



Smart Interactive Whiteboard

User's Manual



Foreword

General

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

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
 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.	February 2022

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.

- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

This section introduces content covering the proper handling of the whiteboard, hazard prevention, and prevention of property damage. Read carefully before using the whiteboard, and comply with the guidelines when using it.

Storage Requirements



- Stably put the whiteboard onto a support platform that is strong enough to prevent the whiteboard from falling.
- Do not place the whiteboard in a place exposed to sunlight or near heat sources.
- Store the whiteboard under allowed humidity and temperature conditions.

Installation Requirements



- Do not install the whiteboard in a place exposed to sunlight or near heat sources.
- Keep the whiteboard away from dampness, dust, and soot.
- Install the whiteboard on a stable surface to prevent it from falling.
- Install the whiteboard in a well-ventilated place, and do not block its ventilation.
- The power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Please note that the power supply requirements are subject to the device label.
- The whiteboard is a class I electrical appliance. Make sure that the power supply of the whiteboard is connected to a power socket with protective earthing.
- The appliance coupler is a disconnection device. Keep it at a convenient angle when using it.

Operation Requirements



- High voltage inside the whiteboard. Do not disassemble the whiteboard without a qualified professional present to avoid the risk of being exposed to danger.
- Improper use of the battery might result in a fire or explosion.
- Replace unwanted batteries with new batteries of the same type and model.
- Use the standard power adapter. We will assume no responsibility for any problems caused by the use of a nonstandard power adapter.
- Use the power cords that are recommended for the region and conform to the rated power specifications.
- Make sure all cables are connected correctly before plugging the whiteboard into the power. Do not overload the power socket or pull the power code. Otherwise, it might cause fire or electric shock.



- Do not drop or splash liquid onto the whiteboard, and make sure that there is no object filled with liquid on the whiteboard to prevent liquid from flowing into it.

- This is a class A product. In a domestic environment this may cause radio interference in which case you may be required to take adequate measures.
- Operate the whiteboard within the rated range of power input and output.
- Do not disassemble the whiteboard without professional instruction.
- Use the whiteboard under allowed humidity and temperature conditions.
- The whiteboard is a class I electrical appliance. Make sure that the power supply of the whiteboard is connected to a power socket with protective earthing.
- The appliance coupler is a disconnection device. Keep it at a convenient angle when using it.

Maintenance Requirements



- Power off the whiteboard before maintenance. Do not use the liquid cleaner or spray cleaner when cleaning the whiteboard.
- Use the clean and soft cloth or use the special lens wiping cloth when cleaning the surface of display screen. Do not use the wet cloth to clean the display screen. Otherwise, it may do harm to the screen.

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1 Overview

1.1 Introduction

Smart interactive whiteboard is an integrated multimedia device, which integrates large-screen HD display, PC, TV, electronic whiteboard, audio amplifier, application, and central control system.

The whiteboard has the following characteristics:

- Supports 4K HD LCD display.
- Supports switch between Android and Windows systems (for Windows, you need to install a PC module).
- Supports one-tap projection of devices such as mobile phones and Pads.
- Supports electronic white board.
- Supports various software such as Microsoft Office and audio and video players.

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

Name	Quantity	Name	Quantity
Smart interactive whiteboard	1	Power cord	1
Stylus pen	2	Quick start guide	1
Wall mount bracket (already installed on the whiteboard)	1	Accessory package	1

1.3 Structure

1.3.1 Appearance

Figure 1-1 Appearance (with camera)

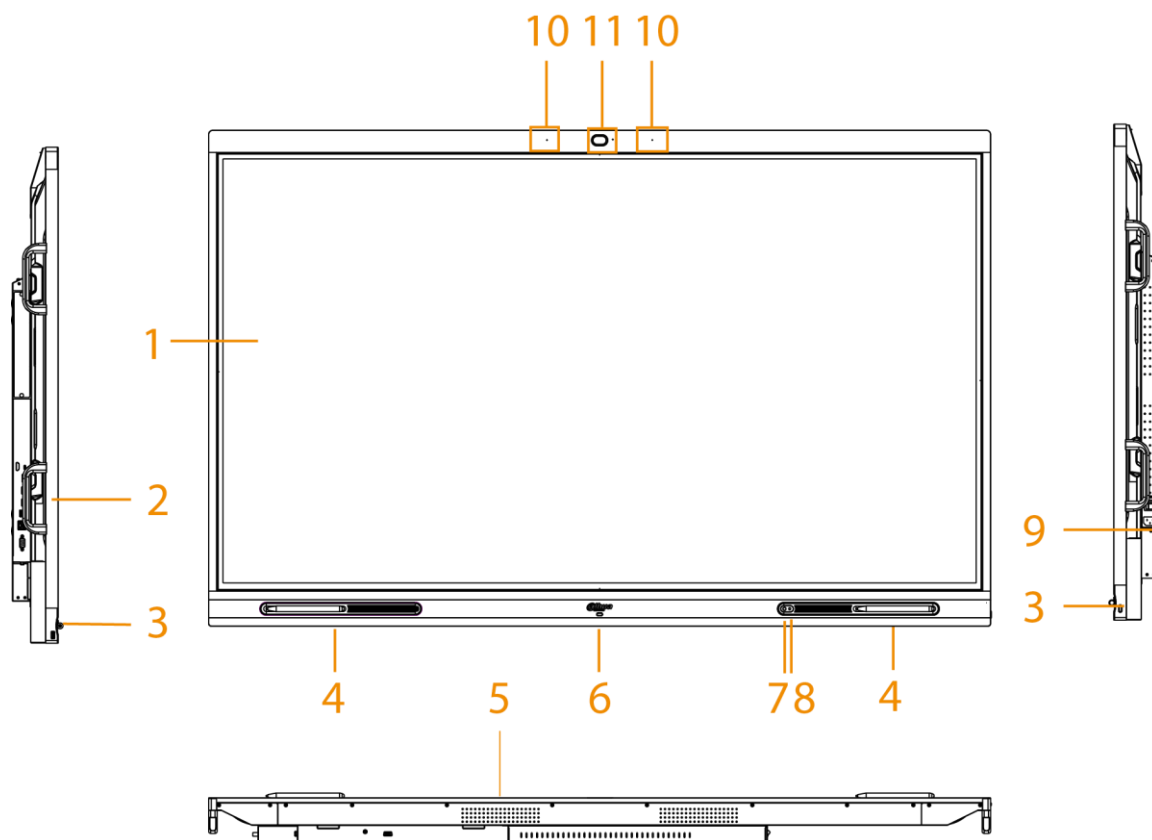


Figure 1-2 Appearance (without camera)

