

User Manual

For capacitive digital signage

Motherboard Model RK3576.19

Update Date 2025-08-23

Document Version V1.2

Revision History Log

Serial Number	Revision Version	Revision Content	Revision Date	Revisor
1	V1.0	Initial Version	January 21, 2025	Huang Huilin
2	V1.1	Add content for Whiteboard V6.0	March 24, 2025	Huang Huilin
3	V1.2	Update and refine descriptions of whiteboard and annotation functions, update sound option functions, and add description of AI assistant	August 23, 2025	Huang Huilin

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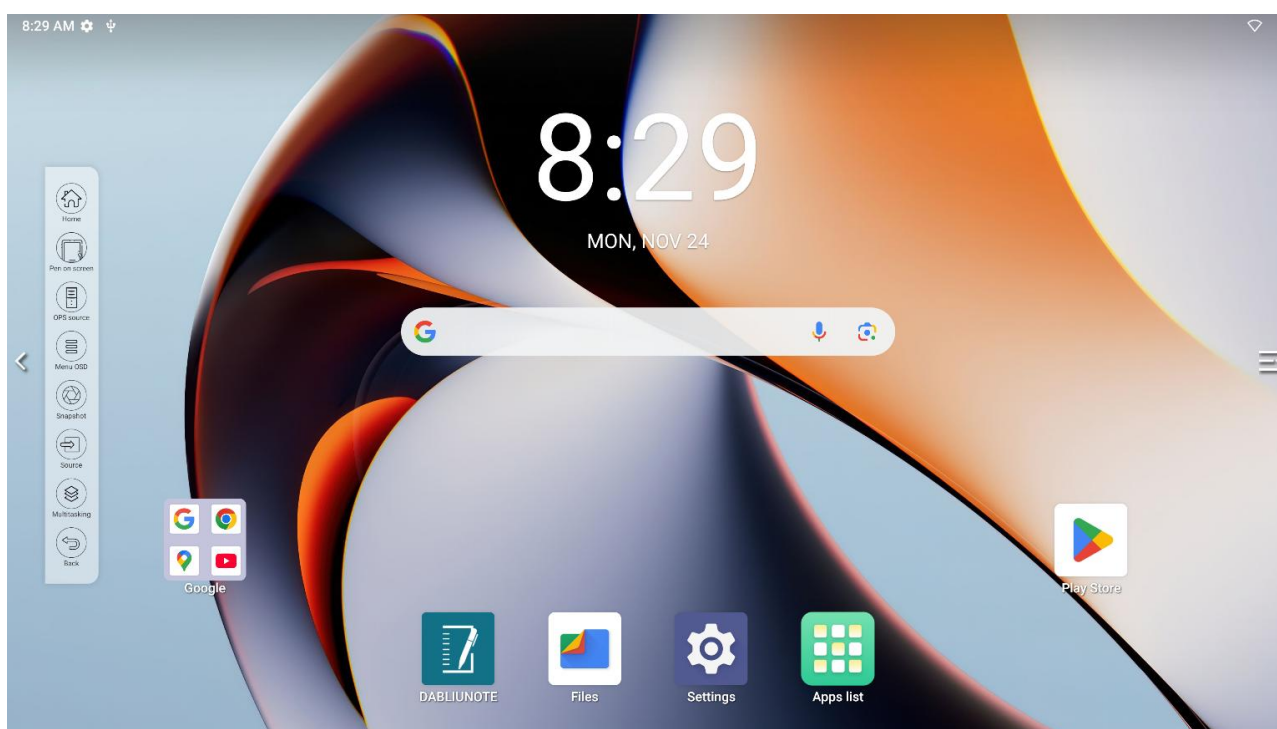
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1、 Overview

The RK3576.19 runs on Android 14 and has passed the Google EDLA certification standards. Android Home Screen



2、 Description of RK3576.19 Port Functions

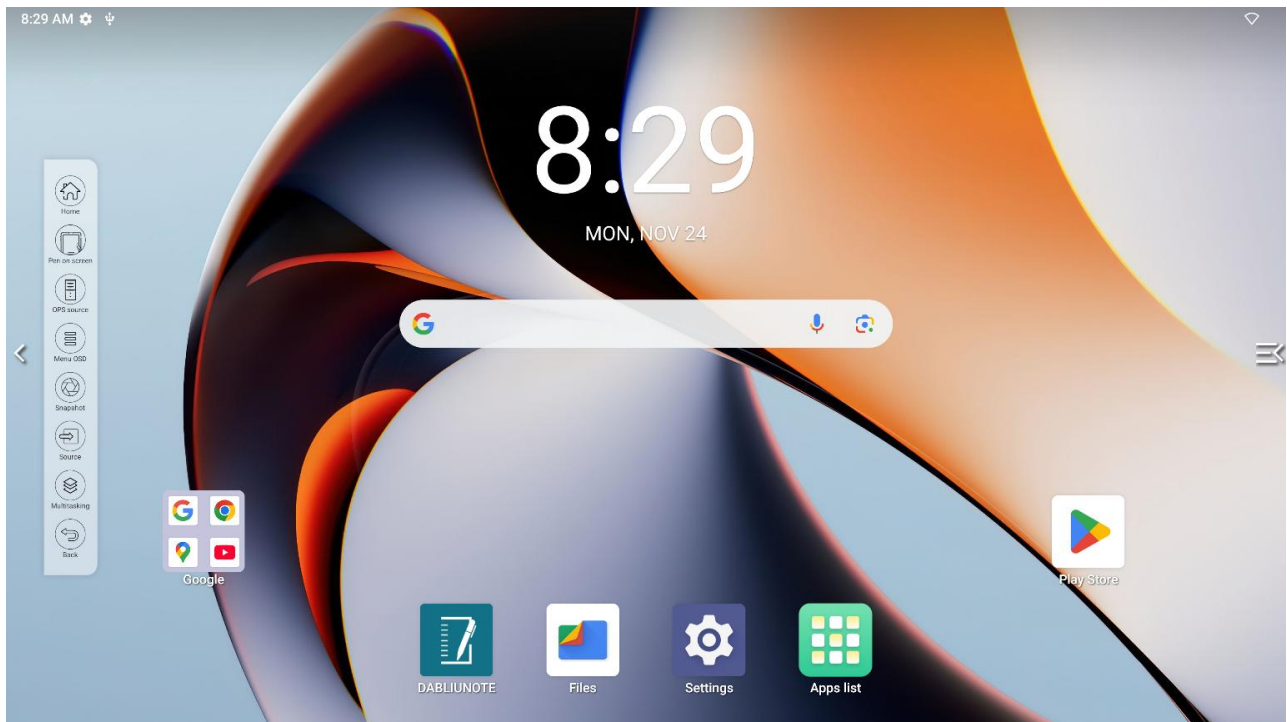
- OPS (supports up to 3840*2160 @50/60Hz)
- HDMI in & out
- ANDROID USB2.0Ethernet (1Gb)
- Line out
- RS232
- SPDIF out

- USB2.0(TOUCH)
- TYPEC(USB2.0-0TG)

3、Introduction to Sidebar Menu Functions

The sidebar stores convenient tools and frequently used operation functions for quick control of the large screen, including Home, Annotation, OPS Channel, OSD Menu, Screenshot, Channel, Multitasking, and Back.

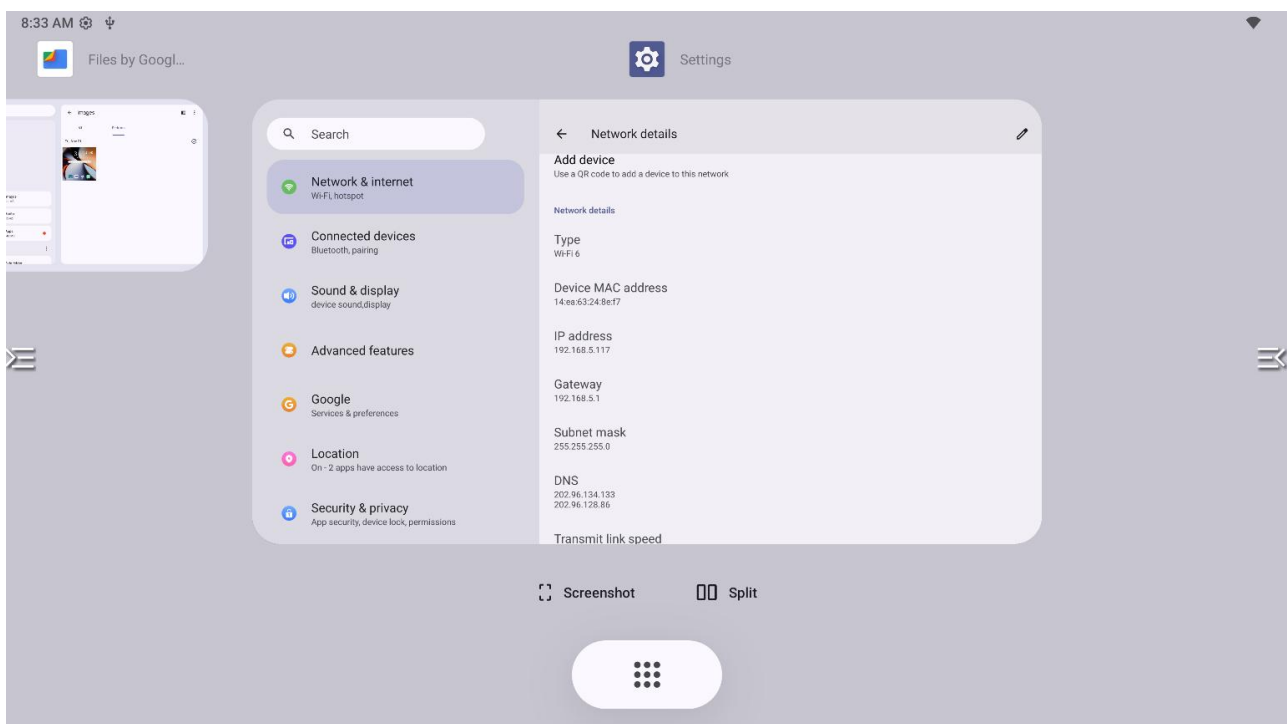
As shown in the figure below, when no operation is performed on the sidebar, it will automatically collapse, as indicated by the icon on the right. When a user needs to interact with the sidebar, clicking the hidden sidebar icon will cause the sidebar to expand and display as shown on the left.



