WenTech

MP SERIES
Interactive Flat Panel
User manual

Anhui Wenxiang Information Technology Limited Company
Wenxiang Technology Park, South West Fengming Avenue, Wanjiang Jiangnan
Emerging Industry Concentration Zone, Chizhou, Anhui, P.R. China

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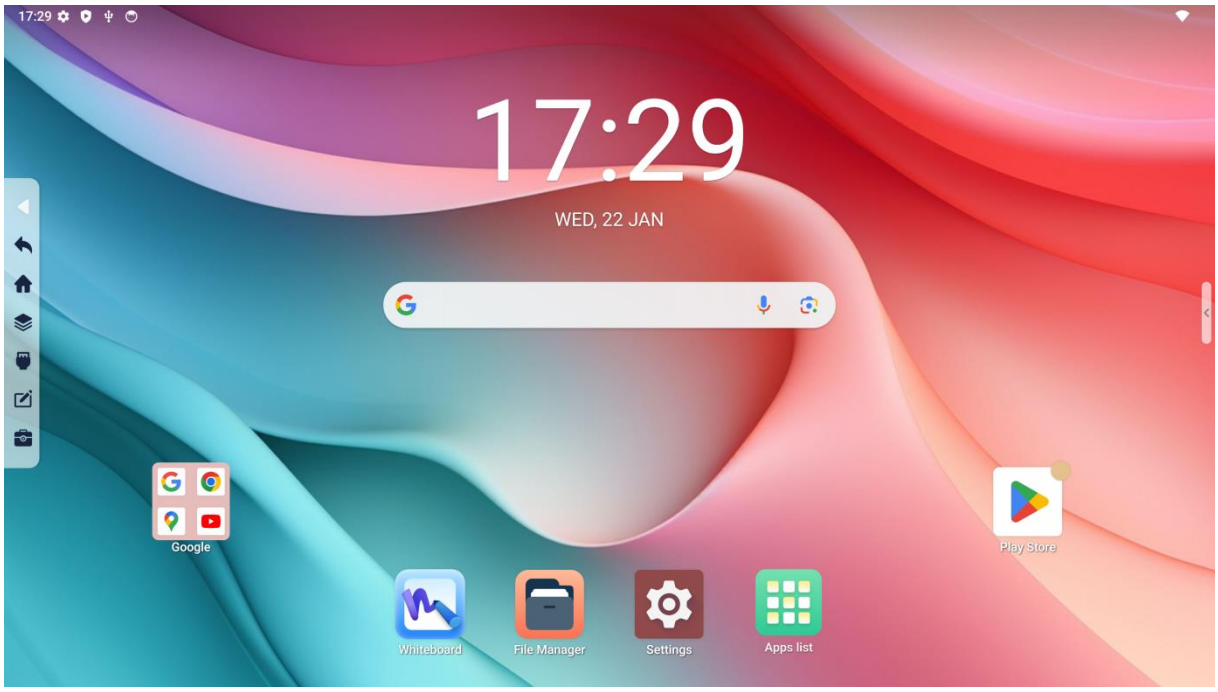
1. Overview

RK3576.10 uses Android 14 and has passed the Google EDLA certification specification.

Firmware homepage



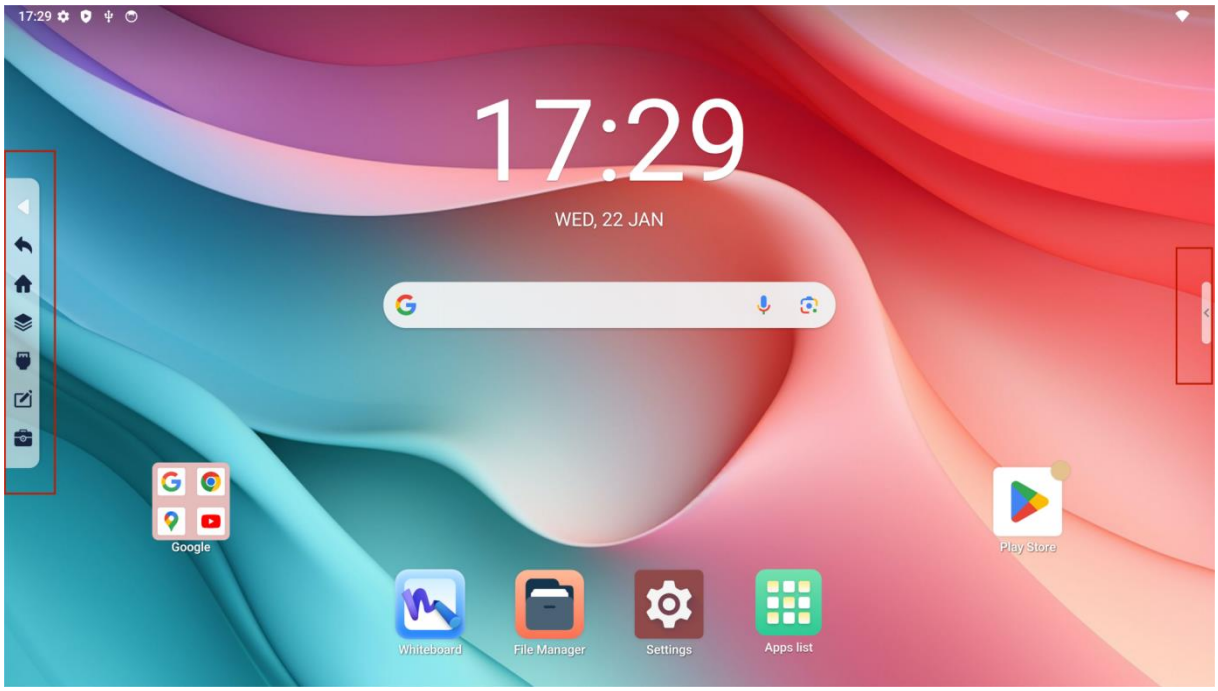
2. Ports description

- VByOne (fixed 3840*2160 @60Hz)
- OPS (maximum support 3840*2160 @50/60Hz)
- HDMI1 IN (maximum support 3840*2160@60Hz)
- HDMI2 IN (maximum support 3840*2160@60Hz)
- DP IN (maximum support 3840*2160@60Hz)
- Rear TYPE-C IN (supports up to 3840*2160@60Hz, PD 20V/3.25A/65W, USB 3.0)
- HDMI OUT (supports up to 3840*2160@60Hz)
- RJ45-1 (supports up to 1000Mbps)
- RJ45-2 (supports up to 1000Mbps)
- Android USB3.0
- Android USB2.0
- VGA IN(supports up to 1920*1080@60Hz)
- VGA LINE IN (supports3.5mm headphones)
- MIC IN (supports3.5mm headphones)
- LINE OUT (supports3.5mm headphones)
- SPDIF OUT (Optical socket)

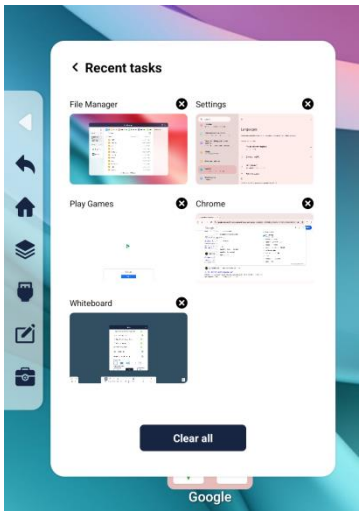
3. Sidebar Menu

Used to store convenient tools and quick operations for commonly used operations on the large screen, including return, home page, recent tasks, signal source, annotation, and toolbox.

As shown in the figure, when the sidebar is not operated, the sidebar will automatically collapse as shown by the icon on the right. When the user needs to operate the sidebar, click the sidebar hidden icon, and the sidebar will expand and display as on the left.



3.1. Recent Tasks

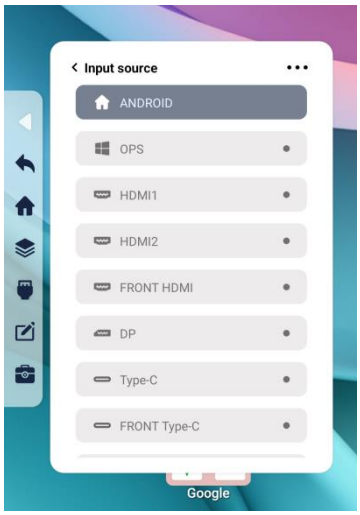


Here you can see the applications that the user has recently used.Click on a single application, and the user can enter the application again. Click the icon in the upper right corner of the application

, and the user can delete this application from the background.

Click the clear button below to clear all background applications.

3.2. Signal Source List

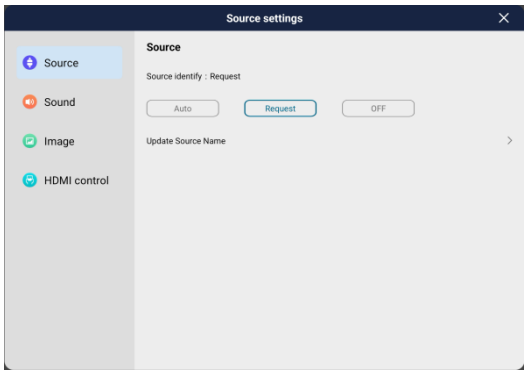


Users can view all channels in the signal source, and click on a channel to enter the corresponding channel page. When there is a signal input, the gray black dot on the right side of the corresponding channel column will turn bright green.

When entering the channel, the background color of the corresponding channel column in the menu will change from light gray to dark gray to display prominently.

You can enter the signal source menu here.

3.2.1. Source Menu - Source



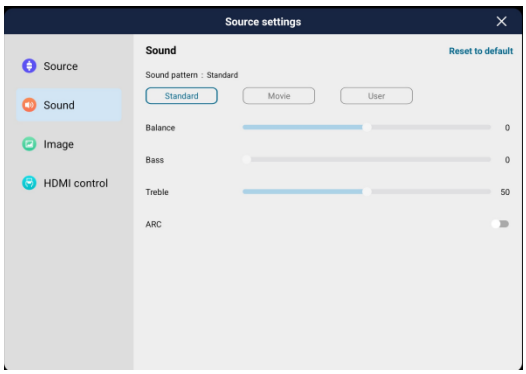
Users can adjust the overall machine's response to external input signals according to their preferences, supporting three modes: Auto, Request, and OFF.

Automatic (Auto): When a signal source is connected to the large screen, the system will automatically switch to that source channel.

Request to Switch (Request): When a signal source is connected to the large screen, the system will prompt whether to switch to that source channel.

Off (OFF): When a signal source is connected to the large screen, the system will not prompt that a signal is connected, nor will it automatically switch to the source channel.

3.2.2. Source Menu - Sound



Users can select the sound mode of the entire machine according to their preferences, supporting three modes.

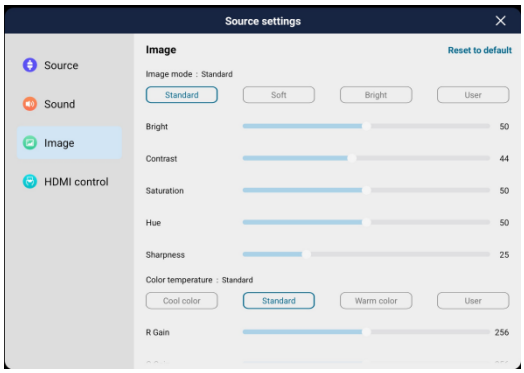
Standard (Standard): The default sound mode for the entire machine, suitable for most environments.

