



Smart Interactive Whiteboard

User Manual



Foreword

General

This manual introduces the functions and operations of the smart interactive whiteboard (hereinafter referred to as "the device"). Read carefully before using the whiteboard, and keep the manual safe for future reference.

Symbols

The following symbols might appear in the manual.

Symbol	Description
 DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
 TIPS	Provides methods to help you solve a problem or save time.
 NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.0.0	First release.	July 2026

Privacy Protection Notice

As the device user, you might collect the personal data of individuals such as their names, email addresses, face images, audio and fingerprints. You shall be fully responsible for any activities associated with processing personal data. You commit to comply with your local privacy protection laws and regulations to protect the legitimate rights and interests of individuals, and shall implement measures which are required by applicable law, including but not limited to, providing clear and comprehensive information to individuals before processing their personal data, obtaining consent from individuals when necessary, informing individuals of the existence of the surveillance area, and providing required contact information.

Intelligent Product Usage Statement

Intelligent products utilize AI technology to effectively enhance security. The intelligent recognition and alarm functions of the product might be affected by factors such as environmental lighting, camera angles, object obstructions, and network delays, potentially leading to false alarms, missed

alerts, or response delays. This intelligent product is solely intended to be used as a security assistance tool. The results from performing identification are for reference only and do not constitute absolute guarantee of personal or property safety. Users need to combine these products with necessary physical security measures to enhance overall protection. Except as otherwise provided by laws or in the event of intentional or gross negligence on the part of the company, the company shall not be liable for any losses caused by the aforementioned factors not attributable to the company.

About the Manual

- This manual is provided for general reference only. Discrepancies might exist between the product and this manual, including but not limited to printed, electronic, or any other editions.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. Specifications and documentation are subject to change without prior notice. For the latest versions, as well as legal notices, consult the printed manual, the product webpage, our official website, or scan the QR code to access the electronic edition.
- The manual will be updated as necessary to reflect product changes and applicable legal requirements. These updates will not diminish your statutory rights, nor will they remove or weaken the safety information or essential instructions provided at the time of purchase.
- Although we make every effort to ensure accuracy, errors or deviations in descriptions of functions, operations, or technical data might occur. If there is any uncertainty or controversy, we reserve the right of final explanation.
- All trademarks, registered trademarks and company names referenced in this manual are the property of their respective owners.

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1 Overview

1.1 Introduction

The smart interactive whiteboard is an integrated multimedia device consisting of a large HD screen, a computer, an electronic whiteboard, an audio amplifier, applications, and a central control system.

The device supports the following functions and features.

- 4K HD LCD display.
- Android and Windows system switching (for Windows, you need to install the computer module).
- One-tap projection of devices such as mobile phones and tablets.
- Electronic whiteboard.
- Various software such as WPS, audio and video players.
- Supports video conference.

1.2 Packing List

Check whether there is any obvious damage on the packing box. Unpack the box and check whether the components are complete according to the packing list.

Table 1-1 Packing list

Item	Quantity	Item	Quantity
Smart interactive whiteboard	1	Power cord	1
Stylus pen	2	Quick start guide	1
Wall-mount bracket	1	Remote control	1
Legal and regulatory information	1	Wall-mount screw package	1
Wireless plug-in module	1	—	—

1.3 Appearance and Structure

Figure 1-1 Appearance

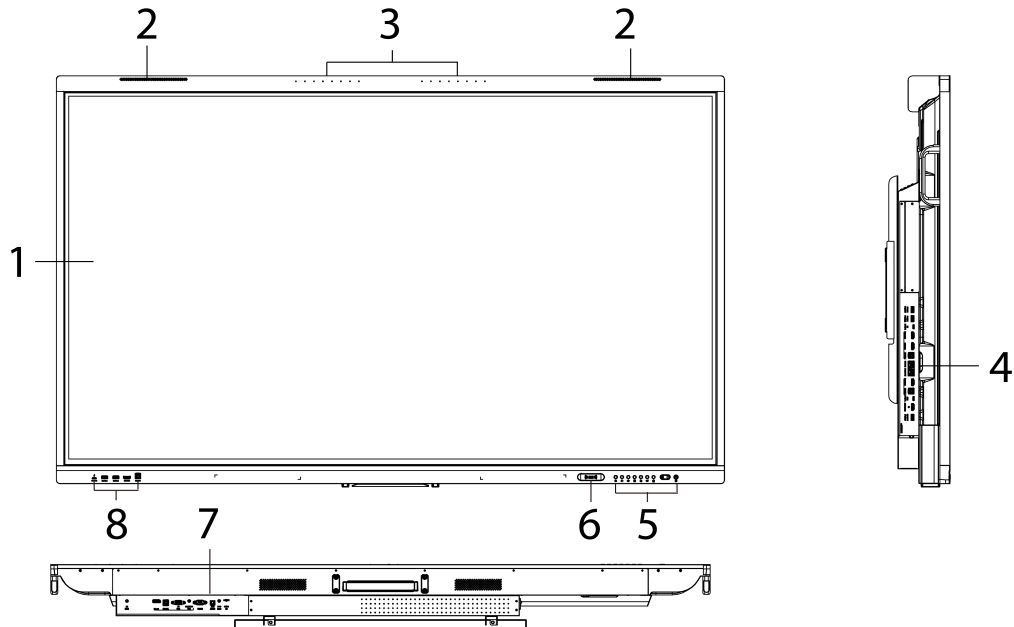


Table 1-2 Appearance description

No.	Description
1	LCD.
2	Speaker holes. Play multimedia audio.
3	Microphones. Pick up live audio.
4	Ports on the side panel.
5	Function buttons on the front panel.
6	NFC module. You can touch this area with a mobile phone that supports NFC to unlock the screen on the Android system.
7	Ports on the bottom panel.
8	Ports on the front panel.

Figure 1-2 Ports and buttons on the front panel

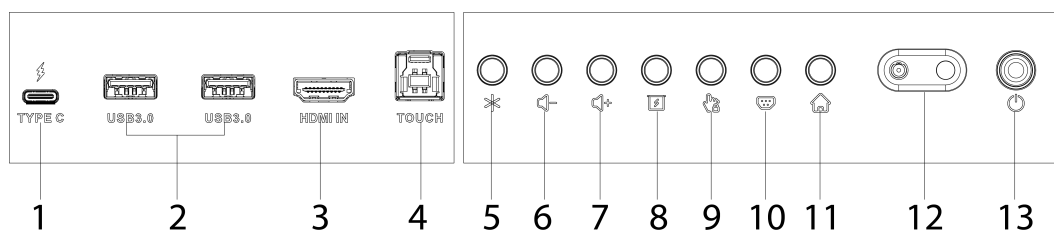


Table 1-3 Description of ports on the front panel

No.	Description
1	Full-feature Type-C port. Connect devices such as laptops to enable screen mirroring, touch control of the laptop through the device, charging external devices like laptops, and more.
2	USB 3.0 port.
3	HD audio and video signal input port. Connects to the computer, set-top box, and other video devices with HDMI output ports.
4	Touch port. Supports reverse control. We recommend using this port together with the HDMI IN port next to it to enable synchronized video input and touch functionality.
5	Custom button. User-definable function.
6	Volume down button.
7	Volume up button.
8	Curtain control button. Press this button to activate the curtain mode.
9	Touch lock button. You can turn the touch lock on or off.
10	Input source selection button. Used to choose the input source for device connection.
11	Home button. Press to return to the home screen.
12	- Light sensor. The device recognizes the ambient brightness through the light sensor and automatically adjusts the backlight according to the ambient brightness. - IR sensor. Receives signals from the remote control.
13	Power button. Press and hold for 5 seconds to turn off, short press to turn on, wake or sleep the screen.

Figure 1-3 Ports on the side panel

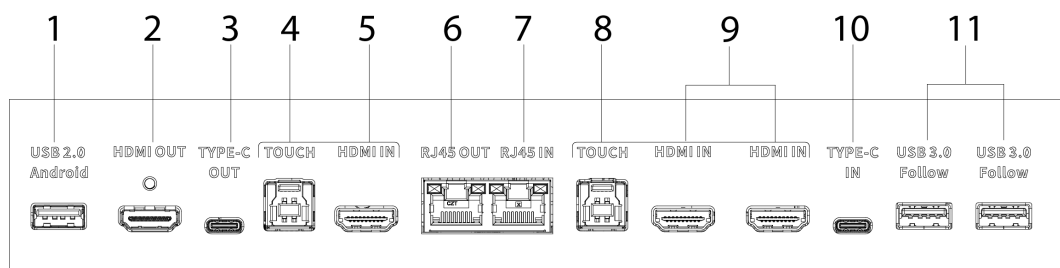


Table 1-4 Description of ports on the side panel

No.	Description
1	USB 2.0 Android. The USB devices are accessible only in Android system.
2	HD audio and video signal output port. Transmits uncompressed HD video and multi-channel audio data.
3	Type-C OUT port. Supports connecting USB 3.0 Flash drive and delivering video output up to 4K@60 Hz.

No.	Description
4	Touch port. Supports reverse control. We recommend using this port together with the HDMI IN port next to it to enable synchronized video input and touch functionality.
5	HD audio and video signal input port. Connects to the computer, set-top box, and other video devices with HDMI output ports.
6	- RJ45 OUT port. Used for cascading other devices to share the network. - RJ45 IN port. Connects an Ethernet cable to access the network.
7	
8	Touch port. Supports reverse control. We recommend using this port together with the HDMI IN port next to it to enable synchronized video input and touch functionality.
9	HD audio and video signal input port. Connects to the computer, set-top box, and other video devices with HDMI output ports.
10	Type-C IN port. Used to connect devices like laptops to the device for screen mirroring.
11	USB 3.0 Follow port. The USB devices can follow and connect to Android and OPS signal sources.

Figure 1-4 Ports on the bottom panel

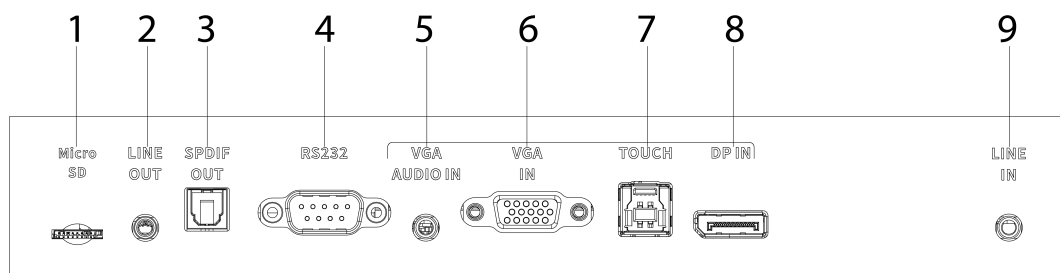


Table 1-5 Description of ports on the bottom panel

No.	Description
1	MicroSD card slot. Used for inserting microSD cards.
2	LINE OUT port. An audio output port that connects to the speakers.
3	SPDIF digital audio output port. Connects external speakers.
4	RS-232 debugging serial port. Connect to control devices with RS-232 port for serial data transmission.
5	VGA audio input port. Used to connect audio from other devices to the device for playback.
6	VGA input port. Connects to VGA signal sources such as computers, set-top boxes, or other video devices with VGA output ports.
7	Touch port. Supports reverse control. We recommend using this port together with the VGA IN or DP IN port to enable synchronized video input and touch functionality.
8	DP input port. Used to connect computers and other video devices with DP output ports.

No.	Description
9	Audio input port. Used with the Android system.

2 Initial Settings

2.1 Turning on the Whiteboard

Prerequisites

- Before starting the whiteboard, check whether the input voltage is correct against the power supply requirements.
- To ensure the stable work of the whiteboard and the external devices connected to the whiteboard and to prolong the service life, we recommend you refer to the national related standard to use the power source that provides stable voltage with less interference from ripples.

Procedure

- Step 1 Connect the power cord.
- Step 2 Press the **I** end of the rocker switch next to the power cord.
- Step 3 Press the power button on the right panel to turn on the screen.

After startup, the system displays the home screen by default.

2.2 Turning off Screen

When the screen is on, press the power button once to turn off the screen.

To wake up the whiteboard, you can use one of the following methods:

- Press the power button again.
- Touch the screen.



- In the Windows system, if you have set a screen lock password, you need to enter the correct password to wake up the whiteboard.
- If you turn on the **Turn Off Screen with Five Fingers** function, you need to place your five fingers on the screen for more than 1 second to wake up the screen.

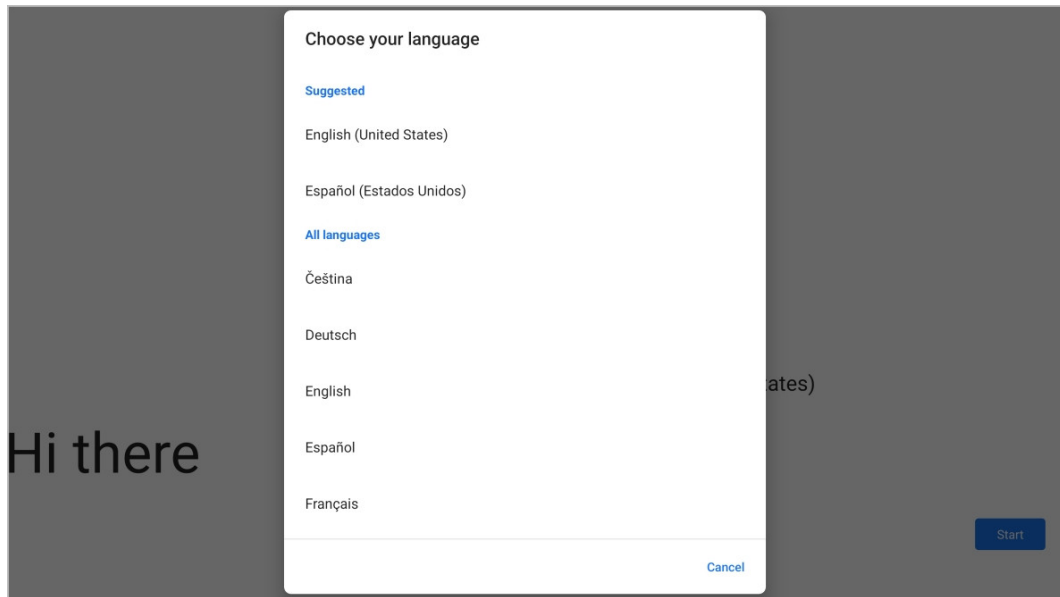
2.3 Initializing the Whiteboard

For first-time use or after restoring the system to factory settings, you need to initialize the whiteboard. After that, you can configure and operate your device.

Procedure

- Step 1 Power on the whiteboard.
- Step 2 Choose a language, and then tap **Start**.