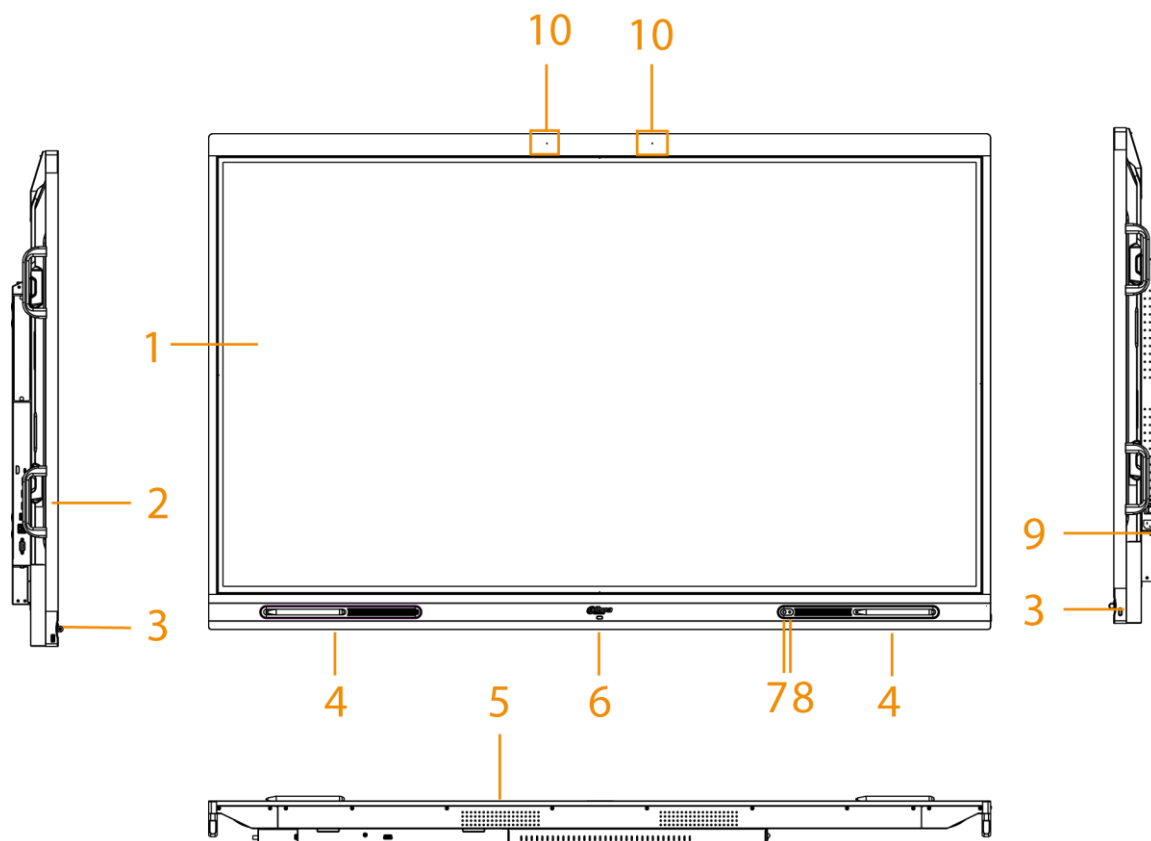


Table 1-2 Appearance description

No.	Description
1	LCD
2	Left panel ports. For details, see Table 1-3.
3	USB 3.0 port.
4	Stylus pen area.
5	Speaker. Plays multimedia sound.
6	Indicator light. The light is red when the whiteboard is on standby and blue when the whiteboard is in normal use.
7	Light sensor. The device recognizes the ambient brightness through the light sensor and automatically adjusts the backlight brightness according to the ambient brightness.
8	IR sensor. Receives signals from the remote control.
9	Power input port. Inputs 100–240 VAC power.  After connecting to power supply, press the power button to turn on the whiteboard.
10	Microphones. Pick up live audio.
11	Built-in HD camera.

1.3.2 Dimensions

1.3.2.1 Dimension (65-inch)

Figure 1-3 Dimensions (with camera) (mm [inch])

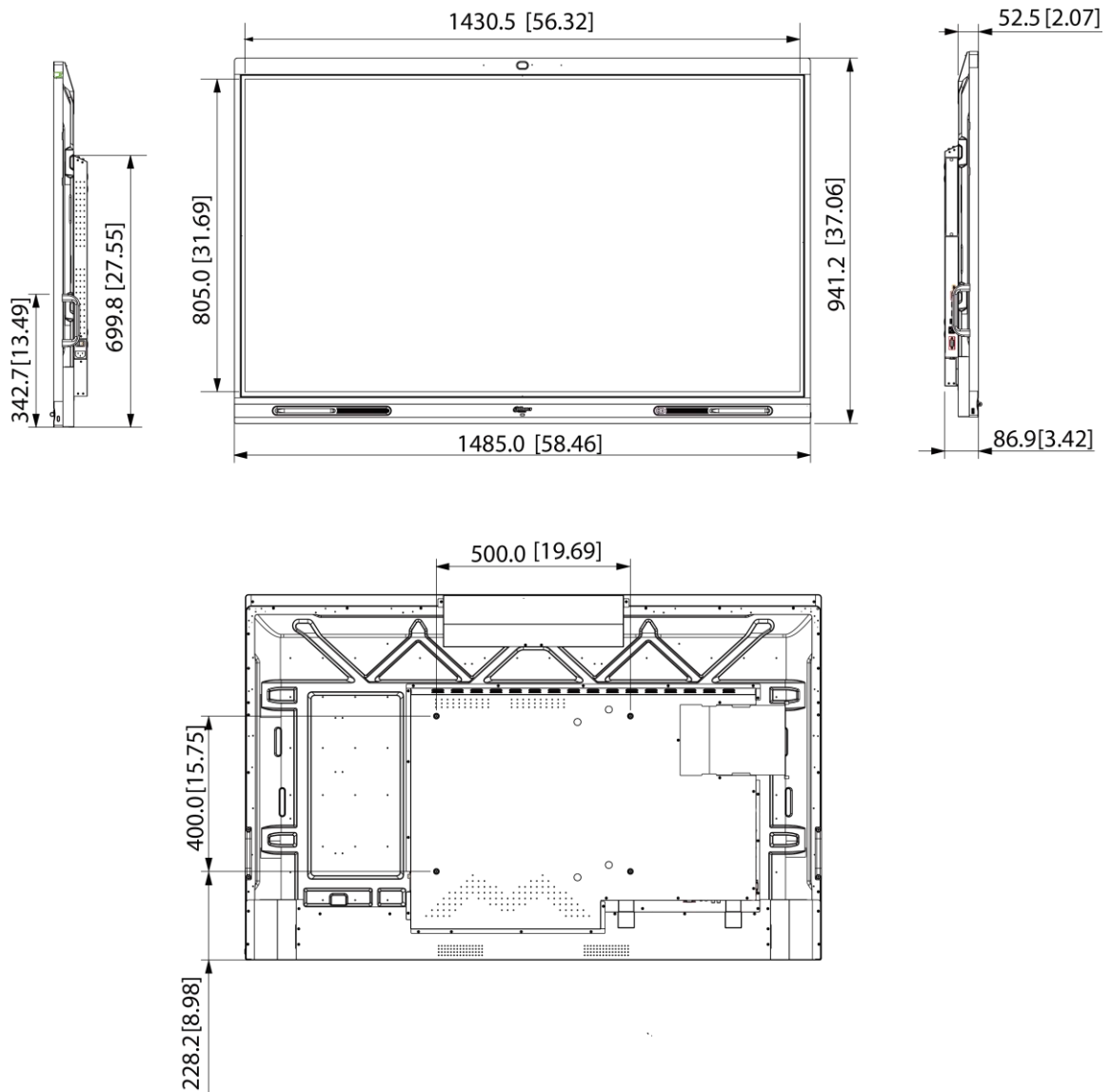
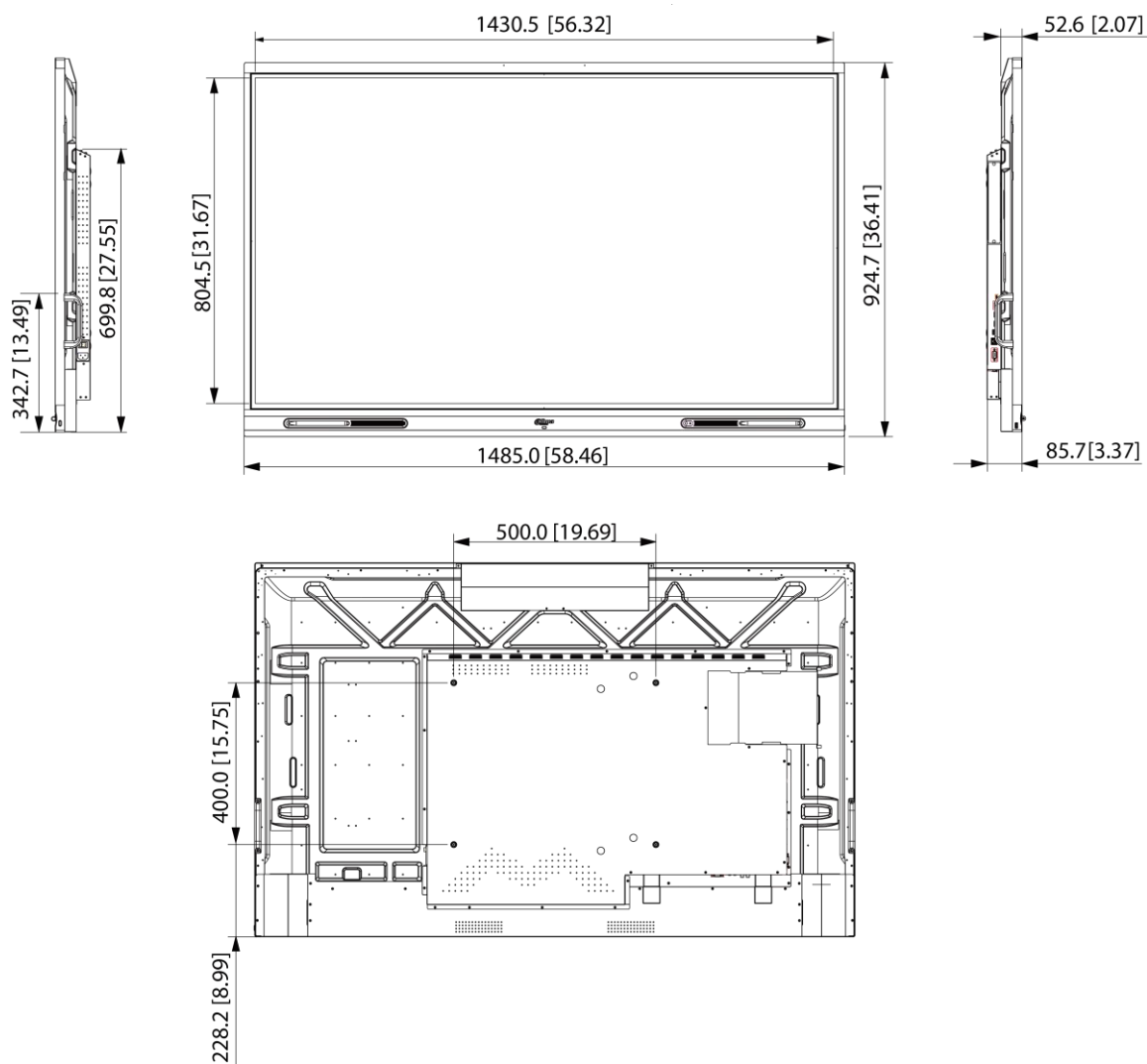