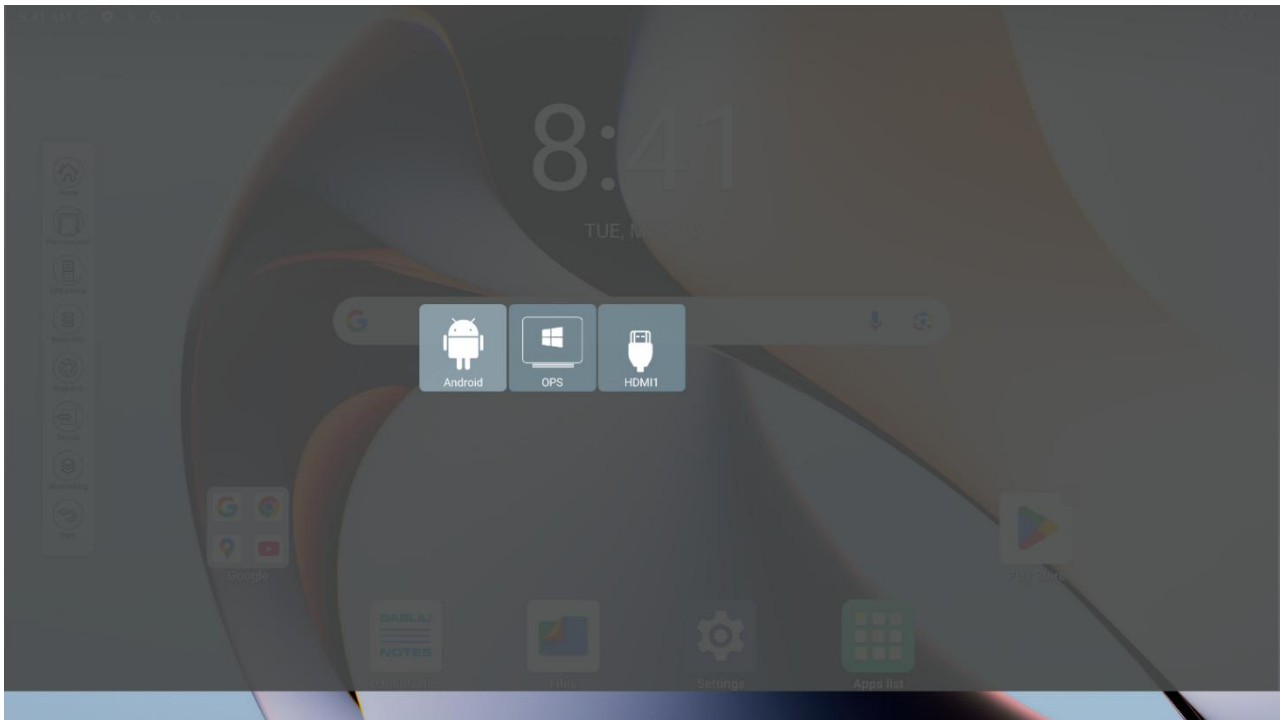
(1) Recent Tasks

Here, users can view the apps they have recently used. By clicking on an individual app, users can re-enter that app. Dragging an app upwards removes it from the Recent Tasks list. Dragging it all the way to the left and clicking the "Clear All" button will clear all recent tasks.

Users can also click on "Screenshot" and "Split Screen" to take a screenshot of the current app's interface or split the screen between the current app and another app, respectively.



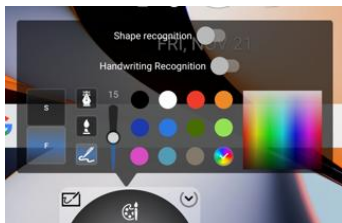
(2) Source List



Users can view all channels in the Source List and click to enter the corresponding channel page. When a signal is input, the gray dot on the right side of the corresponding channel entry will turn bright green. When switching signal sources, a small green dot will appear in the top-right corner of the relevant channel entry in the menu.

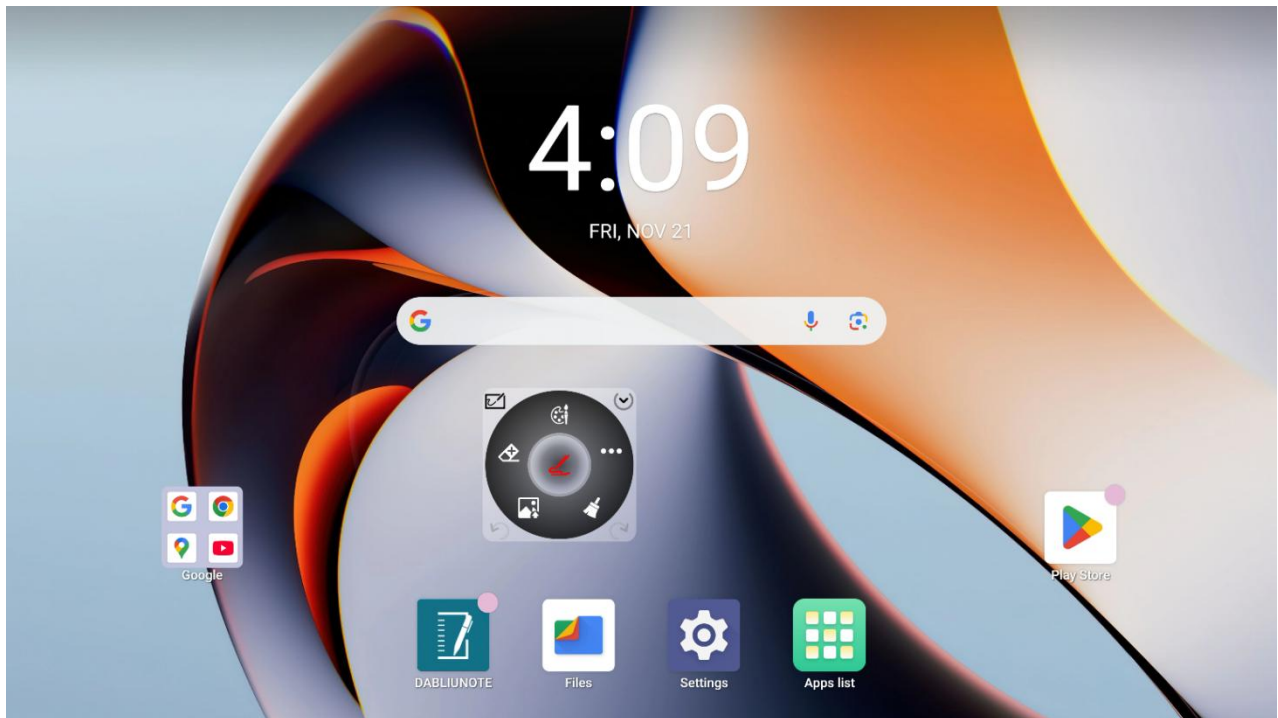
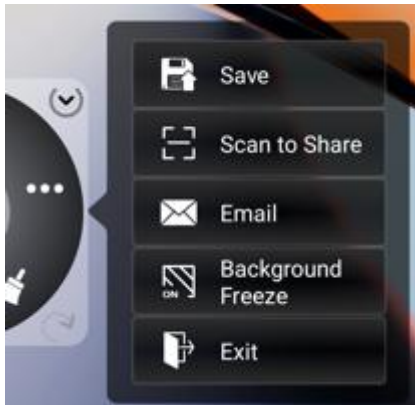
(3) Annotations

-  : Open Blackboard.
-  : Minimize Annotations.
-  : Undo
-  : Redo
-  : After clicking, you can select the type of pen, its thickness, text recognition, and shape recognition.