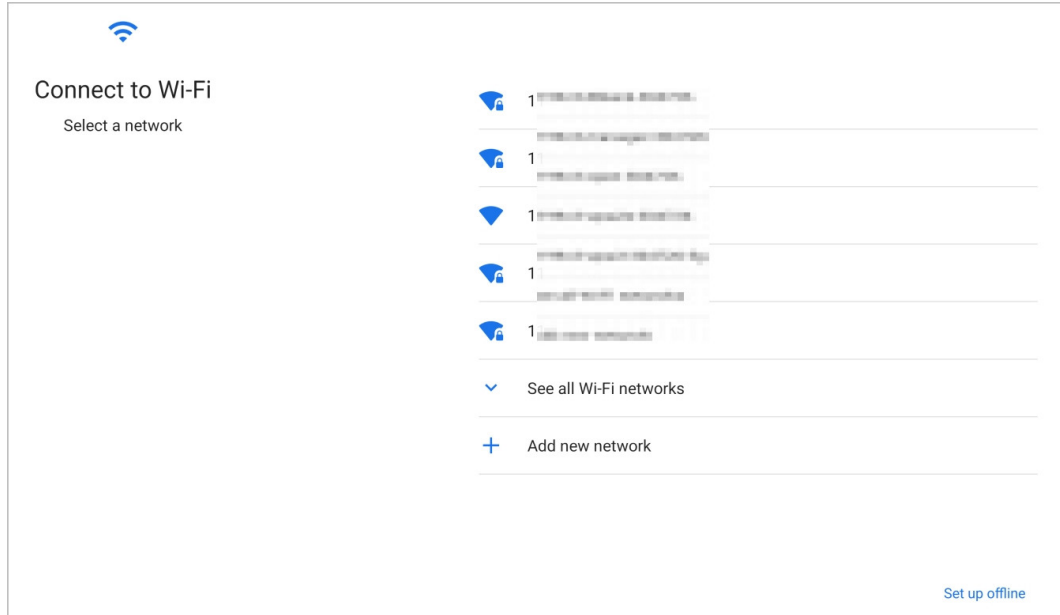
Figure 2-1 Choose a language



Step 3 Select the network settings, which support 2 methods: connecting to a wireless network and offline setup. Choose the network configuration method according to your actual needs.

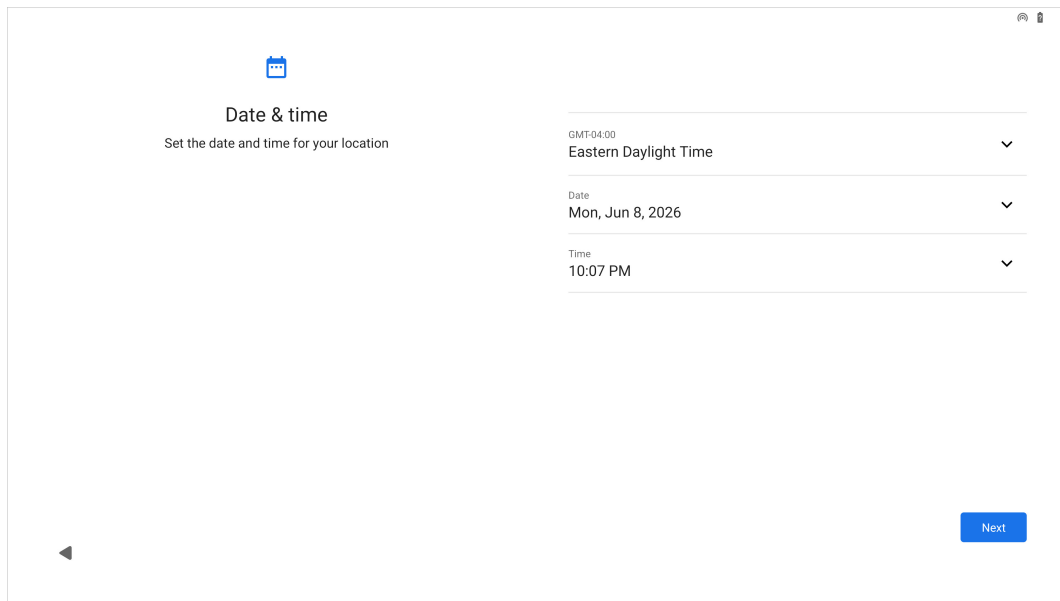
The following section describes the offline setup process as an example.

Figure 2-2 Choose the network configuration



Step 4 Select **Set up offline** > **Date & time**, set the GMT, date and time, and then tap **Next**.

Figure 2-3 Set the date and time

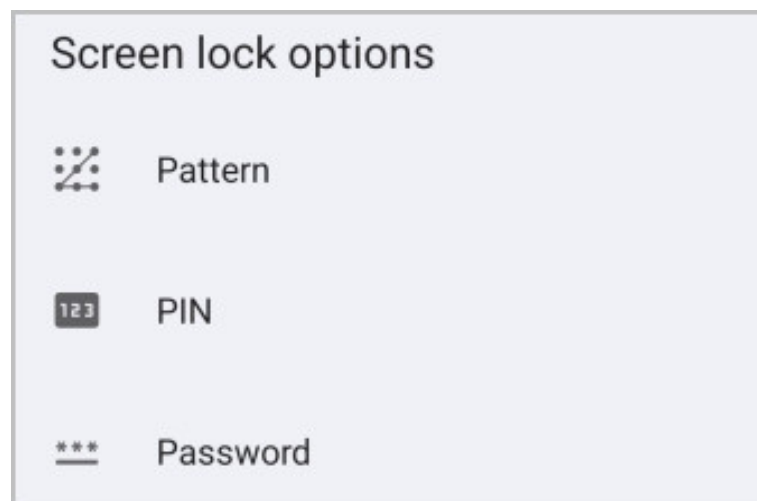


Step 5 Set a PIN, tap **Next**, re-enter your PIN, and then tap **Confirm**.



- PIN must be at least 4 digits. We recommend you set a 6-digit PIN for security.
- The screen lock options allow you to set a password and a pattern in addition to a PIN. Select the screen lock method as needed.

Figure 2-4 Screen lock options



Step 6 Read Google services, tap **More** > **Accept**, read the privacy policy, and then tap **Agree**.

Step 7 Read the software license agreement, and then tap **Agree**.

The whiteboard initialization is complete.

2.4 Home Screen

Figure 2-5 Home screen

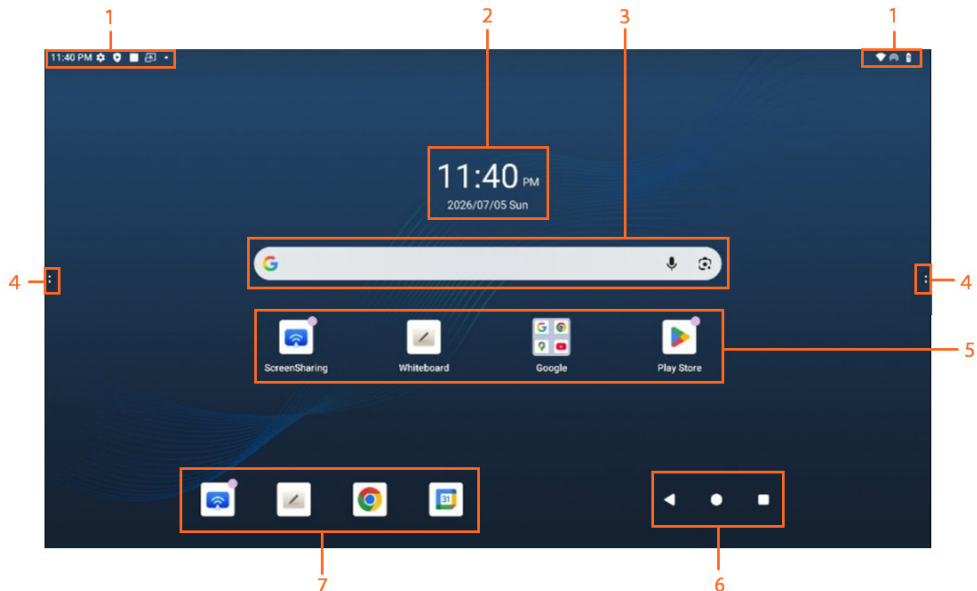


Table 2-1 Description of the home screen

No.	Description
1	Status bar. Displays different status information.
2	Displays date, time and the day of the week.
3	Search bar. You can enter text and images to search.  It is available on the condition that the whiteboard is connected to the network.
4	Tap to bring up the navigation bar. For details, see "3.1.1 Bringing up the Navigation Bar".
5	Function area. Tap a function icon to go to the corresponding operation screen.  For a third-party app, you can tap and hold the app to uninstall it. The apps that come with the system cannot be uninstalled in such way.
6	Navigation icon. : Goes back to the previous step. : Returns to the home page. : Manage tasks.
7	Taskbar. Quick access to recently opened applications.

3 Basic Operations

The whiteboard can act as a computer or electronic whiteboard. This chapter introduces the basic operations of those functions. We recommend using the stylus pen to interact with the screen.

3.1 Quick Operations

You can use the navigation bar or assistive touch to quickly use basic functions.

3.1.1 Bringing up the Navigation Bar

Tap  on the left or right side of the home screen to bring up the navigation bar.

Figure 3-1 Navigation bar



Table 3-1 Description of the navigation bar

Icon	Description
	Displays or hides the navigation bar.
	Goes back to the previous screen.
	Returns to the home screen.
	Tap the icon to display quick tools such as annotation, screen sharing, and camera. For details, see "3.1.4 Quick Tools".
	Displays the apps that are running in the background. You can close the background apps one by one or in batches.

Icon	Description
	Supports different signal sources such as Windows, HDMI, and VGA.
	Adjust the position of screen image up or down.

3.1.2 Bringing up the Assistive Touch

Tap  on the navigation bar, and then tap **Settings** > **Assistive Touch** > **Default** > **OK** to bring up the default assistive touch.



- Assistive touch is turned off by default.
- Once enabled, you can tap  on the home screen to access assistive touch.

Figure 3-2 Assistive touch

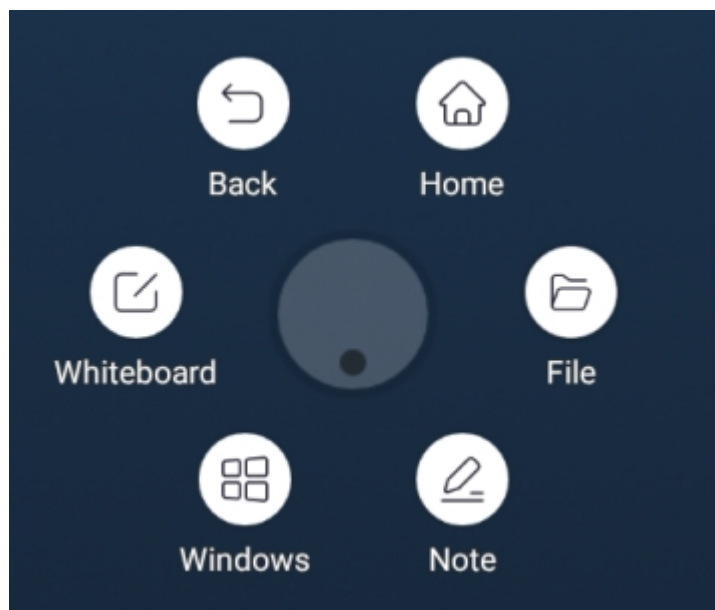


Table 3-2 Description of the assistive touch

Icon	Description
	Returns to the home screen.
	Goes back to the previous screen.
	Goes to the electronic whiteboard screen. For details, see "3.2 Electronic Whiteboard".

Icon	Description
	After you insert the computer module, tap the icon to switch to the Windows system.
	Turn on the annotation mode which supports multi-page annotation. • Tap  to select the type of pen and the size of the brush. • Tap  to clear content. ◇ Tap Erase to clear unwanted content. ◇ Tap Circle and Erase to circle unwanted content, and then erase the selected content. ◇ Tap  to clear all content on the screen. • Tap  to enable the pen and touch control feature. When the pen makes contact, it is automatically recognized as writing. When the finger makes contact, it is recognized as selection. • Tap Finish to finish the annotation on the current page and choose a new background for the next annotation. A page number will appear in the lower-right corner, which you can tap to select the annotated page. It supports sharing, saving, and exiting the annotation. • Tap Cancel to exit the annotation mode. • Tap Save, and then select the path to save your annotations. • Tap Exit to exit the annotation screen. If there is annotated content, a pop-up window will prompt you to save when exiting.  The annotation feature and the electronic whiteboard feature cannot be used simultaneously.
	Manage files.

3.1.3 Bringing up the AI Assistive Touch

Bringing up the AI Assistive Touch

Tap  on the navigation bar, and then tap **Settings** > **Assistive Touch** > **AI Assistive Touch** > **OK** to bring up the AI assistive touch.



- AI assistive touch is turned off by default.
- Once enabled, you can tap  on the home screen to access AI assistive touch.

Figure 3-3 AI assistive touch

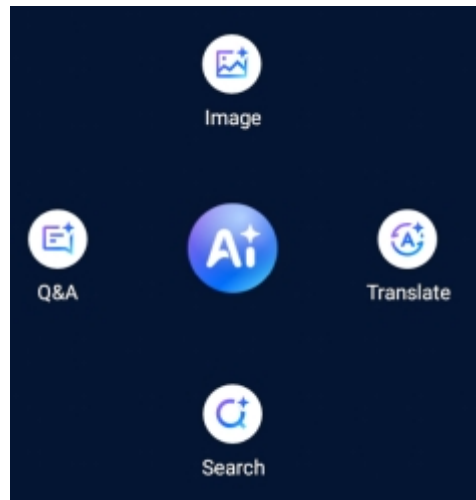
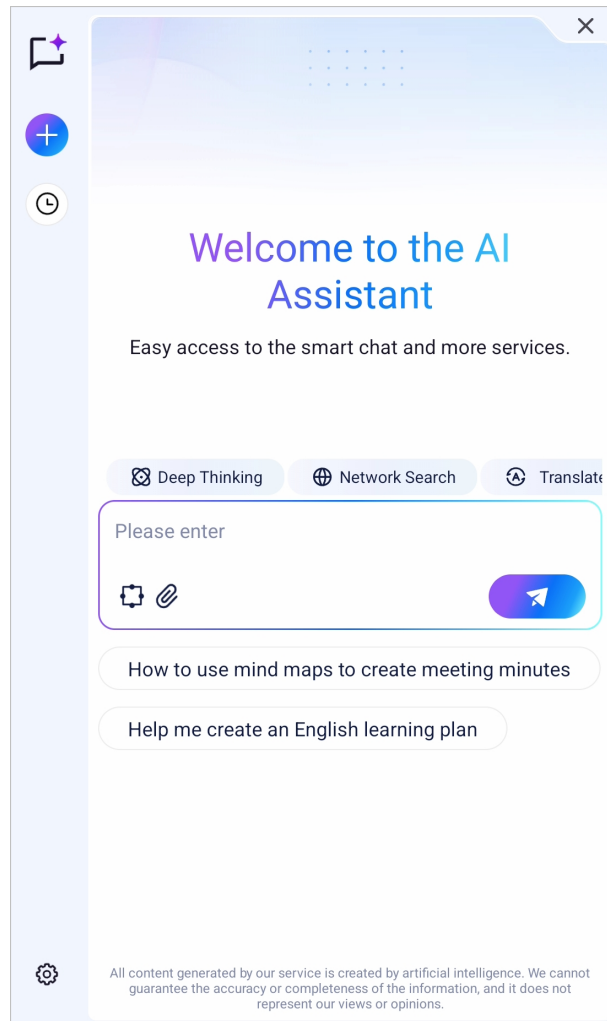


Table 3-3 Description of the AI assistive touch

Item	Description
Image	Goes to the AI-Generated Images page.
Translate	Goes to the Translate page.
Search	Allows you to circle an area on the screen.
Q&A	Goes to the Q&A page.

Figure 3-4 AI assistant home page



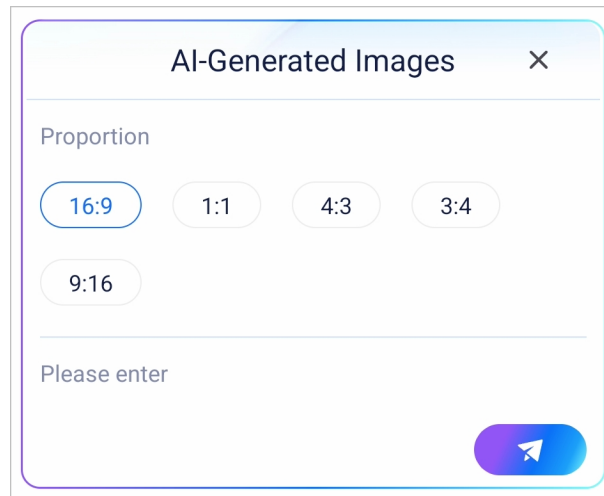
-  : Tap it to start a new conversation.
-  : Tap it to view the history conversation.
-  : Tap it to enter the setting page where you can view the privacy policy, the user agreement and the open source file.
-  : Tap it to send any input to the large language model.