Figure 1-4 Dimensions (without camera) (mm [inch])



1.3.2.2 Dimension (75-inch)

Figure 1-5 Dimensions (with camera) (mm [inch])

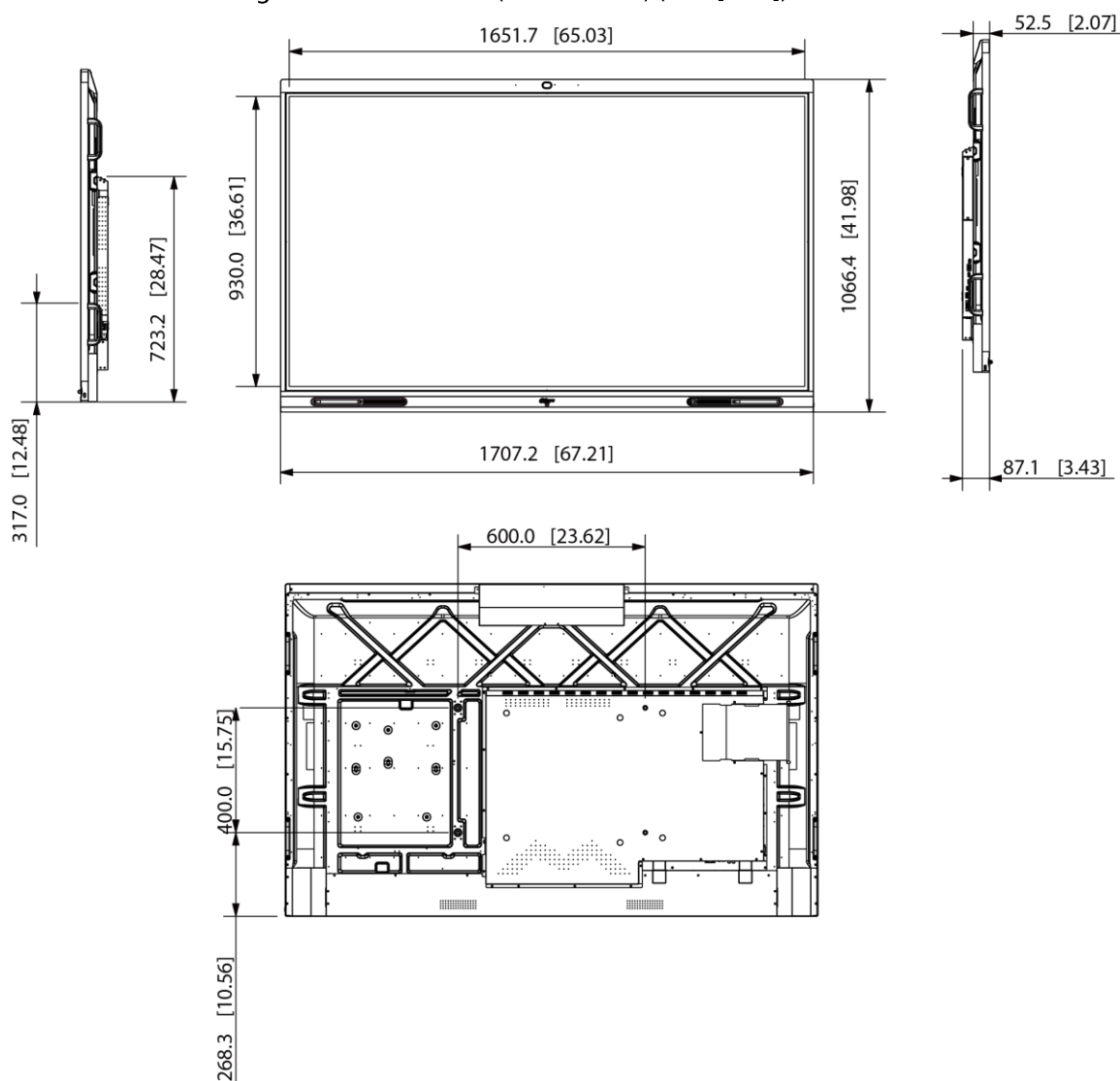
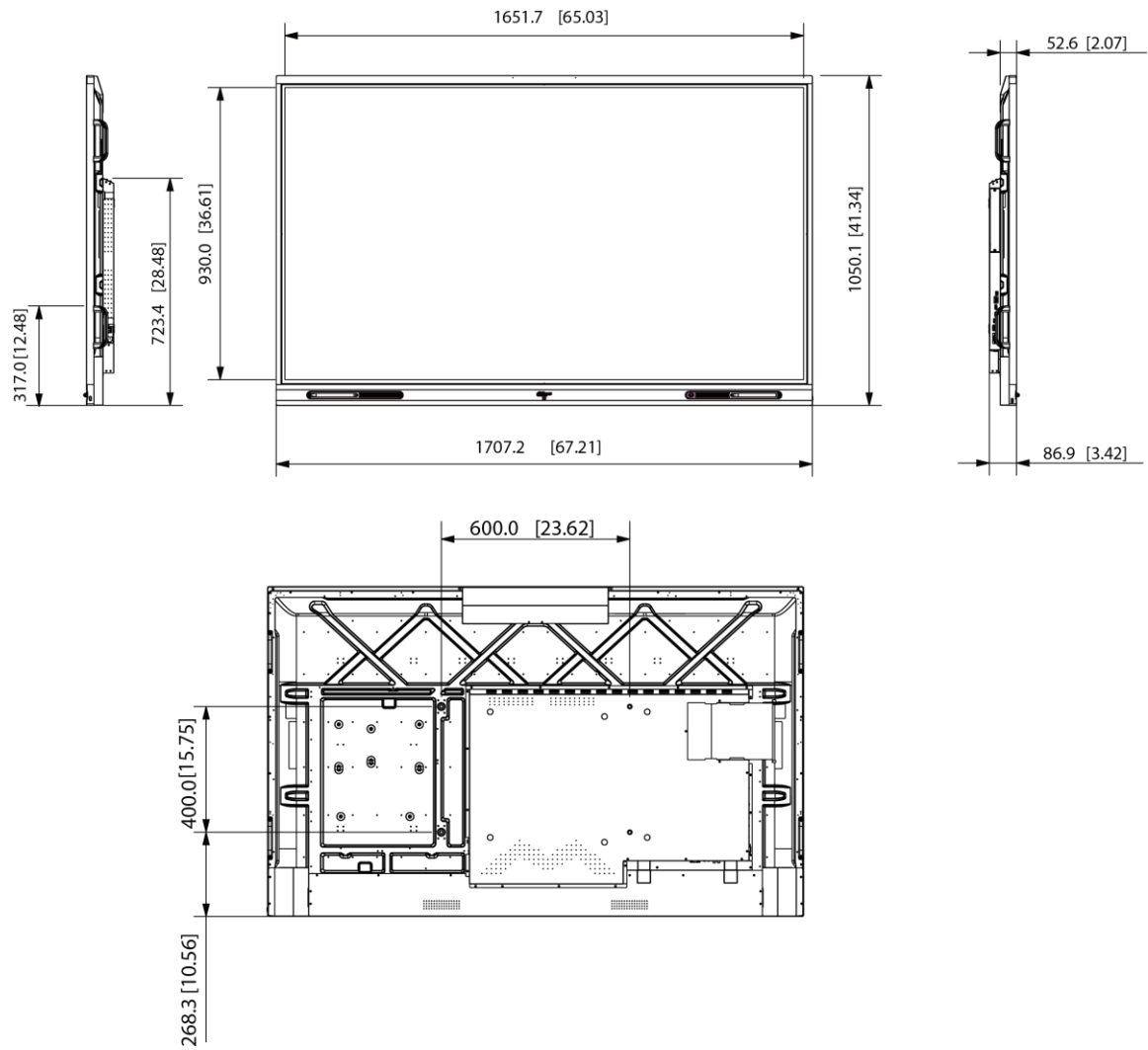


Figure 1-6 Dimensions (without camera) (mm [inch])



1.3.2.3 Dimension (86-inch)

Figure 1-7 Dimensions (with camera) (mm [inch])

