stylus writing:** enable it to define pen-tip writing color and finger-tip writing color.



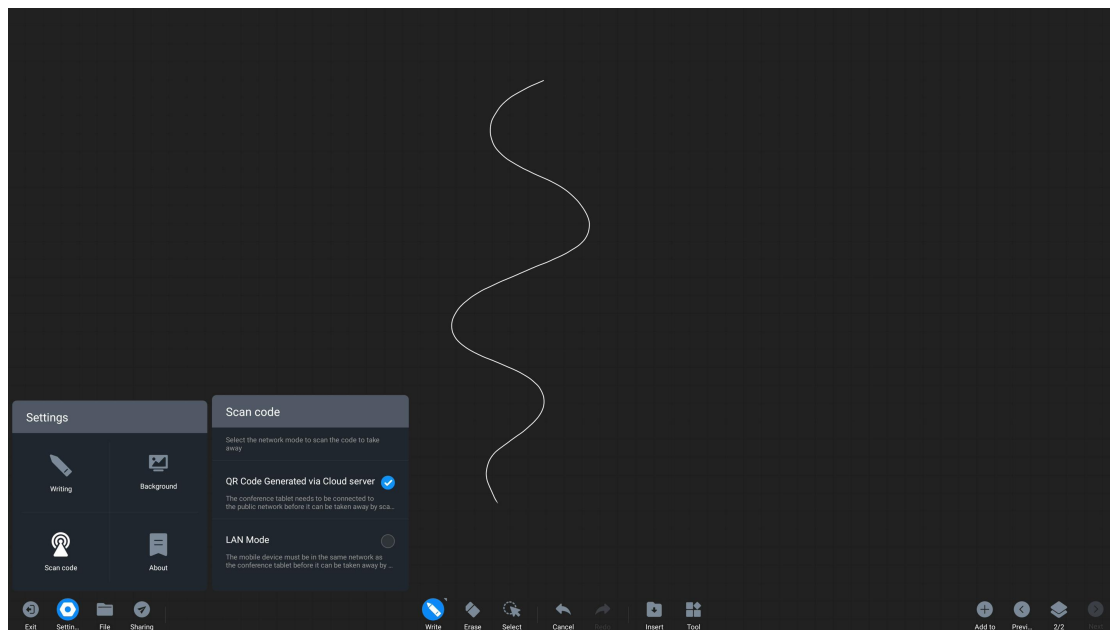
- **Background:** Tap Background to select the writing background.



- **Scan code:** Tap Scan code to select QR code sharing mode.
- **QR Code Generated via Cloud server:** Smartphones and tablets must be connected to the internet before you can scan the QR code to take away the -

white board contents.


- LAN Mode: Smartphones and tablets must be connected to the Local network before you can scan the QR code to take away the whiteboard contents.

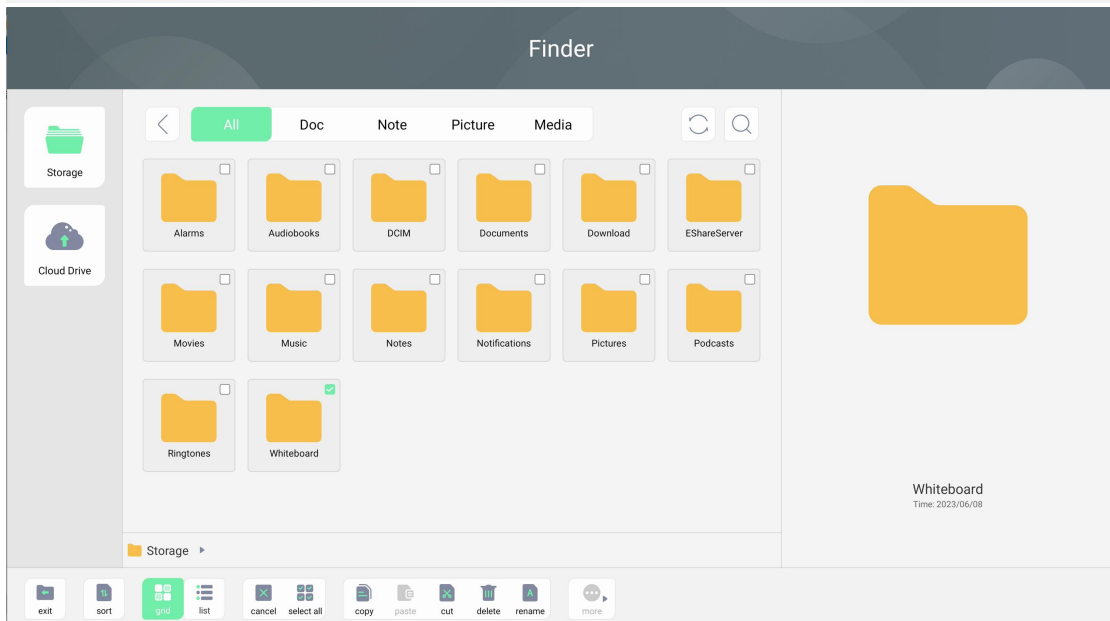
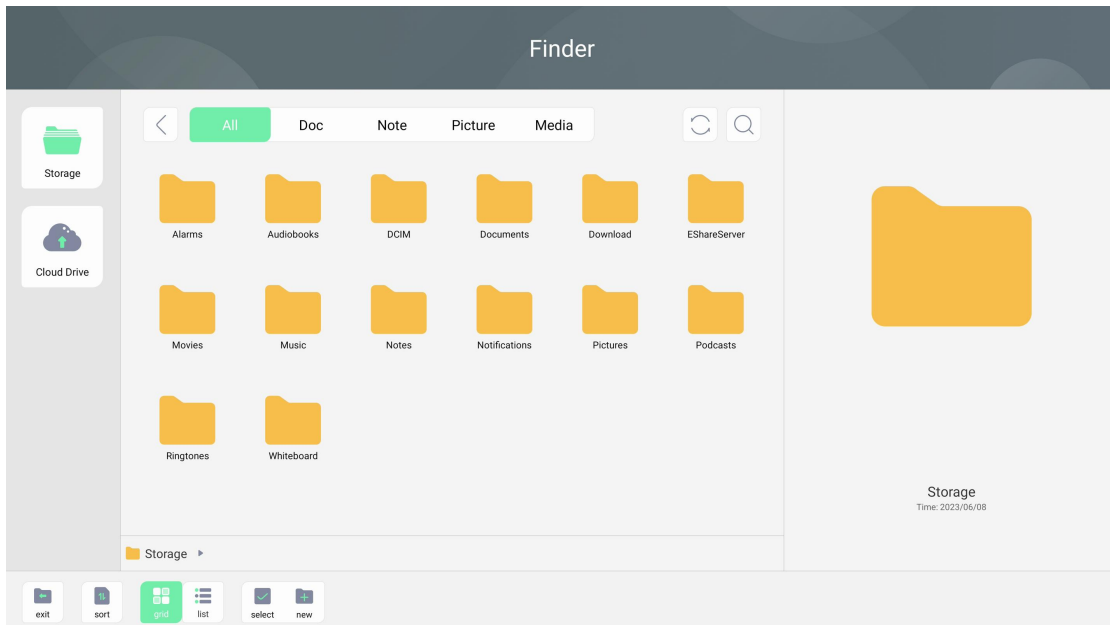


10.4. About

- Check the current software version.
- Check the software license agreement.
- Check for software updates.

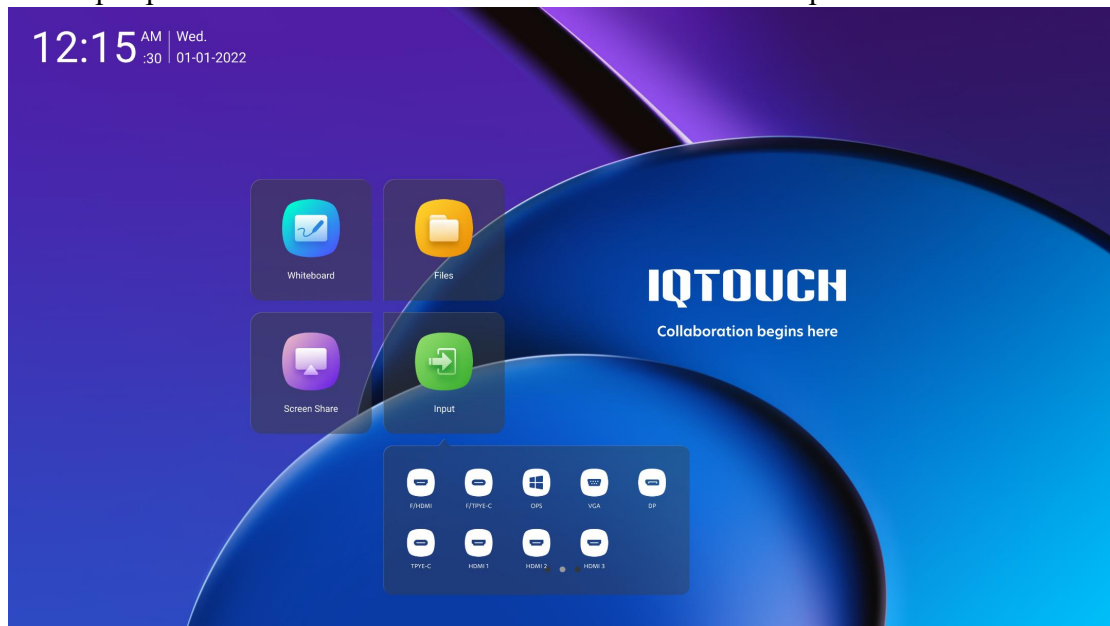
11. File browsing

- File category: Doc, Note, Picture, and Media
- Refresh: Tap Refresh  to refresh the current screen for search if needed.
- File Operation: select files, select all the files, create files, copy, cut, delete, rename files.
- Sort: tap Sort to sort the file by name, type, size, and time.
- Check file: check file by list or grid.



12. Input source

- Tap Input on the home screen to check the current valid input sources.



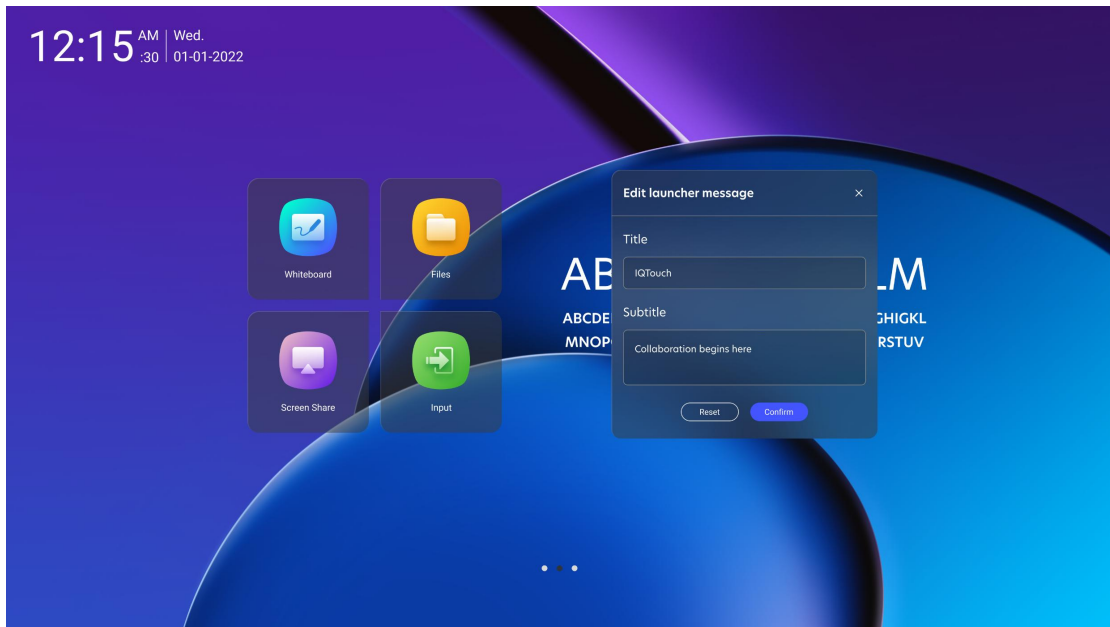
- Tap any input source to switch to the input source you want.
- Long tap any input source to edit the input source name if needed.

13. Custom note

- Long press the default IQ note to edit the note.



- A pop-out window will appear where you can enter 13 characters for the title and 65 characters maximum.