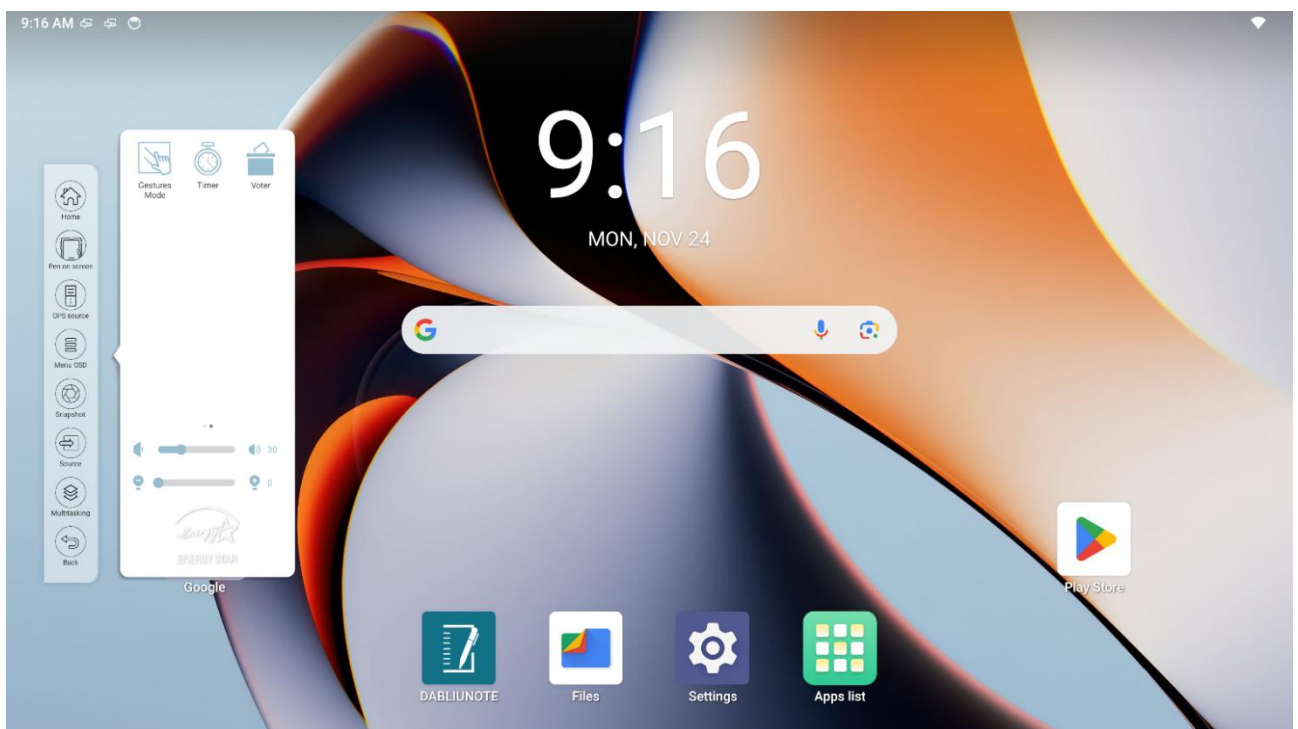
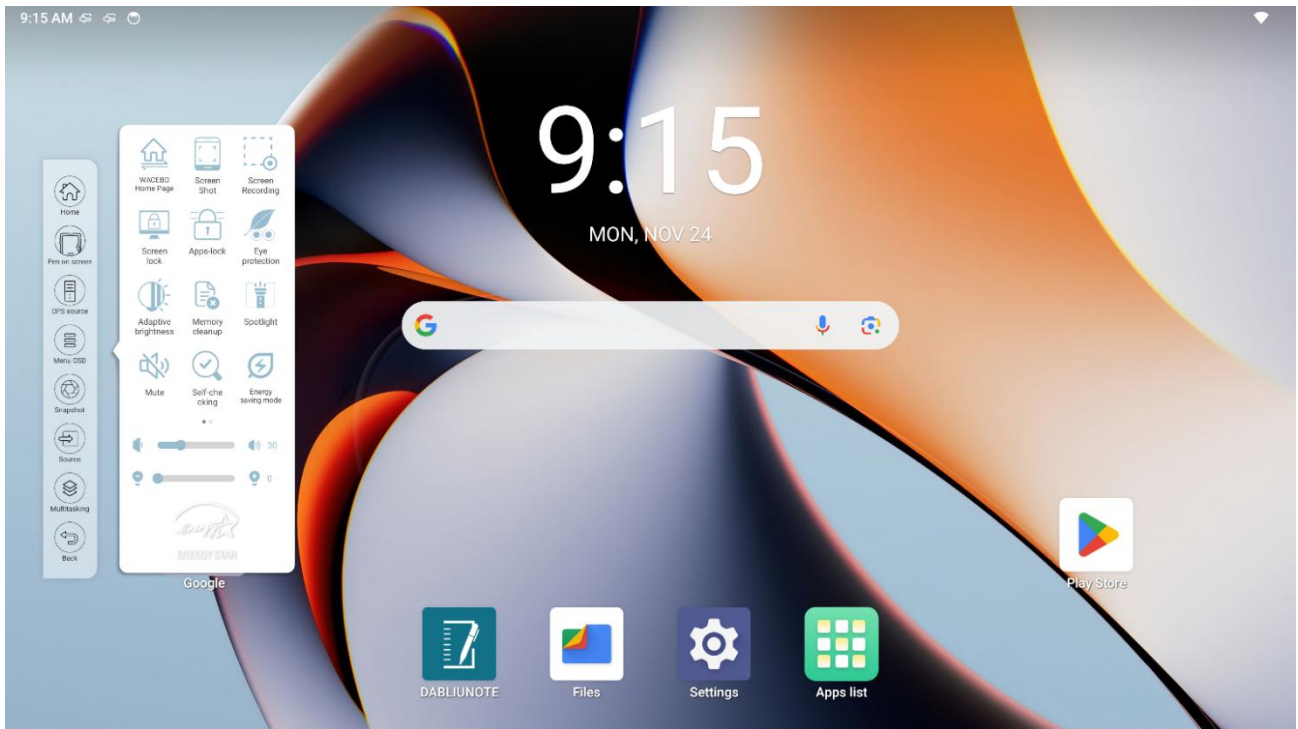


-  : Eraser
-  : Insert annotated content into the whiteboard; Clear Screen.
-  : Clear Screen

-  : More Applications, including: Save, Share, Share via Email, Freeze Background, Exit.



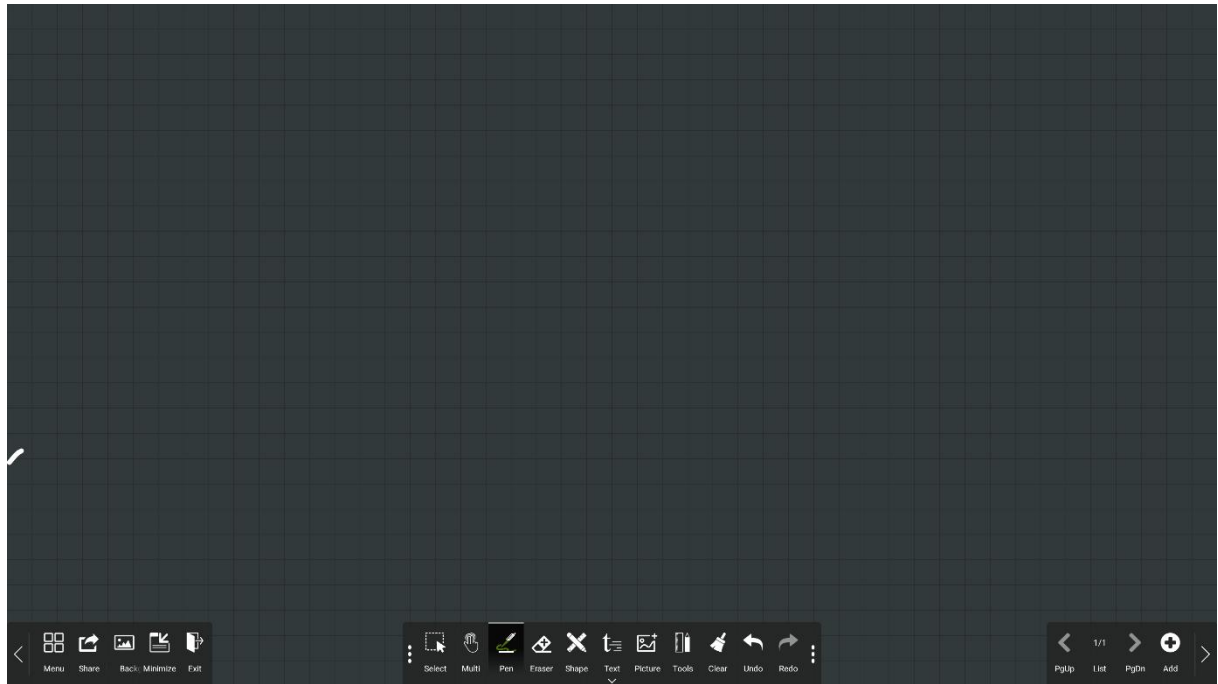
(4) Toolbox



- Themes: Google Theme and Wacebo Theme.
- Screenshot: Capture the current interface.

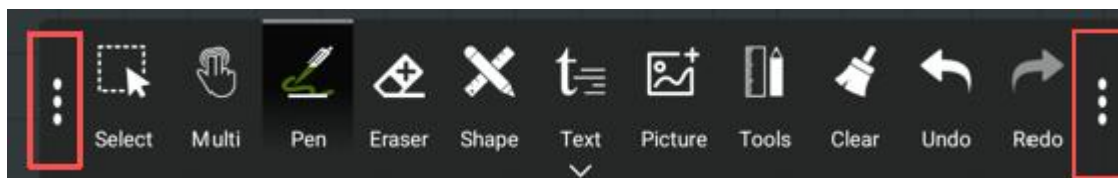
- Audio Recording: Record operational actions as well as media sound or microphone sound.
- Screen Lock: After setting a screen lock password, clicking will enter the lock screen interface.
- App Lock: Click to enter the App Lock interface; after entering the password, click on the app you want to lock.
- Eye Protection Mode: After clicking, the screen turns warm-toned.
- Auto Brightness: Adjust brightness automatically according to the environment.
- Memory Cleanup: Clear out excess memory.
- Spotlight: Creates a bright area (adjustable) with dimmer surroundings.
- Mute
- Device Self-Check: Upon activation, it checks the system's CPU, GPU, system memory, touch frame, motherboard temperature, OPS, and network connection status.
- Energy Saving Mode: After activation, the brightness will dim after a period of inactivity.
- Gesture Mode: Change the navigation bar operation method.
- Time
- Voting Tool

4、 Introduction to Whiteboard Functions



(1) Movable Toolbar

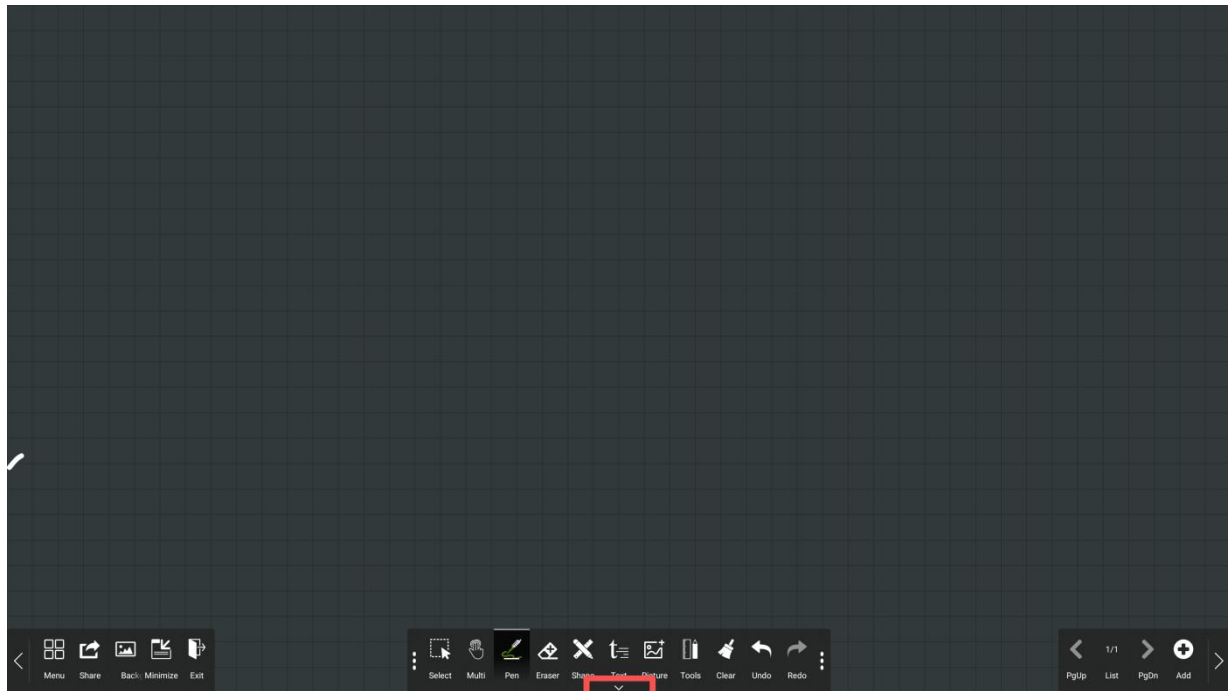
1 Move Cursor



Touch either of the " | " icons on either side of the toolbar with a single finger and drag left or right to make the toolbar move in the direction your finger moves.