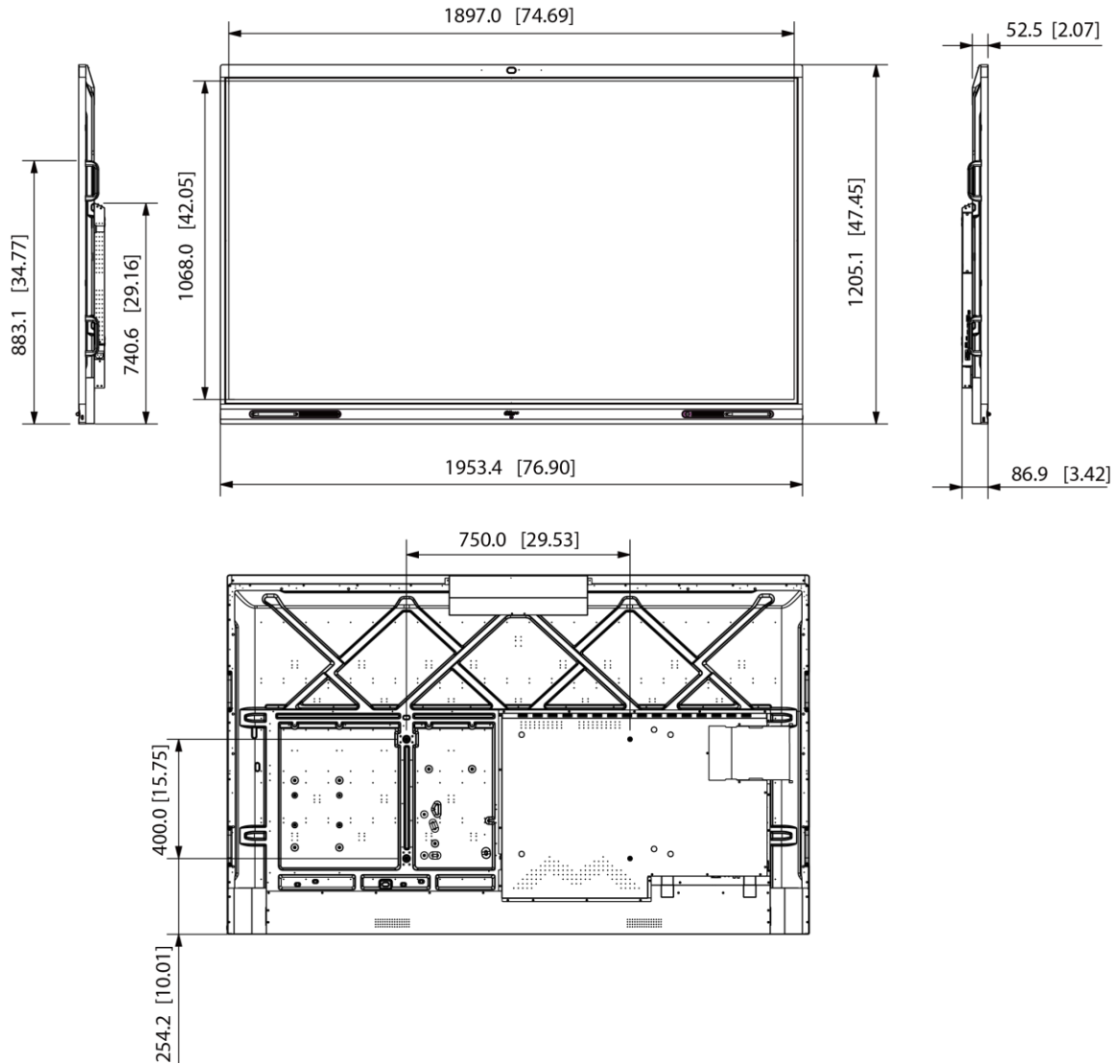
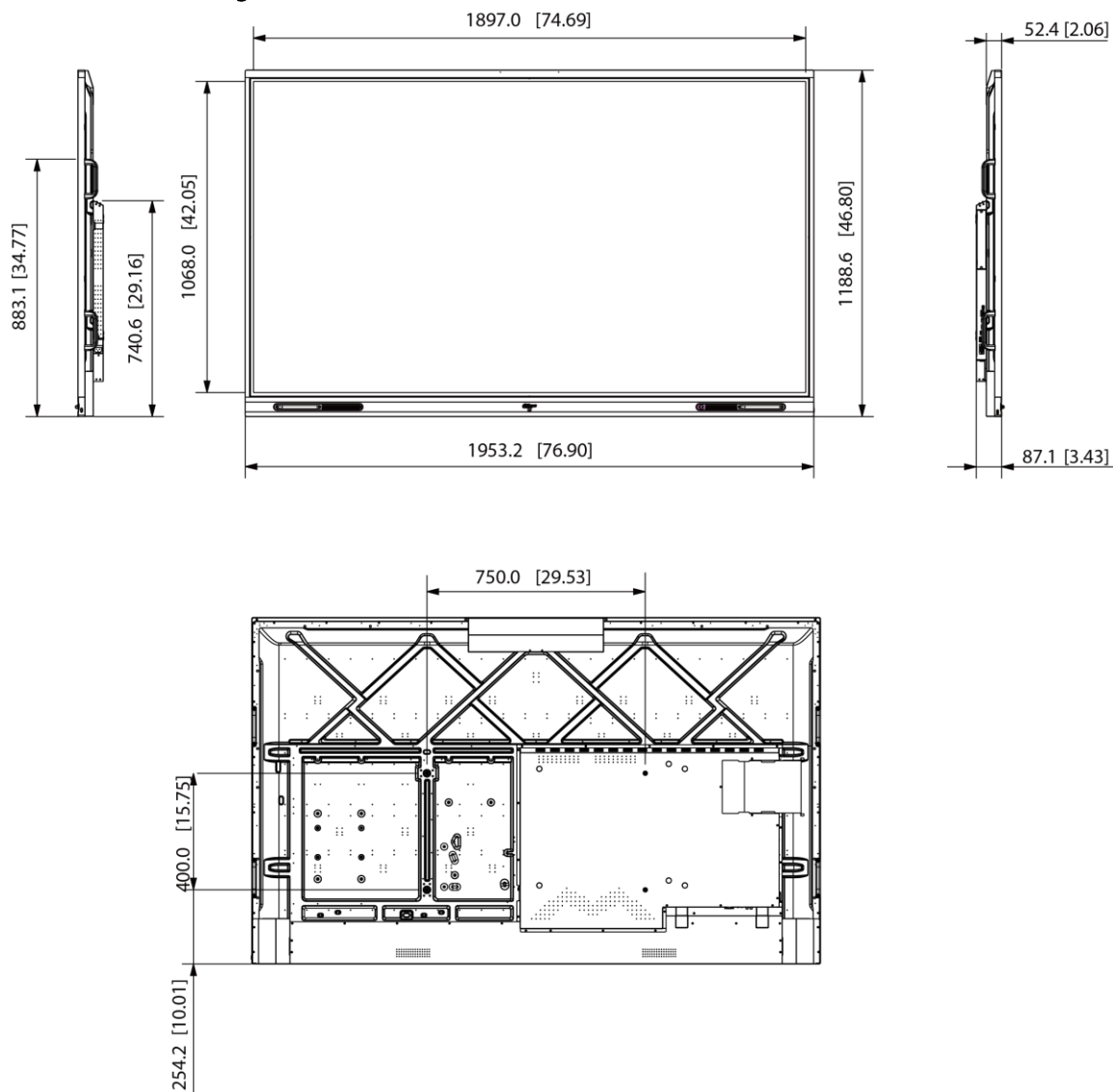


Figure 1-8 Dimensions (without camera) (mm [inch])



1.3.3 Ports

Figure 1-9 Ports

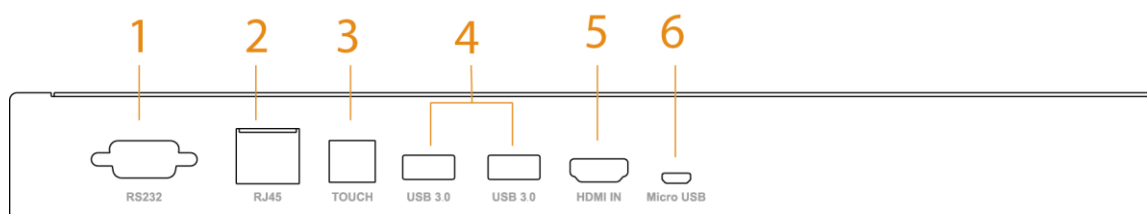


Table 1-3 Port description

No.	Name	Description
1	RS-232 port	Transmits data between devices. Can connect to central control devices with RS-232 port.
2	RJ-45 port	Network port. Connects to network cable to access network.

No.	Name	Description
3	Touch	Transmits touch signals.
4	USB 3.0	Connects to USB devices such as mobile hard disk, USB flash drive, USB keyboard, and USB mouse, It is applicable to Android system and PC module.
5	HDMI IN	HD audio and video signal input port. Connects to PC, set-top box, and other video devices with HDMI output ports.
6	Micro USB	Only applicable to Android system. Uses for system debugging.

2 Starting Whiteboard and Turning off Screen

2.1 Starting 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 power button on the right panel to turn on the whiteboard.
After startup, the whiteboard displays the home screen by default.