Using AI

- **Images**
 1. Tap the AI assistive touch to unfold the main features, and then tap **Images**.
 2. On the conversation page, configure the ratio of the image to be generated, and then input the prompt. You can input texts.

Text input: Type your prompt into the dialog box, and then the app will send it to the large language model for analysis and return an answer. Each text message must be less than 5,000 words.

Figure 3-5 AI-generated images



3. The LLM generates the image based on your prompt. Images with a 1:1 ratio are rendered at 1024×1024 pixels; all other proportions are center-cropped on a 1024×1024 basis.

4. Tap . The LLM generates a response to the input prompt.

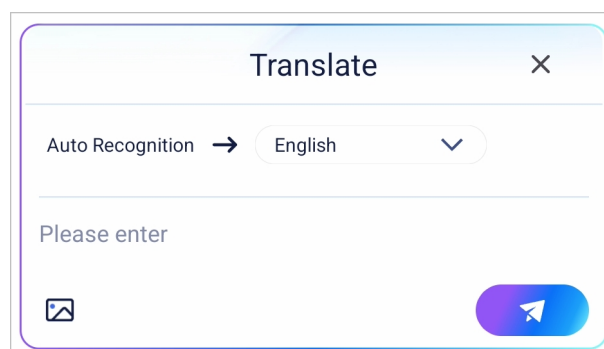
• Translate

1. Tap the assistive touch to unfold the main features, and then tap **Translate**.
2. On the conversation page, configure the source language type and the target language type, and then input the text that needs translation.
 - ◇ The source language is automatically detected.
 - ◇ The target language supports 14 languages, including English, Japanese, Korean, Chinese, and more.



Tap  in the bottom to insert the image file that needs translation.

Figure 3-6 Translate



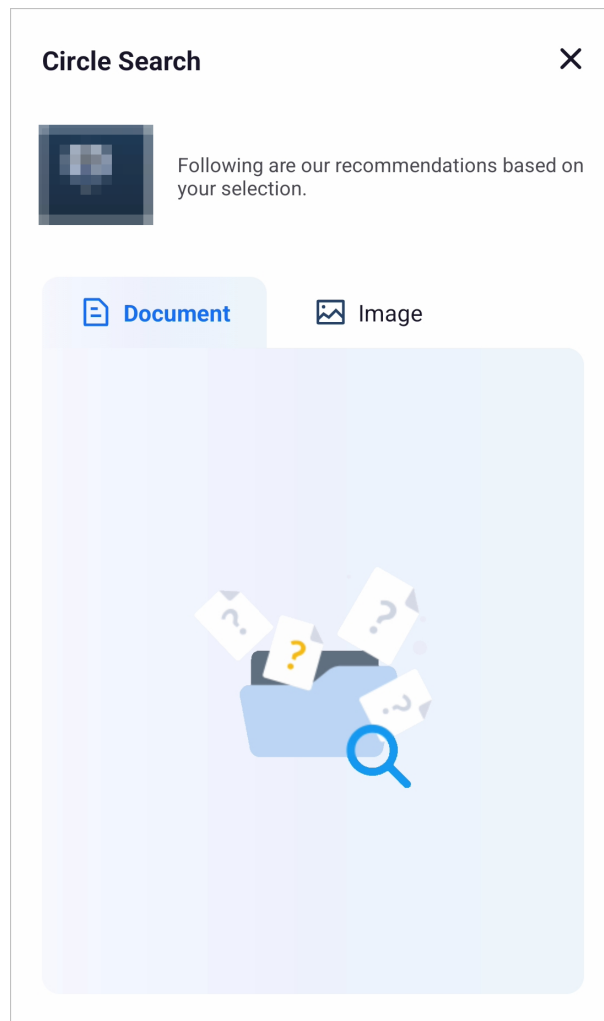
3. Tap . The LLM generates a response to the input prompt.

• Search

1. Tap the assistive touch to unfold the main features, and then tap **Search**.
2. Circle an area on the screen with either finger or stylus.

After the selection is confirmed, the captured area is sent to the LLM and the search results appear in the **Document** column which can be swiped vertically to browse. In the **Image** column, the images returned by the LLM support preview, tapping to enlarge or play them, exporting to the whiteboard and exporting as the local files.

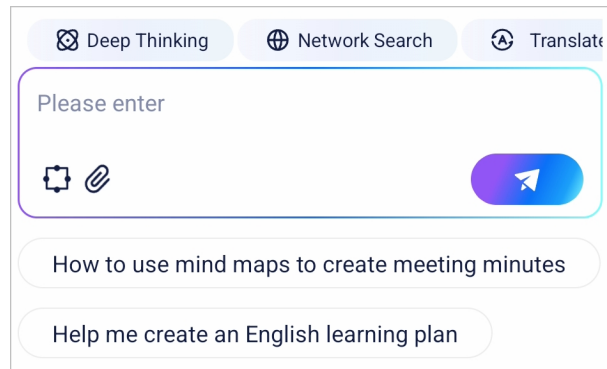
Figure 3-7 Search



• Q&A

1. Tap the assistive touch to unfold the main features, and then tap **Q&A**.
2. On the conversation page, input the prompt in the dialog box to set up a new conversation, supporting text input and voice input. Local pictures are also supported to be attached as a supplement.
 - ◇ Text input: Type your prompt into the dialog box; and then the app will send it to the large language model for analysis and return an answer. Each text message must be less than 5,000 words.
 - ◇ Picture insertion: Tap  to insert a local picture.
 - Input a custom prompt by texting, and then the model returns a response based on that prompt.
 - If no text is input, and a picture is inserted, it returns a picture recognition.
3. (Optional) You can tap **Deep Thinking** or **Network Search**, or tap them both.
 - ◇ Deep thinking: It triggers advanced internal reasoning for deeper analysis.
 - ◇ Network search: The LLM retrieves up-to-date information from the web.
4. Tap . The LLM generates a response to the input prompt.

Figure 3-8 Q&A



3.1.4 Quick Tools

Procedure

- Step 1 Tap  on the left or right side of the home screen to display the navigation bar.
- Step 2 Tap  to display the quick tools.

Figure 3-9 Quick tools

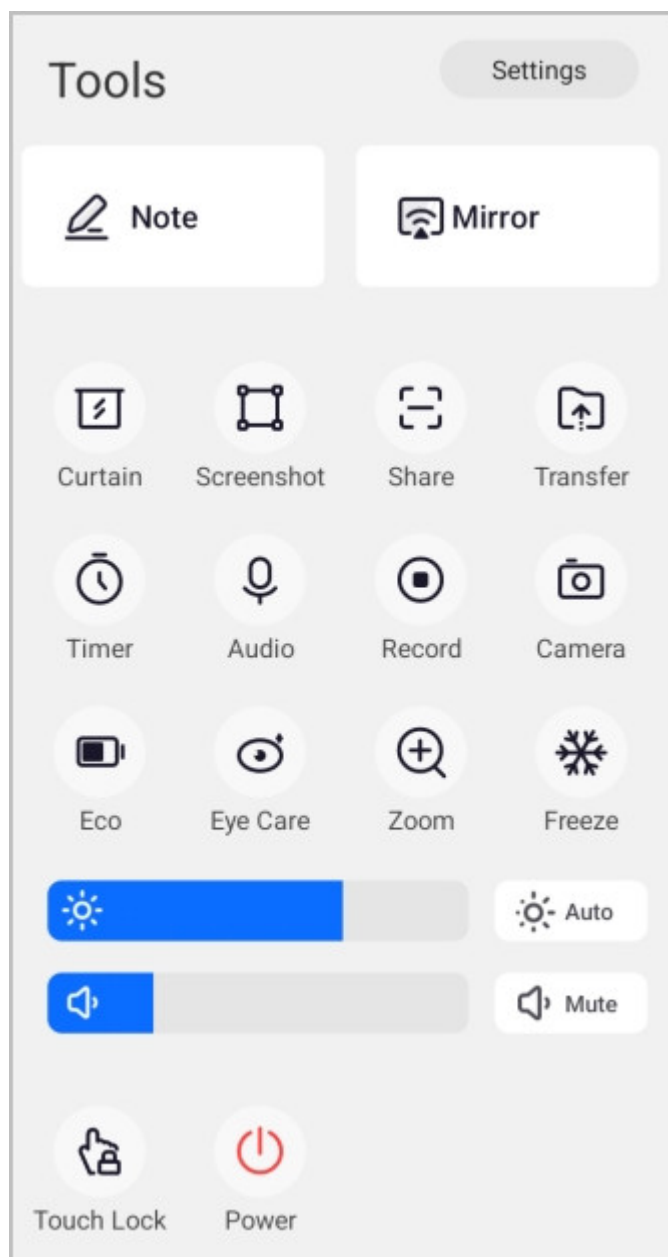


Table 3-4 Description of the quick tools

Function	Description
Settings	Go to the Settings screen. For details, see "3.8 System Settings".

Function	Description
Note	Turn on the annotation mode which supports multi-page annotation. • Tap  to select the type of pen and the size of the brush. • Tap  to clear content. ◇ Tap Erase to clear unwanted content. ◇ Tap Circle and Erase to circle unwanted content, and then erase the selected content. ◇ Tap  to clear all content on the screen. • Tap  to enable the pen and touch control feature. When the pen makes contact, it is automatically recognized as writing. When the finger makes contact, it is recognized as selection. • Tap Finish to finish the annotation on the current page and choose a new background for the next annotation. A page number will appear in the lower-right corner, which you can tap to select the annotated page. It supports sharing, saving, and exiting the annotation. • Tap Cancel to exit the annotation mode. • Tap Save, and then select the path to save your annotations. • Tap Exit to exit the annotation screen. If there is annotated content, a pop-up window will prompt you to save when exiting.  The annotation feature and the electronic whiteboard feature cannot be used simultaneously.
Mirror	Tap the icon to use the screen sharing function. You can transfer content to the whiteboard through the computer or phone.
Curtain	Tap the icon to activate the curtain mode. You can manually select the corresponding screen area to highlight as needed.
Screenshot	Tap the icon, and then the middle area is selected by default. You can drag the four corners of the square to customize the area size. • Tap , and then you can import the screenshot to the whiteboard with one tap. • Tap  to capture the full screen. • Tap  to switch the screenshot shape, supporting rectangular or hexagonal screenshots. • Tap  to cancel the screenshot. • Tap , and then the screenshot named year - month - day - hour - minute - second.jpg will be saved to the screenshot folder.

Function	Description
Share	Supports downloading the files by scanning the QR codes via either external or internal networks. - Tap the icon, and then you can select the files that you want to share.  - You can select different types of files but cannot select folders. - Multiple files are compressed into a .zip archive for transfer. - The size of the files to be shared every time must not exceed 200 MB. - Tap OK to compress 1 or more files into a zip file for transmission. The QR code will be automatically generated.  - File sharing poses a risk of data leakage. Keep the QR code safe. - When the selected files have the same name, the QR code cannot be generated.  (Optional) Encrypted the QR code: Tap  that located on the right of Share to enable the encryption for the QR code. - You can scan the QR code to download the file, or tap Reselect under the QR code to return to the file selection screen to select more files.  - The QR sharing function connects to the LAN and it displays the name and password of the whiteboard hotspot. After you connect to the hotspot, use the camera app or browser on your phone to scan the code. (Optional) When QR code encryption is enabled, the mobile device need to complete password verification (retrieve the password from the Share page of the whiteboard) before downloading files.
Transfer	Tap the icon to transfer files. - Connect your mobile phone to the whiteboard hotspot, and then scan the QR code with a camera or browser. - Select the files (the file format can be PDF, Excel, Word, and PPT), videos, or pictures, and then tap Send. - Tap Files Uploaded to check the uploaded information. And the files will be saved to File Management automatically.  - Tap  to turn on the whiteboard (only pictures supported). - Tap  to delete the file.

Function	Description
Timer	Tap the icon, and then the timer setting screen is displayed. You can start and pause the timer, set full-screen display of information on the timer, and reset the timer.  Reset is only available when the timer is paused, and it will reset to the initial state 00:00:00.
Audio	Tap the icon to display the audio recording toolbar. - Tap   to select the local microphone or Bluetooth microphone. - Tap  to start recording. If no action is taken on the toolbar within 5 seconds after the recording starts, the toolbar will automatically collapse and display the recording status icon . When the recording is finished, tap the recording status icon to expand the toolbar, tap , set the recording file name in the pop-up window, and then press Save to save the recording file. - Tap  to exit the audio recording toolbar.
Record	Tap the icon to display the screen recording toolbar. - Tap   to select the local microphone, Bluetooth microphone, or disable the microphone feature. When enabled, the screen recording will simultaneously capture the microphone audio. - Tap  to start the screen recording. If no action is taken on the toolbar within 5 seconds after starting the recording, the toolbar will automatically collapse and display the screen recording status icon . When the screen recording is finished, tap the screen recording status icon to expand the toolbar, set the screen recording file name in the pop-up window, tap , and then tap Save to save the screen recording file. - Tap  to exit the audio recording toolbar.  - Each time the screen recording feature is enabled for the first time after device startup, a prompt regarding information security will appear. You must confirm it before continuing to use this feature. - Audio recording and Screen recording cannot be enabled simultaneously.

Function	Description
Camera	Tap the icon to take a picture. - Supports countdown settings, including: off, 3 seconds (default), 5 seconds, and 10 seconds. - Tap Import Whiteboard, and then you can import the screenshot to the whiteboard with one tap. - Tap  to save the picture to the local default folder. The picture is named year-month-day-hour-minute-second.jpg by default. - Supports sharing pictures with others.
Eco	With this function enabled, the backlight is set to a lower value.
Eye Care	Enable or disable the eye care function. With this function enabled, the whiteboard will reduce the intensity of its blue light and change the screen to eye care mode.
Zoom	Zoom in to display the specific contents as needed.
Freeze	Tap the icon to freeze the current screen content. When sharing the screen, you can operate the computer while the whiteboard screen displays the same content without changing.
Brightness	Drag the slider to adjust the backlight brightness. You can tap Auto to enable the auto adjustment function. The whiteboard can automatically adjust the brightness according to the environment. For details, see "3.8.2 Configuring General Settings".
Volume	Drag the slider to adjust the volume. Tap Mute to enable mute.
Touch Lock	Tap the icon, and after the on-screen prompt appears, the touchscreen will be locked and the unlocking method will be displayed. Once you tap OK, the touchscreen will be disabled.  Press and hold the touch lock for more than 3 seconds to unlock the touch control.
Lock	Tap the icon to lock the screen. Swipe the button in the middle of the screen to unlock the screen.  The icon does not appear by default and only becomes visible after a system password has been set.
Power	Tap the icon to shut down, restart the whiteboard, or close Windows.

3.2 Electronic Whiteboard

Tap **Whiteboard** on the home screen to open the whiteboard software. You can write or draw pictures on the screen.