2 Hide Cursor

By touching the toolbar hide button (as shown in the image below) with a single finger, you can conceal the bottom toolbar, resulting in a cleaner whiteboard interface and more prominent display of content.



-
- The drawing pen supports six pen types, listed from top to bottom: fountain pen, brush pen, regular pen, "F" (which likely represents another specific pen type), and "S" for handwriting.

The two options above, listed from top to bottom, are Shape Recognition and Text Recognition.

Shape Recognition: Recognizes common shapes such as triangles, circles, ellipses, rectangles, etc.

Text Recognition: Automatically generates corresponding text files after writing.

4 Eraser

Eraser function

When the eraser function is selected, users can erase lines drawn on the electronic whiteboard, and the adjustment bar for eraser size on the right will light up.

- The eraser size adjustment is used to regulate the size of the eraser, supporting adjustments from 50 to 240 units, with a default setting of 50 units.
- The eraser function does not support color selection from a color palette; by default, lines of all colors can be erased.
- The eraser function can only erase lines drawn with the pen tool and cannot erase shapes created with graphic tools or inserted images.
- Touching lines, images, or graphic tools on the electronic whiteboard can clear the corresponding content, or using the circular eraser function to encircle an object can also clear the content.

Circular Eraser Function

When the circular eraser function is selected, users can erase lines drawn on the electronic whiteboard, and the color adjustment panel on the right will light up.

- The size adjustment feature is not supported, so the default size adjustment bar appears grayed out.
- By default, the circular eraser selects the entire color spectrum for erasure. It also supports erasing lines of only specific colors. For example, when black is selected, the circular eraser can only erase black lines, and lines of other colors will not be erased even if touched.

Back-of-Hand Eraser Activation

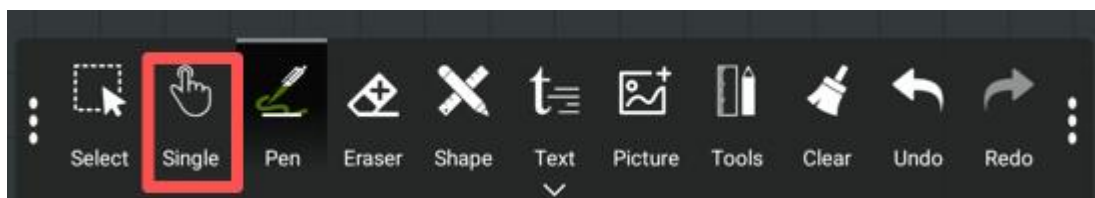
Users can erase lines while writing by touching the drawn lines with the back of their hand, without needing to select a specific line. The requirement for activating the eraser with the back of the hand is a minimum contact area of 30mm (both in length and width); the larger the contact area, the larger the eraser

that appears.

6 Single-Point/Multi-Point

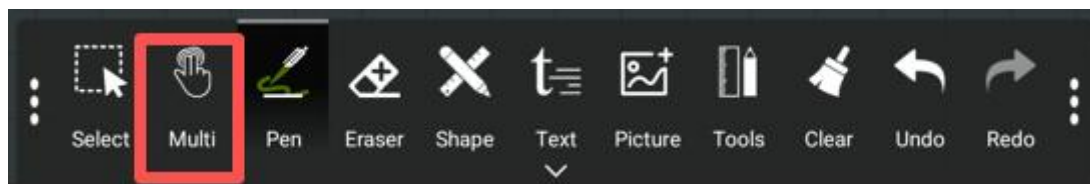
Users can switch between single-finger drawing and multi-finger drawing.

Single-point mode: The whiteboard supports single-finger touch drawing and other operations. Using two fingers to touch the large screen enables zooming functionality (supporting zooming in and out of the entire screen). Using three fingers to touch enables panning functionality (supporting dragging the entire screen view).

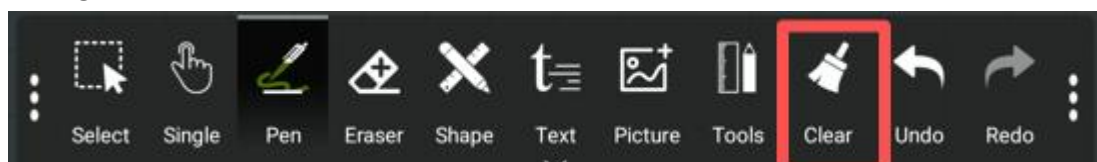


Multi-point mode: Multiple fingers can simultaneously touch the large screen to draw lines, supporting multiple users (multiple contact points) writing on the whiteboard

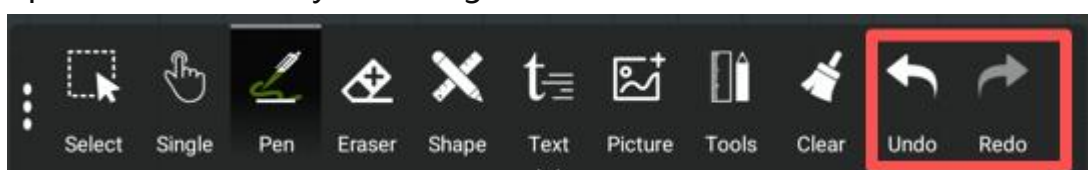
simultaneously.

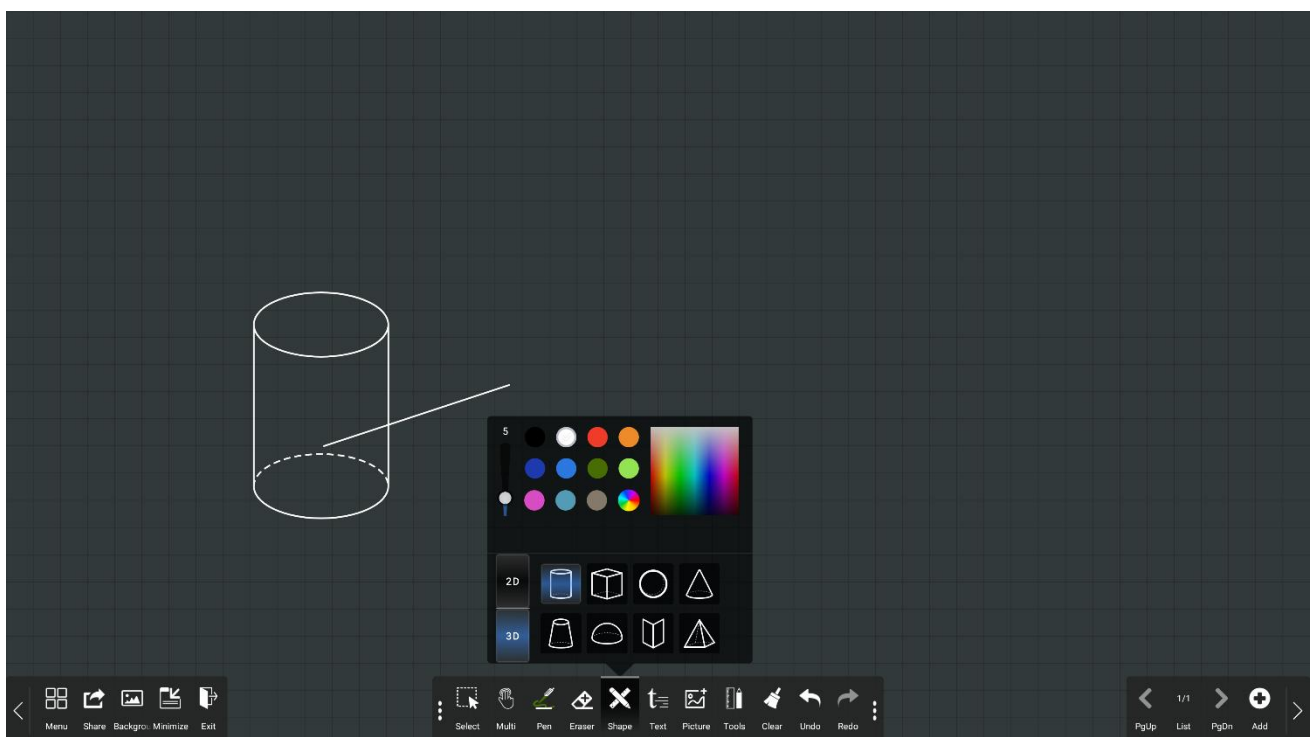
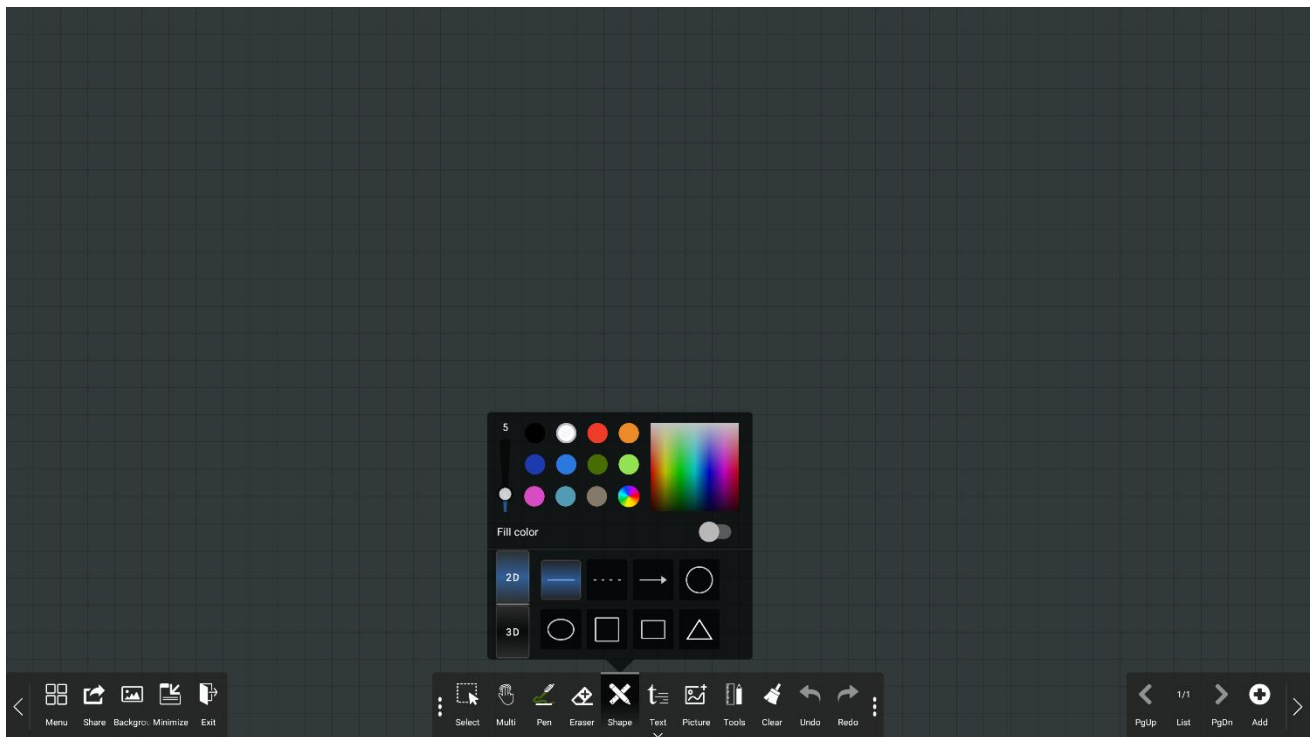