Figure 2-1 Home screen

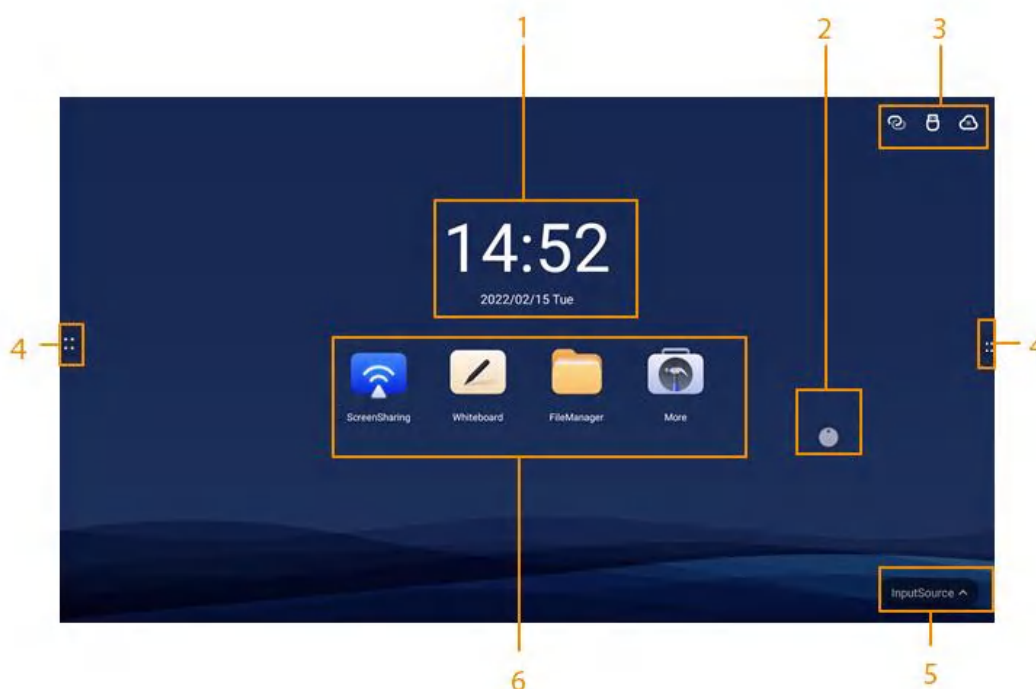


Table 2-1 Home screen description

No.	Description
1	Displays date, time and the day of the week.
2	Compass. Tap the icon to quickly use functions as electronic whiteboard, annotation, and file management. See "3.1.2 Bringing up the Compass Menu" for details.
3	Device status bar. Displays different status information. Tap each icon to view details.

No.	Description
4	Tap  to bring up the navigation bar, See "3.1.1 Bringing up the Navigation Bar" for details.
5	Input source. Supports HDMI and Windows.
6	Function area. Tap a function icon to go to the corresponding operation screen.  For a third-party app, you can tap and hold the corresponding icon to uninstall the app. The apps that come with the system cannot be uninstalled in such way.

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:

- 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 right password to wake up the whiteboard.

3 Basic Operations

The whiteboard can act as a PC, TV or electronic whiteboard. The chapter introduces the basic operations of those functions. We recommend using the stylus pen to directly operate on the screen. For details on touch control, see "Appendix 1 Touch Operation".

3.1 Quick Operations

You can use the navigation bar or compass to quickly go to the corresponding function screen.

3.1.1 Bringing up the Navigation Bar

Tap  on the left and right sides of the home screen to bring up the navigation bar.

Figure 3-1 Navigation bar



Table 3-1 Description of navigation bar

Icon	Description
	Display or hide the navigation bar.
	Go back to the previous screen.
	Go back to the home screen.
	Tap the icon to display common tools such as annotation, screen sharing, and camera. For details, see "3.1.3 Common Tools".
	Displays the apps that are running in the background. You can close the background apps one by one or in batches.

3.1.2 Bringing up the Compass Menu

Tap  on the home screen to bring up the compass menu. For details, see "3.5.2 Configuring General Settings".

Figure 3-2 Compass

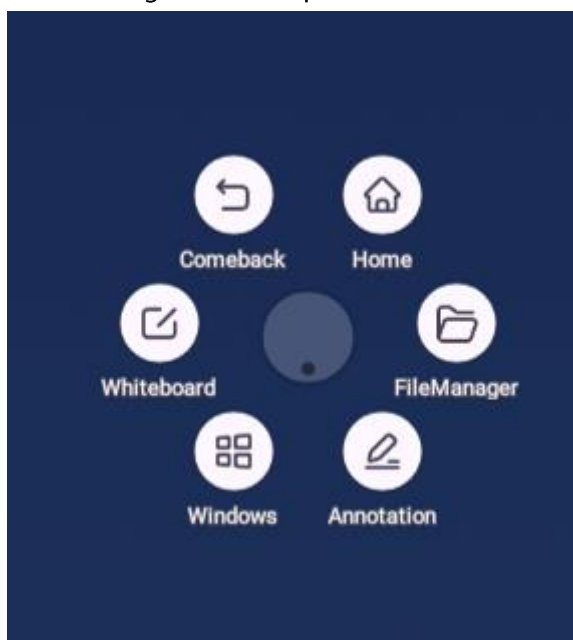


Table 3-2 Description of compass menu

Function	Description
Home	Go back to the home screen.
Comeback	Go back to the previous screen.
Whiteboard	Go to the electronic whiteboard screen. For details, see "3.2 Electronic Whiteboard".
Windows	After inserting the PC module, tap the icon to switch to the Windows system.
Annotation	Turn on the annotation mode. • Tap oily pen to select the type of pen and the size of the brush. • Tap eraser to clear content. ◇ Tap eraser to clear unwanted content. ◇ Tap track eraser, circle unwanted content, and then erase the selected content. ◇ Tap slide clear to clear all content on the screen. • Tap Save, and then select the path to save the annotated screen. • Tap Exit to exit the annotation screen.
File Manager	Manage files.

3.1.3 Common Tools

Step 1 Tap  on the left and right sides of the home screen to bring up the navigation bar.

Step 2 Tap  to display the common tools.

Figure 3-3 Common Tools

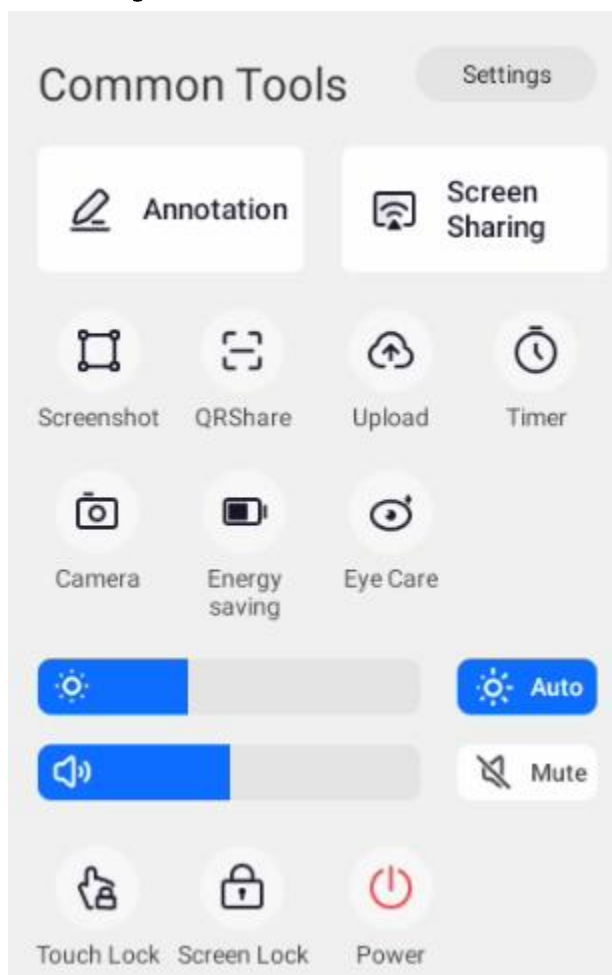


Table 3-3 Description of common tools

Function	Description
Annotation	Turn on the annotation mode. • Tap oily pen to select the type of pen and the size of the brush. • Tap eraser to clear content. ◇ Tap eraser to clear unwanted content. ◇ Tap track eraser, circle unwanted content, and then erase the selected content. ◇ Tap slide clear to clear all content on the screen. • Tap Save, and then select the path to save the annotated screen. • Tap Exit to exit the annotation screen.

Function	Description
Screen Sharing	Tap the icon to go to the wireless screen sharing screen. You can transfer content to the whiteboard through PC or mobile phone. For details, see "3.4 Screen Sharing".
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 cancel the screenshot. - Tap , and then the screenshot named year - month - day - hour - minute - second. png will be saved to the screenshot folder.
QRShare	Tap the icon, and then select the files that you want to share. You can select all types of files but cannot select folders. The size of a single file must not exceed 200 MB. Tap OK to compress two or more files into a zip file for transmission. After a QR code is generated, you can scan the QR code to download the file, or tap Continue to Select under the QR code to return to the file selection screen to select more files. Supports QR code encryption. If the whiteboard is connected to extranet, the QR sharing function will automatically use extranet. If the whiteboard is not connected to the extranet, the QR sharing function will automatically switch to the intranet. - Intranet: Displays the name and password of the whiteboard hotspot. After connecting to the hotspot, use the camera app or browser on your phone to scan the code. If encryption function is enabled, you need to enter the verification password after scanning the code, and the download screen will be displayed after successful verification. - Extranet: Does not display the name and password of the whiteboard hotspot. If encryption function is enabled, you need to enter the verification password after scanning the code with the camera app or browser on your phone, and the download screen will be displayed after successful verification.  - File sharing is risky. Keep the QR code properly. - When the files selected have the same name, the QR code cannot be generated.