12:15 AM | Wed.
:30 | 01-01-2022



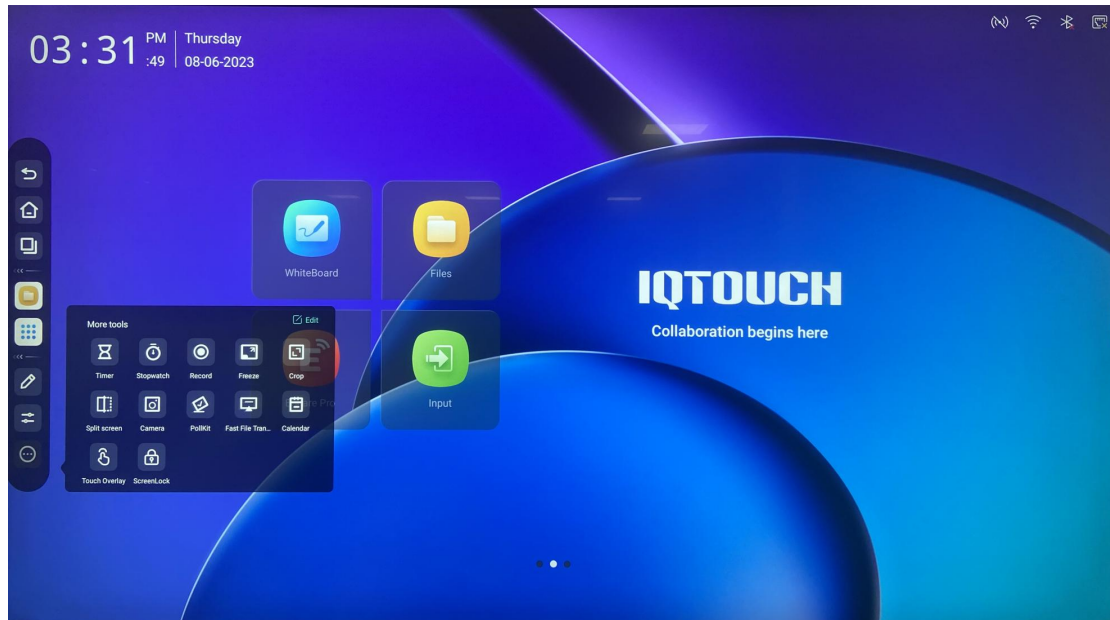
ABCDEFGHIJKLM

ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKL
MNOPQRSTUVWXYZABCDEFGHIJKLMNOPQRSTU



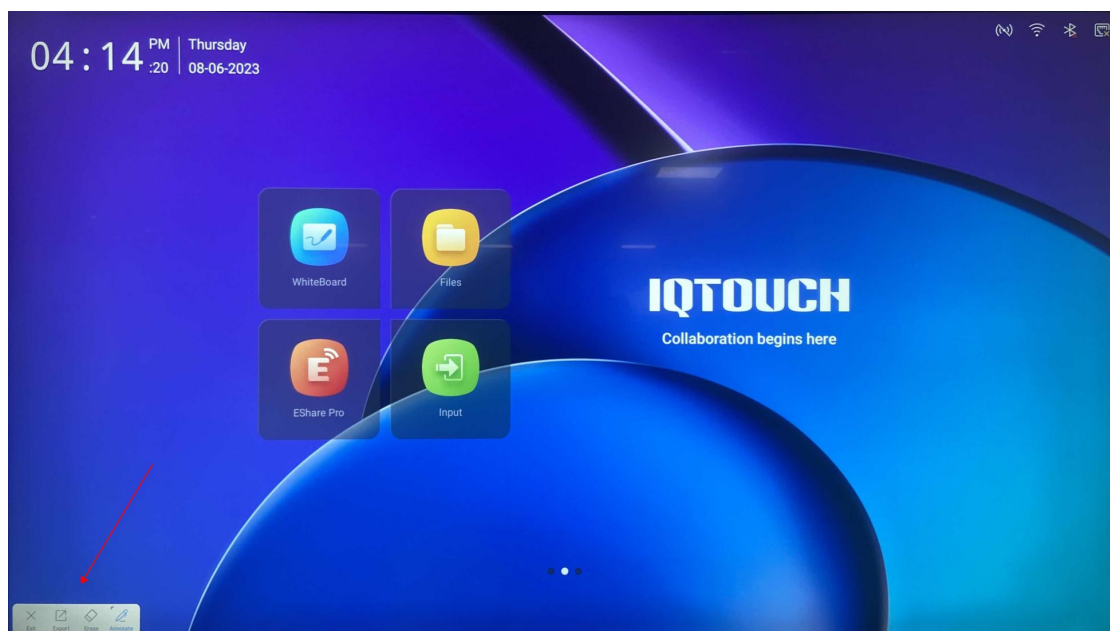
14. More tools

You can move more app tools to the home screen as a shortcut to features such as File Transfer, PollKit(vote), Record, Timer, Crop and Camera, and so on.



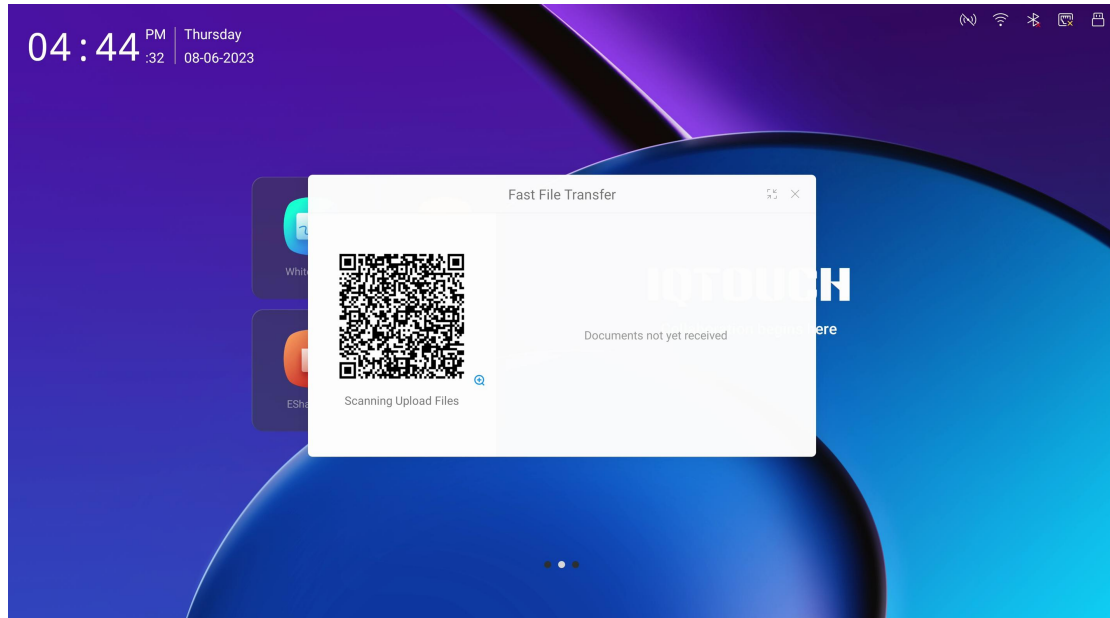
14.1. Annotation tool

- Tap > on the left side of the home screen. A functional menu will appear. Tap Annotation to allow you to make annotations on the current screen.

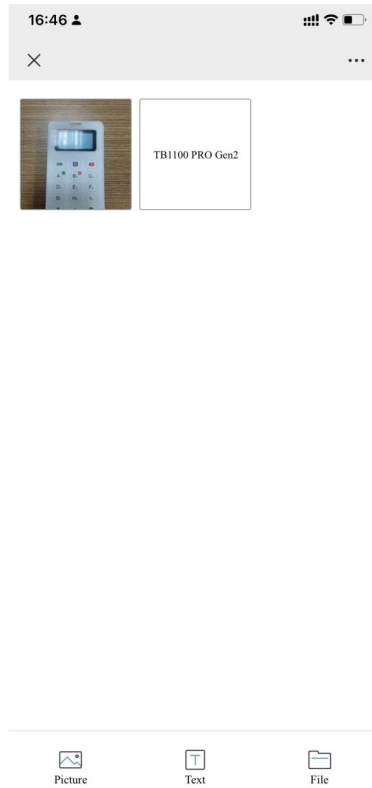


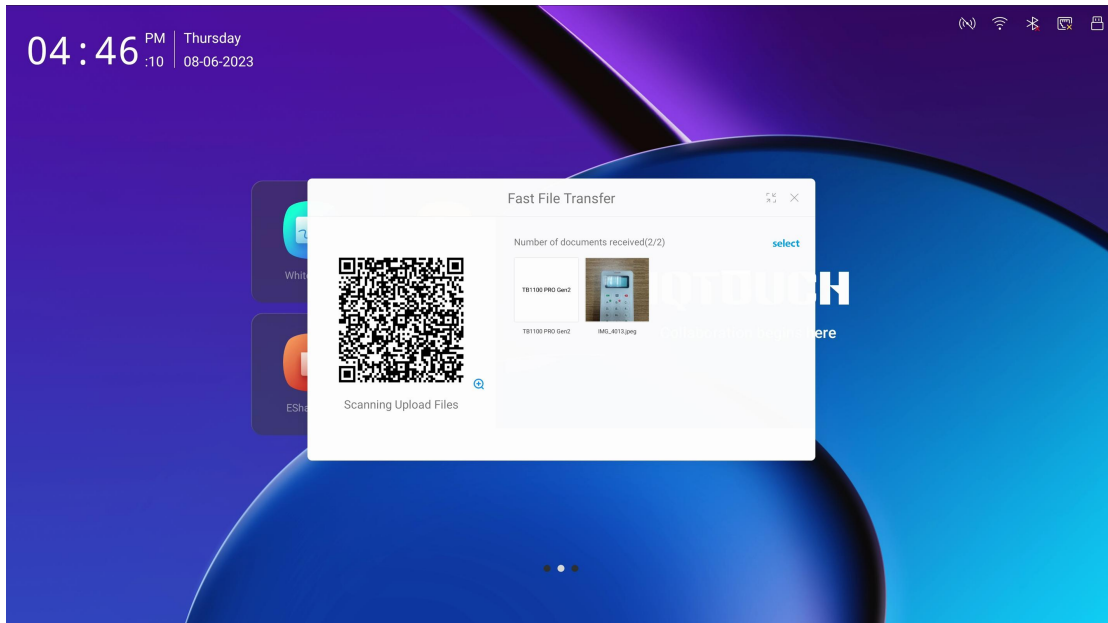
14.2. Fast file transfer

- Tap More, then a pop-up window will appear, then select Fast File Transfer. And a QR code will appear. Scan the QR code to upload the file.

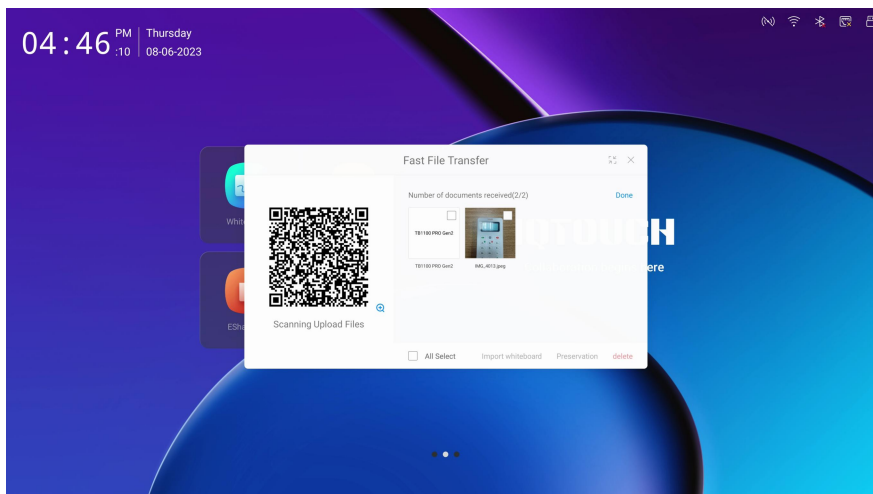


- After scanning the code, you can select file type: picture, text, and document.



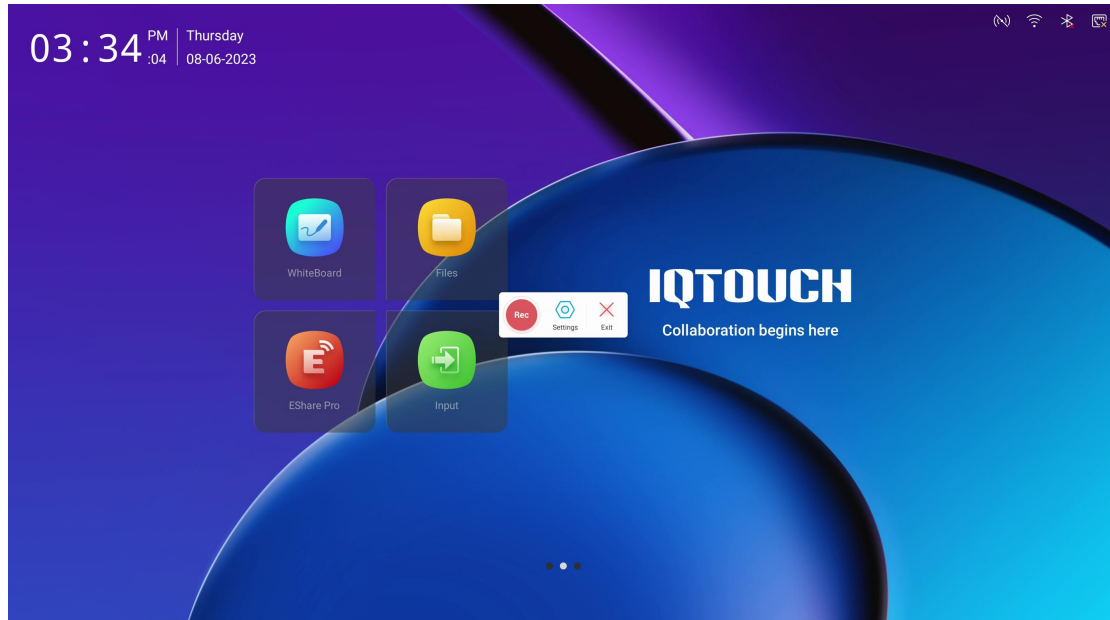


- After the file you transferred appeared on the screen, tap the file. A task bar will appear. You can open the file, insert it into the whiteboard, save it, and delete it if needed.