This function clears all content on the current page, including strokes, shapes, text, tables, mind maps, sticky notes on the current page, and graphics and text converted from stroke recognition.



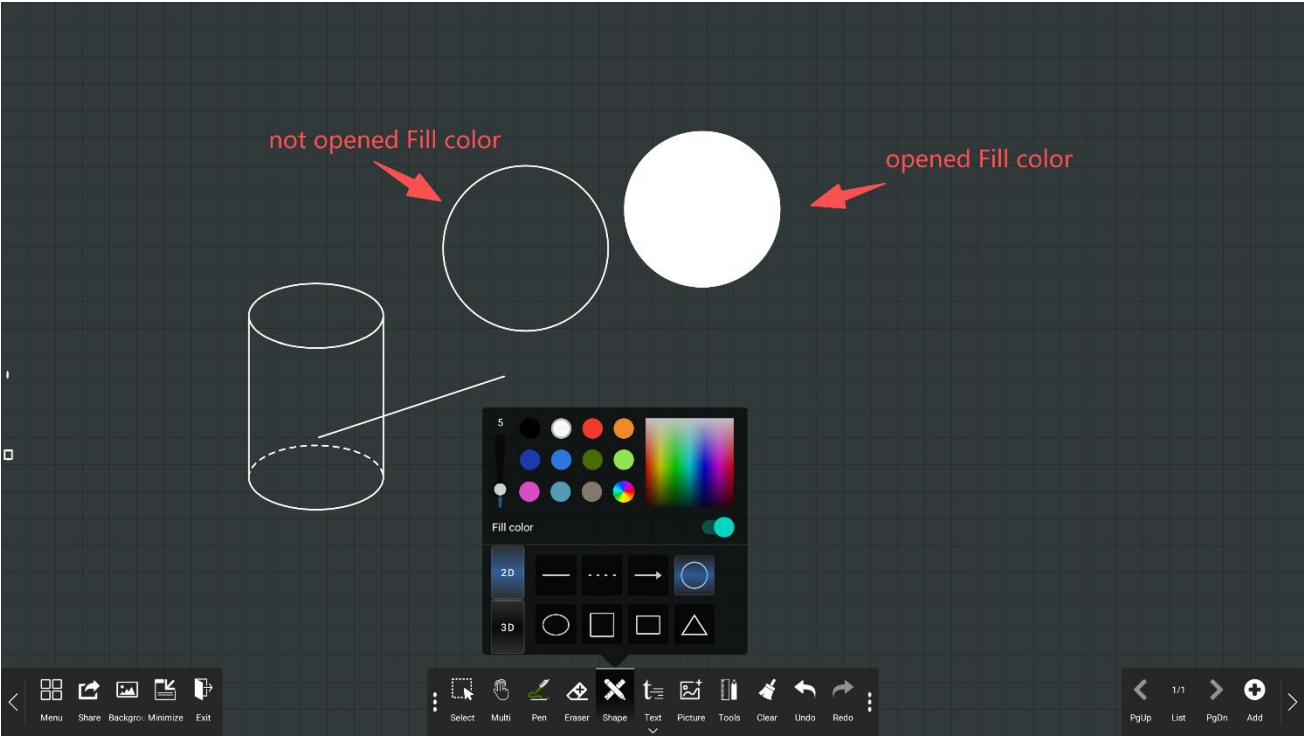
Undo the previous operation. If the screen is accidentally cleared, the content before clearing can be restored using the undo function. Redo the previous operation, effectively canceling the undo.



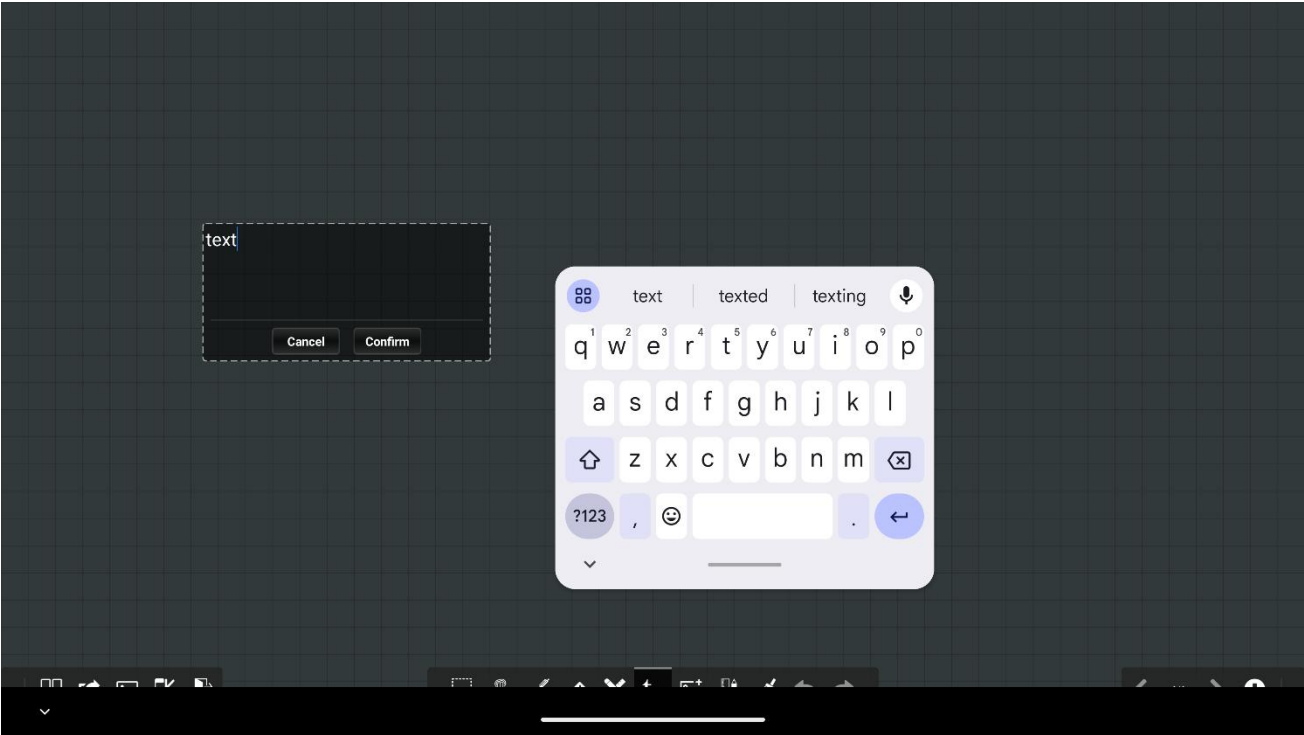


Shapes are categorized into 2D and 3D. Before drawing a shape, you can adjust the line thickness, color, and also fill hollow

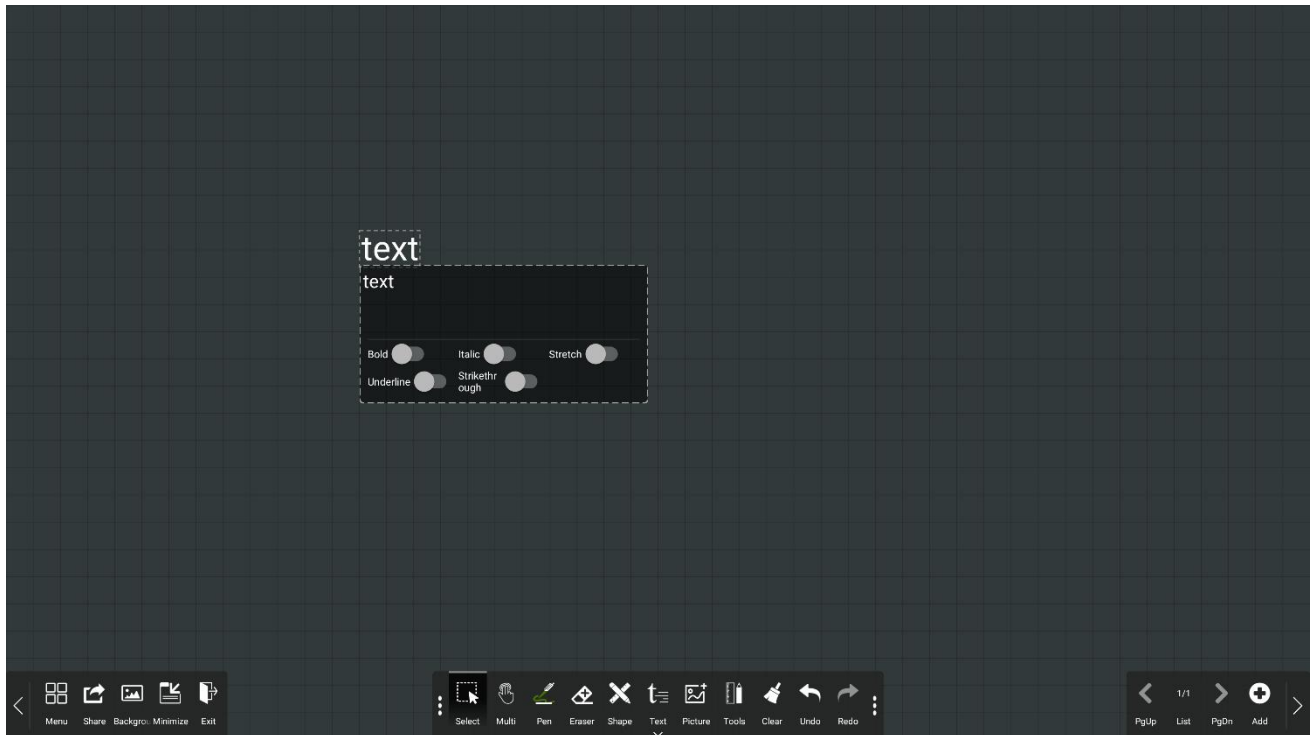
shapes.