Figure 3-10 Electronic whiteboard

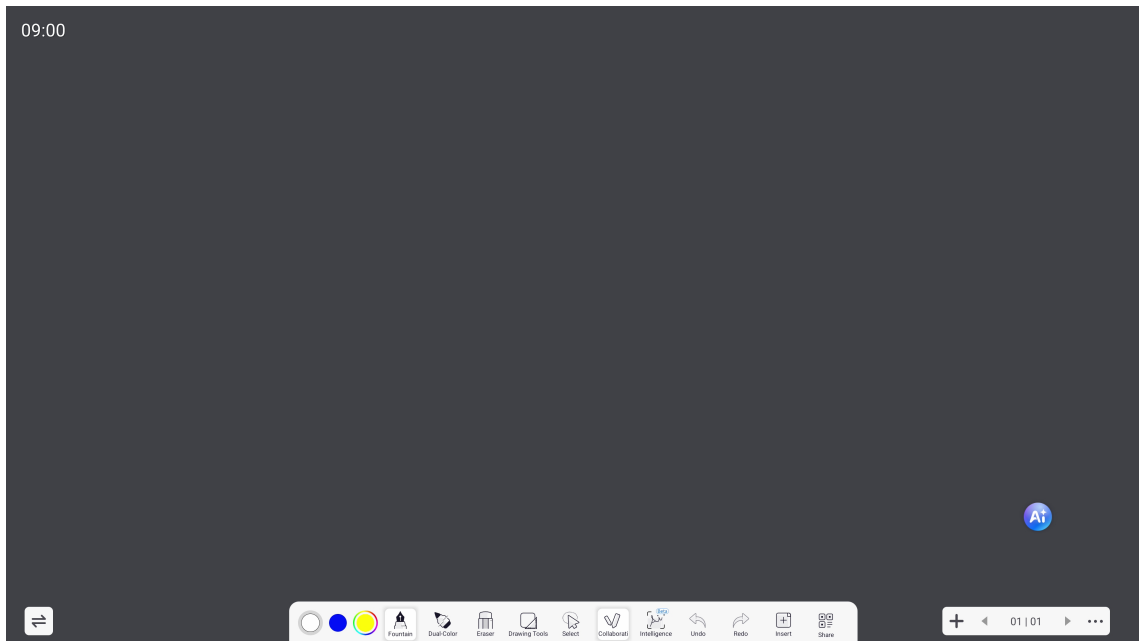


Table 3-5 Description of whiteboard icons

Icon	Description
	Adjust the location of the whiteboard tool bar.
	Select or customize the color of the pen.
	Select the type of pen and the thickness of the brush. • Oily pen: The color of the brush is white by default. • Mark pen: The color of the brush is yellow by default. • Fountain pen: The color of the brush is white by default. • Laser pen: The written content appears with a trail and disappears in 1 second. The color can be green, red, and pink.
	Select or customize the type, color, and thickness of top and bottom of pen.

Icon	Description
	Tap  to clear content. - Tap Erase to clear unwanted content. - Tap Circle and Erase to circle unwanted content, and then erase the selected content. - Tap  to clear all content on the screen.  You can press your palm on the screen, and then move your hand over the words and graphics to erase them.
	Add different drawing tools. - Plane figures: Include straight line, dotted line, arrow, triangle, circle, rectangle, and more. - Solid figures: Include cube, cuboid, tetrahedron, cone, frustum, ball, and more. - Measuring tools: Include ruler, triangle ruler, isosceles triangle ruler, protractor, and compasses.
	Select the content to zoom, move, or rotate.
	Switch between zoom mode and co-write mode. - Zoom mode: Only supports 1-point writing. You can zoom in and zoom out the canvas. - Co-write mode: - Supports up to 5-points writing simultaneously. You cannot zoom in or zoom out the canvas. - Supports writing and erasing on a canvas at the same time. To use this function, you can only write in oily pen, mark pen, or fountain pen.

Icon	Description
	Tap , a new canvas will drop down and expand.  This feature needs to be connected to the network and activated first. Supports the following smart features. ● Smart text: The handwritten content is recognized and transformed to the standard font with the color and thickness the same as the oily pen. ● Intelligent formula: Simple equations (such as addition, subtraction, multiplication and division) can be calculated by the system. ● Smart graphics: The hand-drawn graphics are recognized and transformed to standard graphics with the color and thickness the same as the oily pen. The system can recognize lines, arrows, circles, quadrilaterals, pentagrams, and more. ● Tap  to select or customize the color of the pen. ● Tap  to select the brush thickness and write. ● Erase content. ◇ Tap  to clear unwanted content by selecting different sizes of the eraser. ◇ Tap  to clear all the contents on the screen. ● Tap  to convert handwriting transformation mode (manual mode by default). ◇ In automatic mode, all handwritten texts are automatically converted to the standard font. ◇ In manual mode, tap , and then tap  to change the font after selecting text. ● Tap  to select text, move it, convert it to the standard font and generate function graphs. ◇ Select the handwritten text, and then tap  to convert handwritten font to the standard font. ◇ Select the handwritten function formula, and then tap  to generate function graphs. Supports generating up to 3 function graphs at most.  Tap and hold the graph to move it within the canvas. Pan to move the function graph. ● Tap  to move the canvas. ● Tap  to undo the previous action. ● Tap  to redo the action that has been undone.

Icon	Description
	Undo the previous action.
	Redo the action that has been undone.
	● Image: You can insert images in the .bmp, .png, .jpg, .jpeg or .gif format. Up to 10 images in total can be inserted and each one should be no more than 5 MB. ● Online image: You can tap Online Image to search and insert online images.  ◇ Only supports inserting up to 10 images. ◇ The inserted image is in the center of the canvas by default. ● Local videos: Videos will be stacked in order of dislocation. ● Online videos: You can tap Online Videos to search and insert online videos.  ◇ Only supports inserting up to 10 videos. ◇ Supported formats include .avi, .rmvb, .rm, .mp4, .3GP, and .mov. ◇ The inserted video is in the upper-left center of the canvas by default. ● Audio: Supports inserting local audio files. ● Table: The default table layout is 3 × 3. The table supports up to 12 columns and 12 rows. ● Mind map: Insert a horizontal or vertical mind map. ◇ Level 1 title: Supports adding subtitles in vertical or horizontal directions. ◇ Level 2 title: Supports adding subtitles in all four directions (top, bottom, left, or right). ● Text: Tap Text to add an editable text area on the current whiteboard page. This feature supports basic formatting of text content and allows you to delete inserted text boxes.  Deletion cannot be undone. Please be advised.
	Tap the icon to generate a QR code, and then you can scan the QR code to view or download the file.
	Add a whiteboard page. You can add up to 50 pages.
	Tap  to preview the saved file list. Tap the file to edit. When you have created several files, tap  or  to switch to the previous or next file. You can browse the thumbnail of the switch page.

Icon	Description
	Tap the icon, and then you can perform the following operations. • New : Create a new whiteboard file. Remember to save your content before creating a new file, or else you will lose all your changes. • Open : Open the saved writing file. Only the whiteboard file format can be opened. After you tap Open, the system will go to the whiteboard file column on file manager screen. • Change Background : You can use a local background template or custom template.  The custom template only supports images in .bmp, .png, .jpg and .jpeg formats. The image size is limited to 5 MB. The recommended image ratio is 16:9. • Save : Save the file. The default name of the file is year-month-day-hour-minute-second. You can customize the file name. The file format can be .wbh (source file format), .pdf, .png and IWB. The source file format is used by default. • Save as : Save as a new file. The default file name is year-month-day-hour-minute-second. The file format can be .wbh (source file format), .pdf, .png and .iwb. The source file format is used by default. • Share by Email : To use this function, you need to configure the email information first. • Exit : Exit the whiteboard app.  Remember to save your modifications before exiting, or you will lose all your changes.

3.3 File Management

On the home screen, swipe up from the taskbar to bring up the application list, and then tap **File**.

You can also tap  > **File** to manage cloud files and local files, such as the whiteboard files, images, documents and more.



- Tap and hold a file or folder to select the file or folder.
- Double-tap a file or folder to open the file or folder.

Figure 3-11 File management

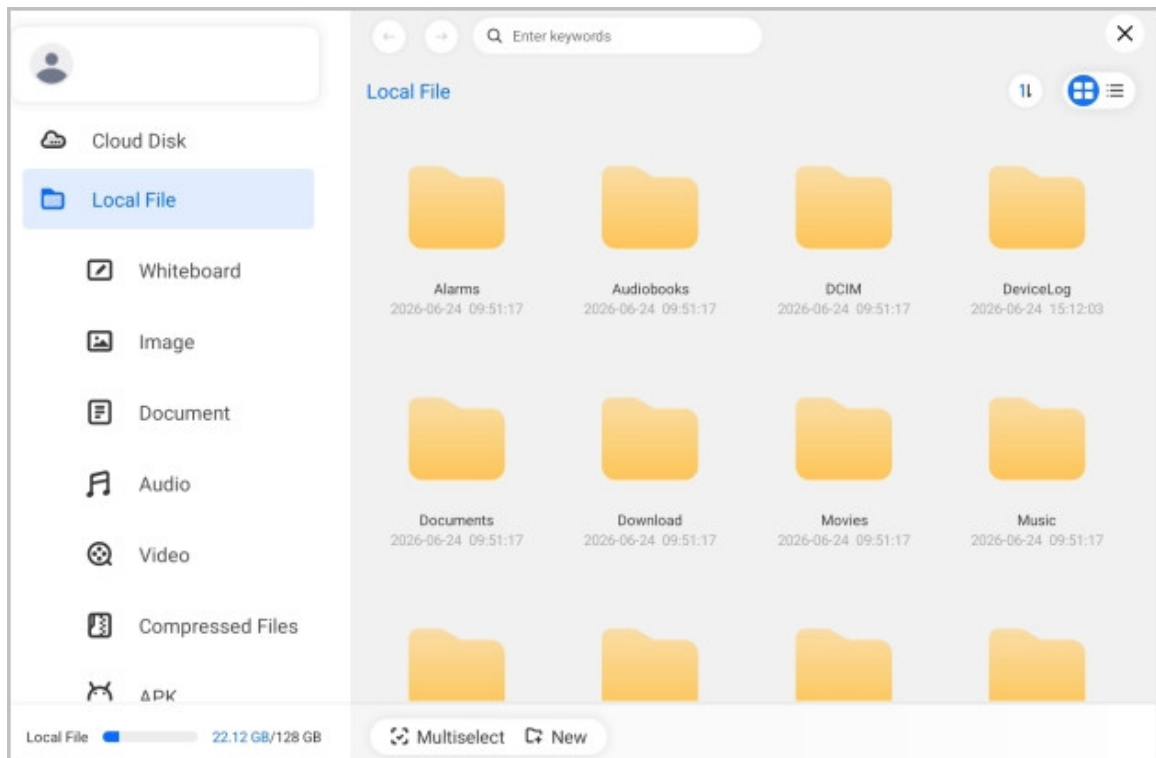


Table 3-6 Description of file management icons

Icon/Parameter	Description	
Cloud Disk	Supports saving files to Google Drive or OneDrive.	
 / 	View local files on the previous or next screen.	
	Enter keywords to search for files.	
 	Displays files in thumbnail or list format.	
	Sort files in ascending or descending order by name, size, or time.	
Multiselect	You can select multiple files or all the files.	These functions are at the bottom of the file management page.
New	Create a new folder.	
Copy	Select a file or folder, tap Copy or Cut , and then tap Paste to paste the file or folder.	
Cut		
Paste		
Delete	Delete files or folders.	
Rename	Rename the files and folders. You cannot change the file name extension.	
Send	Send the selected information through Bluetooth.	

3.4 Screen Sharing

You can remotely control the whiteboard on the phone, computer, or tablet, and project the content to the whiteboard screen.

On the home screen, select **ScreenSharing**, or bring up the navigation bar and select **Quick Tools** > **Mirror** to display the main page of screen sharing.

Figure 3-12 Screen sharing

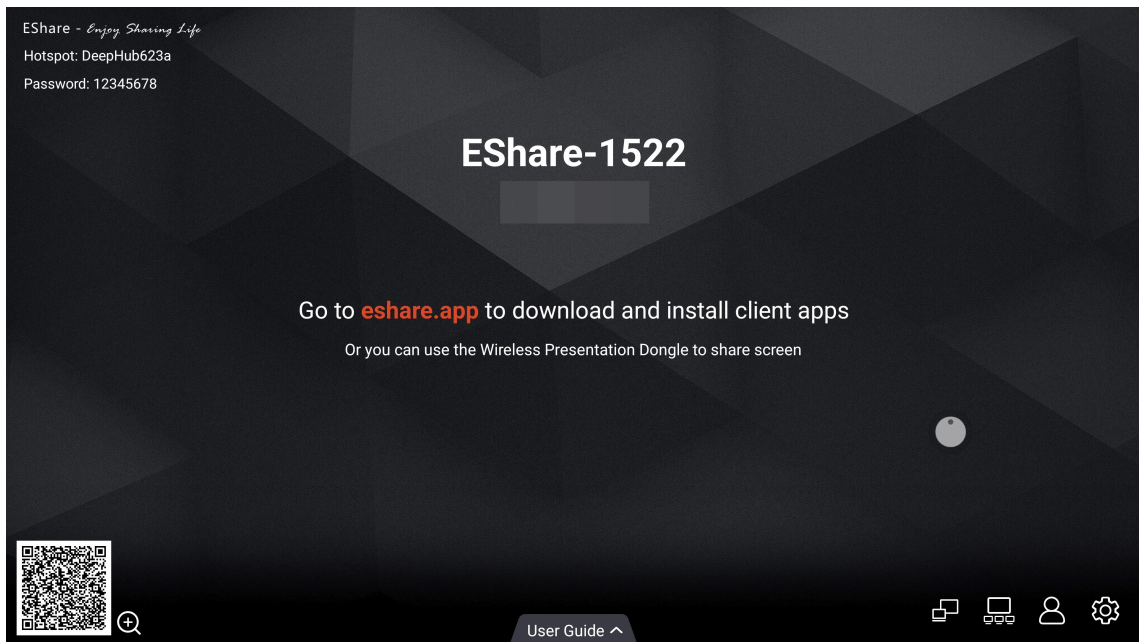


Table 3-7 EShare description

Item	Description
Current network	Displays the network currently connected to the device. When it is connected via wired connection, show Ethernet . When it is connected to Wi-Fi, show the SSID. If there is no network connection but a hotspot is available, display the hotspot SSID and password. If there is no connection at all, display the device name.
Device name	Displays the device name when it is connected via screen mirroring from a client. If the screen mirroring connection method is set to connection code, the connection code will be displayed here, and the device name will be moved to display below the current network.
IP	Displays the IP address of the current device. If there is no network connection and the hotspot is also turned off, a prompt will display No Network Connection .
Sharing reminder	Constantly displays a prompt to guide users on how to share screen, including where to download the client applications, and displays the corresponding screen sharing prompt based on the screen sharing connection method configured by you.

Item	Description
QR code	Includes the download address for the client application and the network information of the device. Scanning the QR code with a mobile browser or camera will directly access the eshare.app page for convenient download of the client application. Scanning the QR code with a mobile client can directly search for and connect to the current device for screen sharing. Tapping the icon  can enlarge the QR code.  Before screen sharing, the mobile phone and the device must be on the same local network.
User guide	Tap the icon to see the user guide on how to use EShare.
	Enable WebCast so that you can use a browser to share the screen without the help of the EShare app.  This feature can only be used normally when the device is connected to the public network.
	Group settings. ● Duplicate displays. ◇ Enable: Duplicate your screen to all other devices in the display group. ◇ Only valid in client screen sharing: Only when you share the screen of your phone or other devices using the client, the screen is mirrored to other devices in the group. ◇ Disable: Stop duplicating your screen to the devices in the group. ● Invitation for joining display group. ◇ Auto-accept: Other devices can duplicate their screen to your screen without any permissions. ◇ Notify me: The system will prompt you when you receive an invitation for joining a display group. ◇ Disable: Refuse to join any display groups. ● Device list: Displays the names and IP addresses of other devices on the same local network. The current device acts as the host of the screen group, and the selected devices, acting as clients, will synchronously display the host's screen content based on the configuration.