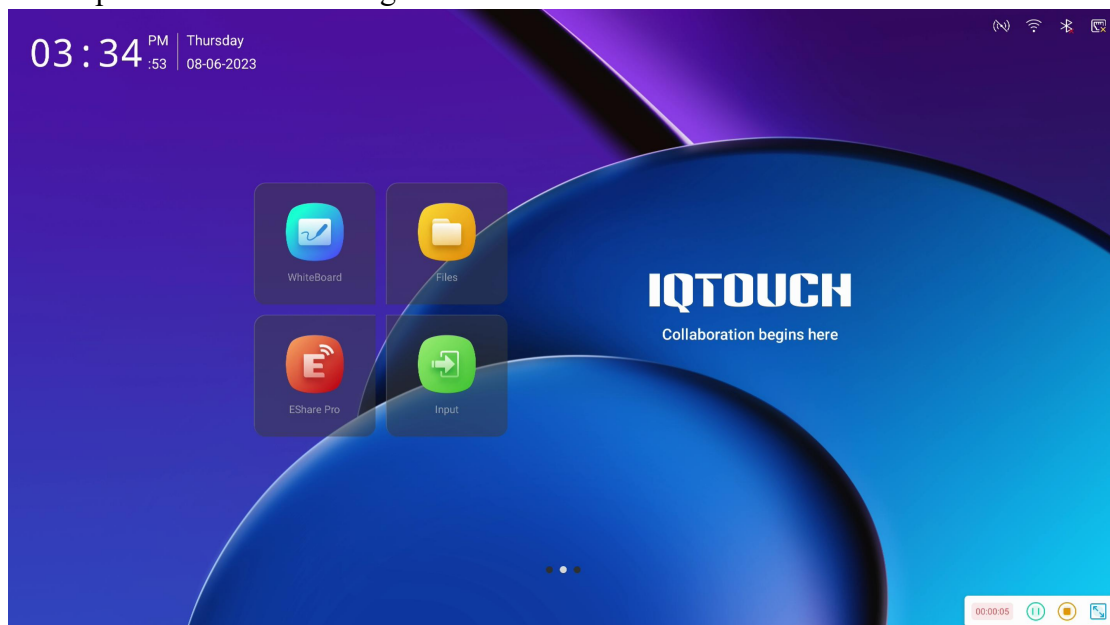


14.3. Recording

- Tap More Icon > Record

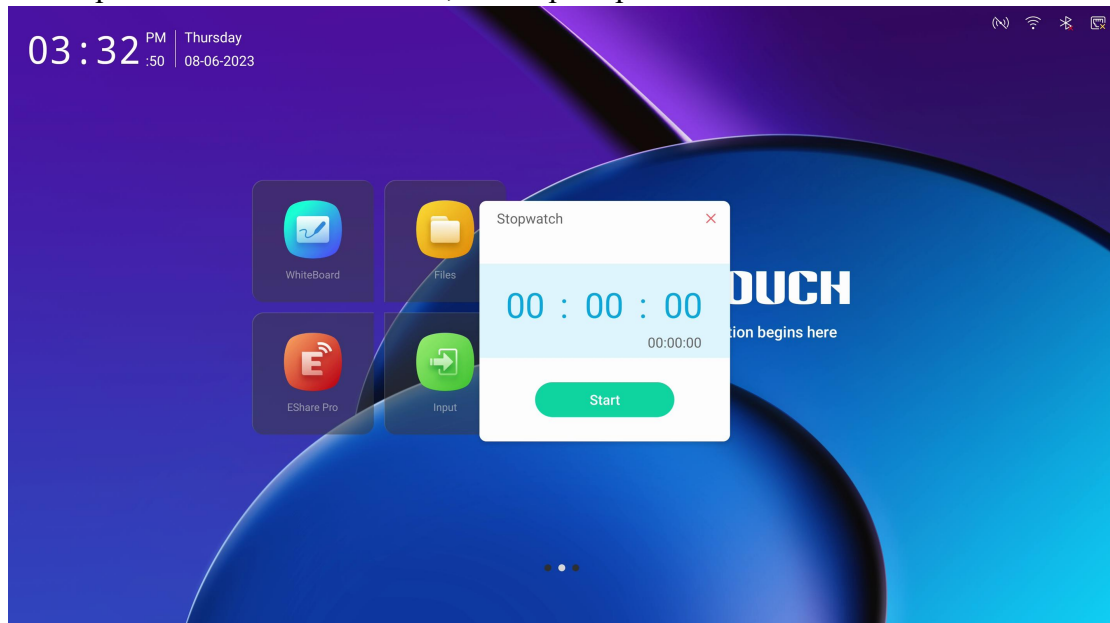


- Tap Rec to start recording.

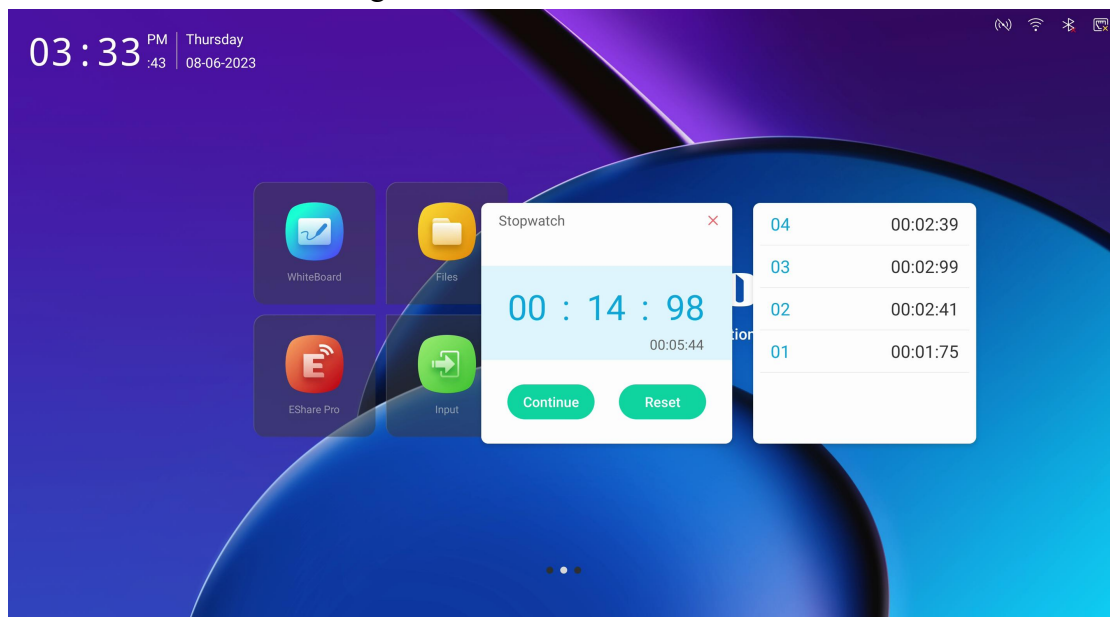


14.4. Stopwatch

- Tap > on the left of the screen, then tap Stopwatch to enable it.

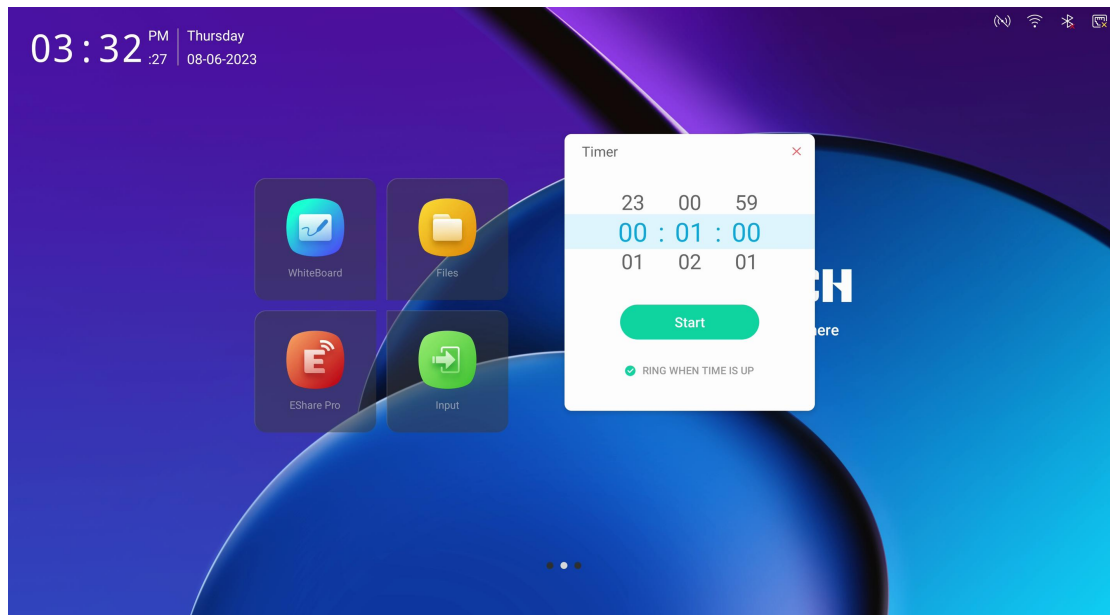


- Tap Start, then you can tap Pause to stop timing or tap Lap to set and record the lap. After you tap Pause, you can tap Continue to continue the timing or tap Rreset to reset the timing if needed.



14.5. Timer

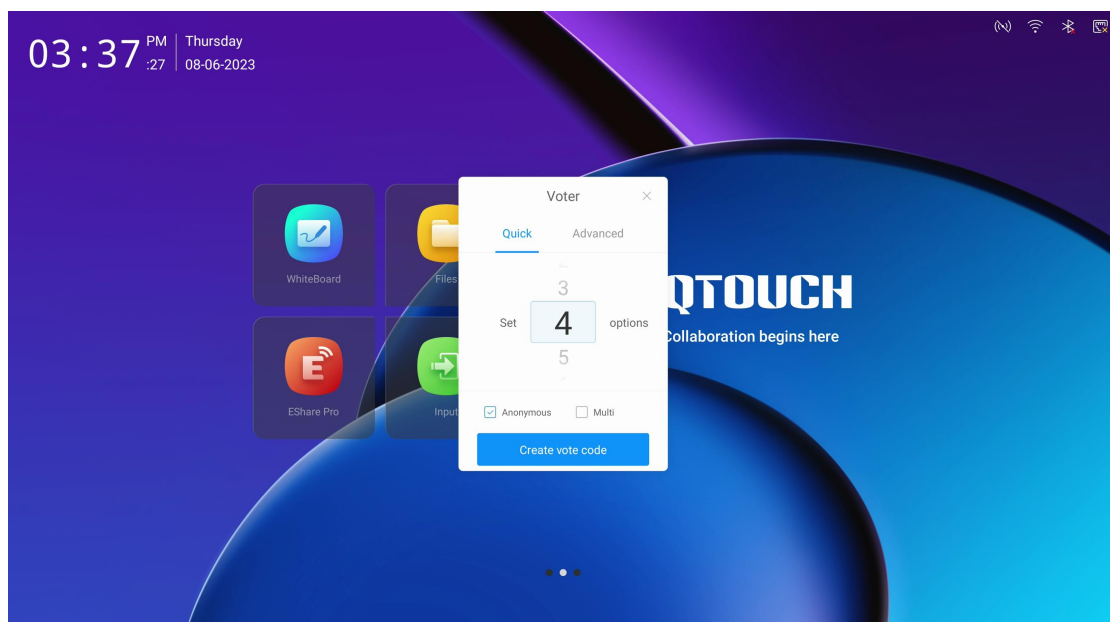
- Tap Start and select the start point for counting-down.



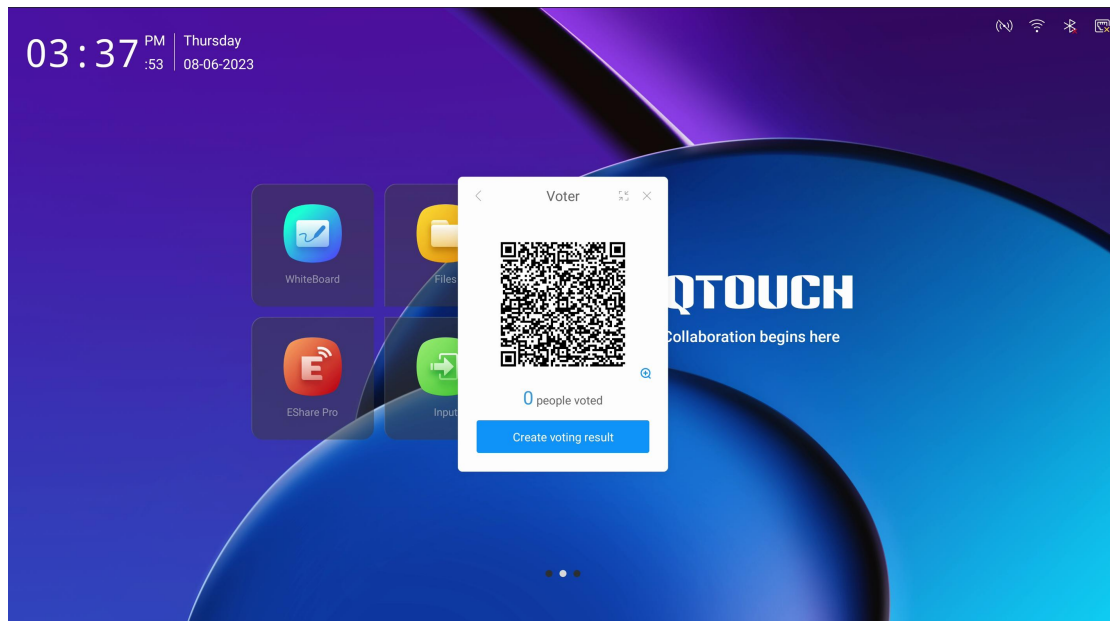
- Tick RING WHEN TIME IS UP if you want a ring to go off as a reminder when the time is up.