Function	Description
Upload	- After tapping the icon, tap REGISTER to register to the cloud management platform. Enter the server address or domain name, and then tap Register. You can enable or disable the cloud management platform registration (the whiteboard will be registered to the cloud management platform after the function is enabled). - After registering on the cloud management platform, you can upload the files on the whiteboard to the cloud platform for management and saving. You can upload all types of files but cannot upload folders. The files are compressed into zip files for transmission. Tap Upload, and then the meeting list of the day and the previous two days is displayed. The default is the meeting at the upload time point meeting. If there is no meeting at this time point, the default is the nearest meeting before that time point.
Timer	Tap the icon, and then the timer setting screen is displayed. You can start and pause timing, set full-screen display of timing information, and reset the timer (resetting is only supported when the timing is paused, and it will reset to the initial state 00:00:00).
Camera	Tap the icon to take a picture. - The built-in camera supports mirroring. - Supports countdown settings, including: off, 3 s (default), 5 s, and 10 s. - 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.png by default. - Supports QR sharing.
Energy saving	With this function enabled, the backlight is fixed to a lower value. The backlight brightness can be adjusted manually or automatically.
Eye Care	Enable or disable the eye care function. With this function enabled, the whiteboard will reduce the blue light of the channel layer and change the screen to eye care mode.
Brightness	Drag the slider to adjust the backlight brightness. You can tap Auto to enable auto adjustment function. The whiteboard can automatically adjust the brightness according to the environment. For details, see "3.5.2 Configuring General Settings".
Volume	Drag the slider to adjust the volume. Tap to enable muting.
Touch Lock	Tap the icon to disable touch control on the screen.
Screen Lock	Tap the icon to lock up the screen. Press the power button for three times to unlock the screen.
Power	Tap the icon to shut down, restart the whiteboard, or exit the 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 3-4 Electronic whiteboard

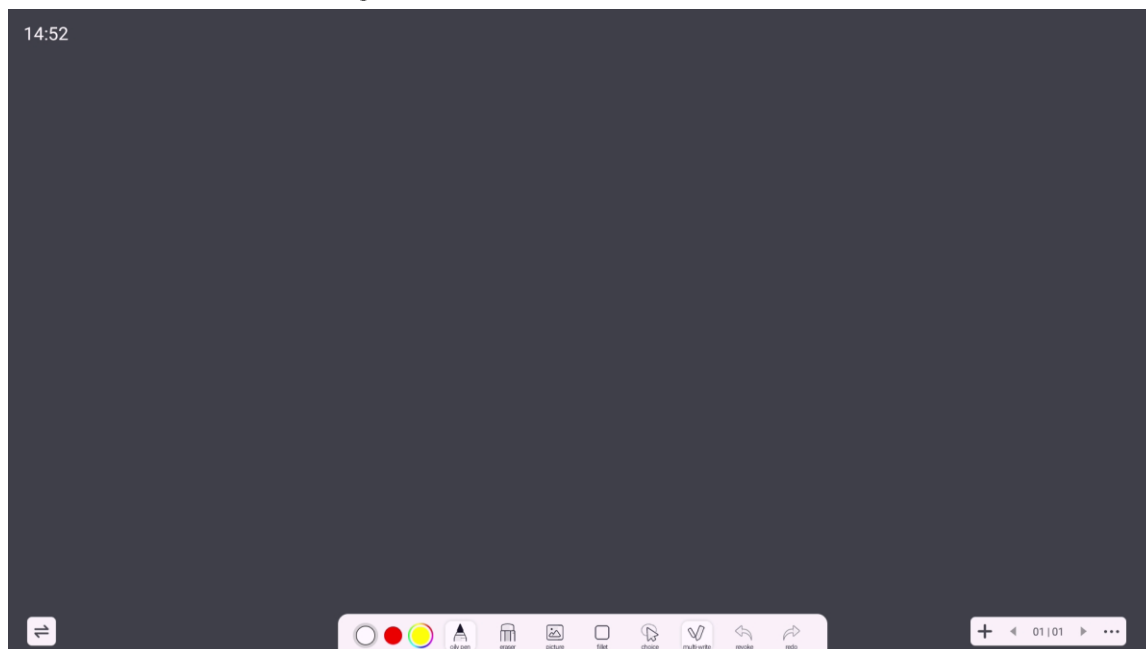
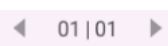


Table 3-4 Description of whiteboard icons

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 size of the brush.
	Erase content. - Tap eraser to clear unwanted content. - Tap track eraser, circle unwanted content, and then erase the selected content. - Tap slide clear to clear all content on the screen.
	Tap the icon, and then you can insert images in the bmp, png, jpg, or jpeg format. Up to 10 images can be inserted.
	Select the shape of the graph to draw.
	Select content on the screen to zoom in, zoom out or move.

Icon	Description
	Switch between zoom mode and multi-write mode. - Zoom mode: Only supports one-point writing. - Multi-write mode: Supports two pens writing simultaneously.
	Undo the previous action.
	Redo the action that has been undone.
	Add a whiteboard page.
	Tap to preview the saved file list. Tap the file to edit. 01 01 When you have created several files, tap  or  to switch to the previous file and the next file. You can browse the thumbnail of the switch page.
	Tap the icon, and then you can perform the following operations. New: Create a new whiteboard file. Save the currently written content first, or the changes will be lost. Open: Open the saved writing file. Only the whiteboard file format can be opened. After tapping, the system will jump to the whiteboard file column on file management screen by default. Change wallpaper: You can use local background template or custom template.  Custom template: Only images in bmp, png, jpg and jpeg formats are supported. The image size is limited to 5 MB. The recommended image ratio is 16:9. Save: Save the written 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, and png. The source file format is used by default. Save as: Save as a new written file. The default file name is year-month-day-hour-minute-second. The file format can be wbh (source file format), pdf, and png. The source file format is used by default. QR share: Download the written whiteboard file. For details, see Table 3-3. Quit: Quit the whiteboard app.  Save the modified file first, or the changes will be lost.

3.3 File Management

Manage local files and files in the USB drive.

Tap **FileManager** on the home screen to view the whiteboard files, images, documents and more.

Figure 3-5 File management

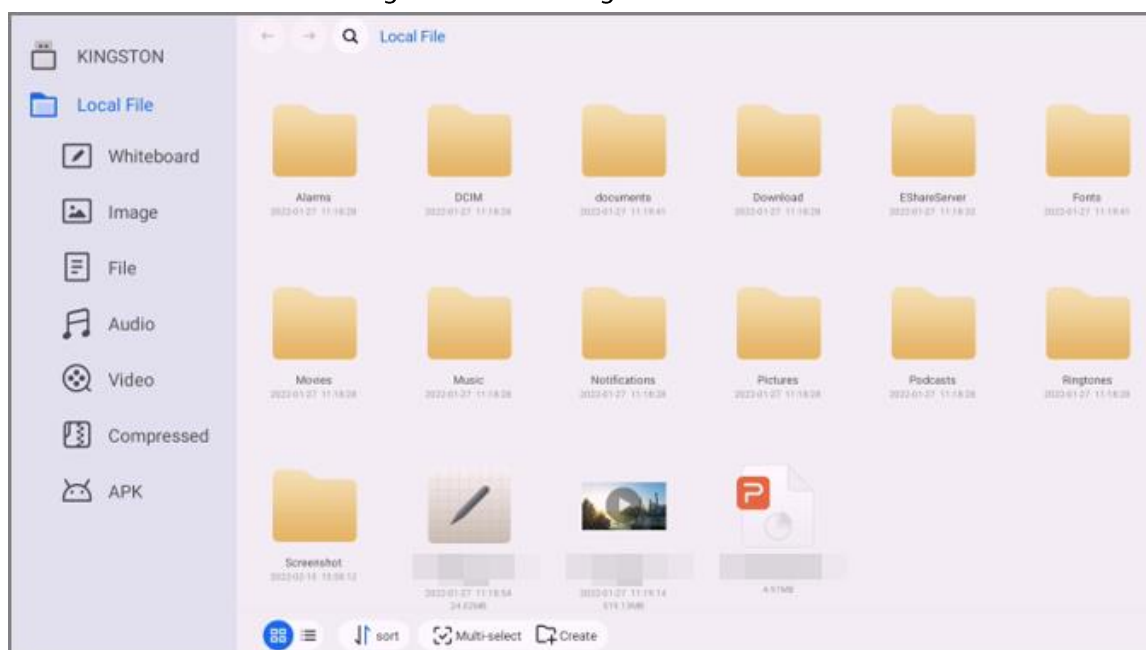


Table 3-5 File management icons

Icon	Description
	View local file on the previous or next screen.
	Enter file names to search.
	Display files in thumbnails or list.
Sort	Sort files in the ascending or descending order by name, size and time.
Multi-select	You can select multiple or all files.
Create	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 suffix of the file name.