Item	Description
	Moderator control center. ● Share screen or files. ◇ All allowed: You can project the screen or send files from your phone or other devices to the whiteboard without further authorization. ◇ Need authorization: The system will ask for authorization when you project the screen or send files from your phone or other devices to the whiteboard. ◇ Disable: You are not allowed to project the screen or send files from your phone or other devices to the whiteboard. ● View, control and wireless annotation. ◇ Allowed: You can view and control the whiteboard screen and make annotations from your phone or other devices. ◇ View only: You can view the whiteboard screen from your phone or other devices but cannot control the whiteboard or make annotations. ◇ Need authorization: The system will ask for authorization to view and control the whiteboard screen and make annotations from your phone or other devices. ◇ Disable: You cannot view and control the whiteboard screen and make annotations from your phone or other devices. ● Floating moderator button. ◇ Always display: The floating moderator button appears on any screen. You can tap the button to go to the moderator control center. ◇ Only on Home screen: The floating moderator button appears only on the home screen. ◇ Disable: Hide the floating moderator button. ◇ Auto: The floating moderator appears when the whiteboard is connected to the phone or other devices. You can view the number of connected devices.

Item	Description
	Display settings. ● Device Name: You can customize the device name. ● Connection Mode: Configure the connection mode for screen sharing. By default, devices are connected by selecting the device name. For details, see "3.4.1 Sharing Screen through Client". ● Device name floating window: It is disabled by default. When enabled, it displays in the upper right corner of the device screen according to the selected connection mode mentioned above, allowing you to directly see the screen sharing connection mode in any scenario for convenient screen sharing. The floating window supports horizontal movement along the top of the screen. ● Multiple Screens: Select Disable , 2 Screens, 4 Screens, 6 Screens, or 9 Screens. ● BYOM camera: It is disabled by default. When enabled, it can be used in conjunction with a Type-C screen sharing adapter or the latest PC version of the screen sharing software client, allowing direct access to the device's camera, microphone, and speaker on a PC. ● Show Device Name on Screen: Show the name of the devices connected with the whiteboard. ● Auto Fullscreen: The screen of the connected device covers the full screen of the whiteboard even though the screen aspect ratios of the whiteboard and the connected device are different. ● AirPlay Visible: Allow iOS and macOS devices on the same network with the whiteboard to share screen without installing the EShare app. ● Miracast: It is disabled by default. When enabled, it will first check whether the device's Wi-Fi function is turned on. If not, a prompt will appear to turn on Wi-Fi. After that, smartphones or Windows computers that support the Miracast protocol can search for and directly projected to this device.  ◇ Android devices can use Miracast through the built-in wireless screen sharing function. ◇ Windows devices can check for Miracast support by pressing the Windows key and the K key simultaneously. ◇ If the device is discoverable but cannot be connected, try enabling compatibility mode. ● GoogleCast: It is disabled by default. When it is enabled, computers on the same local network as the device can use the feature in the Chrome browser to share their screens. The available sources for casting include browser tabs, application windows, and the desktop. Other devices with the ChromeCast operating system can also use this feature to share their screens to the whiteboard, provided they are on the same local network.

3.4.1 Sharing Screen through Client

After sharing the screen between the whiteboard and your phone or other devices such as tablets, you can project content from the phone or other devices to the screen of the whiteboard and control the whiteboard on your phone or other devices.

Procedure

- Step 1** Visit eshare.app to download and install the client corresponding to your system. Supported systems include Windows, macOS, iOS, Android, and Chrome.
- Step 2** Ensure that the whiteboard and the screen-sharing device are on the same local network. The following 3 connection methods are supported:
- The screen sharing device and the whiteboard are connected to the same Wi-Fi network.
 - The screen sharing device connects to the hotspot of the whiteboard. The whiteboard can be connected to the internet or not.
 - The screen sharing device connects to Wi-Fi, while the whiteboard connects to a wired network that is part of the same local network as the Wi-Fi.
- Step 3** Configure the connection method for screen sharing. The default method is connecting by device name.
- Connecting by device name
When using a mobile phone or other device for screen sharing, you can directly connect by selecting the device name. The password is disabled by default and can only be configured when the connection method is set to device name.
Once it is enabled, the client must enter the password to connect to this device. After enabling the password, the app will automatically generate a 6-digit random number, which can be manually modified and refreshed. You can also set the automatic refresh interval, which defaults to 10 minutes. Options include disabling the refresh, 10 minutes, 30 minutes, 1 hour, and 1 day.
 - Connecting by PIN Code (6 digits)
After it is enabled, the system will automatically generate a 6-digit PIN code.
When using a mobile phone or other device for screen mirroring, you must first enter the correct 6-digit PIN code. Manual and automatic refresh options are supported. The default automatic refresh interval is 10 minutes, and options include disabling the refresh, 10 minutes, 30 minutes, 1 hour, and 1 day.
 - Connecting by PIN Code (8 characters)
After it is enabled, the system will automatically generate an 8-character PIN code. When using a mobile phone or other device for screen sharing, you must first enter the correct 8-character PIN code. Manual and automatic refresh options are supported. The default automatic refresh interval is 10 minutes, and options include disabling the refresh, 10 minutes, 30 minutes, 1 hour, and 1 day.

3.4.2 Sharing Screen through Software Protocol

Through the common screen sharing software protocols for mobile phones and computers, you can directly project the screen content onto the whiteboard's screen for display.

You can select the appropriate connection method based on the actual situation of your device:

- Miracast: Enable Miracast, and Android phones and some laptops can directly share their screens using the built-in screen sharing feature.

- Airplay: It is enabled by default, allowing iOS devices to directly share their screens using the default screen sharing feature.

3.4.3 Sharing Screen through Wireless Presentation Dongle

After sharing the screen between the computer and whiteboard, you can project content from the computer to the screen of the whiteboard and control the whiteboard on your computer.

Prerequisites

- The whiteboard and your computer are on the same LAN network and the hotspot of the whiteboard has been enabled.
- Get a compatible wireless presentation dongle. It does not come with the whiteboard. Purchase it as needed.

Procedure

Step 1 Pair the wireless presentation dongle with the whiteboard.

1. Tap **Screen Sharing** on the Android home screen of the whiteboard.
2. Insert the wireless presentation dongle into the USB port on the front panel of the whiteboard.

The wireless presentation dongle starts pairing with the whiteboard.

3. Wait until the system prompts successful pairing.
4. Tap **OK**.

Step 2 Project content from your computer to the whiteboard.

1. Connect the wireless presentation dongle to the USB port of your computer.



For the first-time use, you might need to install the driver of the wireless presentation dongle. The installation might take a while. If installation failed, download the driver manually and then try again.

2. Press the button on the wireless presentation dongle to project content from your computer to the whiteboard.



Type-C presentation dongle supports the BYOM (Bring Your Own Meeting) function. After successfully pairing with the whiteboard, the laptop can use the dongle to access the camera, microphone, and speaker of the whiteboard.

Figure 3-13 Sharemax (Type-C mode)

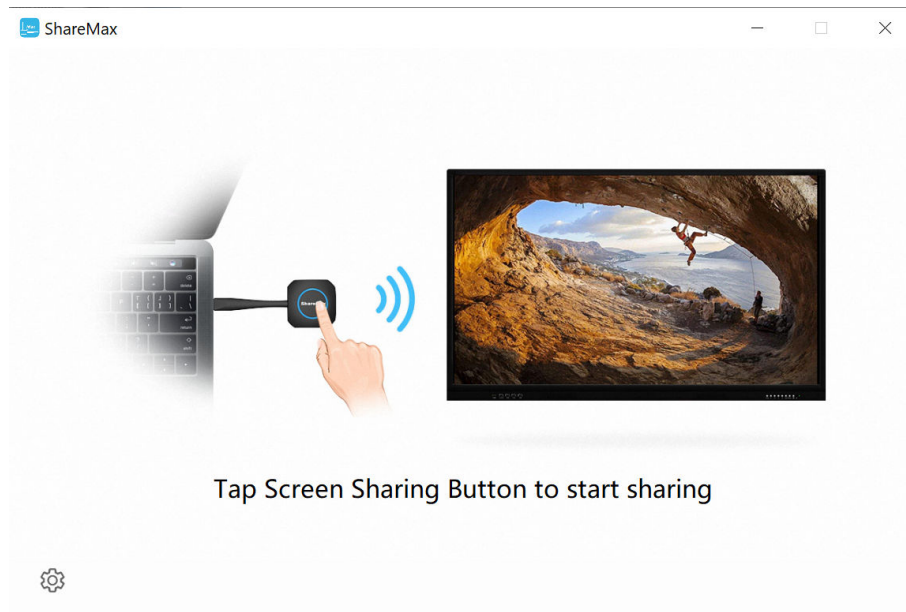
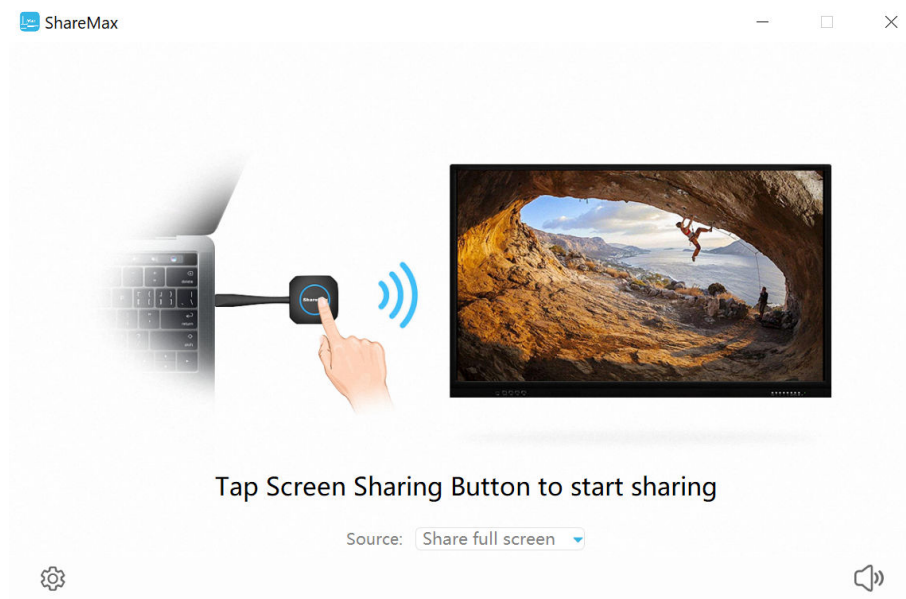


Figure 3-14 Sharemax (USB mode)



3.5 Welcome Page

Prerequisites

Import the media such as images and audio files used to create the welcome page.

Procedure

- Step 1** On the home screen, swipe up from the taskbar to bring up the application list, and then tap **Welcome Page**.
- Step 2** Tap **Settings** on the lower-left corner to configure the welcome page.

Figure 3-15 Configure the welcome page

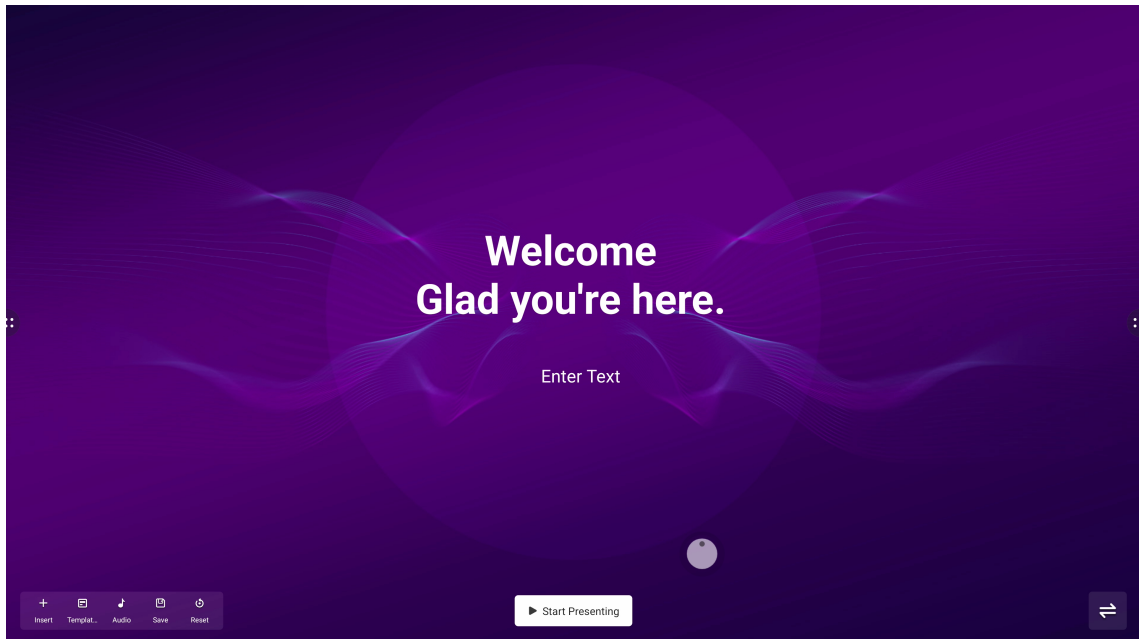


Table 3-8 Icon description

Items	Description
	Change the position of the toolbar.
Insert	Insert a background image or other images and text. Up to 10 images can be inserted and each one should be no more than 5 MB.
Template	You can use local background template or custom template. Up to 10 custom templates can be inserted.
Audio	Insert audio. Up to 10 audio clips can be inserted.
Save	Save your configurations.
Reset	Restore the welcome page to the default template.
Start Presenting	Shows the presentation effect of the welcome page.

Step 3 Tap **Save**. You can swipe left on the home screen to view the welcome page.

3.6 Self Check

On the home screen, swipe up from the taskbar to bring up the application list, tap **Self-Check** > **Scan**, and then wait for a while. The system shows the results.