14.6. PollKit (Voting tool)

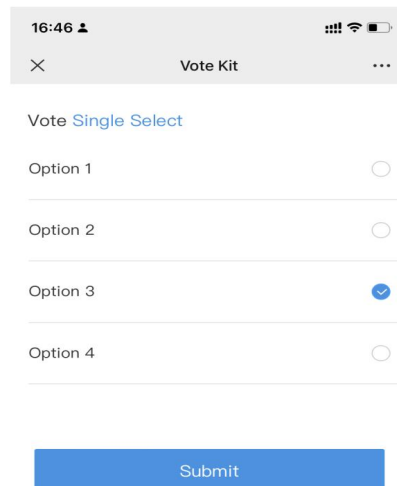
- Tap More > PollKit to enable the voting tool.



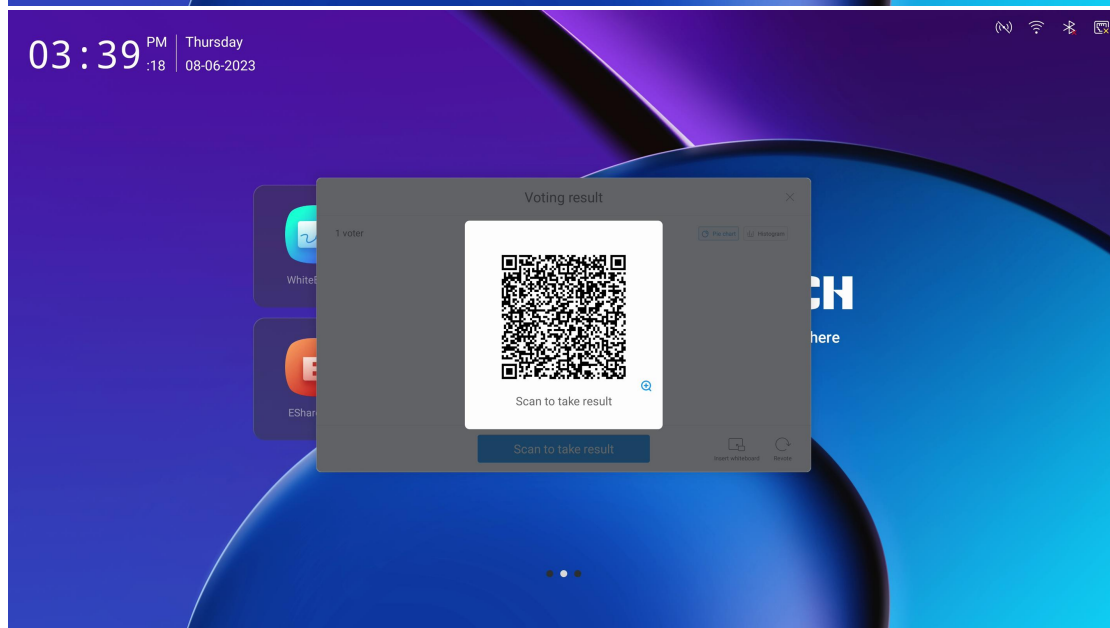
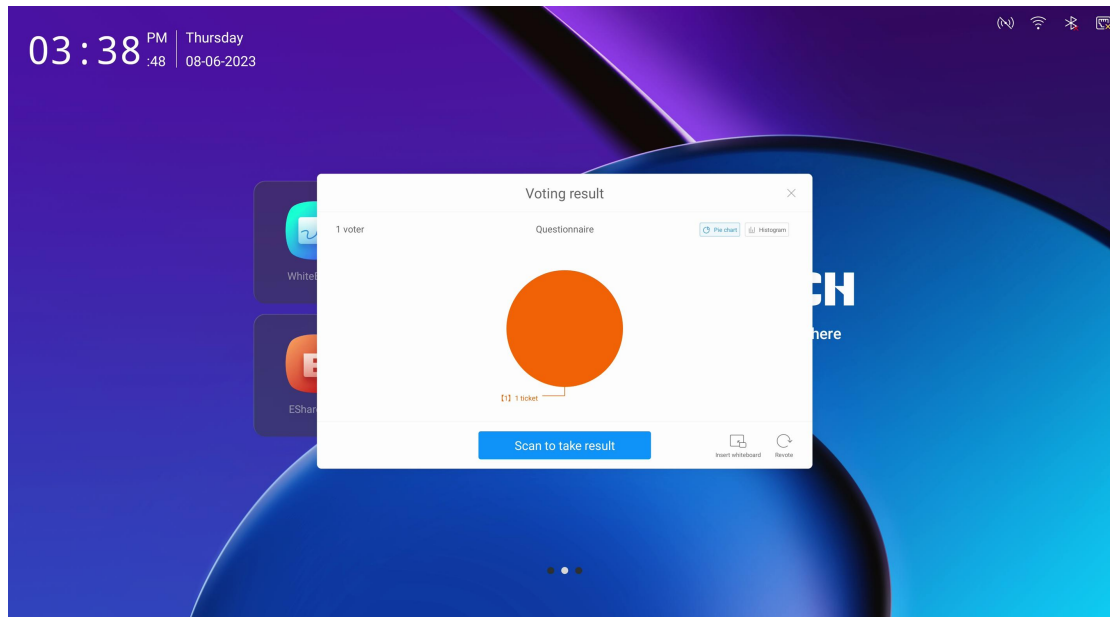
- Tap Create vote code to generate a QR code with the number of voting options you defined, then scan the QR code and select the option.



- Tap Anonymous if you want to perform anonymous voting.
- Tap Multi for multi-choice selection.
- Tap Advanced, scan the QR code to edit the voting choices, and tap Submit, then tap Create vote code to generate a QR code that voting participants can scan to start selecting the choice in the questionnaire.

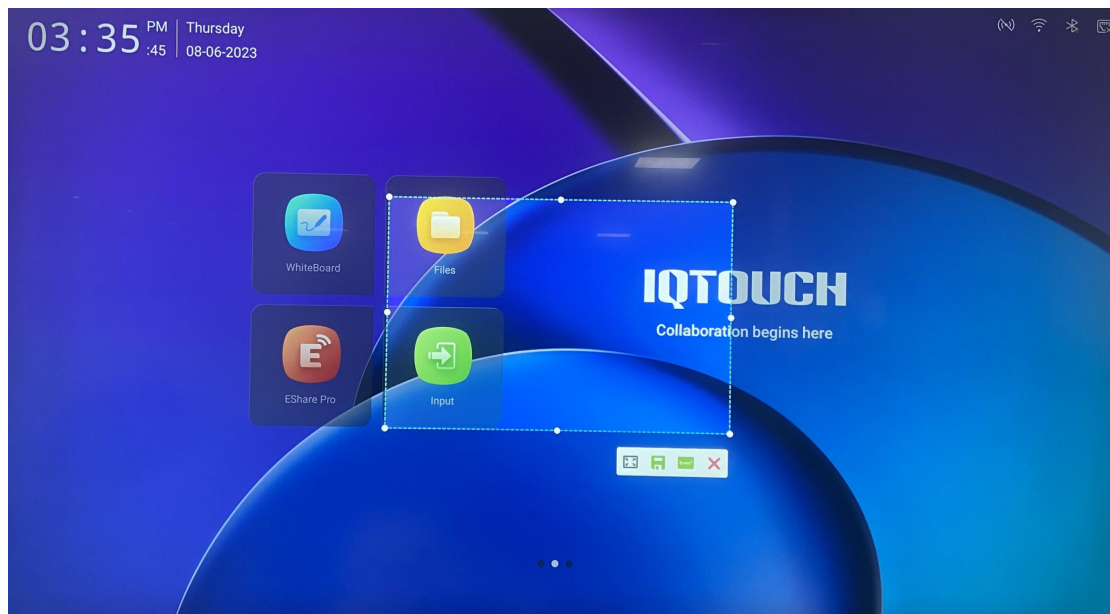


- Voting results can be displayed in the pie chart or histogram. You can insert the voting result into the whiteboard, or take away the voting result by scanning the QR code.



14.7. Cropping tool

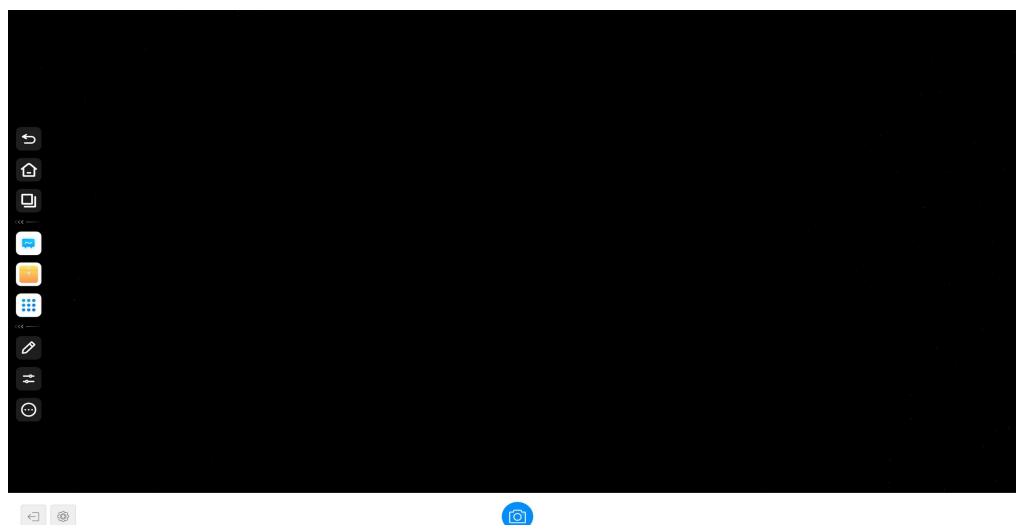
- Tap More icon > Crop
- You can adjust the cropping area, or you can select full screen to crop the entire screen.
- Tap $E=mc^2$ if you want to insert the cropped pictures into the whiteboard.
- Tap the Save icon to save the cropped picture to the local file.



14.8. Camera

The camera has three modes: general mode, face mode and voice-tracking mode.

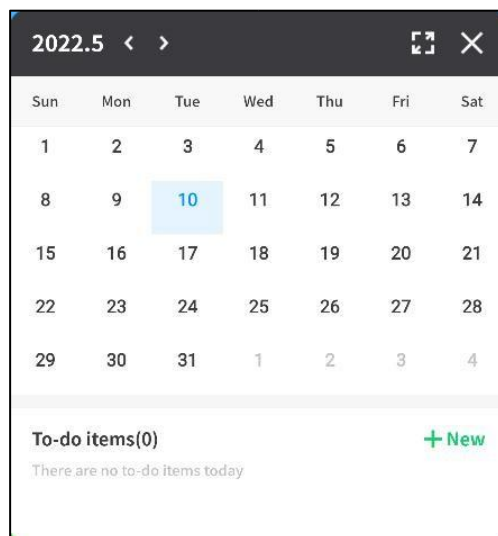
- Tap More > Camera to enable the camera, then tap setting icon on the bottom left corner if want to select lens direction: Normal or Mirror.



- General mode: the camera will give a panoramic view. You use the 👉 gesture in front of the camera to enable the mode.
- Face Mode: the camera will automatically switch focus and include your face into a frame with enlarged image. You use the 🤞 gesture in front of the camera to enable the face mode.
- Voice-tracking mode: the camera will switch focus on the speaker with enlarged images. You use the 📱 gesture in front of the camera to enable the voice-tracking mode.