3.4 Screen Sharing

You can remotely control the whiteboard on mobile phone or PC, and project the content on mobile

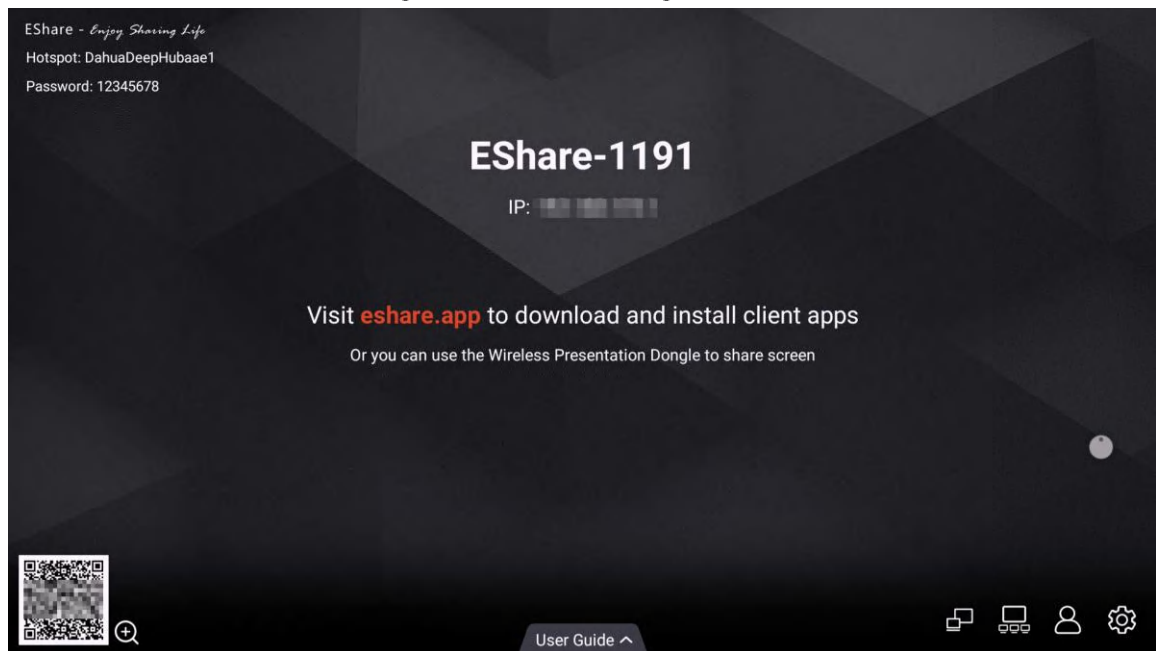
phone or PC to the whiteboard screen.



The whiteboard and your phone or PC have been connected to the same LAN. For details on network connection, see "3.5.1 Configuring Network Connection".

On the home screen, tap **ScreenSharing**. Follow the on-screen instructions to finish the settings.

Figure 3-6 Screen sharing



3.5 System Settings

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

3.5.1 Configuring Network Connection

On the home screen, tap **More > Settings** to configure the network settings.



You can enable wireless network or wired network as needed. 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.

Figure 3-7 Network

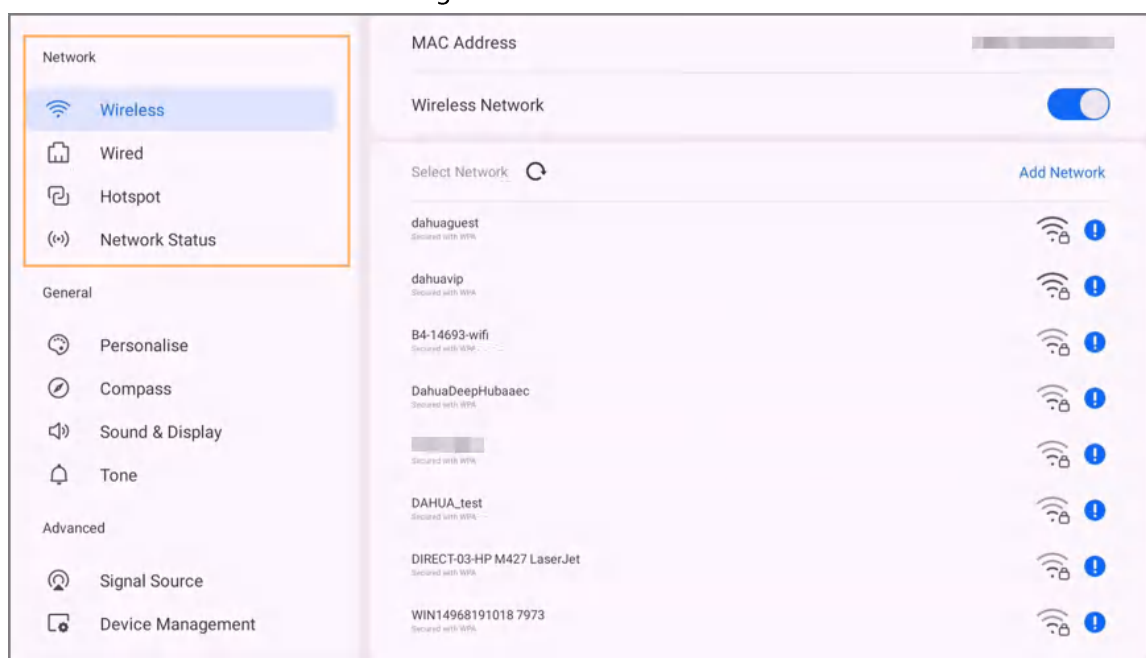


Table 3-6 Network parameters

Parameter	Description
Wireless	Enable Wireless Network, and then the whiteboard can connect to available Wi-Fi in your surroundings. To add wireless network, tap Add Network, enter the SSID network name and password, and then configure advanced settings as needed.  We recommend you select a secure authentication method to connect to wireless network..
Wired	Configure wired network connection parameters. - Getting IP address automatically: When there is a DHCP server on the network, you can enable Wired, and then the whiteboard gets a dynamic IP address automatically. - Setting IP address manually: Set IP address, subnet mask, default gateway and DNS manually for the whiteboard.

Parameter	Description
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.
Network Status	Displays information such as the current network connection mode, IP address, default gateway, subnet mask, and DNS.

3.5.2 Configuring General Settings

On the home screen, tap **More > Settings** to configure the general settings.

Figure 3-8 General settings

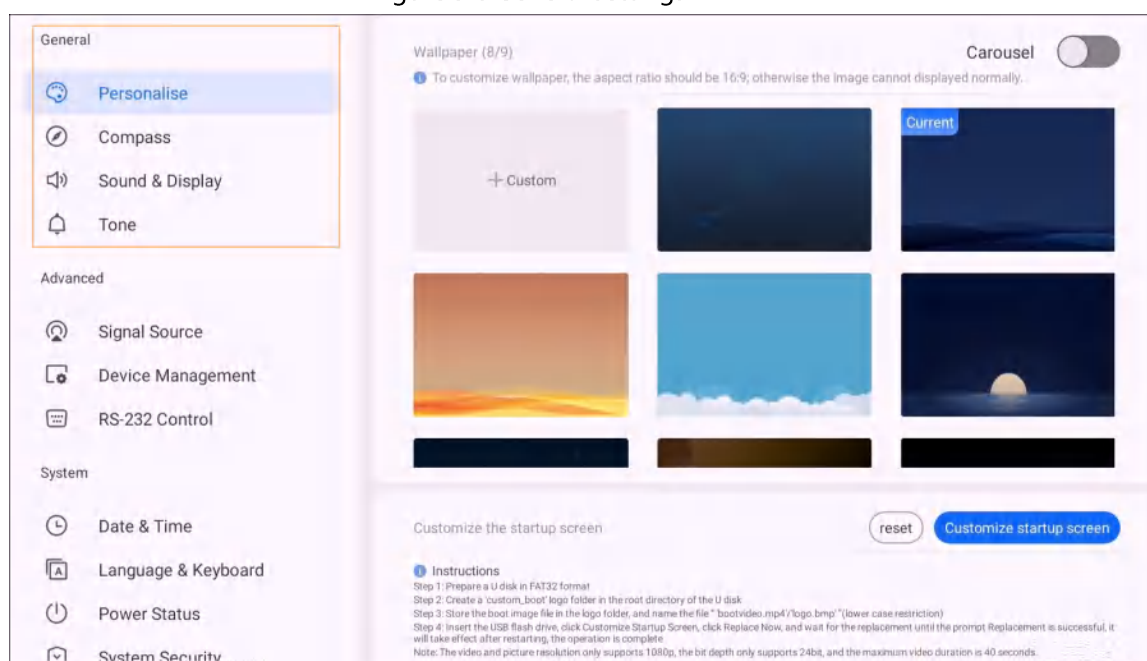


Table 3-7 General settings description

Parameter	Description
Personalise	Set the background image, and you can enable Carousel to play the selected background images in turn and customize the boot screen. - The system provides 8 wallpapers by default. - You can also customize and upload wallpapers. The recommended image ratio is 16:9.
Compass	Select or customize the automatic hiding time of compass and the hidden status (small circle or disappearing).  After enabling the compass, double-tap with more than two fingers to call it out, and the number of fingers must be the same for the two taps.