Figure 3-16 Self check result

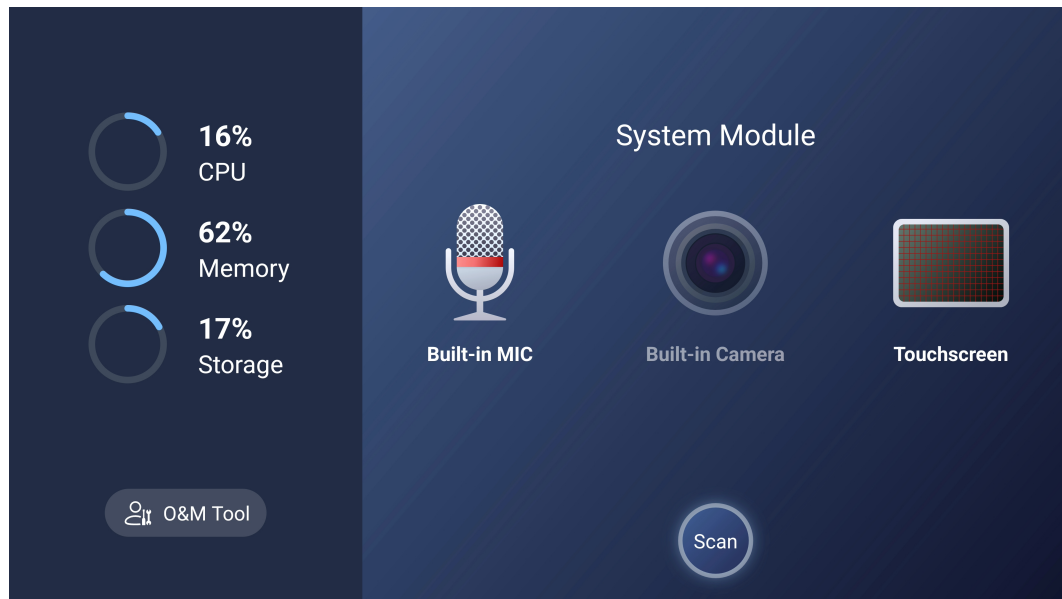


Table 3-9 Description of function

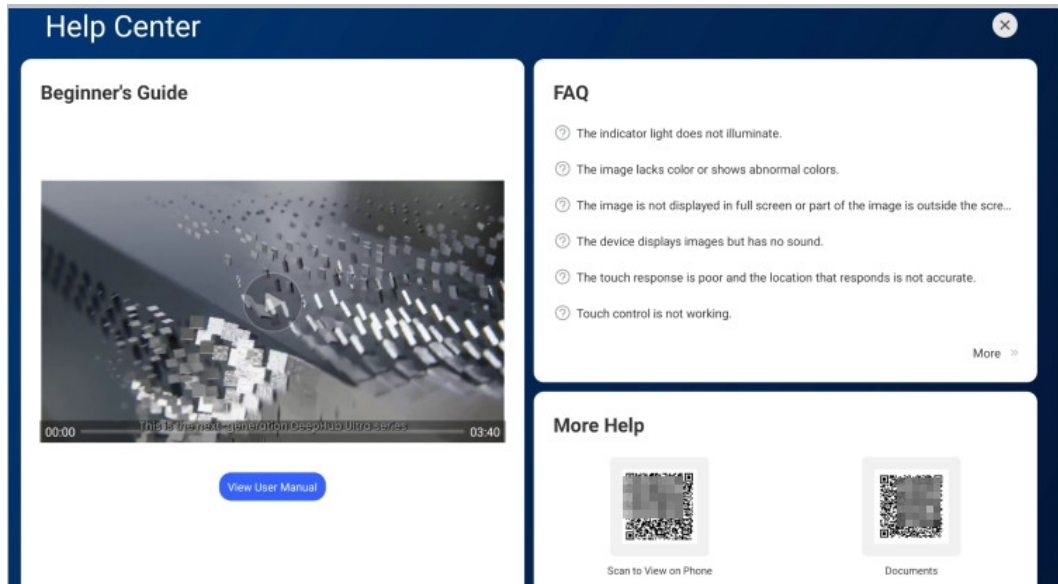
Parameter	Description
Scan	Tap it, and then wait for a while. The system shows the results.
Log management	Get device logs: Tap Get Log to obtain the device log which would be saved into the local files.
Hardware detection	Tap Hardware Detection to check the status of the Wi-Fi module, the Wi-Fi AP module and the Bluetooth module.
Activate license	Tap Start Check to check the software license status of E-share and myscript.
Device info	Displays the related information of the device, including SN, MAC, HWID and HDCP_KEY. You need to get permission from the manufacturer to view this page. Tap Manufacturer Code to enter the manufacturer code, scan the displayed QR code and verify the domain password to receive the authentication code, and then enter the authentication code.  You can use the authentication code within 24 hours. However, the session will expire every hour.
Runtime	Displays the actual runtime of the whiteboard.

3.7 Help Center

Swipe up from the taskbar to bring up the application list on the home screen, tap **Help Center**, and then you can view the content of **Beginner's Guide**, **FAQ** and **More help**.

- When the whiteboard is connected to the Internet, you can tap **View User Manual** under **Beginner's Guide** and **More** under **FAQ** to see more content.
- Scan the QR code of **Scan to View on Phone** to access the Help Center page on your phone.
- Scan the QR code of **Product Material** to learn about more product information about the whiteboard.

Figure 3-17 Help center



3.8 System Settings

Configure network settings, general and advanced settings, and other system settings.

3.8.1 Configuring Network and Bluetooth Connection

On the home screen, swipe up from the taskbar to bring up the application list, and then tap . You can also tap  > **Settings** to configure the network, email, and Bluetooth.



You can enable wireless network or wired network. Wireless network and wired network cannot be enabled at the same time. The whiteboard itself can also act as a hotspot to share network connection with other devices.

The Wi-Fi, hotspot, and Bluetooth modules of the whiteboard are plug-in type. The 3 connection methods are unavailable before the modules are inserted.

Figure 3-18 Configure network

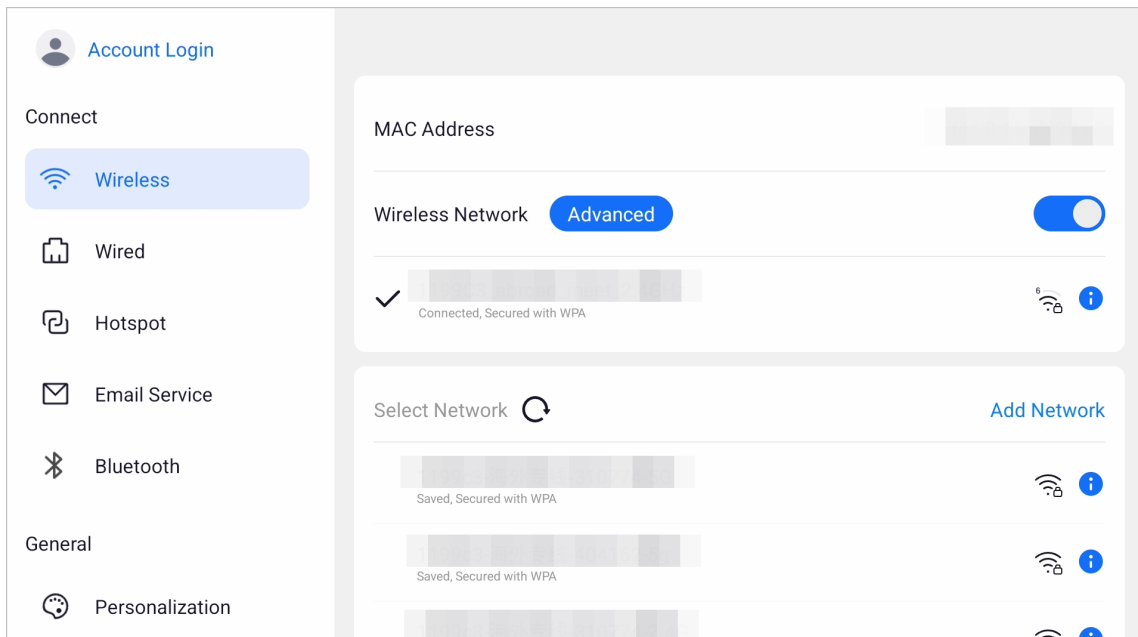


Table 3-10 Description of connection parameters

Parameter	Description
Account Login	Log in to your DeepHub account with your mailbox. It also supports signing up with Google or Microsoft. Tap the QR code icon in the bottom right corner of the screen, scan the QR code, and then log in to your DeepHub account on your phone.  The QR code for logging in on your phone requires network connection.
Wireless	Enable Wireless Network, and then the whiteboard can connect to an available Wi-Fi network in the area. To add a wireless network, tap Add Network, enter the SSID network name and password, and then configure advanced settings as needed.  - You can tap Advanced to install certificate. - We recommend that you select a secure authentication method to connect to a wireless network.
Wired	Configure wired network connection parameters. IPv4 and IPv6 are available. DHCP: When there is a DHCP server on the network, you can enable Wired, and then the whiteboard gets a dynamic IP address automatically. Static: Set IP address, subnet mask, default gateway and DNS manually for the whiteboard.
Hotspot	Enable Hotspot, configure the network SSID and then enter the password. You can view hotspot name, hotspot password, encryption method, frequency band and other information.

Parameter	Description
Email Service	Enable Email Service , configure relevant parameters, and then you can send whiteboard file through the email. Gmail and Outlook are supported. You can also tap Other to log in with other mailboxes.
Bluetooth	Enable Bluetooth , and then the whiteboard can connect to an available Bluetooth in the area. Supports connecting wireless audio device, keyboards and more.

3.8.2 Configuring General Settings

On the home screen, swipe up from the taskbar to bring up the application list, and then tap . You can also tap  > **Settings** to configure the general settings.

Figure 3-19 General settings

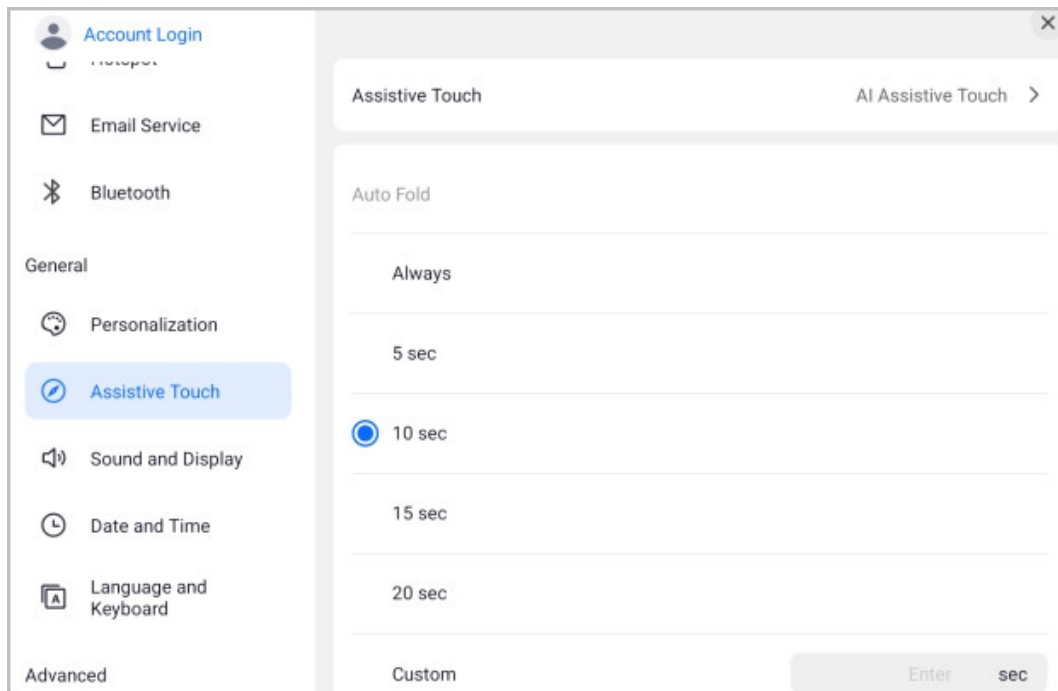


Table 3-11 Description of general settings

Parameter	Description
Personalization	- Set the background image. - The system provides 8 wallpapers by default. - You can also customize and upload wallpapers. The recommended image ratio is 16:9. - Multi-window mode: Enable the mode, and then the application page supports zooming in, zooming out, and exiting.  Enabling or disabling the feature will need device reboot. - The Key Shortcut option can be used in conjunction with the custom button located at the bottom right of the device. For example: - Tap Key Shortcut, select Eco, and then tap OK. - Press the custom button at the bottom right of the device. The screen will display the corresponding Eco function.
Assistive Touch	- Close: Tap Close, close the assistive touch function. - Default: Tap Default, only enable for the default assistive touch. - AI Assistive Touch: Tap AI Assistive Touch, only enable for the AI assistive touch.  After you enable the assistive touch, you can set the time of fold the default or AI assistive touch.
Sound and Display	- Adjust the level of volume. If the volume is 0, a mute sign will be displayed at the lower left corner of the screen. - System sound prompt: You can use the default audio or external audio. You can add up to 10 external audio files with each file smaller than 500 KB. - Brightness can be adjusted manually in the range of 1-100 or automatically according to the ambient brightness.  In eco mode, you cannot adjust the brightness or enable Auto Brightness. - Image mode: You can select Color Mode or Professional Mode. - Color temperature: You can select Warm, Default or Cool.
Date and Time	Set the date and time automatically or manually. You can configure the format of the time, date and time zone. With Auto Sync Time enabled, the system time is synchronized with the server time. When it is disabled, you need to manually set the date and time.
Language and Keyboard	Select the language and the input method of the whiteboard.

3.8.3 Configuring Advanced Parameters

On the home screen, swipe up from the taskbar to bring up the application list, and then tap . You can also tap  > **Settings** to configure the advanced parameters.

Figure 3-20 Advanced parameters

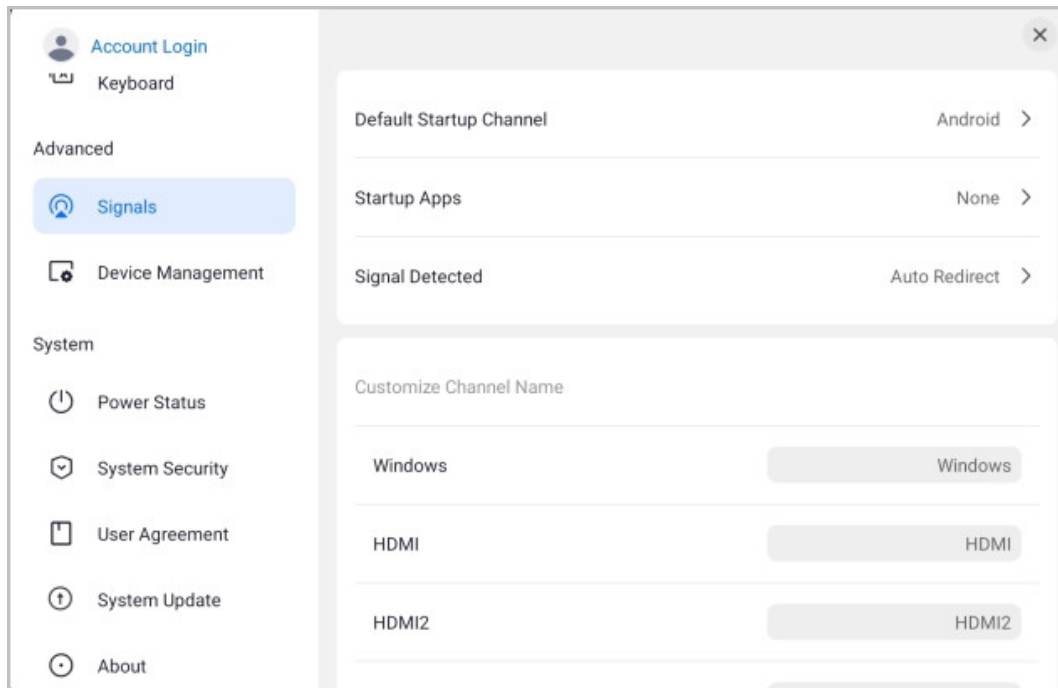


Table 3-12 Description of advanced parameters

Parameter	Description
Signals	● Default Startup Channel : Select the channel to be enabled at startup. ● Startup Apps : Select an application that is on the whiteboard to be opened every time the system starts. ● Signal Detected : ◇ Auto Redirect : Connect to the signal source and automatically redirect to the corresponding channel. ◇ Pop-up Window : When a signal source is connected, a pop-up window appears asking whether to jump to the connected source channel. ● Customize Channel Name : Customize the channel name. After the name is modified, the corresponding channel name of the whole system will be modified synchronously.

Parameter	Description
Device Management	- Supports viewing and configuring the information of camera, microphone, and speaker. Pick-up Pen Detection : After you enable the function and pick up a stylus pen from the pen attaching area at the bottom of the whiteboard, the system pops up a window and prompts you to open electronic whiteboard or enter annotation mode.  The system does not give pick-up pen prompt during the setup wizard, update or under split screens. RS-232 Control : With RS-232 Control enabled, you can connect the whiteboard to the RS-232 transparent debugging serial port for data transmission between devices. NFC : With NFC enabled, you can tap Card Management. You can choose Unlock Screen or Account Login according to your needs. Module Update : Displays device firmware version update information.

3.8.4 Configuring System Parameters

On the home screen, swipe up from the taskbar to bring up the application list, and then tap . You can also tap  > **Settings** to configure the system parameters.