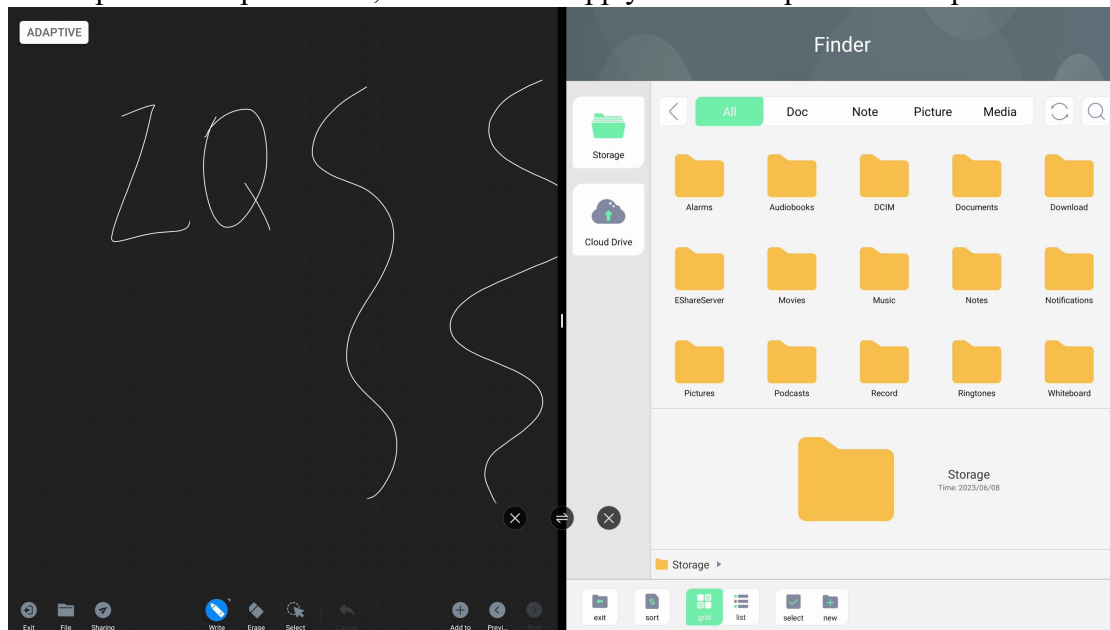
14.9. Calender

Tap More > Calendar to open the calendar. You can check the calendar by day, month, and year, and add to-do items to the calendar.



14.10. Split screen


- Tap More > Split screen, and select the app you want to put into the split screen.

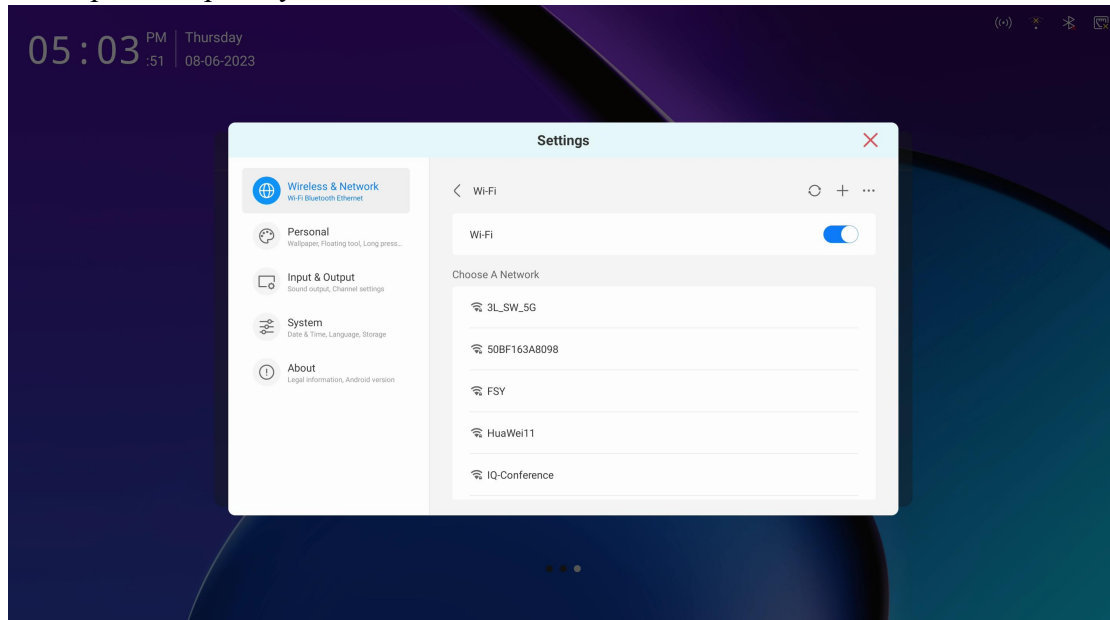


15. Settings

- Swipe left to go to the Apps screen.



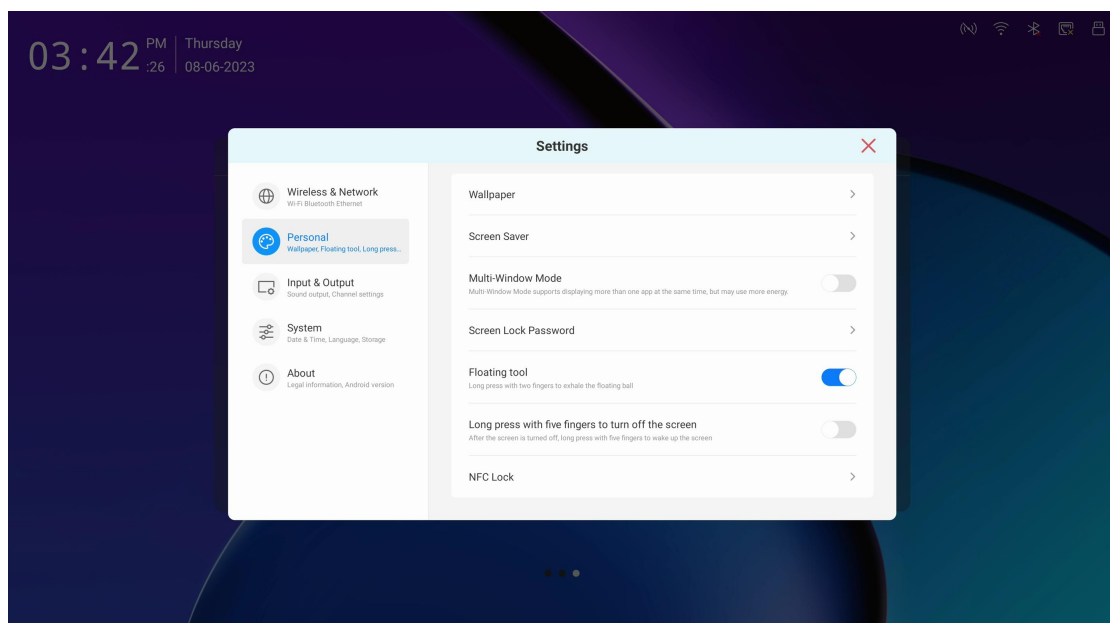
- Tap  to go to Settings. The settings include Wireless&Network, Personal, Input&Output, System, and About.



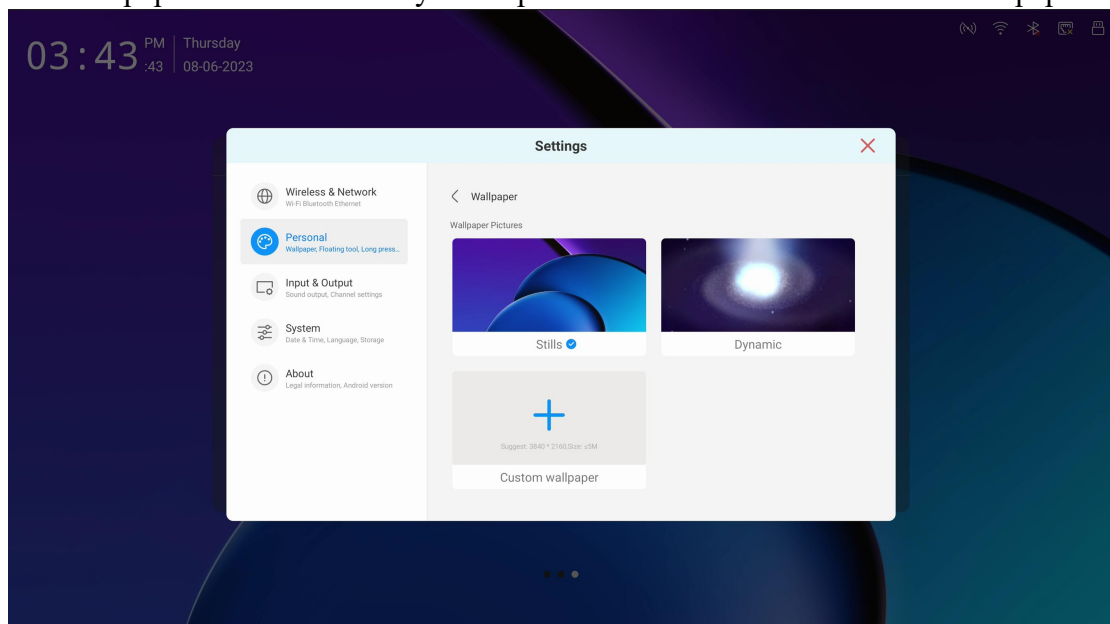
15.1. Wireless connection and network

- Ethernet: support wired and wireless network connection. It does not support Ethernet and Wi-Fi connection at the same time.
- Wi-Fi: support Wi-Fi connection.
- Hotspot: Supports 2.4GHz and 5GHz Hotspot connection.
- Bluetooth: support connection to Bluetooth devices. Files can be transferred via Bluetooth.

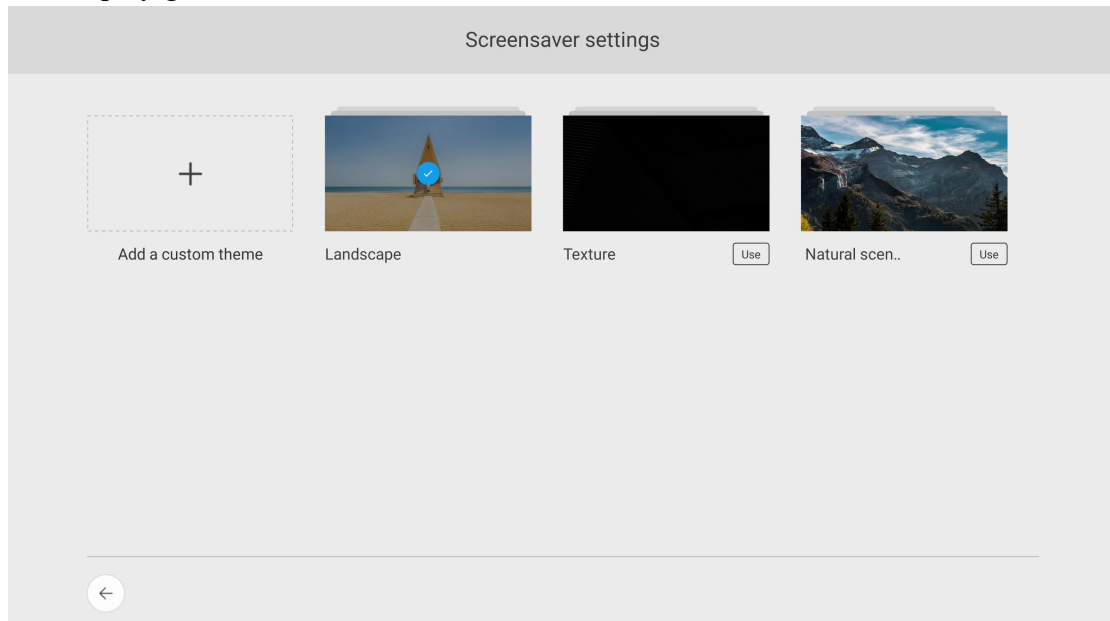
15.2. Personal



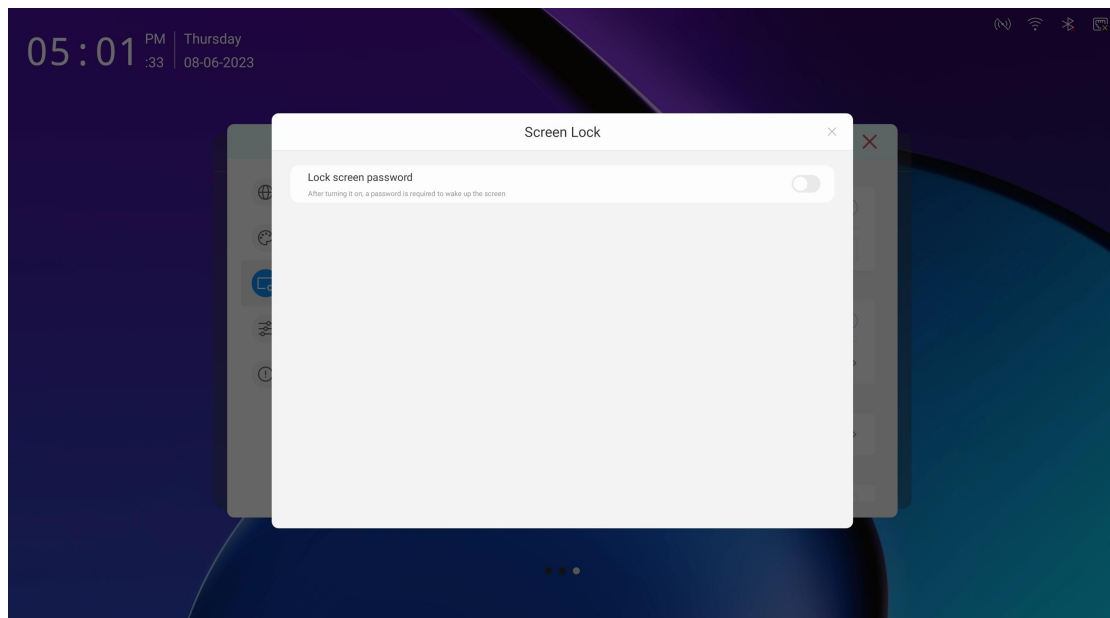
- Wallpaper: choose still or dynamic pictures. You can also add custom wallpaper.