Movie (Movie): A sound mode with fixed parameters that simulates a movie environment.

User (User): A mode that allows users to adjust parameters themselves according to their preferences.

ARC function: Supports users to control the on/off of the ARC function.

3.2.3. Source Menu - Image

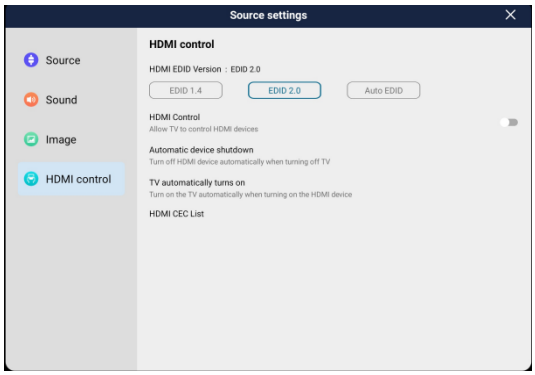


Users can select the overall image mode according to their preferences.

The image mode includes Standard, Soft, Bright, and User modes. Only in User mode can you customize the display mode parameters.

The image mode includes Standard, Cool color, Warm color, and User modes. Only in User mode can you customize the parameters.

3.2.4. Source Menu - HDMI Control



This page setting is only available when the HDMI channel exists.

Supports users to adjust the EDID support version of the HDMI port.

Supports users to control devices that support HDMI CEC function, and choose whether the device follows the whole machine to turn on or off.

Device auto shutdown Automatic device shutdown(HDMI CEC)

After the large screen and HDMI CEC device simultaneously turn on the device auto shutdown function, the CEC device is connected to the HDMI IN port of the large screen using an HDMI cable. Use the remote control of the large screen to press the power button to control the large screen to turn off. The large screen will use the HDMI CEC function to control the CEC device to also enter standby.

Complete machineAutomatic power-onTV automatically turns on(HDMI CEC)

After enabling this function, the CEC device is connected to the HDMI IN port of the large screen using an HDMI cable. When the large screen is in standby mode, the CEC device can be turned on using the remote control of the CEC device. The CEC device will wake up the large screen through the HDMI CEC function.

3.3. Annotation

- Brush : Freely choose from pen, calligraphy brush, regular pen, and highlighter.
- Erase : You can choose the eraser/circle eraser to erase the handwriting.
- Clear screen : You can clear all the content on the current page.

- Select wallpaper : You can select the current screen as wallpaper.
- Switch whiteboard : You can directly leave the annotation and switch to the whiteboard.
- Undo/Redo : You can undo the last operation or redo the last undo.

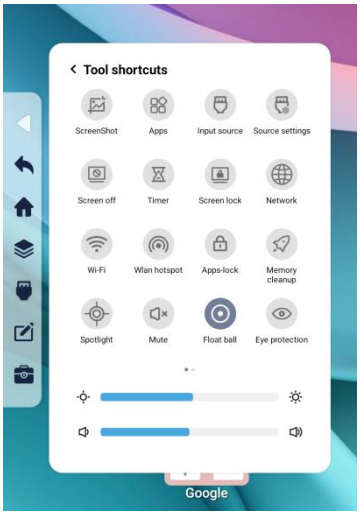
- Collapse : You can collapse all annotation tools.
- Freeze Screen /Unfreeze Screen : When the background image moves, freezing the screen can capture the current image as the background. Unfreezing the screen means the background is not fixed.

- Operation: When this item is turned on, the large screen function can be operated for the first time, and the interaction with the large screen function continues. Writing can only be done with a brush.
- More functions: You can save, share, email analysis, and exit annotations.

- Screenshot: You can select any rectangular screen to capture on the screen.
- Confirm: The captured screen can be inserted into the whiteboard.

- Cancel: Cancel the currently captured screen.
- Search: Search for text in the captured screen.
- Text recognition: Extract text from the captured screen, and users can copy or search.

3.4. Toolbox



Clicking the toolbox icon will display the shortcut tool page as shown in the left figure. Users can perform some quick operations, such as screenshot, APP opening, source viewing, source setting, screen off, timing, screen lock, network setting, WIFI setting, hotspot facility, application lock, memory clearing, spotlight, mute, floating ball, eye protection, hardware self-test, source preview, screen down, brightness adjustment and sound adjustment.

3.4.1. ScreenShot

The screenshot function supports users taking full-screen pictures or rectangular area screenshots.

3.4.2. Application Apps

Supports quickly viewing all applications and opening them.

3.4.3. Input source list

Supports quickly viewing the source list and checking the current source status.

3.4.4. Source setting

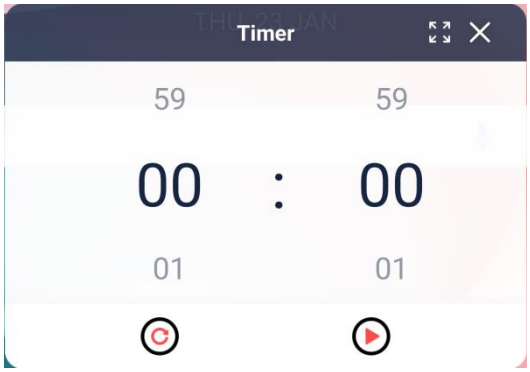
Supports quickly opening and operating source settings.

3.4.5. Screen off

Supports quickly turning off the screen. Users can light up the screen again by clicking the screen, power button, or remote control.

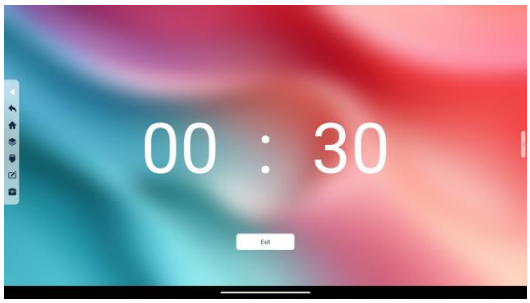
3.4.6. Timer

Supports quickly opening the timer,with a maximum settable countdown of 1 hour.



- Start timer: After setting the time, click the start button.
- Reset timer: You need to pause the timer first, and then click reset timer to count down again.
- Close timer: Click the × in the upper right corner of the timer to close the timer.

- Minimize timer: After starting the countdown, if there is no operation for 10 seconds, the timer can be automatically reduced and transparent.



- Expand timer: Click the zoom in button in the upper right corner of the timer to enlarge the timer to full screen.

3.4.7. Lock Screen

Supports quickly locking the screen to enter standby mode. The user can light up the screen again by operating the power button or remote control.

3.4.8. Network

Supports one-click opening of the network settings interface.

3.4.9. Wireless network WIFI

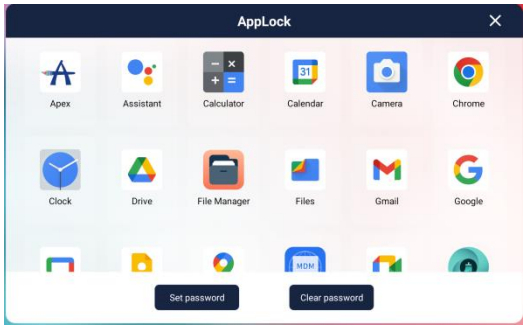
Support one-click opening of the settings WIFI interface.

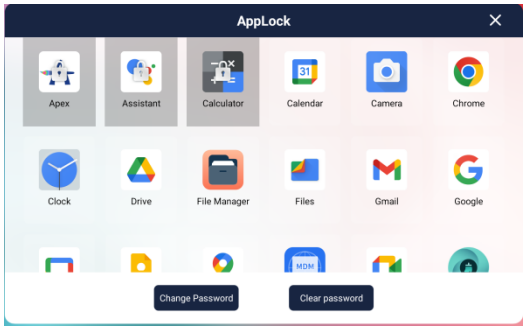
3.4.10. Hotspot WAN hotspot

Support one-click opening of the hotspot settings interface.

3.4.11. App Lock Apps Lock

Used to set lock permissions for applications. When an application is locked, you need to enter the application lock password and the correct password to enter the locked application interface.



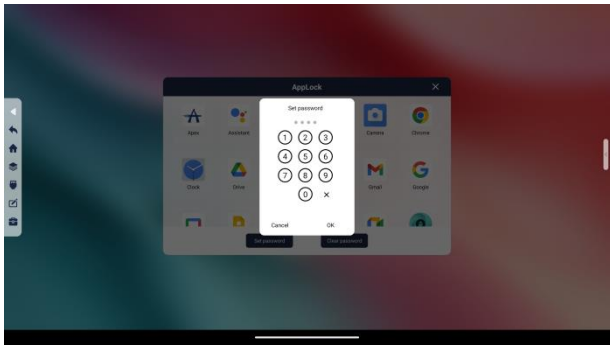


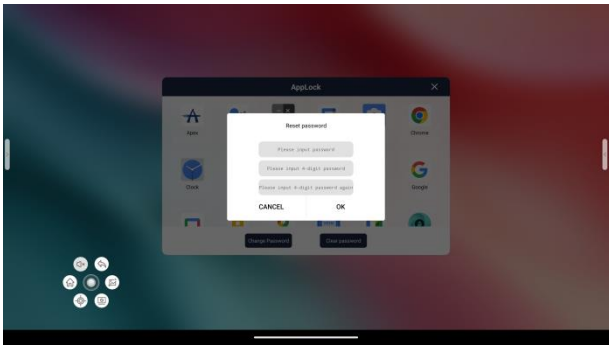
How to use:

- Set a four-digit password.

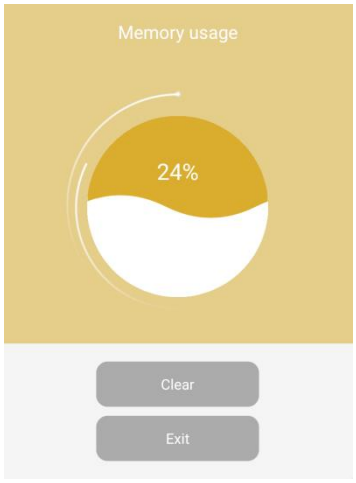
- Select the locked application range by clicking on the application. A small lock will be displayed on the selected application icon.
- To change the password, you need to enter the current password again and enter the new password twice to confirm the change.

- When the application lock is not needed, you can enter the current password through the clear password function to cancel the application lock.



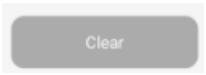


3.4.12. Memory cleanup



Used to clean up system background applications and free up memory space.

Users can understand the current system memory usage. Use the clear function to forcibly clear background applications.



Click Exit to exit the current screen.

3.4.13. Spotlight Spotlight

Open the spotlight, you can focus everyone's vision on the spotlight position by touching and sliding the large screen; the size of the spotlight can be adjusted by touch.

3.4.14. Mute Mute

The large screencan enter mute or unmuteaccording to the current volume.

3.4.15. Float ball Float ball

Call out/hidethe floating ball

- From the sidebar, click the floating ballbutton
- A white transparent sphere (floating ball) will appear in the center of the large screen.
- Click the floating ball, and it will automatically expand.
- From the sidebar, click the floating ballbutton again to retract the floating ball.