Figure 3-21 System parameters

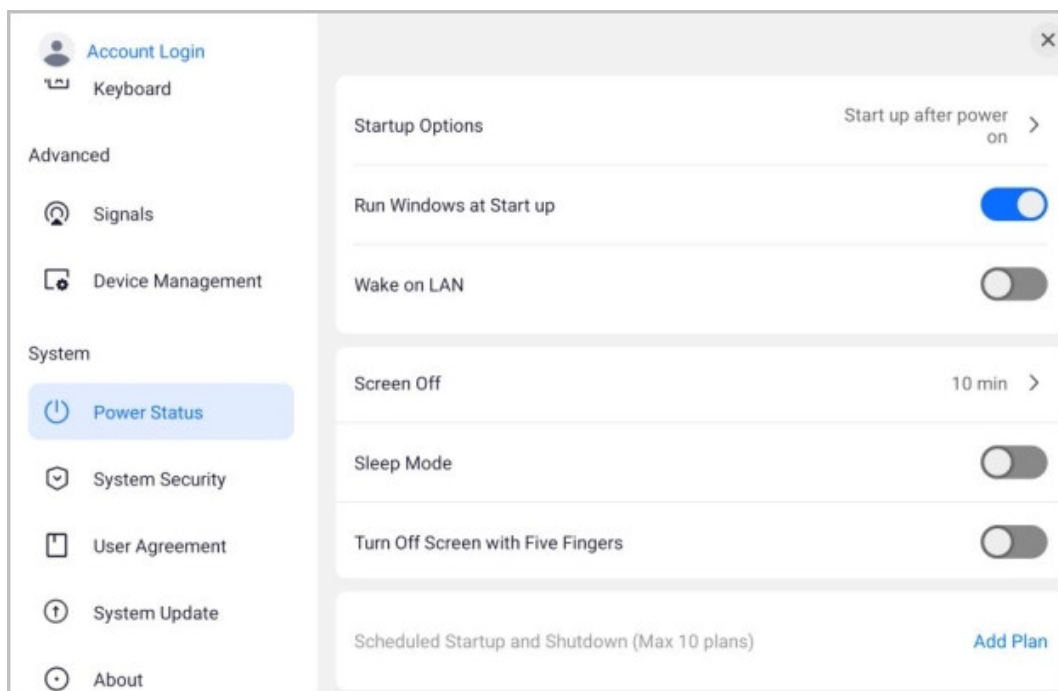


Table 3-13 System parameter description

Parameter	Description
Power Status	Configure the startup and shutdown functions of the whiteboard. ● Startup Options : Select standby after power on or startup after power on (default). ● Run Windows at Start up : After you enable this feature, the whiteboard automatically runs the Windows system at start up. ● Wake on LAN : After you enable this function, you can remotely wake up or power on the whiteboard through the network, without having to physically operate it.  The feature will be disabled once the device enters sleep mode. ● Screen Off : Offers always on, sleep after 10-minute inactivity and no operation after 1 minute, 5 minutes, 10 minutes and other options.  Screen-off settings leverage the native Android system's display power management configurations. ● Sleep Mode : Once this mode is enabled, the device will enter a low-power state upon shutdown and can only be powered on using the physical power button.  ◇ Sleep Mode is turned off by default. ◇ This feature cannot be enabled simultaneously with RS232 control and wake on LAN. ● Turn Off Screen with Five Fingers : With this function enabled, you can simultaneously touch the screen with five fingers to quickly turn off the screen. ● Scheduled startup/shutdown: Tap Add Plan to set when to automatically power on and off the system. Tap  to delete the plan.  You can add up to 10 plans.

Parameter	Description
System Security	 If you have set a password during the initialization, you will need to enter the password for verification when accessing the System Security option, and then tap verify to confirm. If no password has been set, you can directly open the page without verification. • Tap Factory Settings, and all your operation records and saved content will be deleted. The whiteboard will also be restored to its factory settings. • Enable NFC, follow the instructions on the screen to add the NFC card, and then you can use the authorized NFC card to unlock the whiteboard.  ◇ NFC is turned off by default. ◇ Before enabling the NFC function, if a password has been set, enter it for verification. If no password has been set, you need to set a password first, then return and enable the NFC function. • NFC Card Database : Tap Manage to add NFC cards or manage NFC cards that are already bound to the whiteboard. • Screen Lock Settings : The lock screen settings are consistent with the Android system. For example, the password you set will also apply to the lock screen. You can select None, Swipe, Pattern, PIN or Password according to your needs. • USB Permission : To enable the permission to access the USB drive functions. After you enable the feature, the whiteboard will prohibit the read and write functions of USB drives.
User Agreement	View the privacy statement, software license agreement, and open source statement.
System Update	View the current system version. When the whiteboard is connected to network, enable OTA Platform , and then tap Check for Updates to check whether there is a new version available. • Auto Download : Enable the feature, and the whiteboard would automatically download the packages and apps. • Auto Install : Enable the feature. The whiteboard would automatically install the update packages and restart during the time period you set.  The whiteboard must be connected to the network before you enable the 2 features mentioned above.
About	View MAC address, device serial number, device name (can be edited), running memory, storage space, resolution, system version, Android version, and security baseline version.  The device name can consist of up to 31 characters and contain letters, numbers, and the special character (_).

3.9 DHRooms

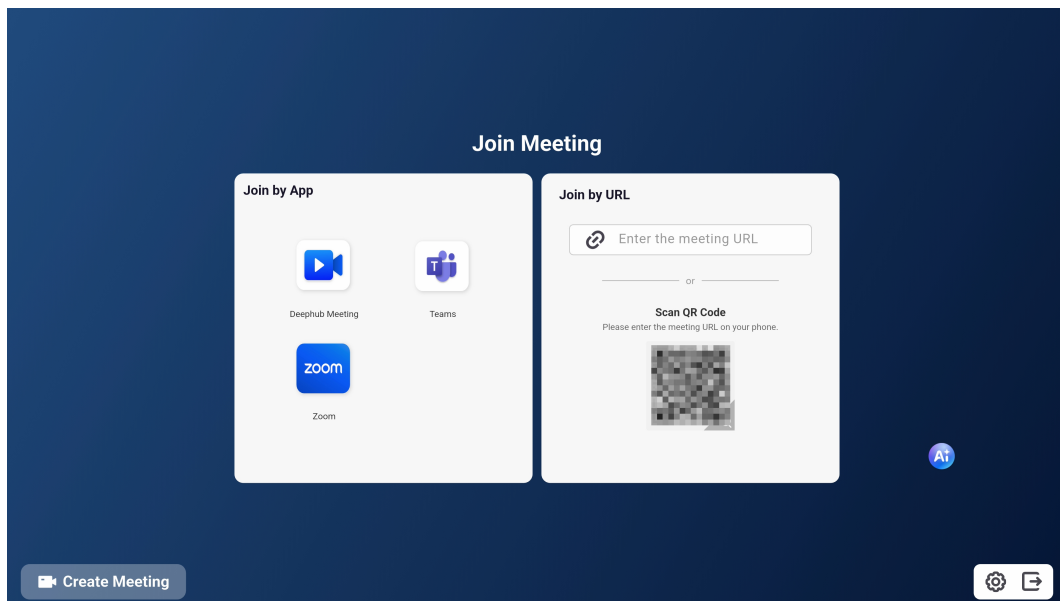
Prerequisites

Teams and Zoom must be downloaded and installed by users on their own.

Procedure

- Step 1 On the home screen, swipe up from the taskbar to bring up the application list.
- Step 2 Tap **DHRooms** to open the DHRooms page.
- Step 3 Select the appropriate video conferencing software.

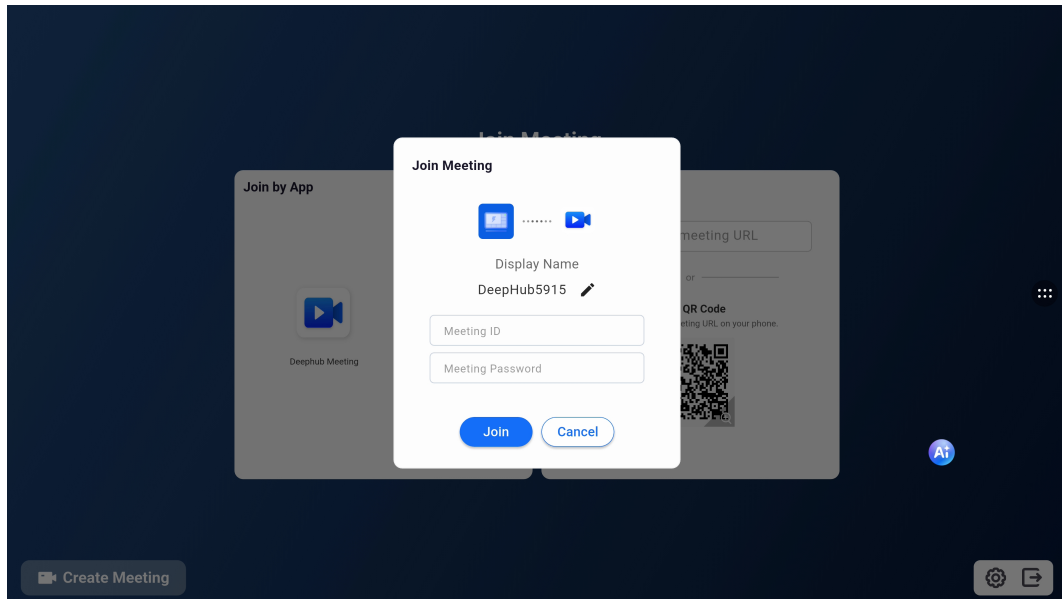
Figure 3-22 DHRooms



- Join by App: **Deephub Meeting** , **Teams** or **Zoom**.
- Join by URL.
 - ◇ Enter the meeting link number to quickly join the meeting.
 - ◇ Scan the QR code with the mobile phone, and then enter the meeting link number to quickly join the meeting.

- Step 4 Set required information.

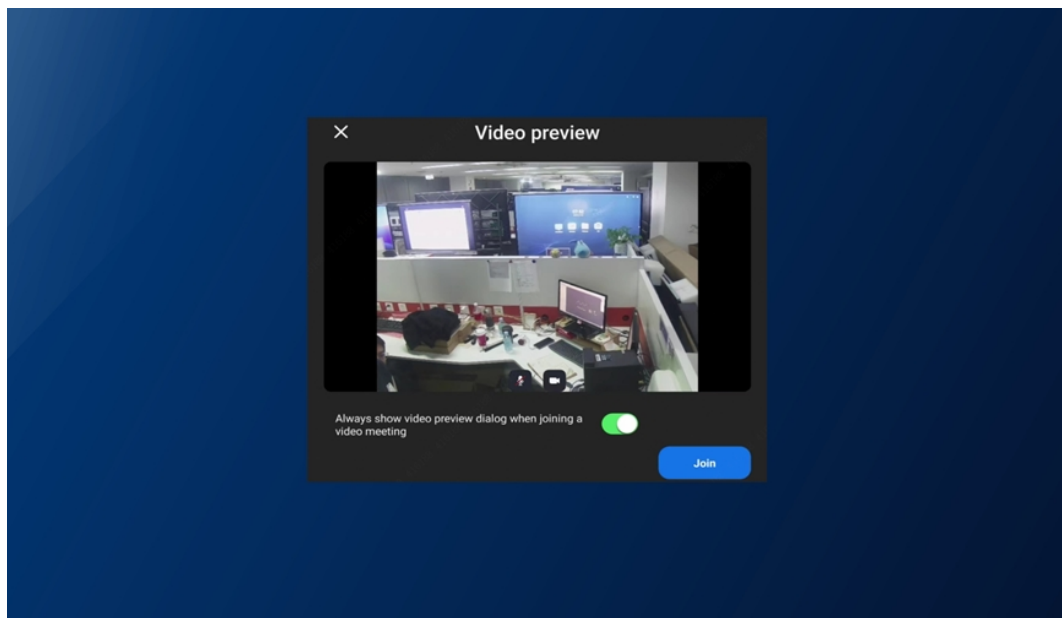
Figure 3-23 Setting



- **Display Name** : Use the system default name, or customize the meeting name.
- **Meeting ID** : Enter the meeting link number.
- (Optional) **Meeting Password** : Enter the meeting password.

Step 5 Click **Join** to join the meeting.

Figure 3-24 Video preview



- If meeting software has been installed, after you join the meeting, it will directly start the corresponding application.
- If no meeting software is installed, it will open the meeting browser page.

Related Operations

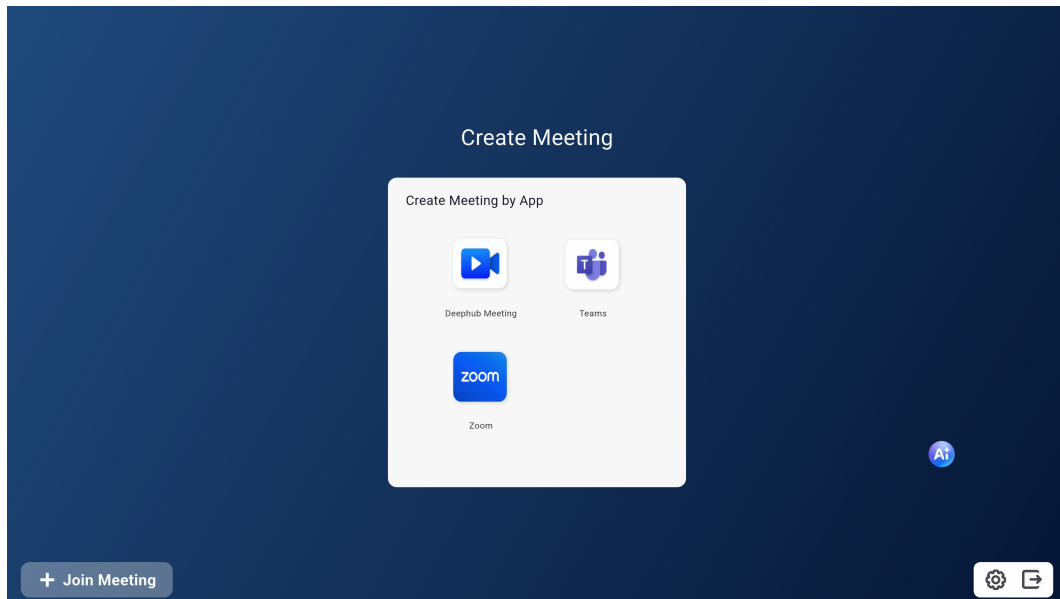


The whiteboard has no built-in cameras or microphones; external devices are required for video conferencing.

- Create a meeting: Click **Create Meeting**, tap the corresponding meeting, and then it goes to the page for creating meetings within the corresponding meeting app.

Join Meeting: Click **Join Meeting**, go to the **Join Meeting** screen.

Figure 3-25 Create meeting



- Exit: Click  to exit the DHrooms application page.
- View the agreement: Click  to view the **Software license agreement**.

3.10 Gesture Menu

You can invoke the system interactive page using specific swipe gestures from the edges of the screen, which mainly includes 2 categories: the drop-down menu and the up-swipe menu.



When you open any application, you can quickly switch to another application by swiping up from the bottom of the screen to bring up the bottom navigation bar.

Figure 3-26 Bottom navigation bar



3.10.1 Android Drop-Down Menu

Swipe down from the top of the screen to bring up the Android drop-down menu. The menu provides quick settings and displays related information.