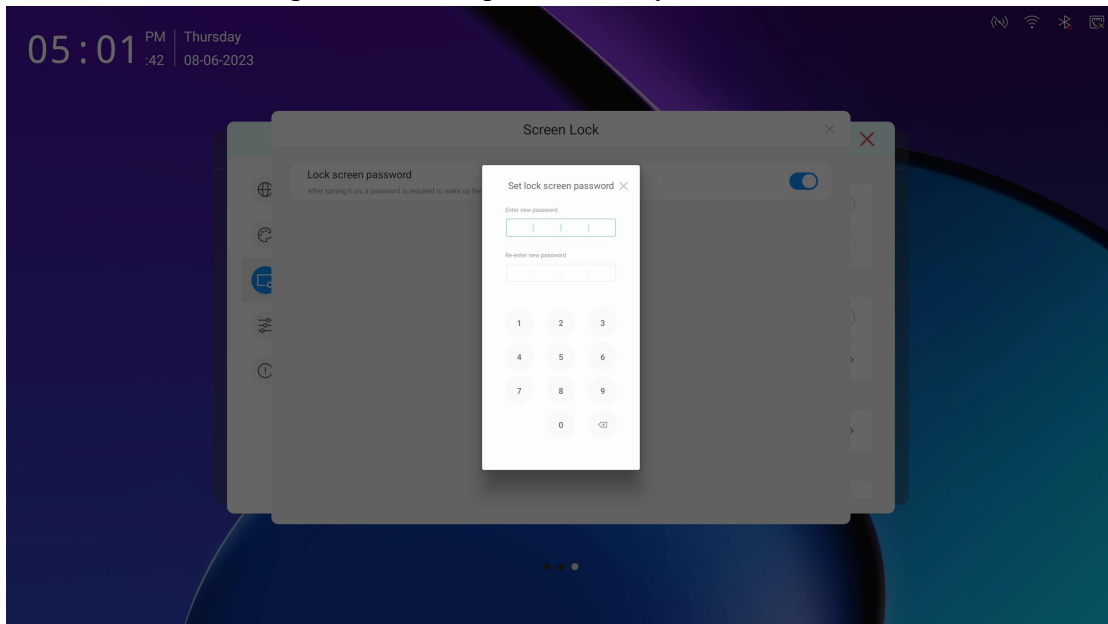
- **Screen Saver:** set the screen saver. The screen saver will show up when the display goes into screen saver mode.



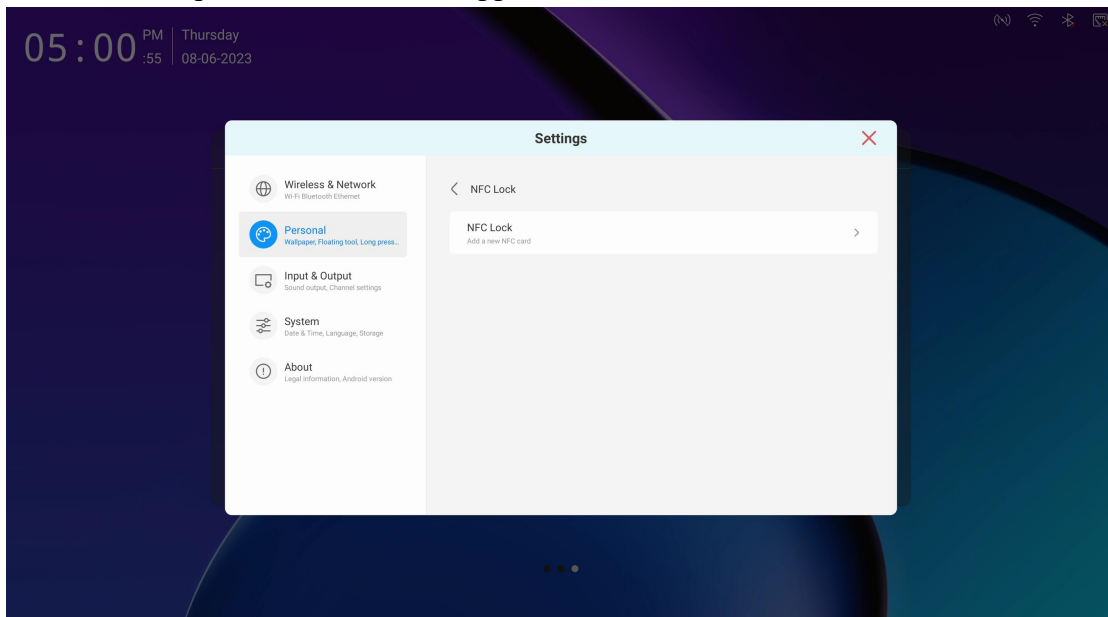
- **Screen Lock Password:** When the screen lock password is set, users need to enter the password to unlock the screen when the display is on standby mode or is powered on.

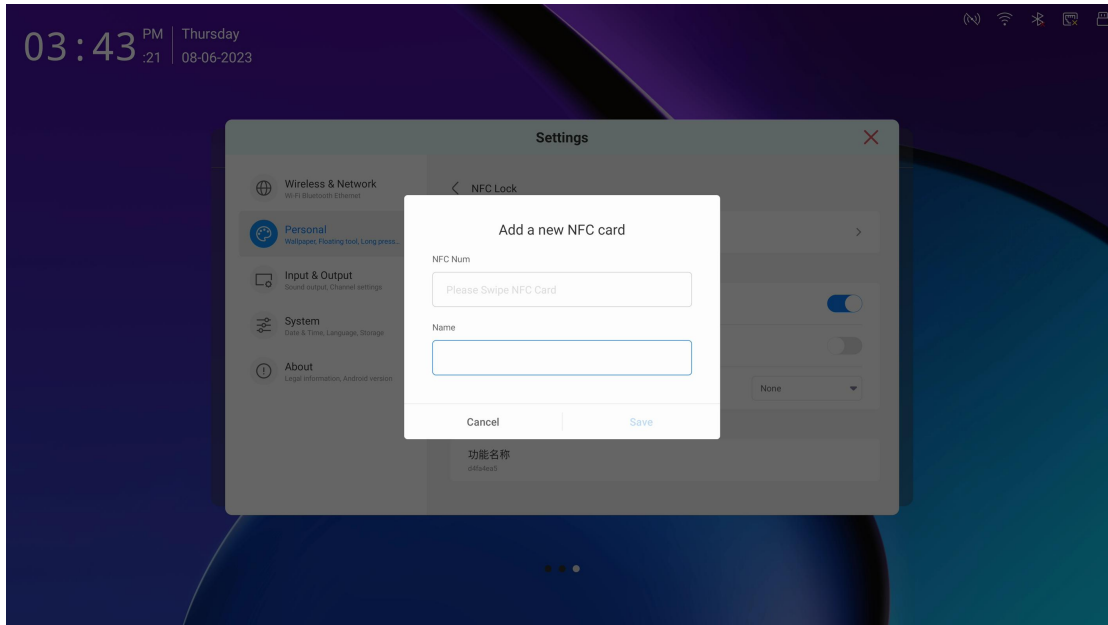


Note: a screen lock password is required before you can use this feature.

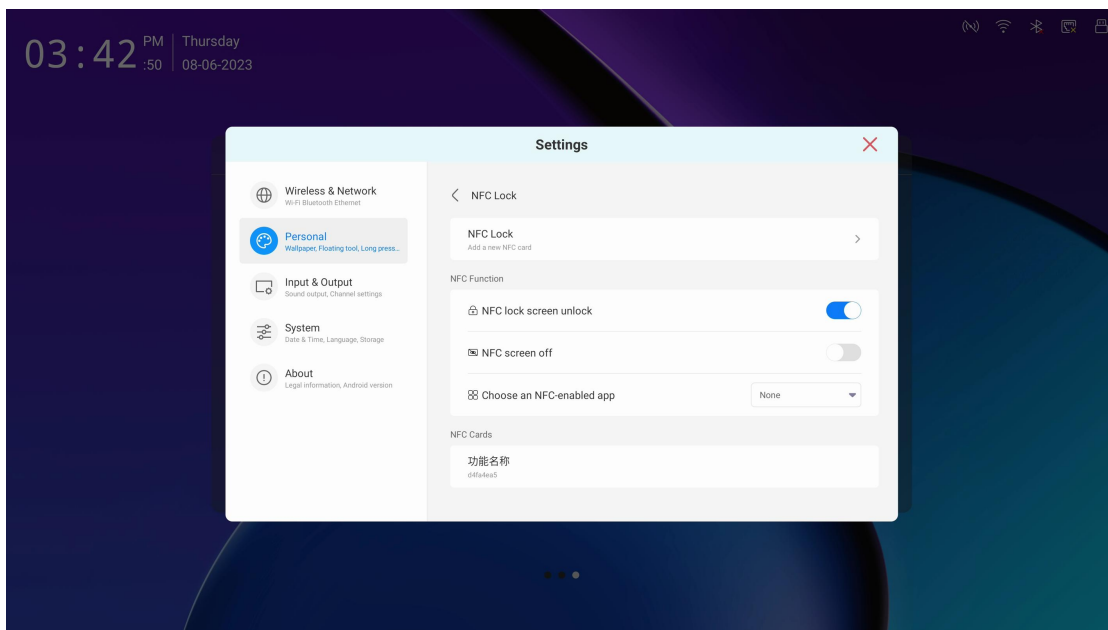


- Long press with five fingers to turn off the screen: you can turn off the screen by long pressing the screen with five fingers.
- NFC lock: you can not only use NFC card to unlock the screen but also use it to set access permission for some apps.





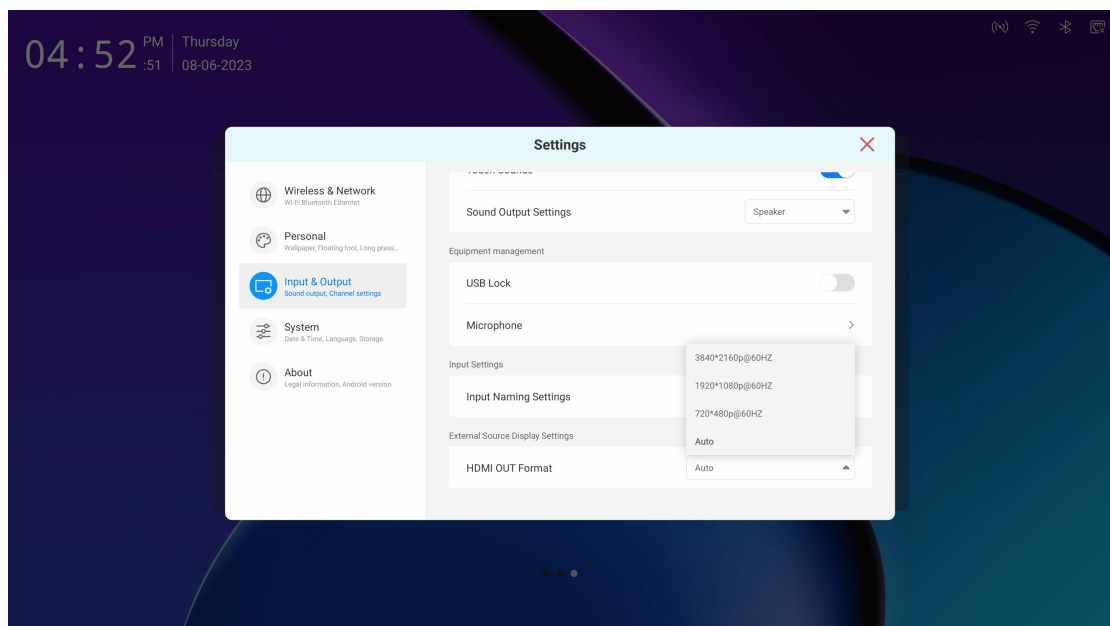
You can use NFC card to control screen lock/unlock, turn off the screen, enable apps, and so on, but you are only allowed to select one type of NFC control each time. Which means NFC card is not applicable to all the functions at the same time.



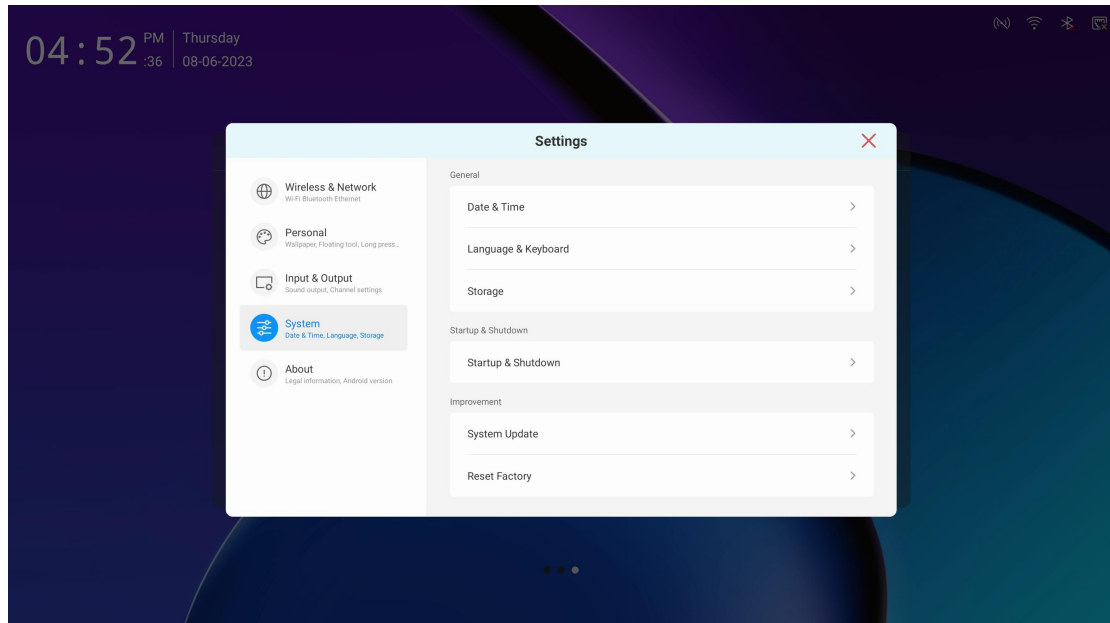
- NFC lock screen unlock: enable it if you want to lock the screen with NFC card.
- NFC screen off: enable it if you want to turn off the screen with NFC card.
- Choose an NFC-enabled app: select the app that you want to enable with NFC card.