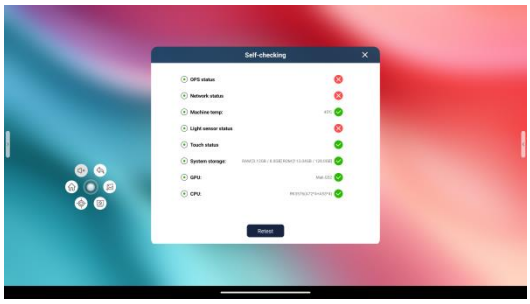
Replace floating ball function

- Long press the floating ballbutton in the sidebar
- Users can select the functions needed for the custom floating ball in the list and click the upper right corner ✓ to confirm.

3.4.16. Eye protection

When the eye protection function is turned on, the screen of the large screen will adjust the screen color temperature to reduce blue light. It uses the soft combination of red and yellow light to produce light, making the screen display warmer light and making the light softer.

3.4.17. Self-checking



Used to check whether the memory, storage remaining amount、light sense, networkstatus, OPS status, and touch statusof the fuselage are normal.

3.4.18. Source Preview

Source preview supports browsing the input source screen on Android. After opening the floating preview window, you can drag the preview window to any position on the large screen.

Click the in the upper right corner of the preview window to collapse the preview window.

Click the in the upper right corner of the preview window to enter the corresponding channel.

Select from the drop-down menu in the upper left corner to switch to other channel screens.

3.4.19. Pen to Annotate

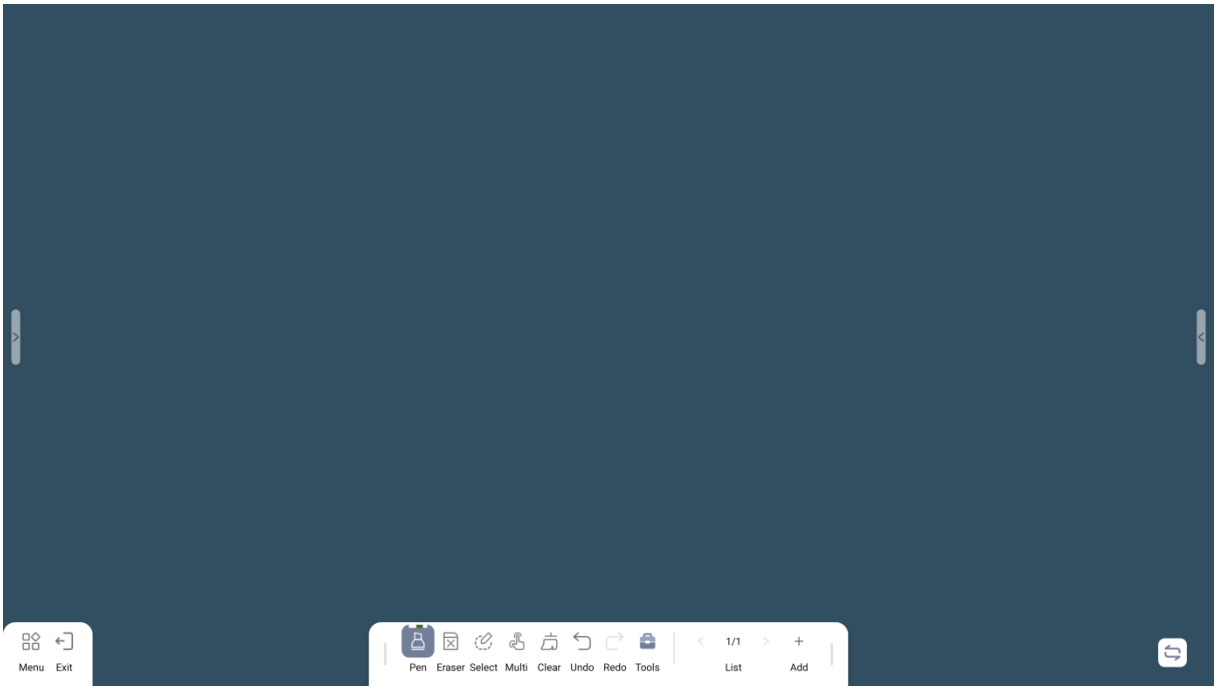
The pen to annotate function speeds up the process of calling out annotations for writing. By writing directly on the large screen with a pen, annotations can be directly called out, achieving a seamless writing experience.

3.4.20. Panel drop down

In response to the interactive differences of different groups of people on large screens of different sizes, the screen drop-down function moves the screen display downward, making it easier for users to interact with the upper area of the screen.

You can exit the screen drop-down mode by clicking on the black area above.

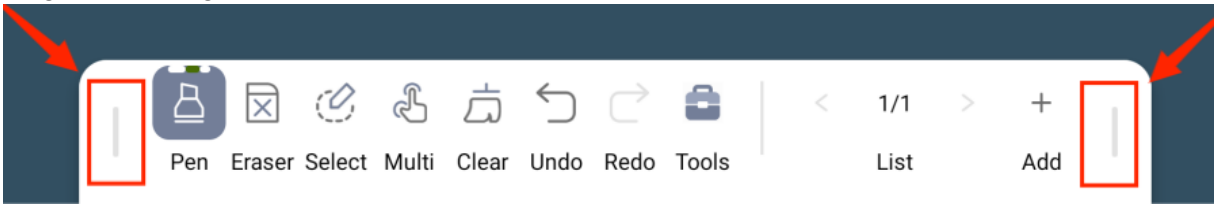
4. Introduction to whiteboard function



4.1. Movable toolbar

4.1.1. Move cursor

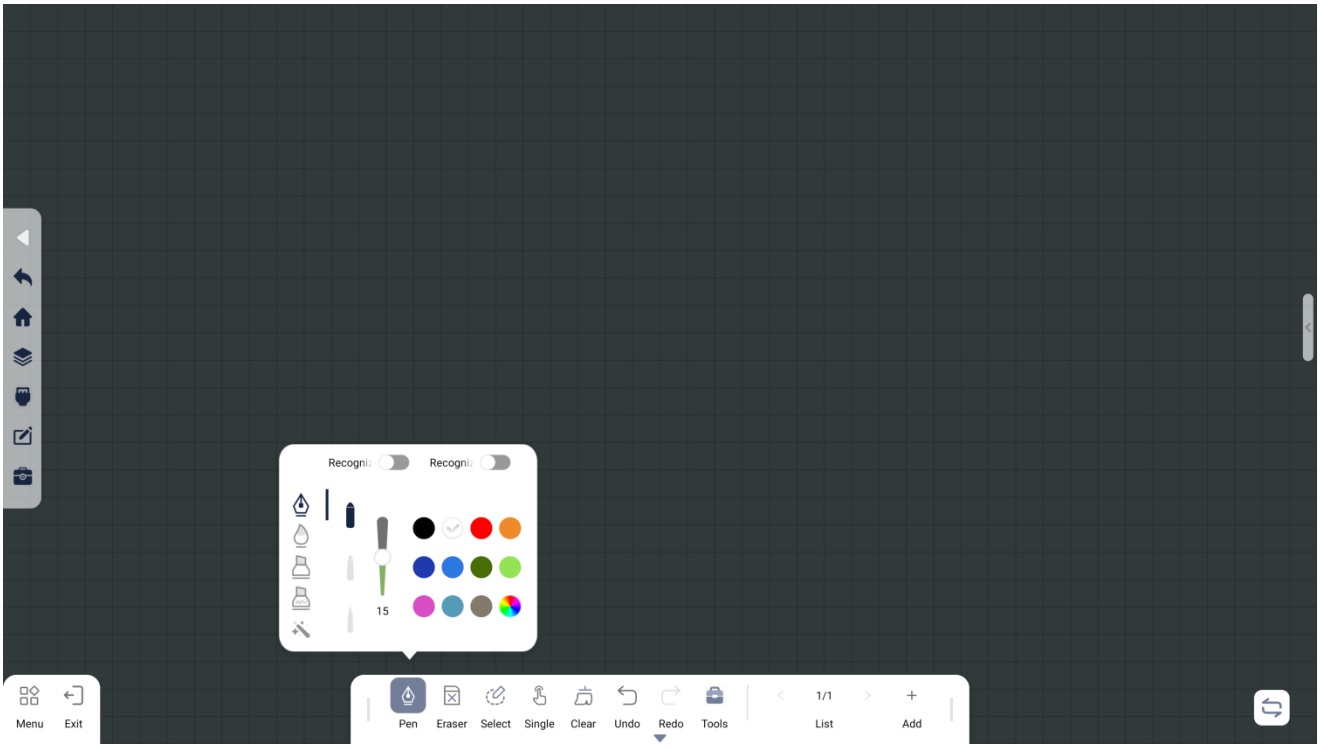
After touching " | " with one finger, move it left or right to move the function bar in the direction your finger is moving.



4.1.2. Hide cursor

Touch the button in the image below with one finger to hide the bottom function bar.

4.1.3. Brush



The brush supports 4 types of pens, from top to bottom are pen, brush, regular pen, highlighter, magic pen.

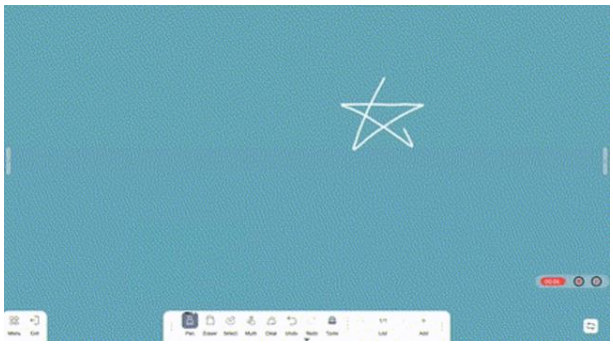
Pen: The handwriting is firm, and the pen tip appears when the pen is closed

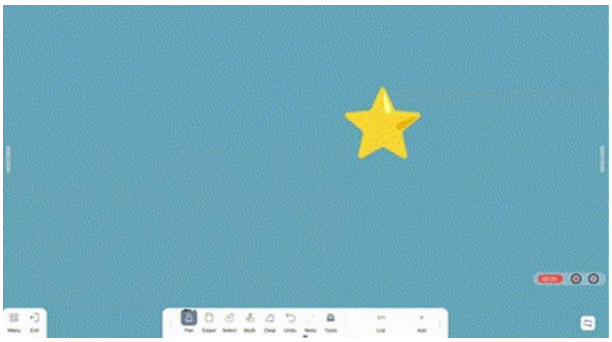
Brush: The handwriting is silky, with pen tips at the beginning and end of the pen

Regular pen: No decorative lines, to achieve the fastest writing

Highlighter: Soft colors, transparent display, significant identification of key points

Magic Pen: Converts user drawings into corresponding graphics





Adaptive Thickness Pen Function: Displays the corresponding gear of the electronic pen by recognizing the pen tip size of the touch screen.

Shape Recognition: When this function is enabled, the whiteboard can automatically recognize the drawing formed by the user in one stroke or multiple strokes into a two-dimensional graphic. This function supports recognizing graphics including triangles, rectangles, trapezoids, circles, and ellipses. When the user does not need the recognized two-dimensional graphic, they can use the circle erase or clear screen function to erase it.