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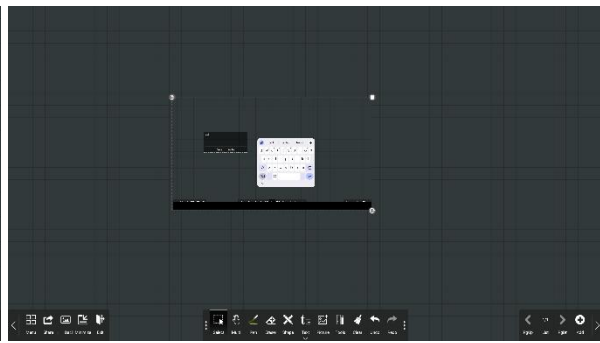
Click anywhere on the whiteboard to display a text input box. After entering the content, use the selection tool to select the text you just wrote. In addition to options for copying and rotating, there is also a settings option. Clicking into it allows you to change the font.



Click on "Images," and a selection interface will pop up. On the left side, you can choose images from devices or cloud storage. After clicking on an image to insert, the image will be displayed on the whiteboard.

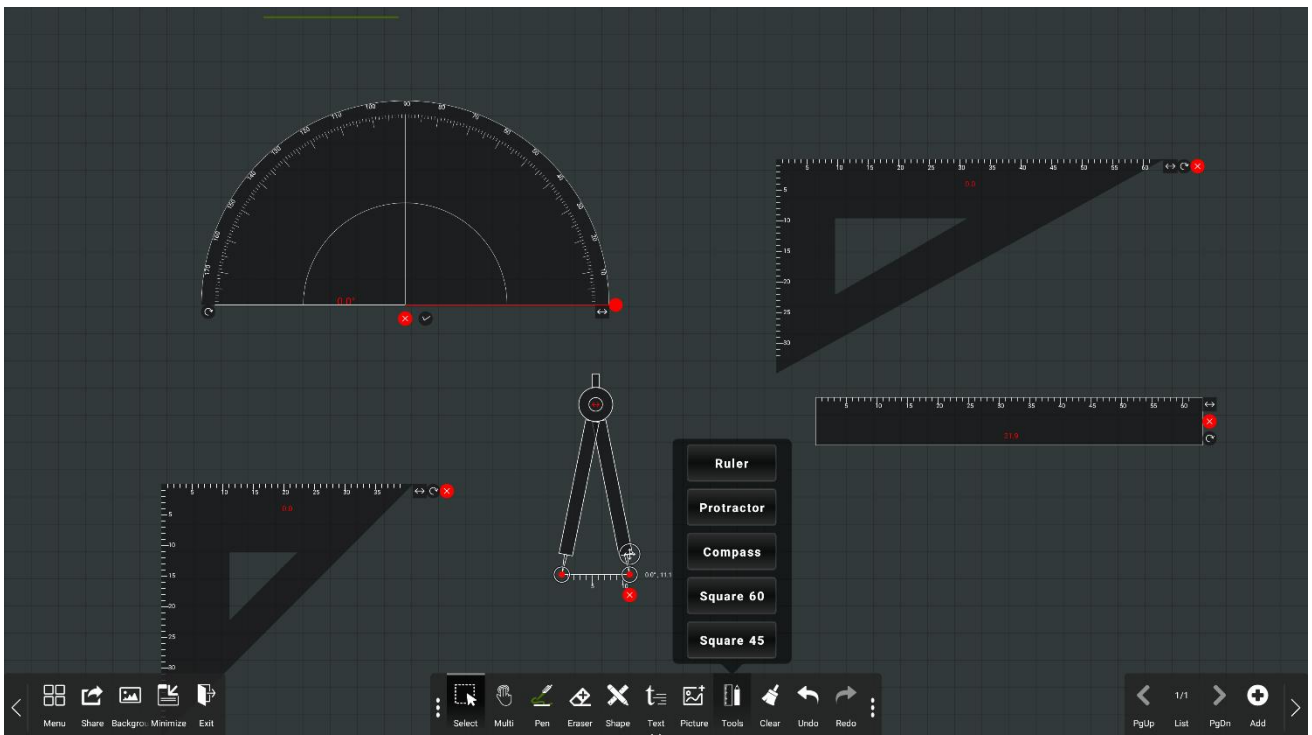


Before inserting an image



After inserting an image

Click on "Tools" to select the required tool, including a compass, 60-degree and 45-degree set squares, a straightedge, and a protractor.

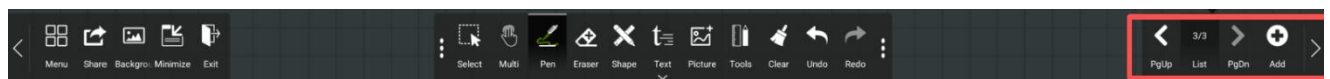


10 Whiteboard Page Management

Page Switching: When the number of whiteboard pages is ≥ 2 , the page switching buttons become active and operational. Click the left arrow < to switch to the previous whiteboard page from the current one, and click the right arrow > to switch to the next whiteboard page from the current one.

Add: Click the "+" for adding a new page to insert a blank whiteboard page into the whiteboard list.

Preview: Click on the list information (current page number/total number of pages) to view previews of all pages in the preview window.



Delete: Enter the preview window and click the delete button in the bottom-right corner of a specific page to remove that page from the page list. The deleted page will be placed in the page trash bin.

Page Trash Bin: Click the trash can icon to the right of the whiteboard list title to access the page trash bin. Users can select to permanently delete all pages by clicking the clear button in the page trash bin. Pages within the trash bin also support individual operations: clicking the exit icon in the bottom-left corner restores the page to the list, while clicking the delete icon in the bottom-right corner permanently deletes the page.

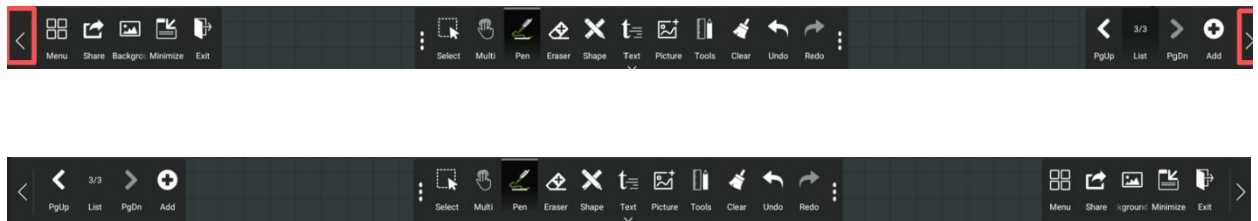
(2) Side Toolbar

1 Swap Button After clicking this button , the side toolbar

of the whiteboard will switch to the opposite side. The

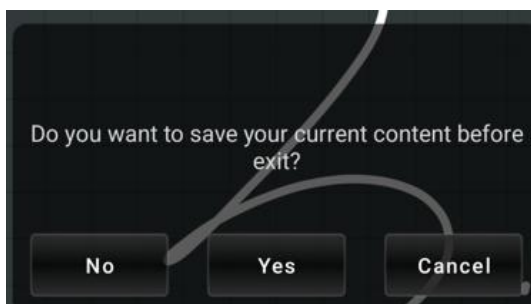
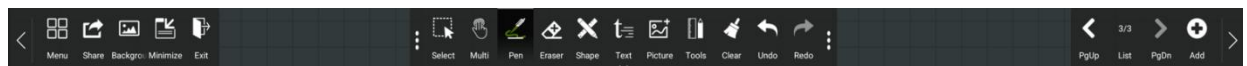
position change is illustrated in the following

diagram.

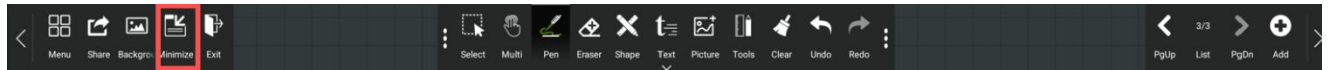


2 Exit

Button



The minimize button allows users to quickly collapse the whiteboard application to the background. When users return to the collapsed whiteboard application, the content remains in the same state as before it was minimized, and users can continue their operations.



○ 4 Menu



Open File : Users will open files through the window shown in the left image. The window supports users in quickly locating the desired files through two methods: browsing by category or by storage location, and viewing files in either list or grid display mode. The

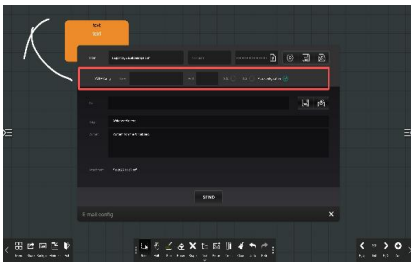
categories supported for browsing include WBF, images, SVG, PDF, video/audio, and models. The supported storage locations include internal storage of the entire device, external storage devices connected to the device (USB drives, hard drives), OneDrive, Google Drive, Dropbox, and SMB devices.

The SMB device functionality enables the large screen to establish a connection with shared documents on a PC and access the content of those shared documents at any time.

Authorization Code (③): Enter the sender's email authorization code here (the authorization code obtained after enabling IMAP/SMTP services).

SMTP Configuration (④): Click here to expand the window and enter SMTP information for configuration.

Save Sender Information (⑤): Click to save the current sender's information.



Quick Email Information (circle symbol): Provides users with quick selection options for sender/recipient information.

Recipient Email Address (⑦): Enter the recipient's email address here.

Subject/Content/Attachments (⑧/⑨/⑩): Enter the email subject/content/attachment files here.