15.3. Input&Output

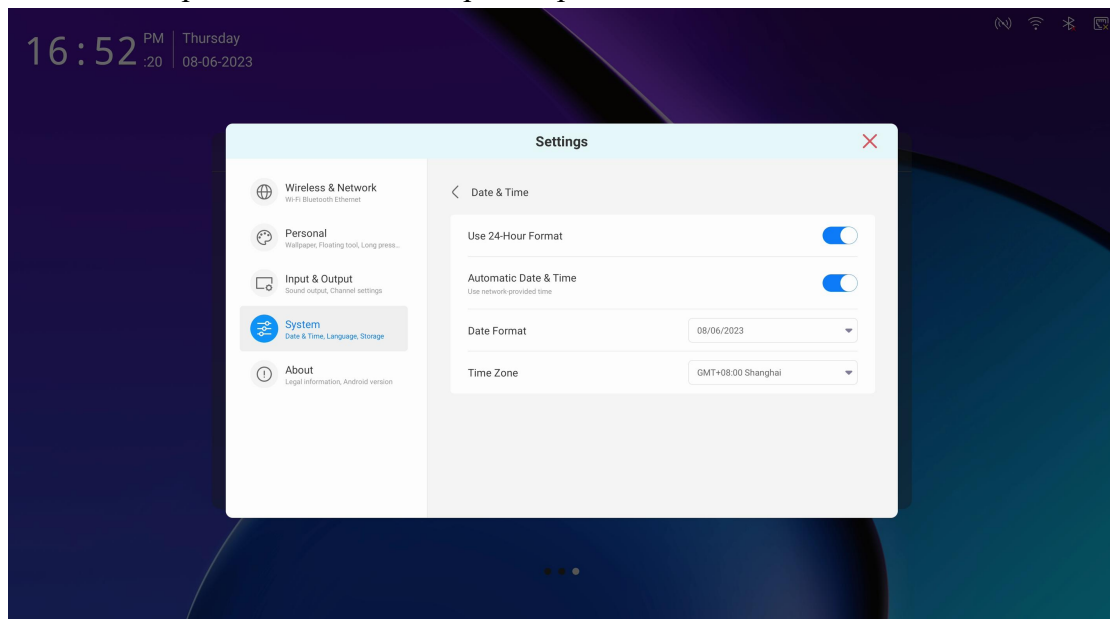
- Touch Sounds: when it is enabled, you will hear a screen tap sound.
- Sound Output Setting: select Speaker, Lineout (for earphones), Mixed (audio-out for other audio devices)
- USB Lock: when the USB lock is enabled, the file in the USB flash drive cannot be read.
- Microphone: displays the current built-in microphone information.External Source Display Settings: set the resolution for the input source from the external device (Auto, 3840*2160P@60HZ、 1920*1080P@60HZ、 720*480P@60HZ).



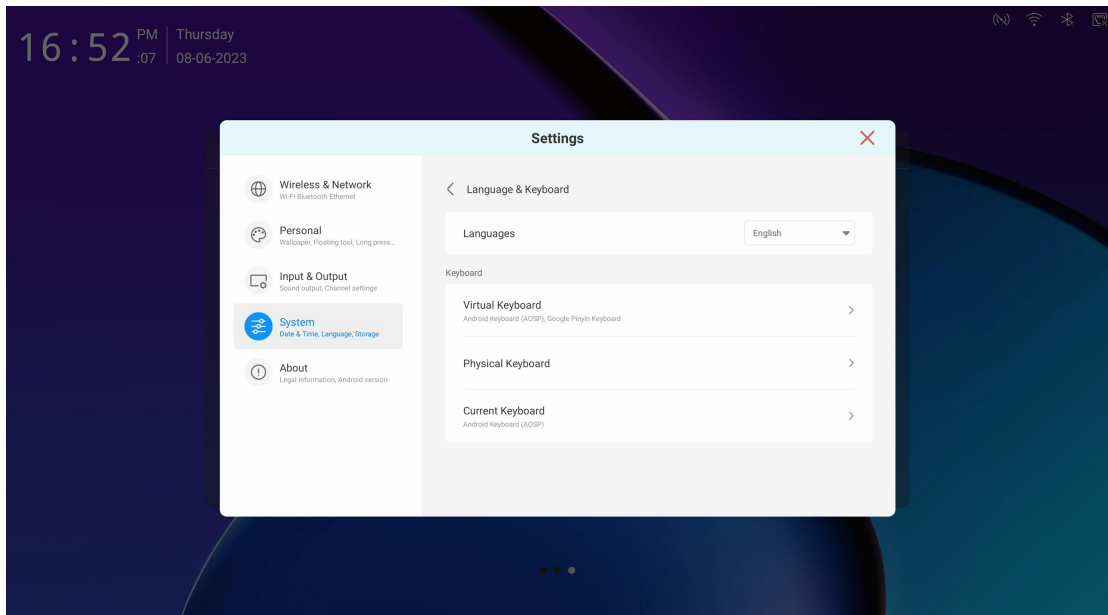
15.4. System



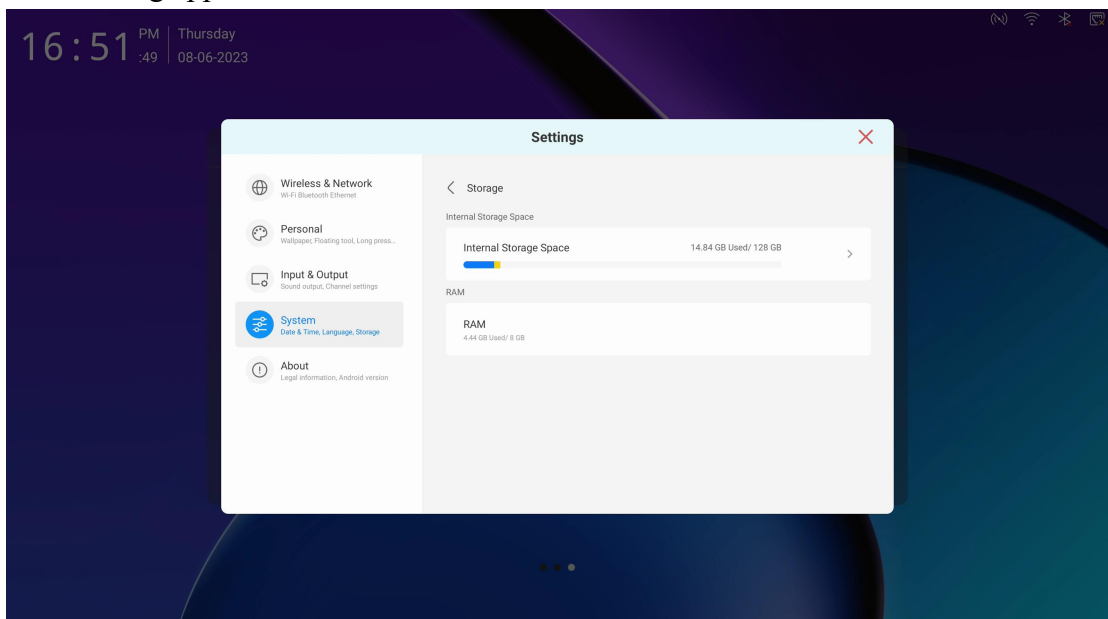
- **Date&Time:** support the 24-hour format and different time zone. It supports manual update and automatic update upon internet connection.



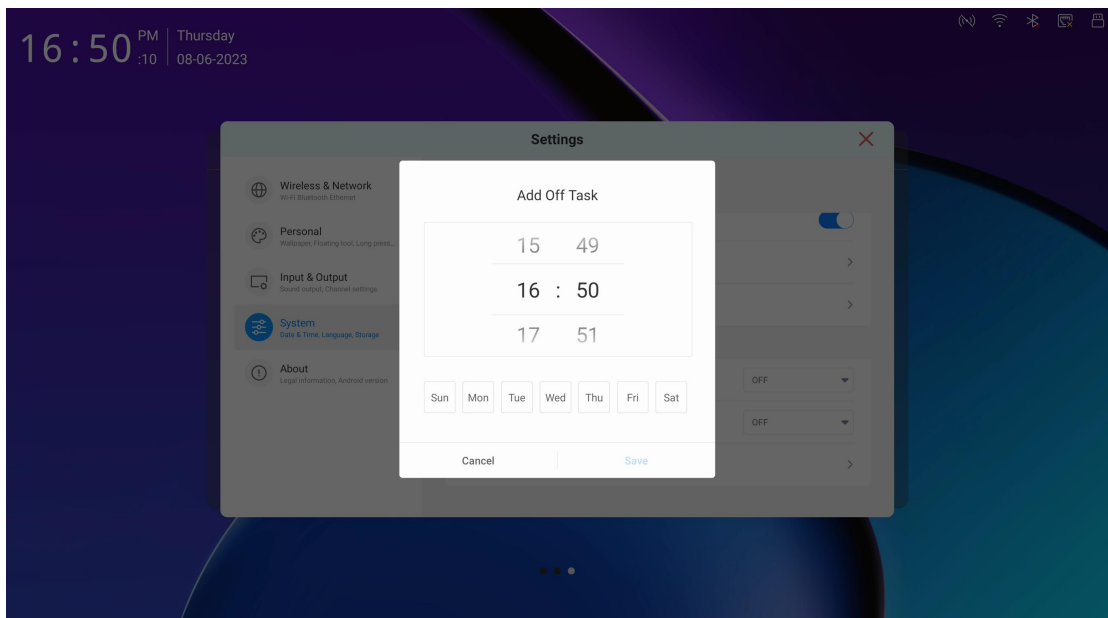
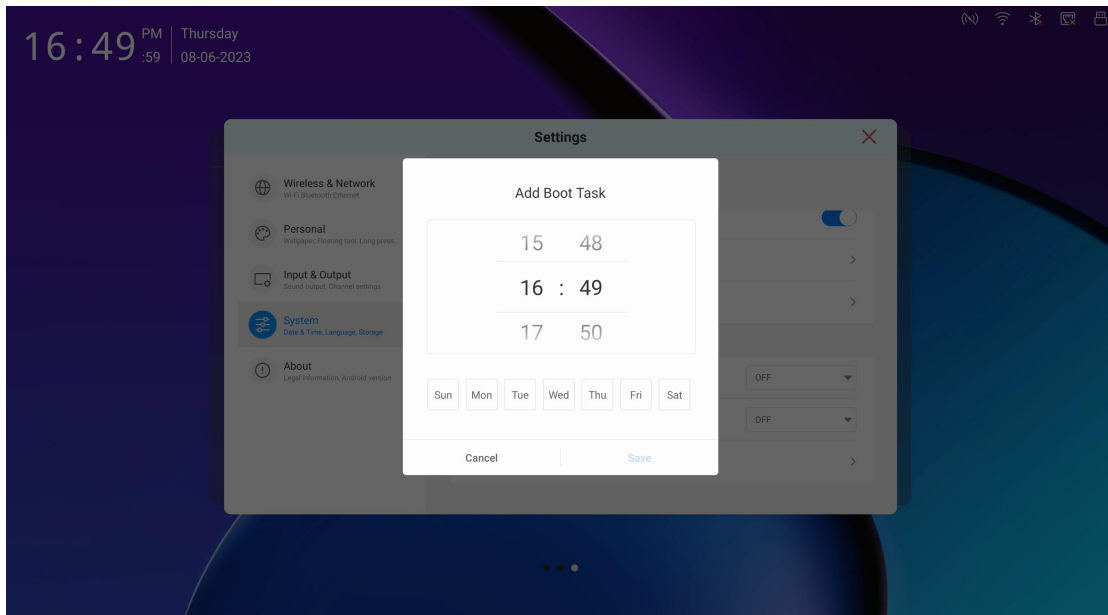
- **Language&Keyboard:** set system language and switch keyboard.