Handwriting Recognition: When this function is enabled, the whiteboard recognizes the font shape of the lines drawn on the large screen and automatically converts it into text. It can recognize

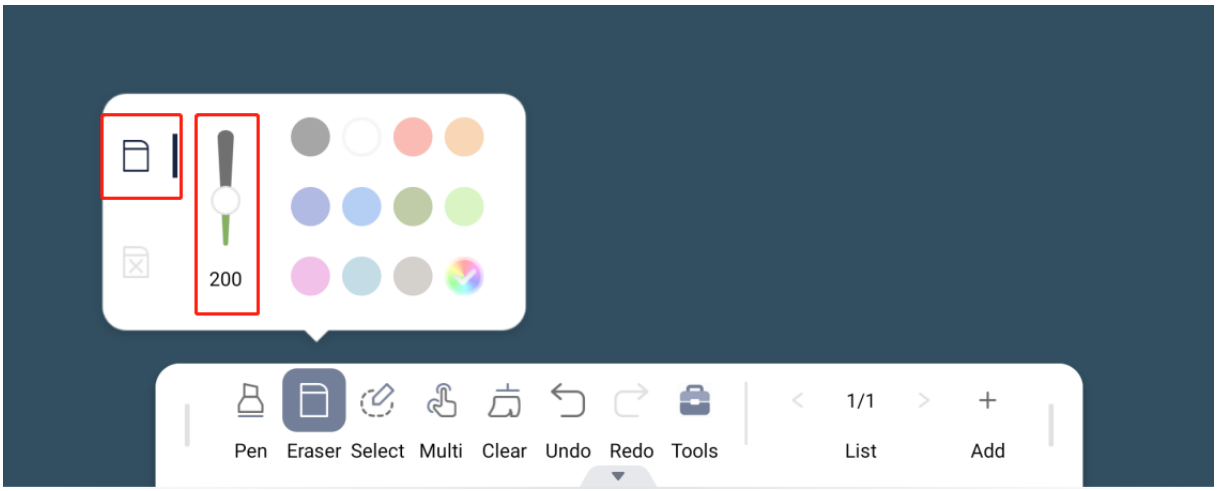
the current system language and English. The first time this function is enabled, the machine needs to connect to the network to automatically download the language pack set by the system. Supported languages: Chinese, English, Korean, Japanese, Latin.

4.1.4. Erase

Eraser function

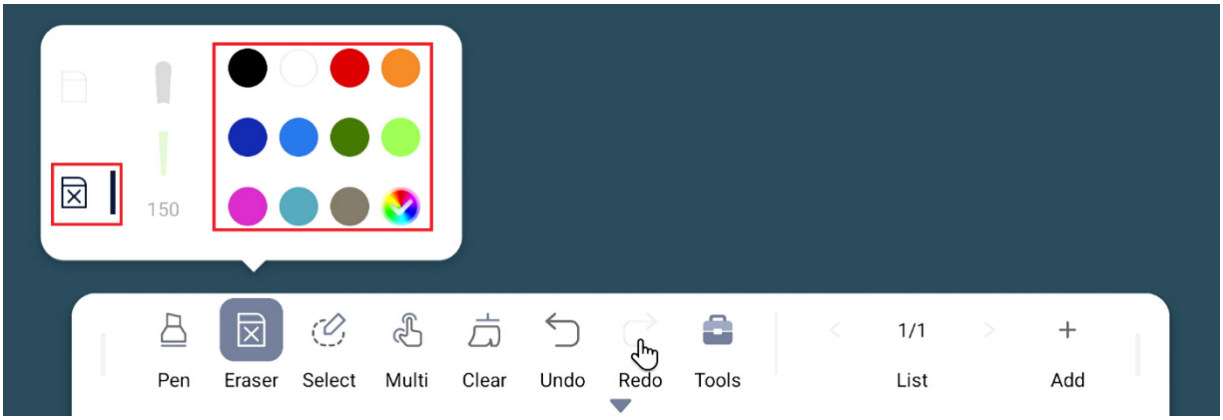
Select the eraser function, the user can erase the drawing lines on the electronic whiteboard, and the adjustment bar on the right to adjust the eraser size will light up.

- Eraser thickness adjustment is used to adjust the size of the eraser, supporting adjustment of 100~350 units.
- The eraser function does not have a color palette, and by default, drawing lines of all colors can be erased.
- The eraser function can only erase drawing lines, and cannot erase graphic tools or inserted pictures.
- Touching the lines, pictures, and graphic tools on the interactive whiteboard can clear the corresponding content, or you can use the circle erase function to circle the object, which can also clear the content.



Circle Erase Function

When the circle erase function is selected, the user can erase the lines on the interactive whiteboard, and the color adjustment panel on the right will light up.



- The thickness function is not supported, and the default size adjustment bar is grayed out.
- The circle erase defaults to selecting the entire color system for erasing.

- Supports erasing only specific colors of lines. For example, when erasing with black circle erase selected, only black lines can be erased, and other colored lines will be automatically retained.

Back of hand to bring up eraser function

Users can also use the back of their hand to touch the lines to erase them without lines when writing. The requirement for the back of the hand to bring up the eraser is a minimum contact of 30mm (length and width), and the larger the contact, the larger the eraser that is brought up.

4.1.5. Select

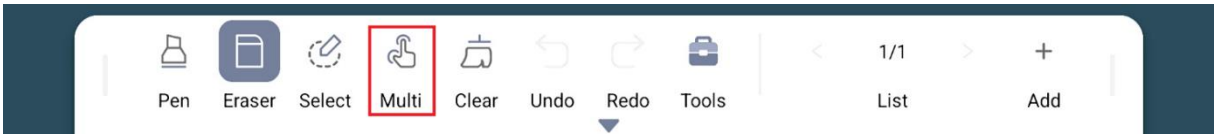
After selecting the target, you can rotate, copy, move the layer up, move the layer down, fix, move (all directions, horizontal, vertical), change the color, and delete the target.

4.1.6. Single-Multipl Touch Switching

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

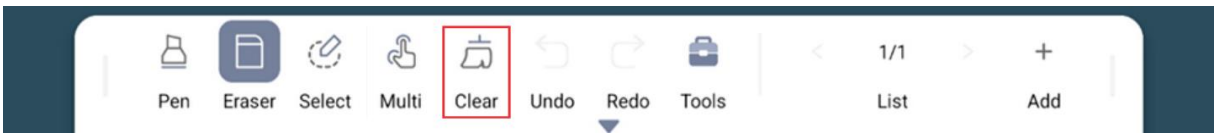
- Single-point state: The large screen only supports single-finger touch when drawing linesDrawing lines and other operations.

- Multi-point state: You can touch the large screen with multiple fingers to draw lines at the same time. Using two fingers to touch the large screen is for screen zoom function; three-finger touch is for roaming function, you can drag the large screen picture to move to.



4.1.7. Clear screen

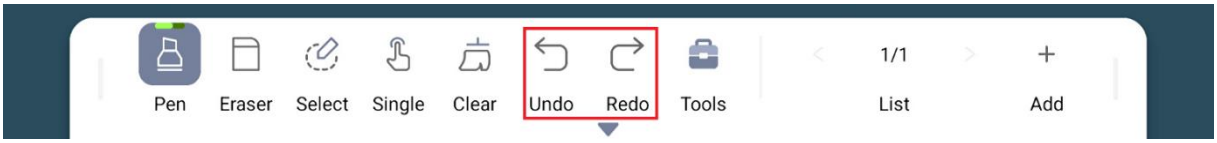
This function can clear all the content on the current page, including handwriting, graphics, text, tables, mind maps, current page notes, and graphics and text converted from handwriting recognition.



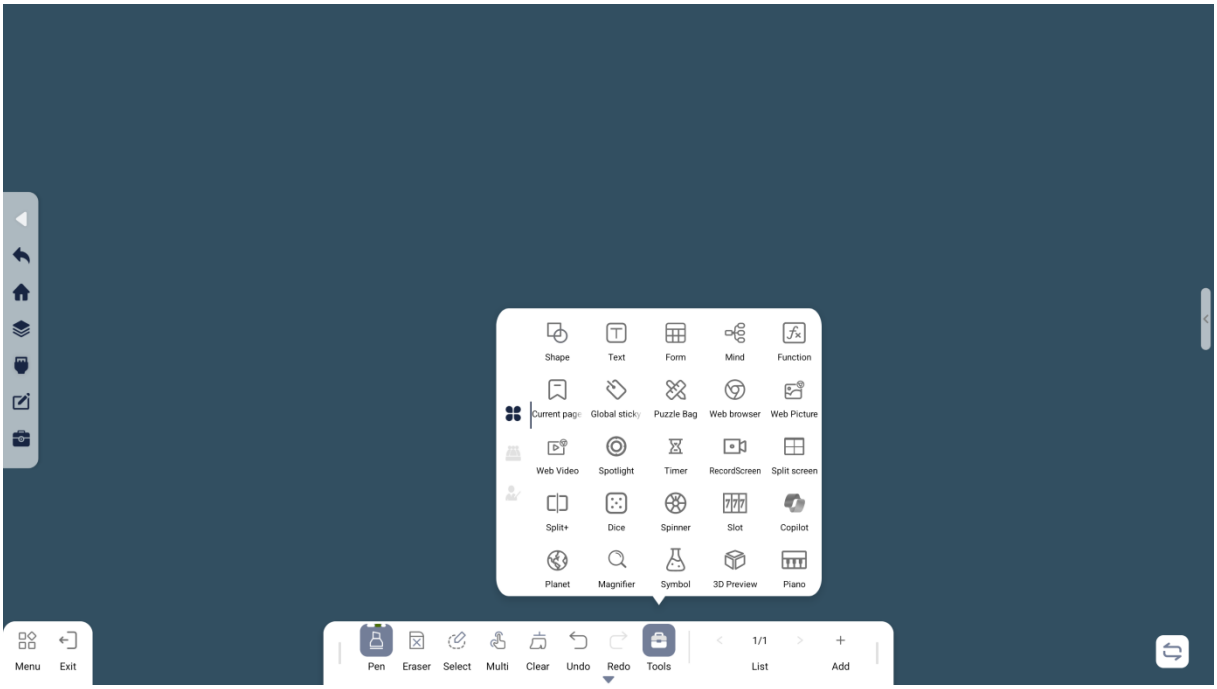
4.1.8. Undo, Redo

Undo the previous operation. If you accidentally clear the screen, you can use the undo function to restore the content before clearing the screen.

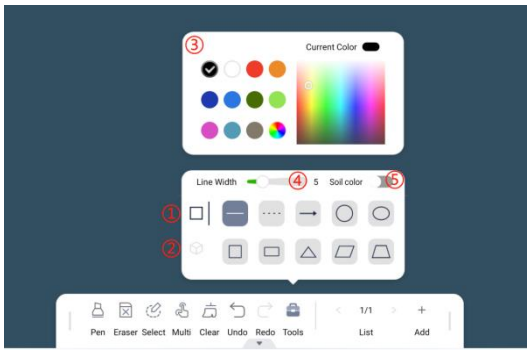
Redo the previous operation, which is equivalent to canceling the undo.



4.1.9. Toolbox



4.1.9.1. Shape



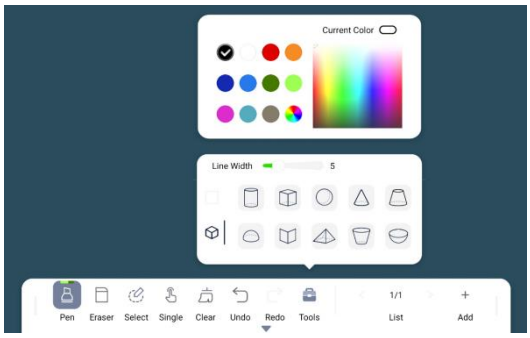
2D graphics tool ①:

After selecting the 2D graphics tool, you can select 10 tools on the right, and touch the large screen to draw the corresponding tool.