Confirm (⑪): Send the email.

—

One device (the master) controls another device (the slave), synchronizing the touch data from the whiteboard canvas to the slave device or controlling the slave device to clear any drawn lines on the whiteboard. It supports three major interactive functions:

Writing : The writing data from the master device can be transmitted in real-time to the slave device, and the slave device can choose to synchronize the writing as needed. The slave device with synchronized writing enabled can display the same content as the master device.

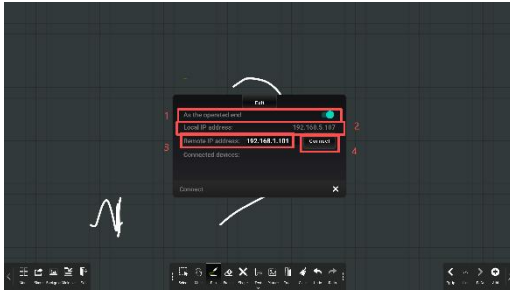
Screen Clearing : The master device can control the slave device to clear its screen, while the master device's screen remains unchanged.

Manual Synchronization : The writing configurations (size, color, and input mode) of the master device can be synchronized to the slave device when the slave device has the "Allow Remote Operation" setting turned on.

Steps for Collaborative Mode Operation:

1. Ensure that Device A and Device B are on the same local area network.
2. Device A opens and creates a service.
3. Set Device A's "Act as the Operated End" setting to ON, making Device A the slave device.
4. Set Device B's "Act as the Operated End" setting to OFF, making Device B the master device.
5. On Device B's join interface, enter Device A's IP address and click the connect button.
6. Once the connection is successful, the bottom of the page will display.

Connected Device: XXXXX (Device A's name)



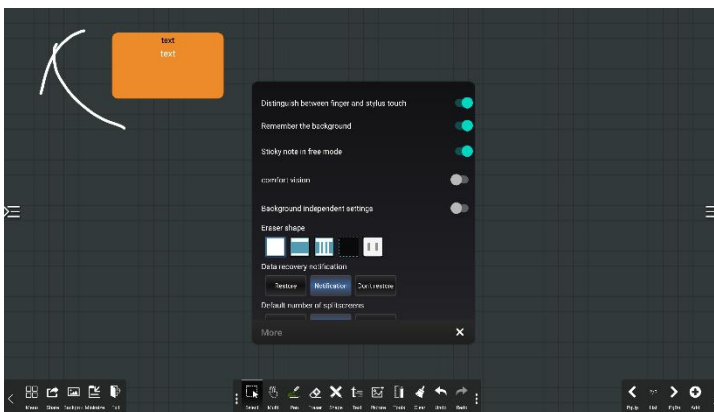
Allow Remote Operation (①): When the main switch is turned on, the drawn lines from connected devices will be synchronized to this device.

Local IP Address (②): Displays the network IP address of this device.

Remote IP Address (③): Enter the remote IP address of the host device that creates the service.

Connect (④): Connect to the device with the specified remote IP address.

More Settings:



Distinguish between Finger and Stylus Touch: When enabled, this feature differentiates between finger and stylus input based on the contact area with the screen, allowing for different line

thicknesses depending on the writing tool used.

Annotation Finger Penetration Control: When this feature is enabled, the annotation toolbar will display this option, allowing users to continue interacting with the large screen while writing annotations simultaneously.

Global Handwriting Input: When enabled, when using a fine stylus to write on the screen in an interface with an input method displayed, the writing trajectory will be synchronously displayed on the screen. After lifting the stylus and waiting for 1 second without further writing, the device will recognize the written content on the screen as standard text and insert it into the input box.

Remember the Background: When enabled, the whiteboard will remember the last set background (even after shutdown).

Smart Eye Protection: When enabled, the whiteboard page will switch to a display mode that is more eye-friendly.

Background Independent Settings: When enabled, users can set different backgrounds for different pages in the page list independently, without synchronization. When disabled, changing the background of one page will synchronize to all pages.

Eraser Shape: Users can choose from five different eraser patterns according to their preference.

Data Recovery Method: Users can select different data recovery methods, including direct recovery, prompt for selection, or no recovery.

Split Screen Default Count: Users can choose the default number of split screens in the simplified split-screen mode, with options for 2, 3, or 4 screens.

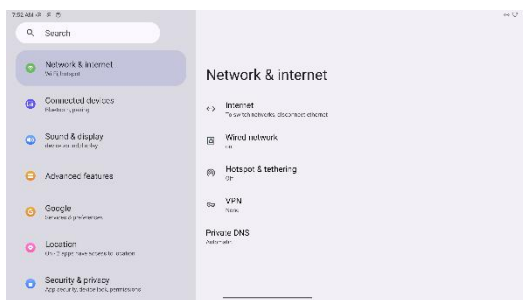
Translation Settings: Users can set the languages for mutual translation, supporting 54 languages.

Use Annotation Page Mode: When enabled, users can use multi-page mode while annotating.

Web Browser Home: Users can modify the homepage of the web browser in the toolbox, supporting Bing, Google, and Baidu.

Web Search Engine: Users can modify the search engine of the web browser in the toolbox, supporting Bing, Google, and Baidu.

5、 Introduction to Settings Menu Functions



(1) Network

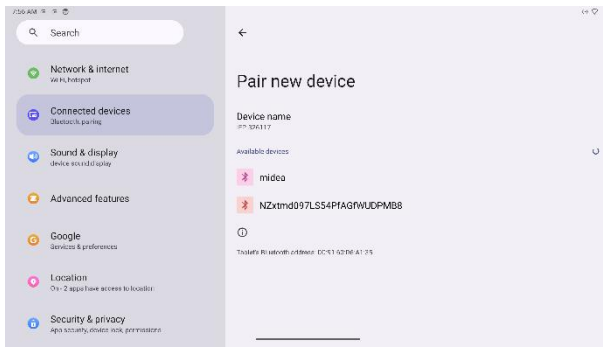
Supports wireless network connections, wired network connections, hotspot and

network sharing, and VPN functionality.

(2) Connected Devices

Supports operations and interactions with other devices connected via Bluetooth to the entire unit, such as file transfers.

For devices equipped with an additional NFC module, users can add or remove cards and control NFC functions here.

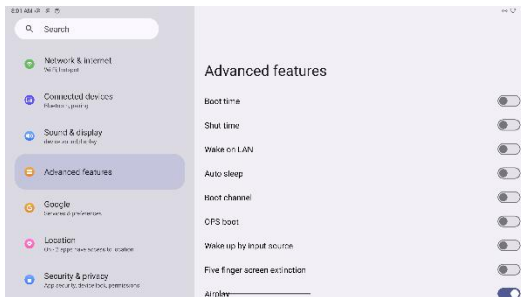


(3) Sound and Display

Sound and vibration settings allow users to adjust the volume of various components separately, such as audio, notifications, alarms, etc. Users can also modify and toggle default notification sounds.

Display settings enable users to adjust large-screen display-related settings, including adaptive brightness (requires the unit to support a light sensor module), lock screen display, screen timeout, theme and size display, and HDMI display settings.

Wallpaper and Style: Users can customize the home screen and lock screen wallpapers of the entire unit and toggle dark theme and theme icons.



(4) Advanced Functions

Startup Time/Shutdown Time: Supports setting automatic startup/shutdown of the entire unit at specified times.

Temperature Display: Supports displaying the temperature in the top-right corner of the unit, with options for Celsius or Fahrenheit.

Wake-on-LAN: When the large screen and a Windows computer are on the same local area network, the Windows computer can be used to wake up the large screen from standby mode.

Auto Sleep: When in a signal source channel, if there is no signal source for an extended period and the unit has not received any user operations, the large screen will automatically enter sleep mode.

Startup Channel: Supports setting the entire unit to directly enter a specific channel or Android upon startup.

OPS Startup: Used to configure the OPS power-on function, which is disabled by default in the system. **Signal Source Wake-up:** By linking the device with a wake-up-enabled port, the large screen in standby mode can be awakened.

Five-Finger Screen Off: When five fingers simultaneously touch the large screen, the screen can quickly enter the off state.

Network Wake-up Operation Method:

- 1.The large screen needs to have the network wake-up function enabled.
- 2.The large screen is connected to a wired network.
- 3.The Windows computer and the large screen are on the same local area network.
- 4.The Windows computer uses a network wake-up tool to search for the IP address and MAC address of the large screen.
- 5.Manually place the large screen in standby mode.
- 6.Finally, use the Windows computer with the network wake-up tool to wake up and power on the large screen.

Note: When this function is enabled, it will increase the standby power consumption of the large screen.

OPS Startup: When enabled, the system will determine whether the OPS automatically powers on when the large screen is turned on.

- 1.OPS Channel-Specific Definition: If the OPS startup channel is set to the OPS channel, then the OPS will start up when the large screen is powered on. Conversely,

if the large screen's startup channel is not set to the OPS channel, the OPS will not automatically turn on.

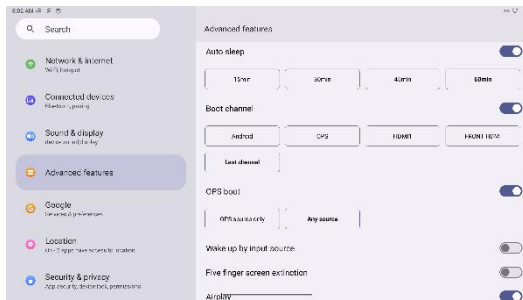
2.Any Channel Definition: When the large screen is powered on, the OPS will automatically start up regardless of the channel it is on.

HDMI Wake-up Function Operation Method:

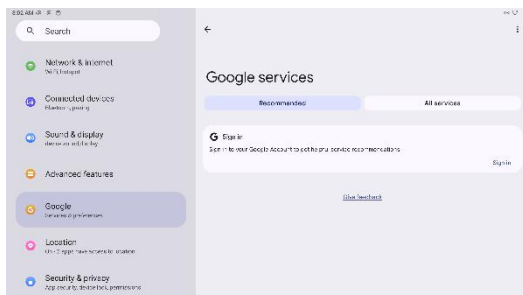
1.Place the large screen in standby mode.

2.Connect an active HDMI cable to the HDMI IN port of the large screen to wake it up.