Parameter	Description
Sound & Display	- Adjust the volume level. If the volume is 0, a mute sign will be displayed at the lower-left corner of the screen. - Sound effect: You can select Standard, Music, Meeting and Theater. - Brightness can be adjusted manually or automatically.
Tone	The system provides 4 tones by default. Tap Add Audio to add external audio. You can add up to 10 audio files and the size of each file must be less than 500 KB.

3.5.3 Configuring Advanced Parameters

On the home screen, tap **More** > **Settings** to configure the advanced parameters.

Figure 3-9 Advanced parameters

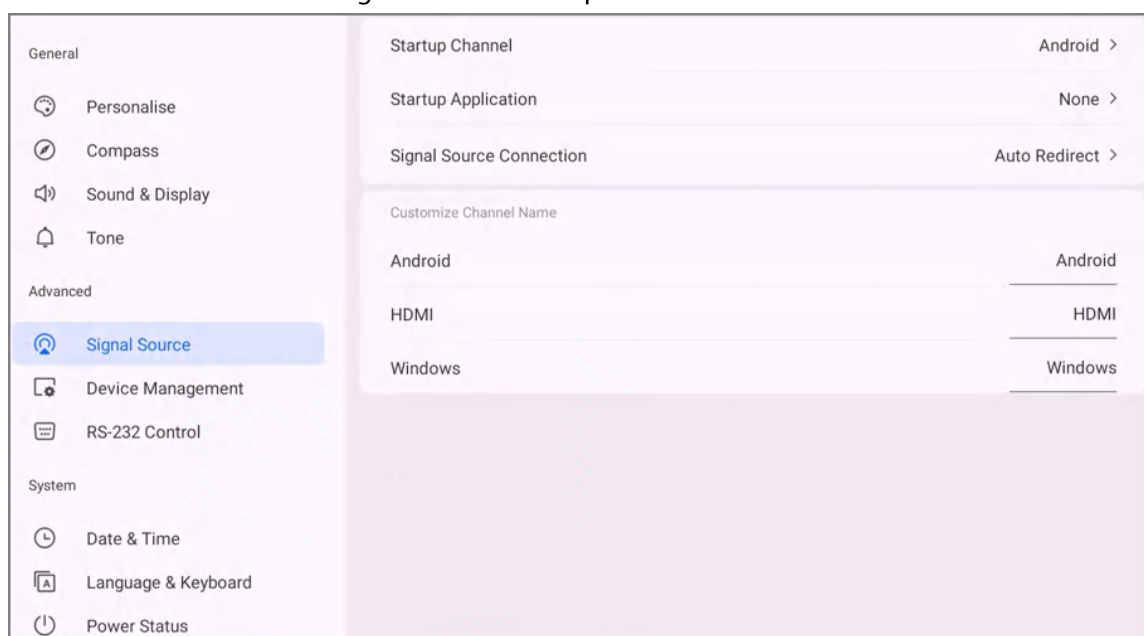


Table 3-8 Description of advanced parameters

Parameter	Description
Signal Source	• Startup Channel: Customize the channels to be enabled at startup. • Startup Application: Select the application installed on the whiteboard. The system will directly open the selected application after startup. • Signal Source Connection: Select a method of signal source connection. ◇ Auto Redirect: Access source and automatically jump to the corresponding channel. ◇ Pop-up Window: Access to source, and 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.
Device Management	View information of camera, microphone, and speaker.
RS-232 Control	With RS-232 Control enabled, connect the whiteboard to the RS-232 transparent debugging serial port to support mutual data transmission between devices.

3.5.4 Configuring System Parameters

On the home screen, tap **More** > **Settings** to configure the system parameters.

Figure 3-10 System parameters

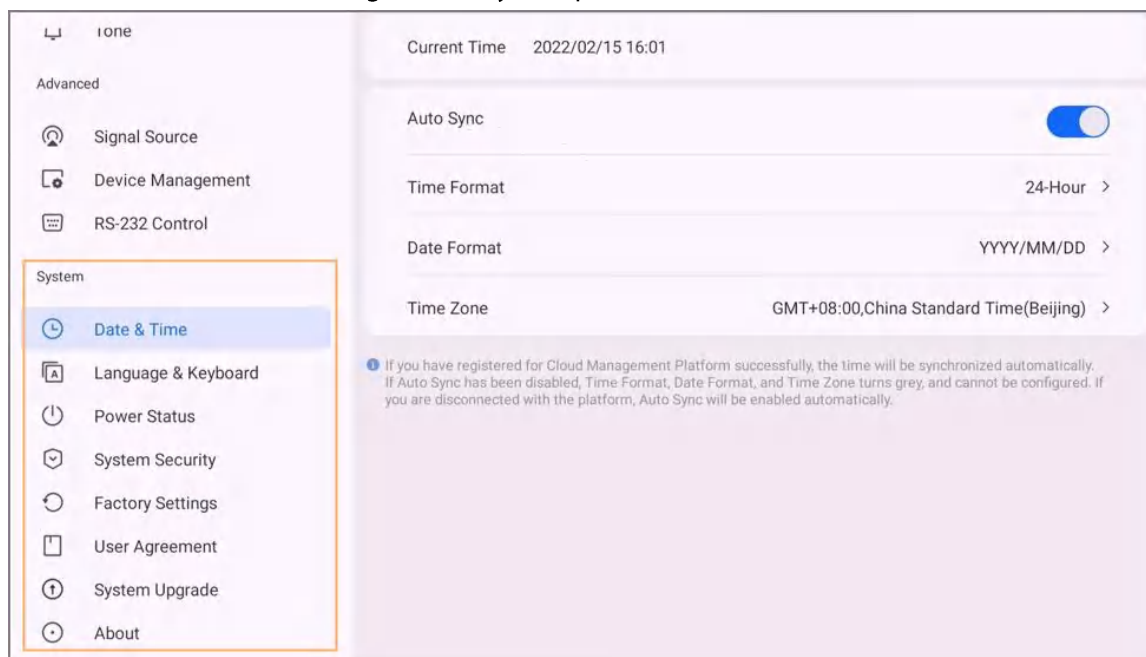


Table 3-9 System parameter description

Parameter	Description
Date & Time	Set the date and time automatically or manually. You can configure the format of time and date and time zone. With Auto Sync enabled, the system time is synchronized with the server time; when it is disabled, you need to manually set the date and time.
Language & Keyboard	Select the system language and the input method.
Power Status	Set power status of the whiteboard. • Startup Options: Standby with power on; Startup with power on. • Screen Turn Off: Always on, no operation after 1 min, no operation after 5 min, no operation after 10 min, custom configuration from 1 min to 60 min, • Scheduled Power On/Off (Max. 10 plans): Tap Add Plan to set the power on and power off time and week. Tap  to delete the plan.

Parameter	Description
System Security	• Passcode: After enabling Passcode, you can unlock the whiteboard with digital password. • Pattern: After enabling Pattern, you can unlock the whiteboard by drawing a pattern. • Lock Screen: Tap Lock screen, and then select a screen lock option, including no operation after 1 min, no operation after 5 min, no operation after 10 min, and custom configuration. • Touch Lock: After enabling touch lock, you cannot use touch control on the screen. • USB Permission: With USB permissions disabled, the system does not detect the access of USB devices.  The system does not support the simultaneous use of pattern password and digital password.
Factory Settings	Tap FACTORY SETTINGS , all your operation records and saved content will be deleted, and your whiteboard will be restored to the factory status.
User Agreement	View privacy policy, software license agreement, and open source agreement.
System Upgrade	View the current system version. When the whiteboard is connected to network, tap CHECK FOR UPDATES to check whether there is a new version available.
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.

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.



The whiteboard provides power-off protection to the PC module. After you shut down the whiteboard, the PC module will wait for some time to shut down.

5 System Update

You can update the system online or through USB.



Degrading to a lower version will make the whiteboard vulnerable to security attacks. Please operate with caution.

5.1 Online Update

After the whiteboard is registered to the platform, the platform can send the update package to the whiteboard.

Prerequisites

Make sure the whiteboard is connected to network.

Procedure

- Step 1 On the home screen, select **More > Settings > System Upgrade**.
- Step 2 Tap **CHECK FOR UPDATES**.
- Step 3 When the system detects a newer version available, tap **Download** to download the update package.
- Step 4 After the package is downloaded, automatic update starts. After update, the whiteboard restarts automatically.

5.2 Update through USB

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

- Step 1 Save the update.zip file to the root directory of the USB flash drive.
- Step 2 Plug the USB flash drive to the USB port of the whiteboard.



Update the system with USB flash drive of FAT 32 type. Otherwise, update might fail.

- Step 3 Tap **Upgrade**.
The update begins. After update, the whiteboard restarts automatically.