Use with function ③ (border size adjustment function) to adjust the border size of the graphic

Use with function ④ (graphic color palette function) to change the color of the drawn graphic

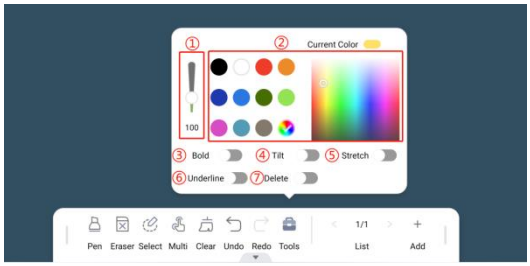
Use with function ⑤ (color fill function) to fill the inside of the 2D graphic with color



3D Graphics Tool ②:
After selecting the 3D graphics tool, you can select 10 tools on the right side, and touch the large screen to draw the corresponding tool.
Use with function ④ (border size adjustment function) to adjust the border size of the graphic
Use with function ③ (graphic color palette function) to change the color of the drawn graphic

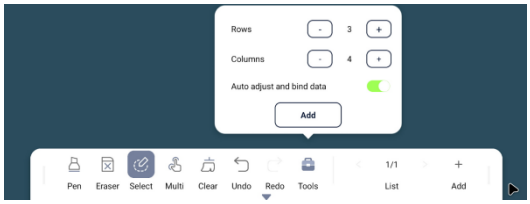
4.1.9.2. Text

Users can use the text tool to enter standard text, and can give various attributes to the text through the following ①-⑦.

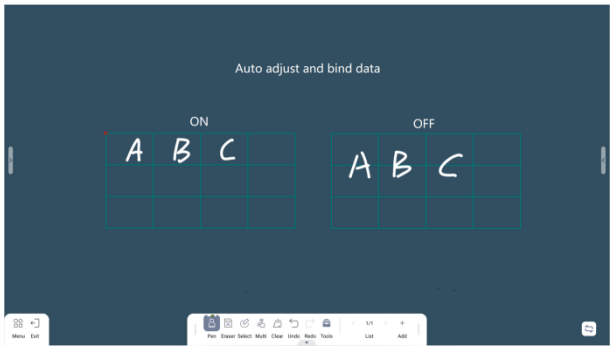


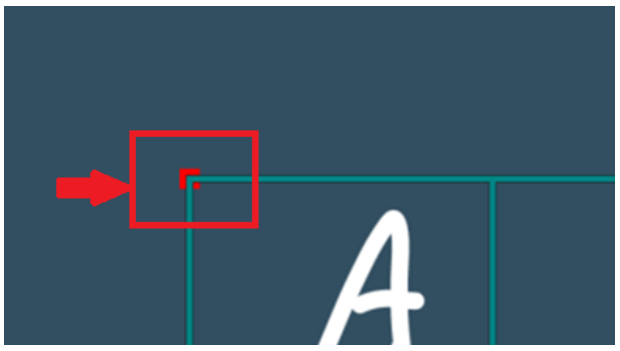
Text size: Supports adjustment of 60-200 units, which can be used to control the overall size of the text
Color Selection: Provides eleven default colors to choose from, as well as a custom color.
Bold: Makes the text bolder and more prominent
Italic: Italicizes the text
Stretch: Stretches the text
Underline: Adds an underline to the text
Strikethrough: Adds a strikethrough to the text, making it clearer whether to modify it

4.1.9.3. Table

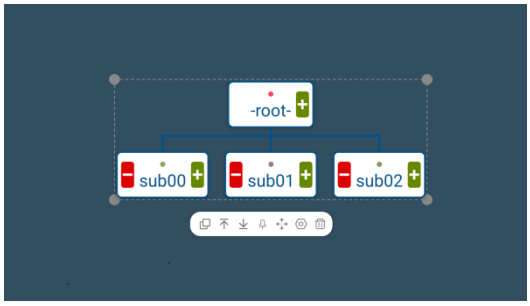


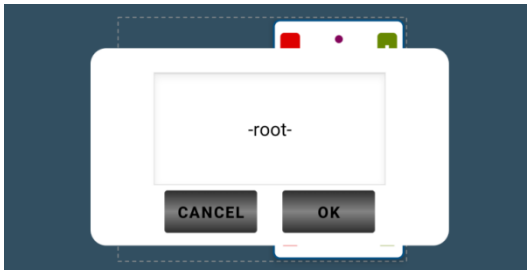
Number of rows: Controls how many rows the new table has, with a controllable range of 1-10, default is 3
Number of columns: Controls how many columns the new table has, with a controllable range of 1-10, default is 4
Automatically bind data: When enabled, the lines drawn in the table will be automatically bound to the table after releasing your hand. And users can distinguish whether it is a table with automatically bound data through a red arrow in the upper right corner of the table.





4.1.9.4. Mind map

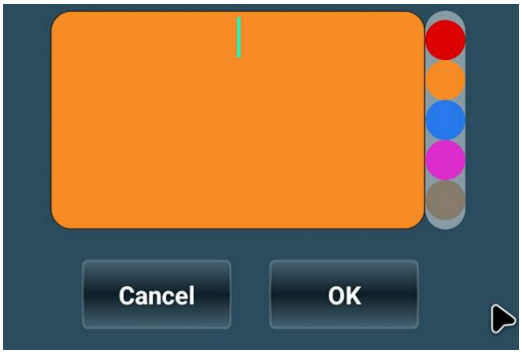




Add/Delete: Click the + on the right side of the table to add a child node at the next level. Click the - on the left side of the table to delete the node and its child nodes.
Copy: Click the button to copy the mind map.
Switch Layout: Click the button to change the layout.
Move Layer Up/Down: Move the layer of the mind map up or down.
Fixed: Fix the mind map in a fixed position, unable to move.
Move: Control the moving direction of the mind map, supporting all directions, horizontal, and vertical.
Switch Layout: Click the button to change the mind map layout.
Delete: Delete the mind map.
Edit Node: Double-click a node to edit the text.

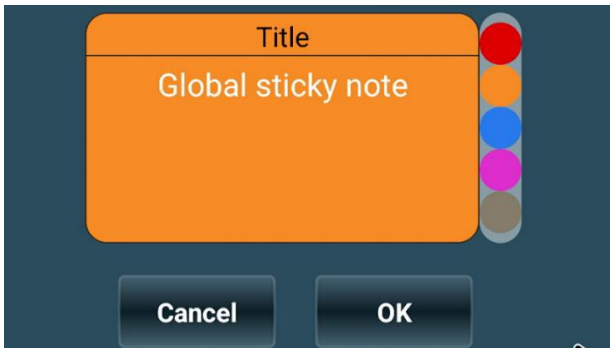
4.1.9.5. Current Page Sticky Notes

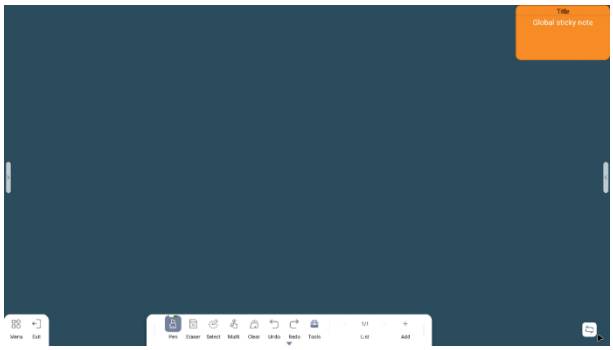
Current page sticky notes can mark the content that needs attention in the current page, and are only displayed on the current whiteboard page. When using the clear screen function, the sticky note will also be cleared. To create a new current page sticky note, users can choose the color of the sticky note and enter text.



4.1.9.6. Global Sticky Notes

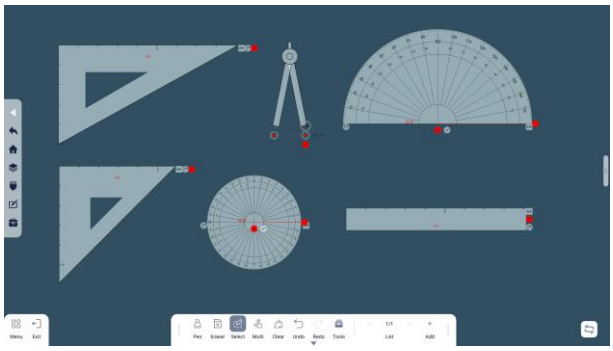
Global sticky notes are sticky notes that can be displayed on all whiteboard pages and cannot be erased by the eraser. When you need to modify a sticky note, you can double-click the global sticky note to enter the editing mode for text editing, style modification, and deletion.

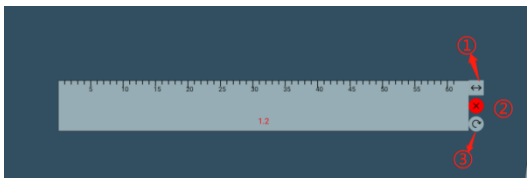




4.1.9.7. Geometry Tool

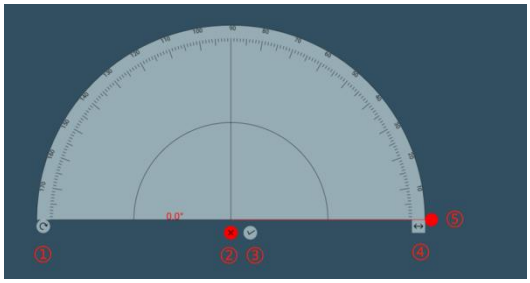
The whiteboard has 6 kinds of mathematical tools: ruler, protractor, full ruler, compass, 45° triangle ruler, and 60° triangle ruler.





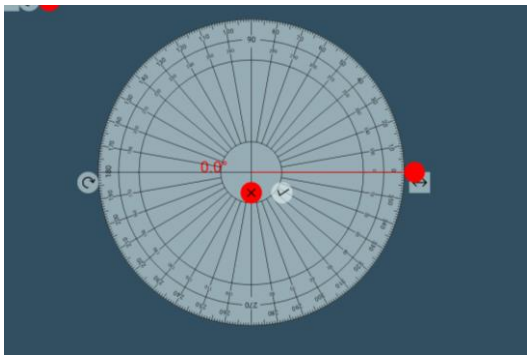
Ruler: Write next to the scale to write straight lines.

- Length modification (①): Drag to change the length of the ruler
- Delete (②): Delete the ruler tool
- Rotation (③): Click and drag to change the angle of the ruler.

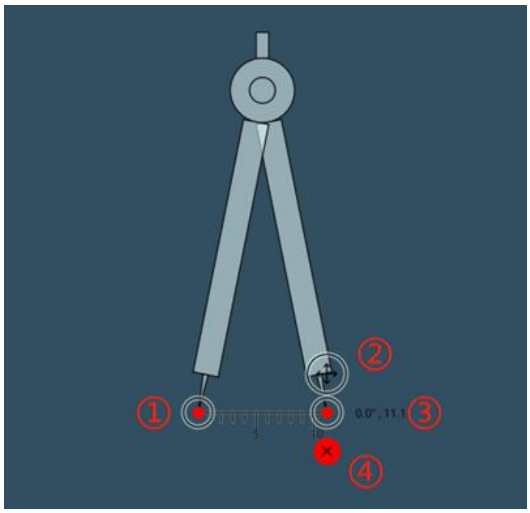


Protractor: You can measure the corresponding angle by adjusting the red buoy, and the angle is displayed in real time.