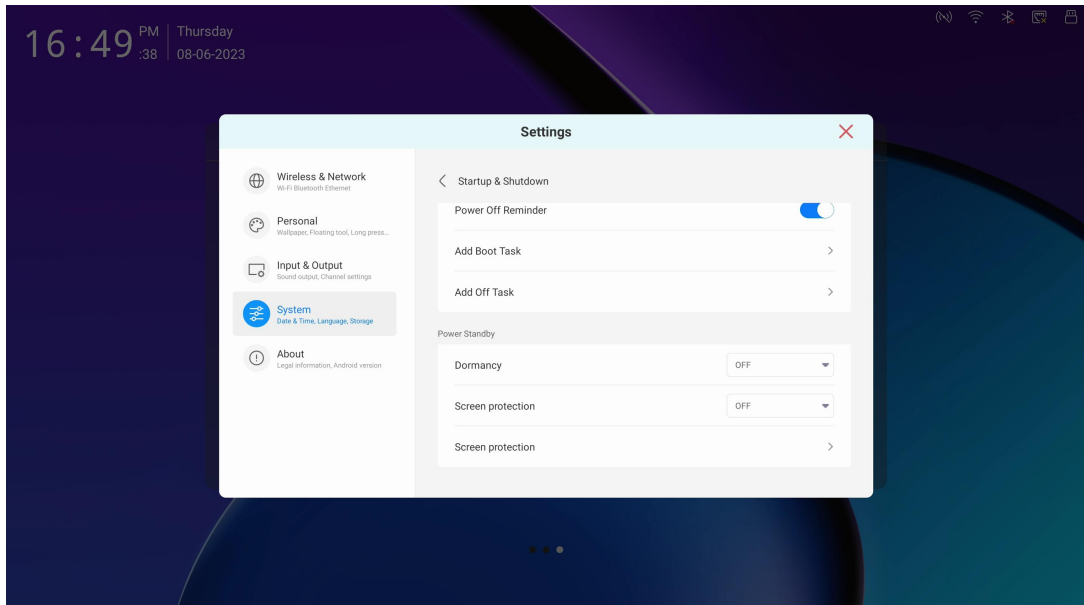
- Storage: check for current internal storage status and RAM usage. Support clearing app data.



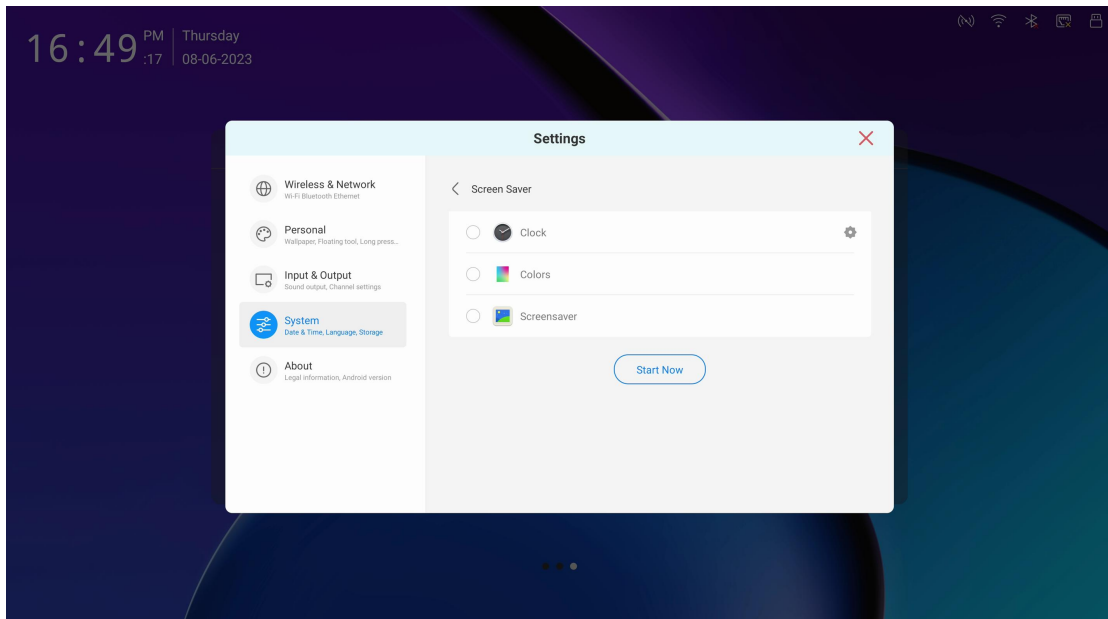
- Startup & Shutdown: Supports for display's automatic power-on/off.



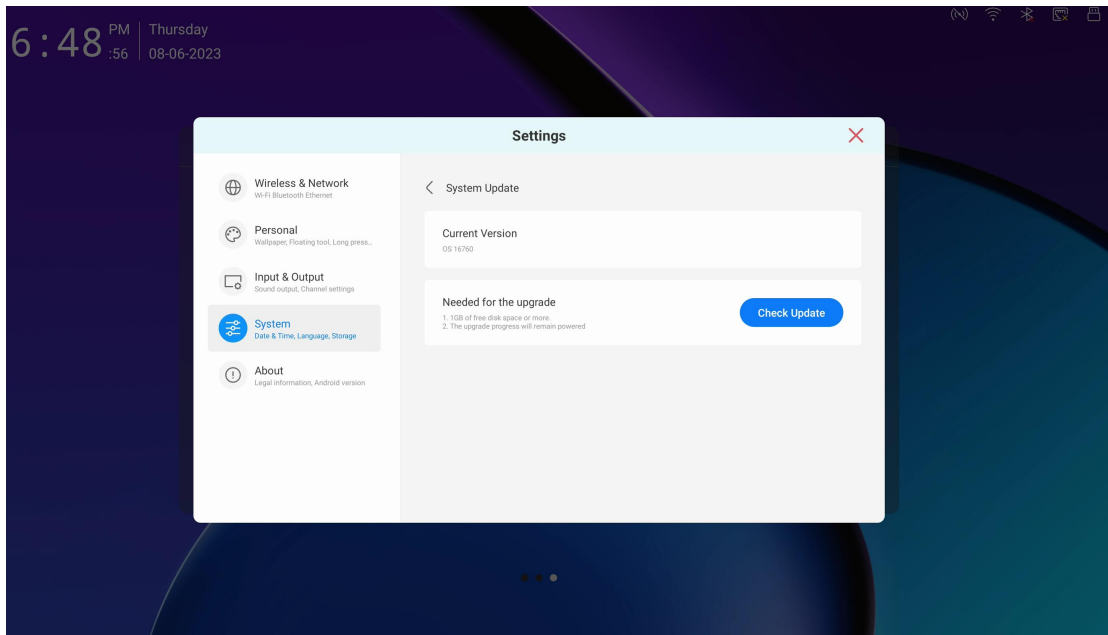
- Dormancy: Set the time duration of no operation (1-60 min.) before the display goes into sleep mode (screen turned off).



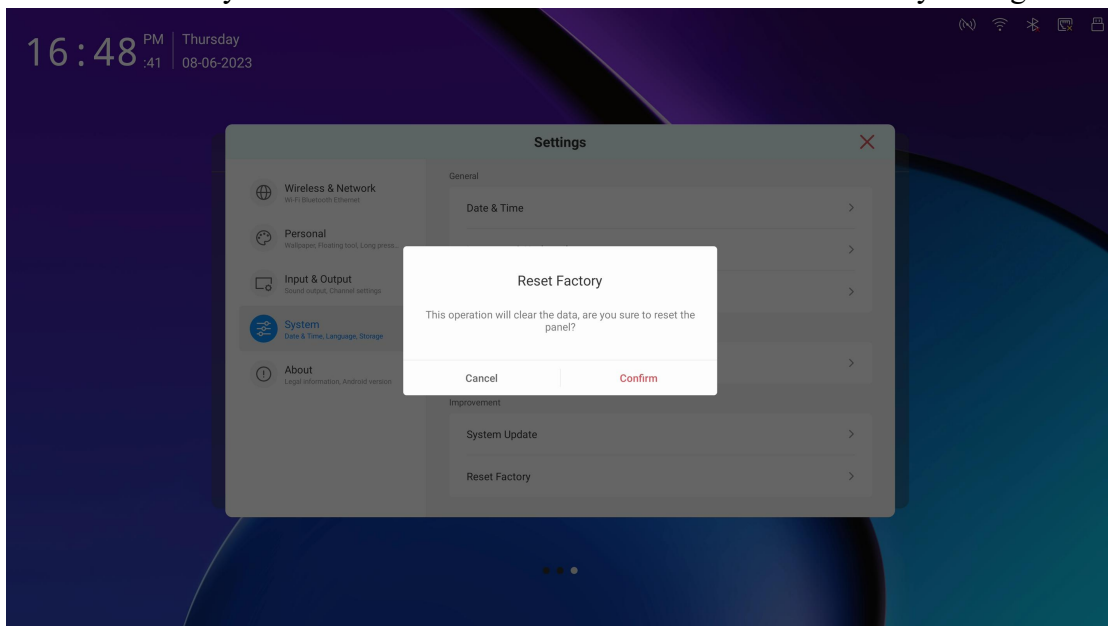
- **Screen Protection:** set the time duration before the display goes into screen saver mode when the display detects no operation. It supports different screen-saver modes.



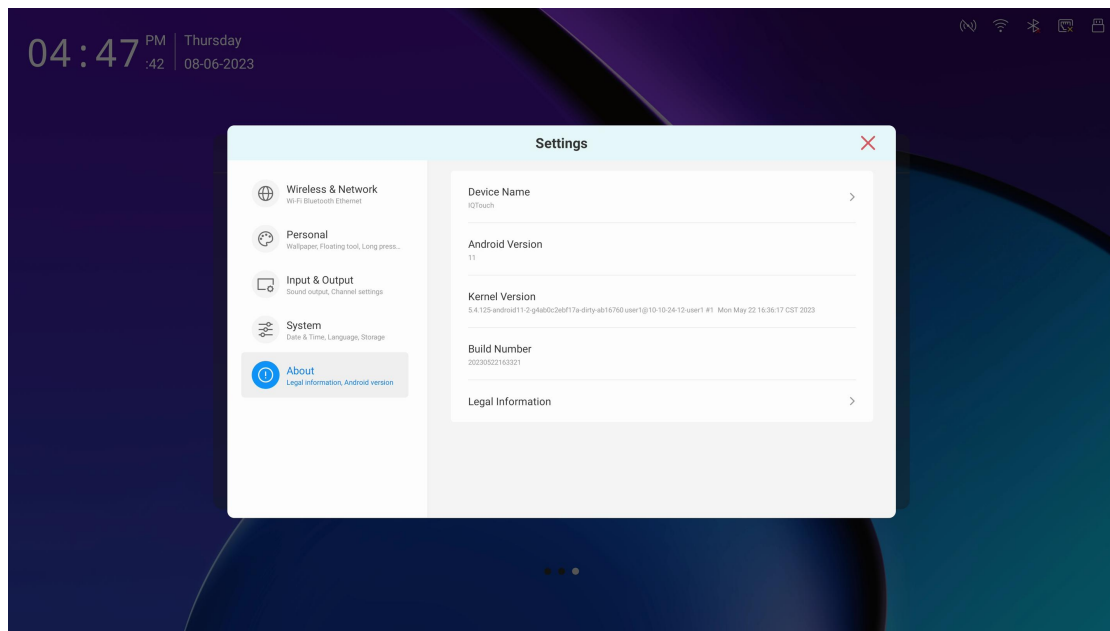
- **System Update:** check for the current system version and update it to the new version.



- **Reset Factory:** clear all the data and restore the device to the factory setting.



15.5. About



- Device Name: customize the device name
- Android Version: check the information related to the current Android version and related legal information.

16. Trouble shooting

Remote Control	
Remote control out of order	<ul style="list-style-type: none"> ● Check whether there is object between remote control and panel receiver; ● Check whether the battery is installed correctly; ● Check whether the battery is drained.
Touch	
Touch does not response.	<ul style="list-style-type: none"> ● Make sure infrared frames have not been obscured. ● Check whether you enable freeze function on remote control.
Built-in PC	
OPS shut down automatically.	<ul style="list-style-type: none"> ● Check if OPS is properly installed; ● Sleeping mode setting;
Handwriting	
Part of the handwriting cannot be displayed.	<ul style="list-style-type: none"> ● Use the pen rather than a finger to write. Hold the pen as far to the nib as possible. The angle between the pen and display needs to be greater than 60 degrees. Do not touch the display with your sleeve or wrist. ● Change the nib or use a pen with larger covering area. ● Check if infrared frames are obscured. ● Remove the interference source or change the using environment.
No display or no sound	
No sound is played and no image is displayed.	<ul style="list-style-type: none"> ● Check whether the power plug is inserted into the power socket and whether the panel is powered on. ● Check whether the rocker switch on the interactive panel is switched on. ● Check whether panel is in ECO mode. ● Check whether the video and audio input cables are connected correctly. ● Check whether the panel is switched to the right signal source. ● Check the settings on image brightness and contrast. ● Check the volume.

Image is displayed properly, but no sound is played.	<ul style="list-style-type: none"> ● Check the volume. ● Check whether the Mute button on the remote control is pressed. ● Check whether the audio cable between the PC and interactive flat panel display is connected correctly.
No image is displayed or the image is black and white.	<ul style="list-style-type: none"> ● Modify the color settings. ● Check the color system.

This is the general user manual for IQTouch TB1100 Pro Gen 2 interactive flat panel. Some details may be different from the actual product.



STOCK CODE
836453



🏢 Returnstar Interactive Technology Group CO., LTD.
📍 6th Bldg. High-Tech Base. Fuzhou Fujian Prov. China
☎ 0086-591-38202660
📠 0086-591-38203003
🌐 www.IQBoard.net
✉ IQBoard@IQBoard.net

© Returnstar Interactive Technology Group CO., LTD