(5) Google



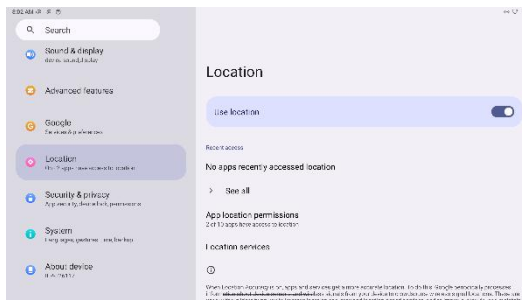
Google Account: This category allows users to view the currently logged-in Google user information and perform operations on their own Google account information, such as accessing the Find Center, autofill, Google Wallet, cross-device services, etc.



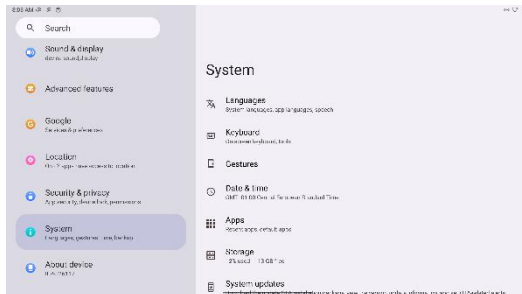
(6) Location Information

This category supports independent management of the private location information of the entire device being used, such as viewing recently accessed applications that have obtained such information and controlling the permissions of applications regarding the use of location information.

(7) Security and Privacy



This category supports protection operations for the security and privacy of the entire device being used. Users can enable the Play Protect mechanism here, set unlock passwords for the device, and choose what information to display on the lock screen.



(8) System

This category supports operations on various functions of the entire device, including

changing the system language, keyboard, gestures, date and time, applications, storage, system updates, multi-user settings, and factory reset, among others.

(9) About Device

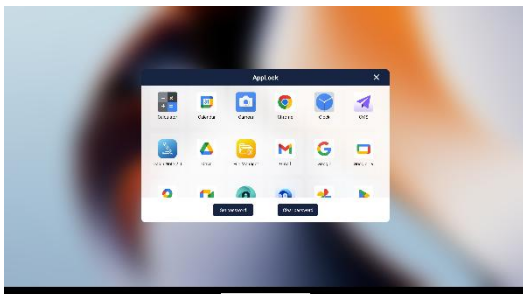
This category allows users to view and change the device name, view device information, IP address, MAC address, startup time, and firmware

version.

6、 Applications

(1) Apps Lock

This category is used to set lock permissions for applications. When an



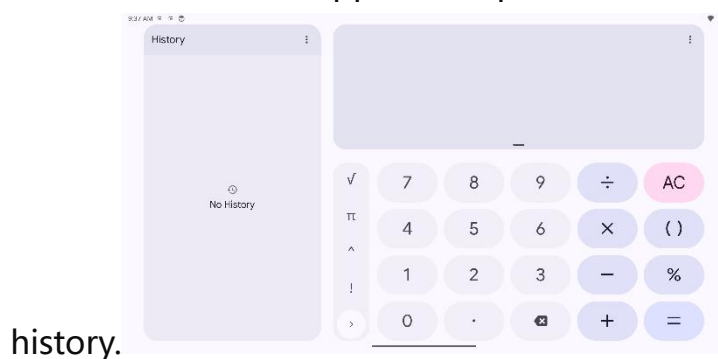
application is locked, entering the locked application interface requires inputting the application lock password correctly.

Usage Instructions :

- Set a four-digit password.
 - Select the range of applications to be locked by clicking on them. The icons of the selected applications will display a small lock symbol.
 - To change the password, you need to enter the current password again and then input the new password twice for confirmation.
 - When the application lock is no longer needed, you can remove it by using the "Clear Password" function and entering the current password.
-

(2) Calculator

The calculator supports simple calculations and saves calculation



(3) Vote

The voting device reflects public opinion and is an effective way to promote democracy, assisting teams in making decisions on major issues.

Steps for Voting Setup:

Voting Topic/Options (Required): Clearly state the topic of the vote and provide at least two voting options. **Option Type:** Specify whether the voting options are single-choice or multiple-choice.

Network: The network can be either external or internal. When external network is selected, the large screen and participants do not need to be on the same local area network. When internal network is selected, the large screen and participants must be on the same local area network.

Voter's Name: If this option is checked, voters can fill in their names on the ballot.

Generate QR Code: After setting up the above content, click 'Generate QR Code' and the large screen will display the QR code, which updates the voting status in real-time. If the QR code is too small, click the zoom-in button to enlarge it.

Operation Process for Participants:

1. Participants use their mobile phones to scan the QR code to vote.
2. Select the desired options.
3. Click the 'Vote' button.

On the large screen, click the 'View Results' button, and a confirmation box will pop up asking whether to end the vote. During the period of viewing the voting situation, voting is temporarily suspended. The voting results will be analyzed and presented in the form of bar charts or pie charts. Users can also browse the detailed voting information.

The voting results support being inserted into a whiteboard or enlarged to full screen for viewing.

(4) OTA Upgrade

The OTA (Over-the-Air) functionality enables users to upgrade the system firmware. Users can perform the upgrade either via a network connection or through a local USB drive. During the upgrade process, it is prohibited to operate the entire device or disconnect the power.

Through settings, users can choose options such as automatic update detection upon system startup, automatic update detection upon system shutdown, and automatic installation.

(5) Record

Recording APK: It can be used to capture external audio sources from the large screen, recording classroom lectures or meeting contents.

Operation Method:

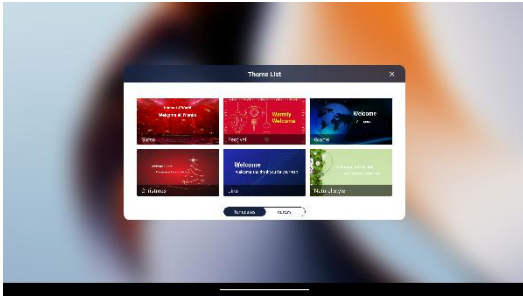
1. Click the record button.

2. The recording application interface will then display buttons to stop or pause recording.

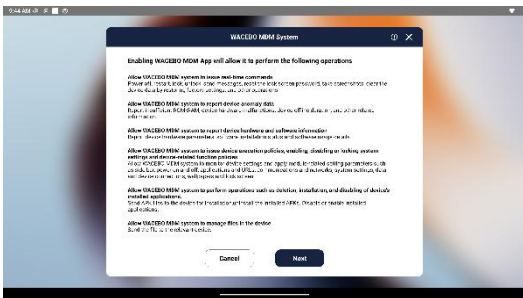
3. When there is an external audio source, the recording application interface will show green sound waves, allowing users to easily know whether the large screen has picked up the external audio source.

4. By long-pressing (for 1 second) on a recording file on the right side of the recording application, users can perform secondary operations on the recording file, such as playing it, jumping to the system player for playback, renaming it, or deleting the recording file.

(6) Welcome



This feature supports displaying important information such as welcome messages and meeting themes in full screen on the large display of the device during meetings or events. Users can choose their desired themes and edit the corresponding content themselves.

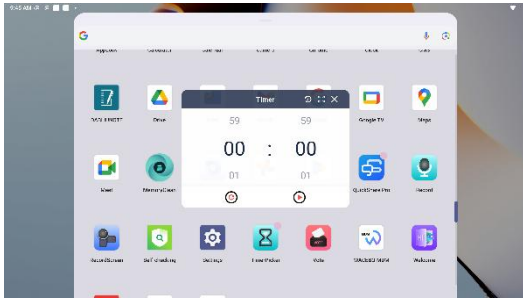


(7) MDM

The Fuchuangtong MDM (Mobile Device Management) system is deployed on a cloud platform. Regardless of location, it enables device administrators, IT administrators, or project leaders to quickly and centrally monitor, manage, and support device usage without geographical limitations.

(8) Timer

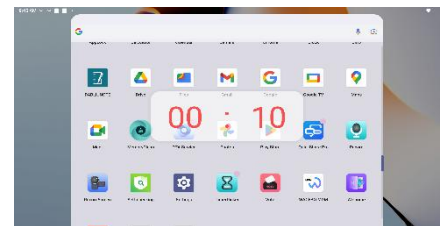
Supports quick opening of a timer with a maximum countdown setting of 1 hour.



countdown. 

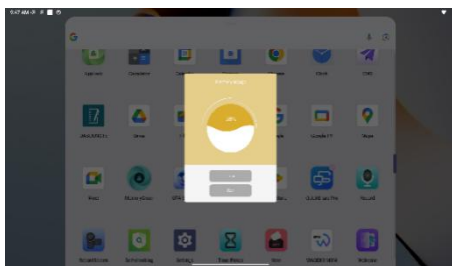
- Start Timer: After setting the time, click the Start button. 
- Reset Timer: First, pause the timer, then click Reset Timer to restart the

- Close Timer: Click the × in the top-right corner of the timer to close it. 
- Minimize Timer: After the countdown starts, if there is no operation for 10 seconds, the timer can automatically minimize and become transparent.



- Expand Timer: Click the magnify button in the top-right corner of the timer  to enlarge it to full screen.

(9) Memory cleanup

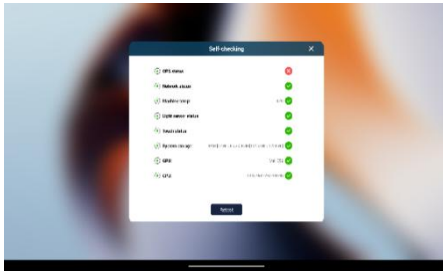


It is used to clear background applications in the system and free up memory space.

Users can view the current system's memory usage status. By using the clear function, they can forcibly close applications that are occupying memory in the background.



Clicking "Exit" allows users to leave the current screen.



(10) Self-checking

It is used to check whether the device's memory, remaining storage capacity, light sensor, network status, OPS (Open Pluggable Specification) status, and touch status are functioning normally.

Environmental Conditions

Operation Temperature	0°C~40°C
Operation Humidity	10%~90%RH
Storage Temperature	-20°C~60°C
Storage Humidity	10%~90%RH
Altitude	≤5000m

Interface electronic parameter

Item	Power Supply
USB-C Side	5V 0.5A
USB 3.0	5V 0.9A
USB 2.0	5V 0.5A

Energy Star:

This machine has been certified by Energy Star. Click on the machine's sidebar, and there is an icon switch for energy-saving mode. Once turned on, you can activate the energy efficiency mode. The machine sidebar displays the "Energy Star" logo

Note: Turning off power-saving mode will result in higher energy consumption by the machine.

FCC Statement

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

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

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

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

RF Exposure Information

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