- Rotation (①): Click and drag to change the angle of the protractor.
- Delete (②): Delete the protractor tool
- Draw line (③): By dragging ⑤ to form an angle, you can use the click function ③ to draw a line to the whiteboard

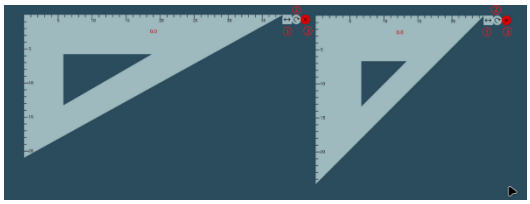


- Size modification (④): Drag to change the size of the protractor
- Adjust angle (⑤): Drag the required angle size



Compass: You can measure the corresponding angle by adjusting the red buoy, and the angle is displayed in real time.

- Origin (①): The compass draws a circle around this point
- Attribute adjustment (②): Click and move this point to change the radius of the circle and the angle with the horizontal line
- Draw line (③): Click and move this point to draw a circle
- Delete (④): Delete the compass tool



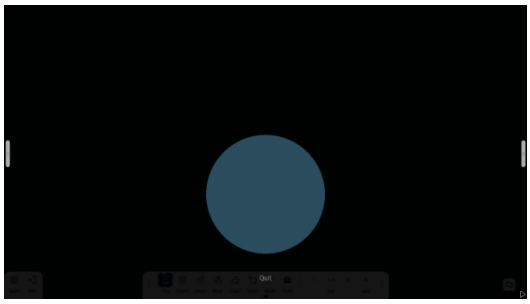
45° triangle/60° triangle: Write on the side next to the scale to write straight lines.

- Length modification (1): Drag to change the length of the ruler
- Rotate (②): Click and drag to change the ruler's placement angle.
- Delete (③): Delete the ruler tool

4.1.9.8. Micro Browser / Micro Browser - Image / Micro Browser - Video

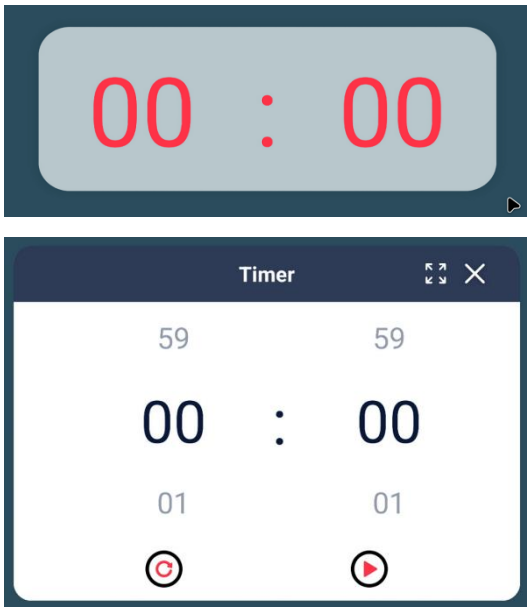
Annotation: Supports drawing and erasing within a small window.
Back: Click to return to the previous page
Forward: Click to go forward to the next page
Refresh: Click to refresh the current page
Home: Return to the browser's home page
URL: Click to display the current page's URL
Screenshot: Screenshot the current page to the whiteboard
Close: Close the micro browser
Zoom: Adjust window size

4.1.9.9. Spotlight



Under the spotlight function, users can drag to form a highlighted circle at any position and drag the position at will to attract readers' attention. Click the Exit text directly below to exit spotlight mode.

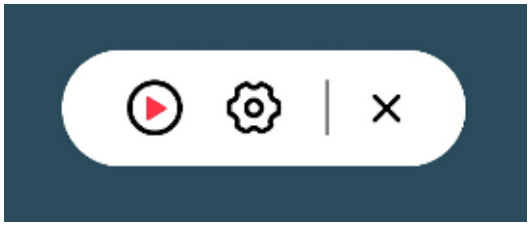
4.1.9.10. Timer



The timer can be displayed in the form of a transparent window/full screen. The transparent window is displayed by default, or the full screen display can be opened by clicking the full screen button in the upper right corner. When displaying in full screen, click the Exit button directly below to close the full screen display and enter the widget mode display. The transparent window mode display is centered on the screen by default, and users can drag and adjust the position at will according to their usage habits.

Function: Users can drag the time bar to select the desired time, and click the button below to start the timer. Or click the button below to pause or reset the timer.
Close: Click the close button in the upper right corner to close the timer function.

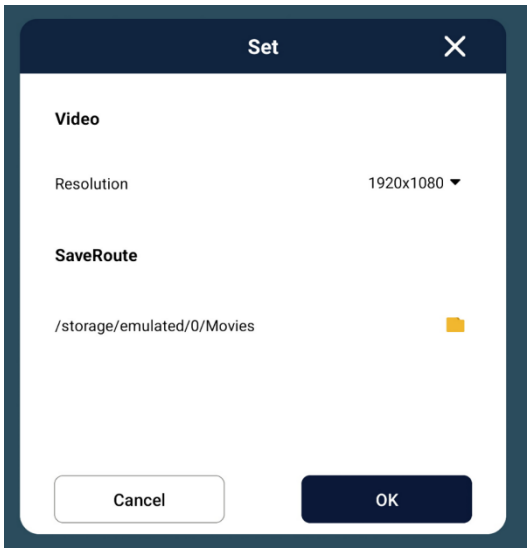
4.1.9.11. Screen recording



Display: The timer can be displayed in widget mode, by default in the lower right corner of the screen, and users can drag and adjust the position at will according to their usage habits.
Close: When not recording, users can click the close button on the right to close the screen recording function. When recording, users can click Stop Recording to close.

Settings: Users can change the recording video resolution and save path in the settings.

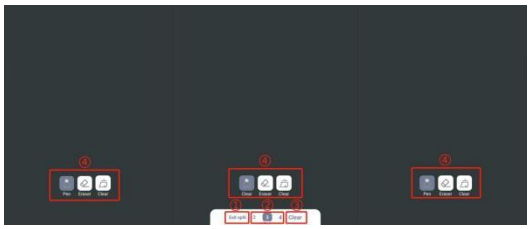
Function: After the screen recording is turned on, users



can choose to pause recording, continue recording, or stop recording. After stopping recording, the video is saved to the preset path and the screen recording is turned off.

4.1.9.12. Split Screen

The split-screen function evenly divides the entire large screen into 2-4 independent small split screens, supporting multiple users to use the large screen simultaneously for simple operations (writing, erasing, and clearing the screen). The operations between each split screen are independent and do not affect each other. You can switch the number of split screens in real time and set the default number of split screens. After exiting the simplified split screen, the data is cleared.



Exit (①): Exit split-screen mode and return to the whiteboard homepage

Switch split screen quantity (②): Click the corresponding number to switch to the corresponding split screen quantity. This function supports 2-4 split screens.

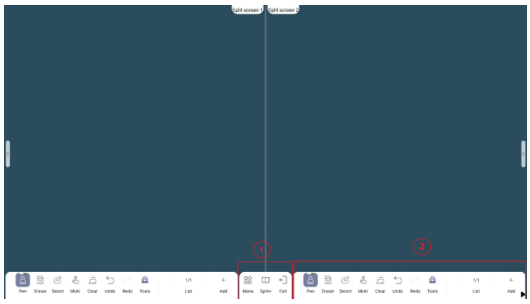
Clear Screen (③): Click the clear screen function to clear the content of all split screens.

Split Screen Toolbar (④): Each split screen has its own toolbar, supporting brush, eraser, and cleaning the current split screen. Independent operation, without affecting each other.

4.1.9.13. Split Screen+

Split Screen+ retains full functionality in split-screen mode, supporting up to 2 split screens, and the whiteboards on both sides operate independently without affecting each other. For example, when one side uses functions such as whiteboard, clear screen, undo, and redo, the other side's whiteboard is not affected by the functions and can still write normally.

The difference between split-screen+ and split-screen is that split-screen can support 2~4 split-screens, while split-screen+ can only support 2 split-screens; in addition, simplified split-screen can only use the simplest functions, such as simple writing, erasing, and clearing the screen.



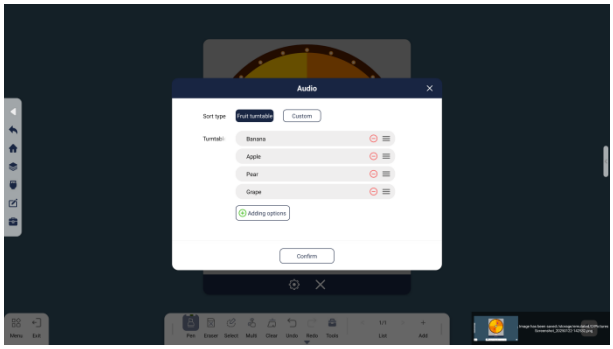
Global Toolbar (①): Using the functions in the global toolbar can affect all split screens.
Split-screen Toolbar (②): Each shard has its own toolbar, which supports pen, eraser, and clearing the current split screen. Independent operation, without affecting each other.

4.1.9.14. Dice

Users can use this function to simulate electronic dice shaking on the large screen, and up to six dice can be shaken at the same time through the settings menu.

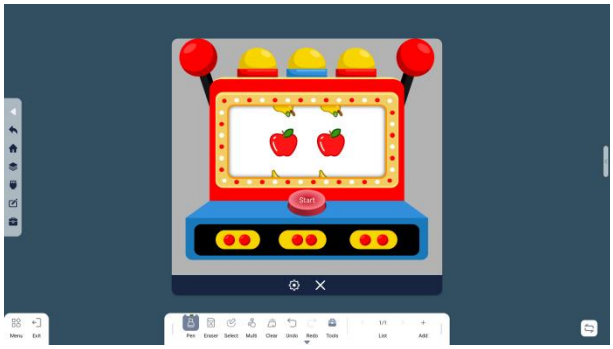
4.1.9.15. Turntable

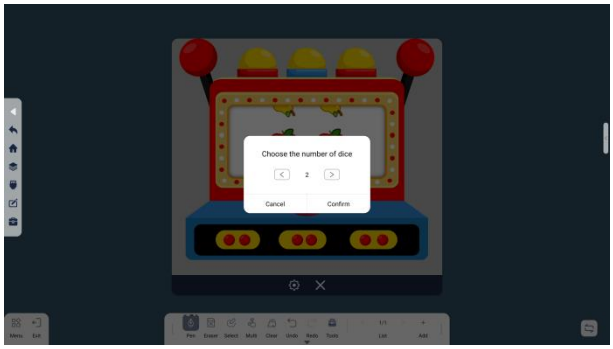
Users can use this function to simulate an electronic turntable on the large screen, with a default fruit turntable. Users can also customize their own turntable content through the settings menu.



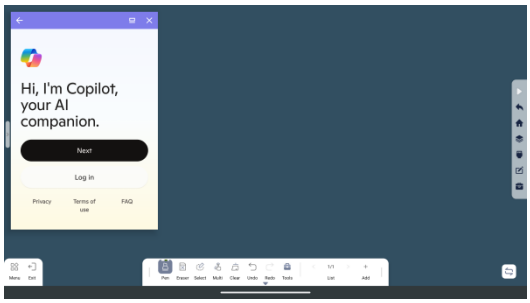
4.1.9.16. Slot machine

Users can use this function to simulate an electronic slot machine on the large screen, with a default of 2 columns and a maximum support of 3 columns.