Figure 3-27 Android drop-down menu

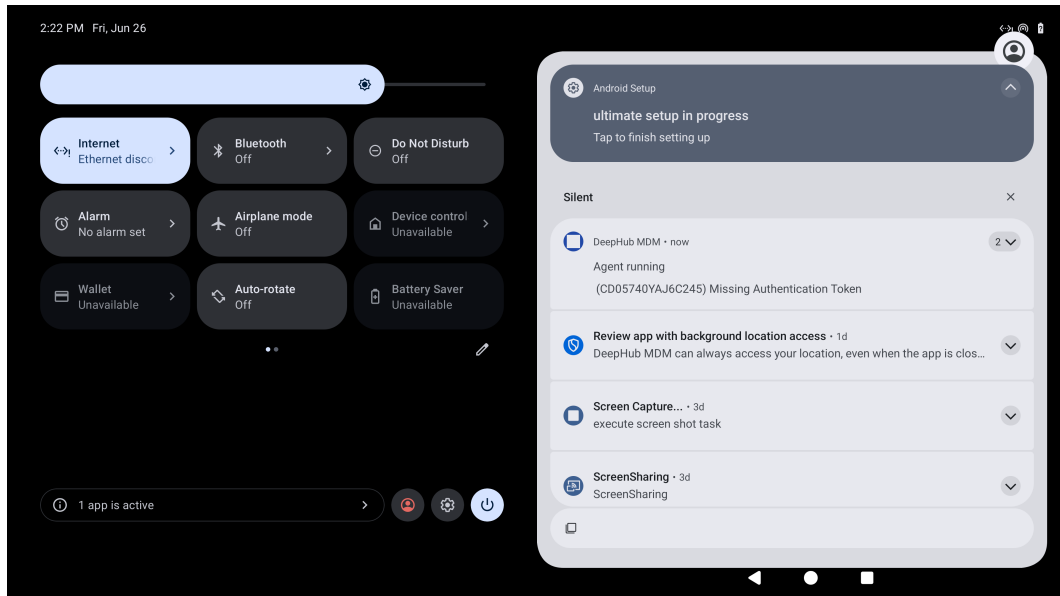


Table 3-14 Description of the Android drop down bar

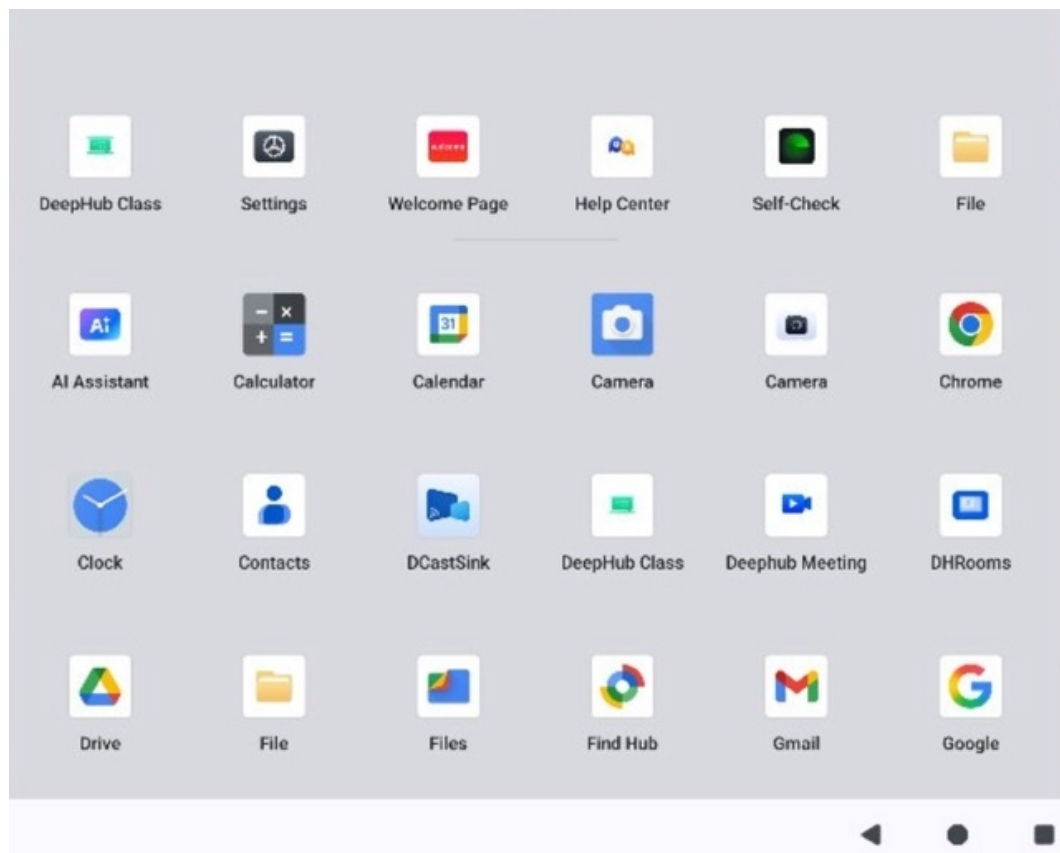
Item	Description
Internet	Configure the wired or Wi-Fi network connection.
Bluetooth	Turn Bluetooth on/off.
Do Not Disturb	Turn Do Not Disturb on/off.
Alarm	Set up an alarm.
Auto-rotate	Turn Auto-rotate on/off.
Device controls	Not supported.
Wallet	
Battery Saver	
Cast	You need to connect to a Wi-Fi or wired network to use this feature.
Screen record	Tap it, and then you can record your screen. It supports Record one app and Record entire screen .
Quick share	Set up quick share.
Mic access	● Blocked means the feature is disabled. ● Available means the feature is enabled.
Camera access	
Security & privacy	You can check the related information of the device.
Hotspot	You can check the name, password and other information of the hotspot.
	You can manage the users.

Item	Description
	Configure the network, general settings and other system settings.
	You can select Lockdown , Power off or Restart .

3.10.2 Android Up-Swipe Menu

Swipe up from the taskbar to bring up the Android up-swipe menu on the home screen. You can quickly find the app you want and open it.

Figure 3-28 Android up-swipe menu



4 Shutdown

After the whiteboard is turned on, press and hold the power button for 5 s, and then the system will prompt you whether to shut down the whiteboard. Tap **OK** to shut down the whiteboard.



- Press and hold the power button for 3 s, and then the system will prompt you **Sign in to use Gemini**.
- The whiteboard provides power-off protection to the computer module. After you shut down the whiteboard, the computer module will shut down a little while afterwards.
- Power-off protection is not available if you cut off the power of the whiteboard directly.

5 System Update

You can update the system online or through USB.



Please be advised that downgrading to a lower version will make the whiteboard vulnerable to security attacks.

5.1 Online Update

Prerequisites

- Make sure the whiteboard is connected to the network.
- Make sure that you have enabled OTA platform on the home screen.
- Make sure that you have more than 6 GB of space, otherwise the OTA might fail.

Procedure

- Step 1** On the home screen, swipe up from the taskbar to bring up the application list, and then tap . You can also tap  > **Settings**.
- Step 2** Tap **System Update**, enable **OTA Platform**, and then tap **Check for Updates** to check whether there is a new version available.
- Step 3** When the system detects that a newer version is available, tap **Download** to download the update package.
- Step 4** After the package is downloaded, you can select to install the package immediately. After it updates, the whiteboard restarts automatically.

5.2 Update through USB

You can upload the update.zip file to a USB flash drive and then use the update file to update the system.

Prerequisites

Get the update package from the technical support.

Procedure

- Step 1** Change the name of the update package to update.zip, and then save the file to the root directory of the USB flash drive.
- Step 2** With whiteboard turned on, plug the USB flash drive into the USB port of the whiteboard.
- 
- Update the system with a USB flash drive in the FAT 32 format. Otherwise, update might fail.
- Step 3** When the system prompts whether to update immediately, tap **Upgrade**. The update begins. After it updates, the whiteboard restarts automatically.

6 FAQ

1. **The whiteboard shuts down automatically.**

- Check whether you have enabled the sleep function. You can refer to the regular computer troubleshooting procedure.
- Check the channel of the input source. If there is no signal, the whiteboard will shut down automatically.
- Check whether the power supply is stable.

2. **The indicator light is off.**

- Check whether the power supply is normal.
- Check whether the rocker switch of the whiteboard is turned on.

3. **Missing or abnormal colors.**

If the whiteboard is connected to a computer, check whether the HDMI cable is intact and correctly connected.

4. **The image is not displayed in full screen or part of the image is outside the screen.**

- Check whether the resolution is 16:9.
- If the whiteboard is connected to an external computer, unplug the HDMI cable and then plug it back in.

5. **The whiteboard displays images but has no sound.**

- Adjust the volume.
- If the whiteboard is connected to a computer, check whether the audio cable is correctly connected.

6. **Touch response is poor and the location that responds is not accurate.**

- Check whether other objects such as paper or your sleeves are in contact with the screen.
- Check whether the resolution is 16:9.

7. **Touch control is not working.**

If the whiteboard is connected to a computer, check whether the TOUCH port of the whiteboard is correctly connected to the USB port of the computer.

8. **Unable to control the computer via touch after connecting a computer to the front panel Type-C port.**

- Change another Type C cable.
- Use the TOUCH port on the rear panel.

9. **The external MIC IN cannot pick up sound.**

Only active mic in is supported, and mic in sound pickup is only supported under the Android signal source.

10. **The whiteboard side cannot control the volume of the external Line out device.**

Volume control of the external Line out device from the whiteboard is not supported. Please adjust the volume on the external device.

11. **The mobile phone's Bluetooth cannot find the Bluetooth of the whiteboard, or the whiteboard cannot find the Bluetooth of another whiteboard.**

To ensure the safe use of the whiteboard, only the whiteboard can search for the mobile phone's Bluetooth. The connection with the mobile phone's Bluetooth can be established through the whiteboard side for data interaction and transmission.

12. **Unable to play RMVB format videos.**

The chip does not support this video format.

13. The sharing feature of the whiteboard prompts that the upload failed.

Connect to a Wi-Fi network for Internet transmission or turn on a hotspot for local area network transmission.

14. After switching from Android to OPS, the USB drive inserted into the front I/O panel is not recognized.

This is a USB timing-compatibility issue. Unplug and re-insert the USB drive; it should then mount correctly.

15. After switching from Android to OPS, touch input stops working in OPS.

Open **Task Manager** and end the **Desktop Window Manager** (dwm.exe) process. Touch will resume.

16. Some features described in the manual are not available in your current version.

Contact after-sales service to upgrade the device to the latest version.



The upgrade will reset the device to factory settings, and the VISO application will no longer be available.

Appendix 1 Touch Operation

You can use the stylus pen or directly use your fingers to operate the device screen.



This section uses operation with stylus pen as an example.

Appendix Table 1-1 Touch operations

Operation	Description
Tap	Tap the screen once with the stylus pen.
Double-tap	Tap the screen twice with the stylus pen (The time gap between the taps is around 0.5 s).
Context menu	Release the stylus pen after holding the screen for 1 to 2 seconds. The context menu will appear once a circle is displayed.
Drag	Hold the icon that needs to be dragged with the stylus pen, and then move the stylus pen to the target place. Lift the stylus pen to drop the item.
Slide	Hold the screen (such as the slider that is used for the web browser) that you want to slide with the stylus pen, and then slide the stylus pen toward the direction you want. Lift the stylus pen to release the screen.
Zoom	Use the stylus pen to press and hold the window (such as the web pages and images), and then use another stylus pen to drag the window to zoom in and zoom out.

Appendix 2 Security Commitment and Recommendation

Zhejiang Dahua Vision Technology Co., Ltd. (hereinafter referred to as "Dahua") attaches great importance to cybersecurity and privacy protection, and continues to invest special funds to comprehensively improve the security awareness and capabilities of Dahua employees and provide adequate security for products. Dahua has established a professional security team to provide full life cycle security empowerment and control for product design, development, testing, production, delivery and maintenance. While adhering to the principle of minimizing data collection, minimizing services, prohibiting backdoor implantation, and removing unnecessary and insecure services (such as Telnet), Dahua products continue to introduce innovative security technologies, and strive to improve the product security assurance capabilities, providing global users with security alarm and 24/7 security incident response services to better protect users' security rights and interests. At the same time, Dahua encourages users, partners, suppliers, government agencies, industry organizations and independent researchers to report any potential risks or vulnerabilities discovered on Dahua devices to Dahua PSIRT, for specific reporting methods, please refer to the cyber security section of Dahua official website.

Product security requires not only the continuous attention and efforts of manufacturers in R&D, production, and delivery, but also the active participation of users that can help improve the environment and methods of product usage, so as to better ensure the security of products after they are put into use. For this reason, we recommend that users safely use the device, including but not limited to:

Account Management

1. Use complex passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters;
- Include at least two types of characters: upper and lower case letters, numbers and symbols;
- Do not contain the account name or the account name in reverse order;
- Do not use continuous characters, such as 123, abc, etc.;
- Do not use repeating characters, such as 111, aaa, etc.

2. Change passwords periodically

It is recommended to periodically change the device password to reduce the risk of being guessed or cracked.

3. Allocate accounts and permissions appropriately

Appropriately add users based on service and management requirements and assign minimum permission sets to users.

4. Enable account lockout function

The account lockout function is enabled by default. You are advised to keep it enabled to protect account security. After multiple failed password attempts, the corresponding account and source IP address will be locked.

5. Set and update password reset information in a timely manner

Dahua device supports password reset function. To reduce the risk of this function being used by threat actors, if there is any change in the information, please modify it in time. When setting security questions, it is recommended not to use easily guessed answers.

Service Configuration

1. Enable HTTPS

It is recommended that you enable HTTPS to access Web services through secure channels.

2. Encrypted transmission of audio and video

If your audio and video data contents are very important or sensitive, we recommend you to use encrypted transmission function in order to reduce the risk of your audio and video data being eavesdropped during transmission.

3. Turn off non-essential services and use safe mode

If not needed, it is recommended to turn off some services such as SSH, SNMP, SMTP, UPnP, AP hotspot etc., to reduce the attack surfaces.

If necessary, it is highly recommended to choose safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption and authentication passwords.
- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up complex passwords.
- AP hotspot: Choose WPA2-PSK encryption mode, and set up complex passwords.

4. Change HTTP and other default service ports

It is recommended that you change the default port of HTTP and other services to any port between 1024 and 65535 to reduce the risk of being guessed by threat actors.

Network Configuration

1. Enable Allowlist

It is recommended that you turn on the allowlist function, and only allow IP in the allowlist to access the device. Therefore, please be sure to add your computer IP address and supporting device IP address to the allowlist.

2. MAC address binding

It is recommended that you bind the IP address of the gateway to the MAC address on the device to reduce the risk of ARP spoofing.

3. Build a secure network environment

In order to better ensure the security of devices and reduce potential cyber risks, the following are recommended:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network;
- According to the actual network needs, partition the network: if there is no communication demand between the two subnets, it is recommended to use VLAN, gateway and other methods to partition the network to achieve network isolation;
- Establish 802.1x access authentication system to reduce the risk of illegal terminal access to the private network.

Security Auditing

1. Check online users

It is recommended to check online users regularly to identify illegal users.

2. Check device log

By viewing logs, you can learn about the IP addresses that attempt to log in to the device and key operations of the logged users.

3. **Configure network log**

Due to the limited storage capacity of devices, the stored log is limited. If you need to save the log for a long time, it is recommended to enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

Software Security

1. **Update firmware in time**

According to the industry standard operating specifications, the firmware of devices needs to be updated to the latest version in time in order to ensure that the device has the latest functions and security. If the device is connected to the public network, it is recommended to enable the online upgrade automatic detection function, so as to obtain the firmware update information released by the manufacturer in a timely manner.

2. **Update client software in time**

We recommend you to download and use the latest client software.

Physical Protection

It is recommended that you carry out physical protection for devices (especially storage devices), such as placing the device in a dedicated machine room and cabinet, and having access control and key management in place to prevent unauthorized personnel from damaging hardware and other peripheral equipment (e.g. USB flash disk, serial port).

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ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

Address: No. 1399, Binxing Road, Binjiang District, Hangzhou, P. R. China | Website: www.dahuasecurity.com | Postcode: 310053

Email: dhoverseas@dhvisiontech.com | Tel: +86-571-87688888 28933188