4.1.9.17. Copilot



Supports users in opening the AI companion Copilot to enhance productivity and creativity. Leverage AI tools to support writing, design, search, and decision-making, achieving more goals.

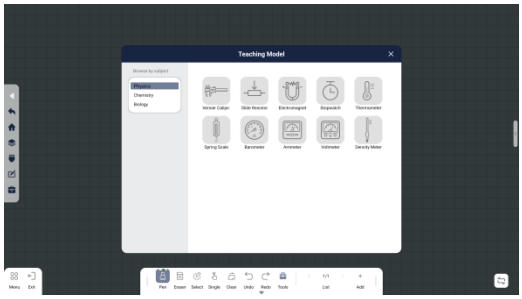
4.1.9.18. Earth

Users can browse 3D Earth views or 2D Earth views, or take screenshots to insert into the whiteboard or set as the background.
When locked, users can write; when unlocked, users can freely scroll the Earth.

4.1.9.19. Magnifying glass

Supports users to locally magnify the screen, supporting a maximum magnification of 4.0 times.

4.1.9.20. Symbol

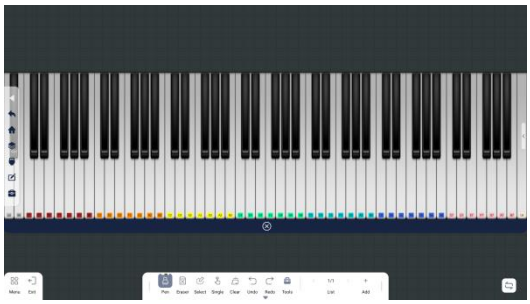


Supports symbols for 3 subjects, including 10 types of physics symbols, 16 types of chemistry symbols, and 9 types of biology symbols.

4.1.9.21. 3D image

Supports opening 3D images with various suffixes, such as obj, stl, dae, gltf, etc.

4.1.9.22. Piano



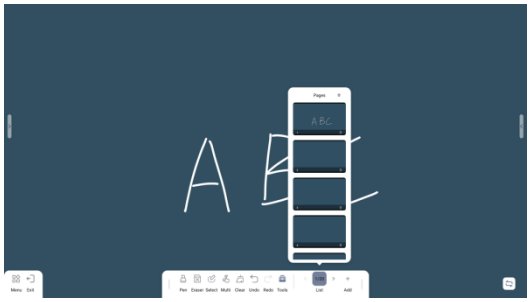
Simulate a real piano by displaying an electronic version of the piano on the big screen, allowing users to learn and play the piano on the big screen.

4.1.10. Whiteboard Page Management

Switch Page: This function is available when the number of whiteboard pages is ≥2. Click the left arrow < to switch to the previous whiteboard page of the current whiteboard page, and click the right arrow > to switch to the next whiteboard page of the current whiteboard page.

Add Page: Click Add to add a blank whiteboard page.

Preview: Click the list information to see all pages in the preview window.



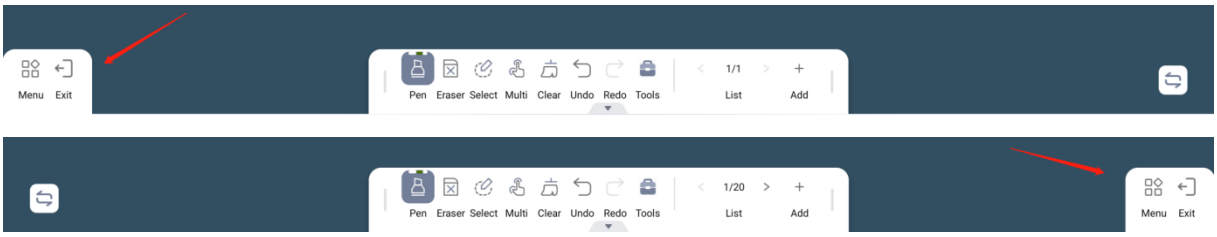
Delete: Enter the preview window, click the delete button in the lower right corner of the page to delete a page from the page list. The deleted page will be placed in the page recycle bin, and the user can choose to permanently delete it by clearing the recycle bin or clicking the delete button in the lower right corner of the page.

Restore: Enter the page recycle bin, click the restore button in the lower left corner of the page to restore a page to the page list.

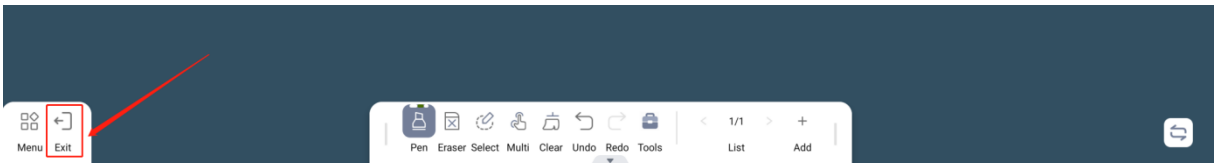
4.2. Sidebar Toolbar

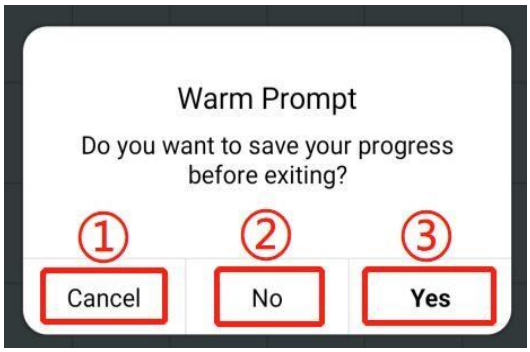
4.2.1. Swap Button

After clicking the button, the whiteboard's sidebar toolbar will change to the opposite position. The position changes as shown in the figure below:



4.2.2. Exit Button



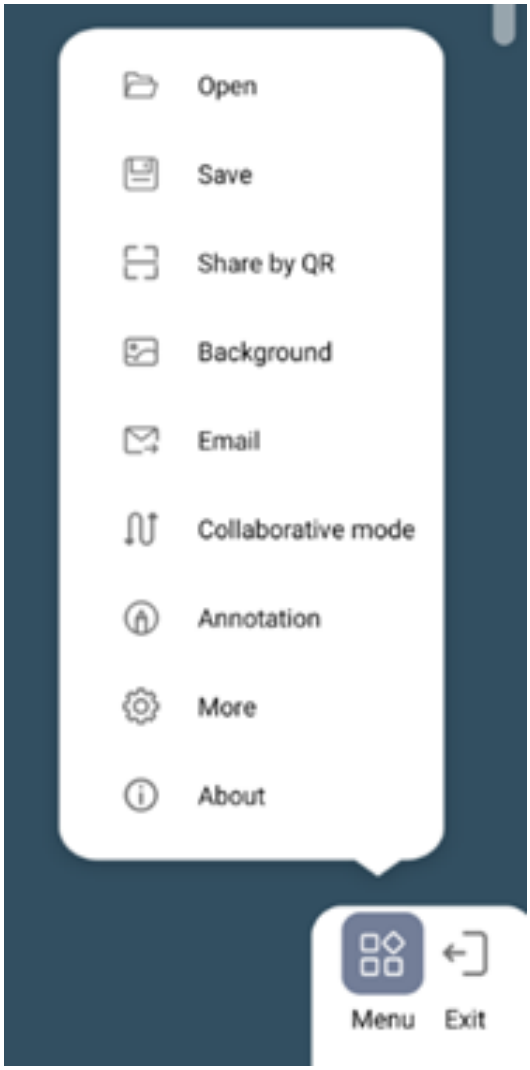


Cancel: Cancel exiting the whiteboard

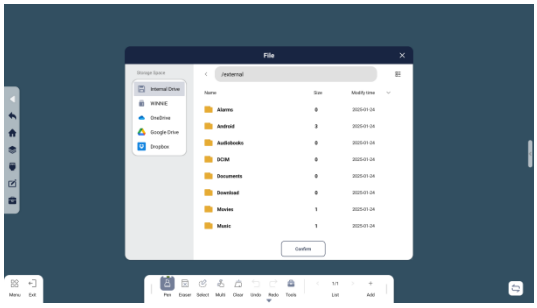
Don't Save: Exit the whiteboard without saving the whiteboard content

Save: Exit the whiteboard and save the whiteboard content

4.2.3. Menu



Open: This feature allows users to find files to open or import into the whiteboard on the following pages.
Save: This feature allows users to save the current whiteboard content as a file to a specified location.
Share by QR: This feature allows users to share whiteboard content to external devices (e.g., mobile phones, tablets) via QR code when connected to the internet.
Background: Users can choose built-in backgrounds or customize their preferred whiteboard background.
Email: This feature supports sharing version content via email.
Collaborative mode: Collaborative mode supports collaborative interaction between two devices on the same local area network, enabling synchronized writing.
Annotation: A shortcut for users to exit the whiteboard and open annotations.
More: This contains more content for the whiteboard.
About: You can view the version number of the acceleration library and the version number of the whiteboard.



Browse by category: All, WBF, Images, SVG, PDF, Audio and Video, Models.
Supported sources: Supports importing formats from the internal storage of the machine, storage devices connected to the machine (USB, hard drive), OneDrive, GoogleDrive, Dropbox.
Browse format: Switch display style, supports list display and grid display.

File name (①): Supports user-defined names

File type (②/③): Supports image format/data format

Image format

② JPG\JPEG: Supports extremely high compression rates and fast download speeds

PNG: Small size, lossless compression

PDF: Use document format to maintain, not easy to be arbitrarily modified data format

③ WBF, SVG, IWB

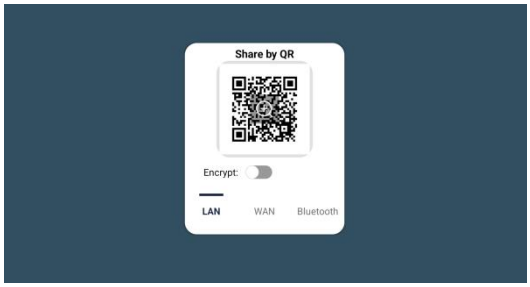
(Note: IWB format only supports export, does not support import)

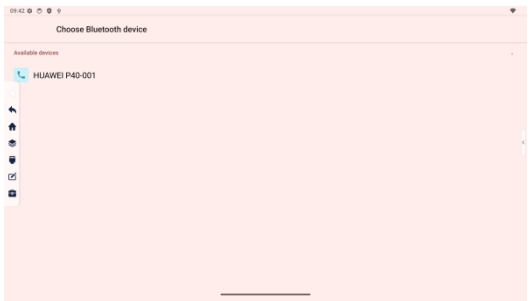
This format saves the original data, and the contents of the whiteboard can still be edited again when opening files of this type.

Save path (④): Supports storage paths including built-in storage, external storage, and cloud storage

Custom save content (⑤): Users can check the content to be saved for selective storage

Save (⑥): Save the above information file





Local Area Network Sharing: When the user's device and the large screen are in the same local area network, use the device to scan the QR code of the large screen to obtain the content on the large screen whiteboard.

Wide Area Network Sharing: When the user's device and the large screen are not in the same local area network, use the device to scan the QR code of the large screen to obtain the content on the large screen whiteboard.

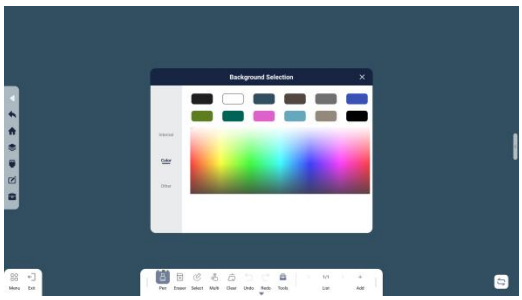
Encrypted Sharing: When the user selects this option, the large screen will pop up a password setting box. After the password is set successfully, other devices need to enter the same password for verification after scanning the QR code to obtain the whiteboard content.

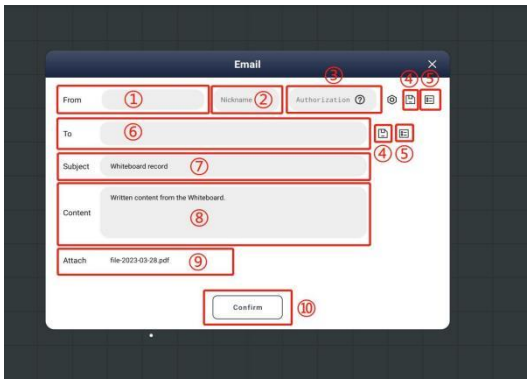
Support enlarging the shared QR code, users can click the '+' sign in the middle of the QR code to enlarge it.

Built-in backgrounds: Users can select from 22 built-in meeting and teaching backgrounds here.

Color background: Users can set a solid color background and customize colors in the color palette.

Other backgrounds: Users can import pictures from the machine's storage space, external USB drive, and network drive as backgrounds.





Sender's email/name (①/②): Enter the sender's email/name here.

Authorization code (③): Enter the sender's email authorization code here.

Save sender information (④): Click to save the sender's information.

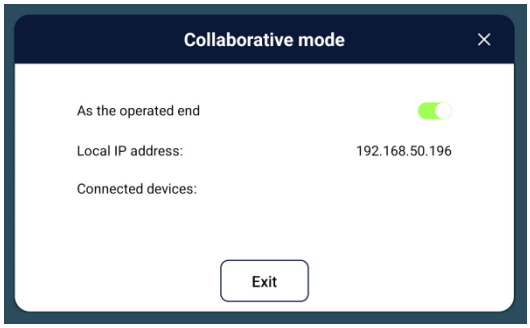
Quick email account (⑤): This provides users with quick selection of sender/recipient information.

Recipient email account (⑥): Enter the recipient's email here.

Subject/content/attachment (⑦/⑧/⑨): Enter the email subject/content/attachment file here.

Confirm (10): Send email

One device (master) controls another device (slave), synchronizing the touch data of the whiteboard canvas to the (slave) device, or controlling the (slave) device to clear the lines drawn on the whiteboard.



In collaboration mode, three major interactive functions are supported:

Writing: The writing data of the master device can be transmitted to the slave device in real time, and the slave device can choose to synchronize writing according to the current writing situation. After the synchronization operation, the slave device can display the same content as the master device.

Clear Screen: The master device can control the slave device to clear the screen, while the master device does not clear the screen.

Manual Synchronization: The writing configuration (size, color, and input mode) of the master device can be synchronized to the slave settings when the slave settings turn on the “Allow Remote Operation” setting.

Operation steps for collaborative mode:

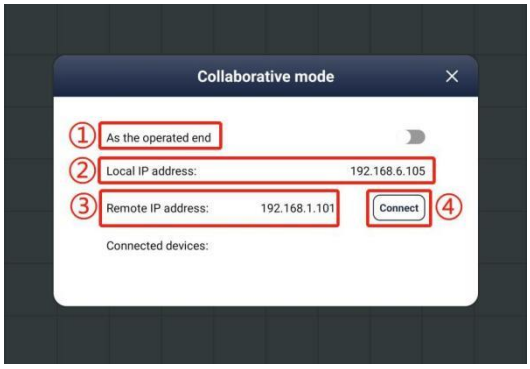
① Ensure that device A and device B are on the same local area network

② Device A opens the creation service

③ Device A's 'Operated as Slave' setting is turned on, allowing device A to act as a slave device

④ Device B's 'Operated as Slave' setting is turned off, allowing device B to act as a master device

⑤ On the connection interface of device B, enter the IP



address of device A and click the connect button.

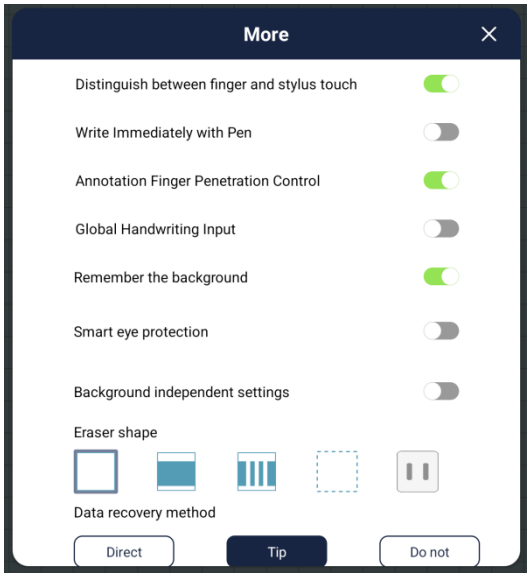
⑥ When the connection is successful, the connected device: XXXXX (device A name) will be displayed at the bottom of the page.

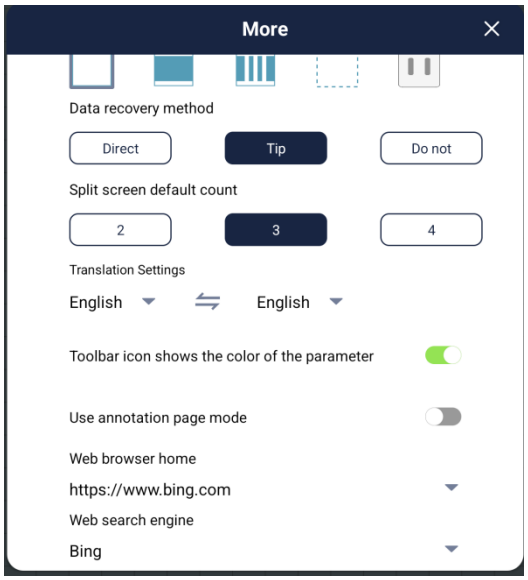
As the operated end (①):After the main switch is turned on, the lines drawn on the connected device will be synchronized to this device.

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 created the service

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





Handwriting Recognition Distinguish between finger and stylus touch: Whether to distinguish between finger and pen parameters when writing based on different contact areas with the screen

Write Immediately with PenWrite Immediately with Pen: Outside the whiteboard, annotations written on the large screen with a pen can be immediately displayed.

Annotation Finger Penetration ControlAnnotation Finger Penetration Control: Under annotation, use a fine pen to write and a thick pen to control large screen interaction.

Global Handwriting InputGlobal Handwriting Input: Anywhere on the large screen, a fine pen can be used for arbitrary writing, and a thick pen can be used for interaction with the large screen.

Background MemoryRemember the background: Whether to remember the background set last time (also effective when shutting down)

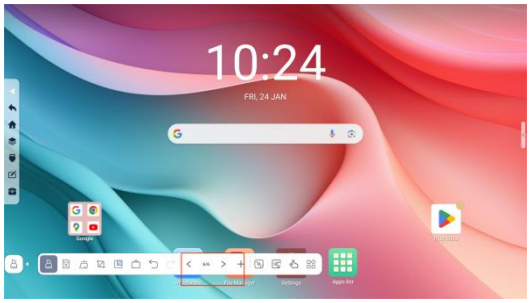
Eye protection mode Smart eye protection: Whether to switch to a display mode that is more friendly to the eyes

Background independent settings Background independent settings: When the option is turned on, users can set the background for different pages separately, which are not synchronized with each other. When the option is turned off, replacing the background of one page will synchronize to all pages

Eraser shape Eraser shape: You can choose different eraser patterns

Data recovery method Data recovery method: You can choose different data recovery methods, supporting direct recovery/prompt/no recovery.

Split screen default count: You can select the default



split screen count in the simplified split screen mode, which can be set to 2, 3, or 4

Translation Settings: You can set the translation languages

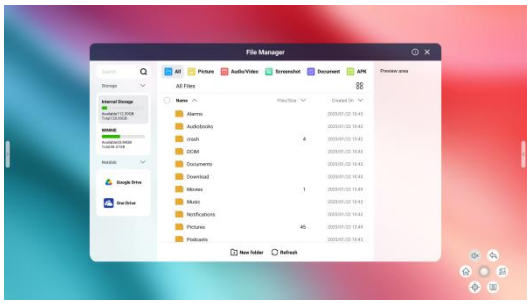
Color display Toolbar icon shows the color of the parameter: Whether to display the thickness and color settings of the pen in the bottom toolbar

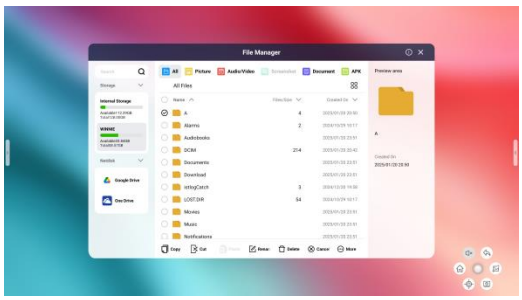
Use annotation page mode: Whether to enable multi-page mode for annotations

Micro browser homepage Web browser home: You can modify the homepage of the tool - micro browser

Micro browser search engine Web search engine: You can modify the search engine of the tool - micro browser

5. File Manager Function Introduction





The file manager supports displaying internal storage files of the entire machine, externally connected storage device files, Google Drive network disks, and One Drive network disks.

File Search: Enter keywords to search for all files with that keyword in the current folder

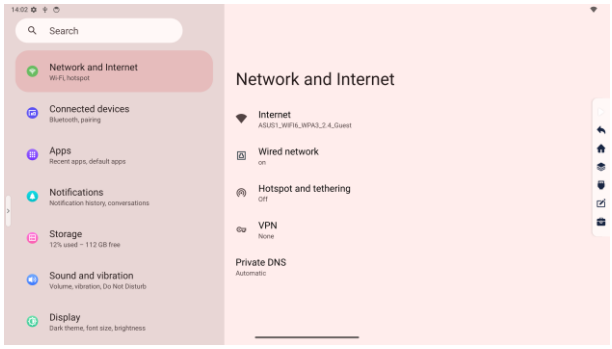
File Sorting: Sort files or folders according to certain rules (name, size, time) , users can also choose to display categories separately (pictures, audio and video, screenshots, files, APK)

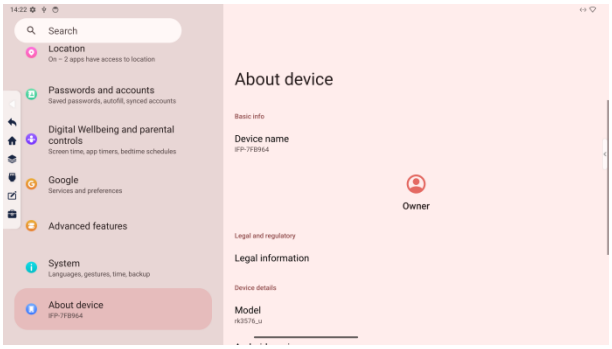
File Display: Files can be displayed in list or grid form. The list form can display name, size, and date, and the grid form only displays the name.

File Operation: Long press a file to preview, copy, crop, paste, rename, delete, cancel selection, share, and create a desktop shortcut.

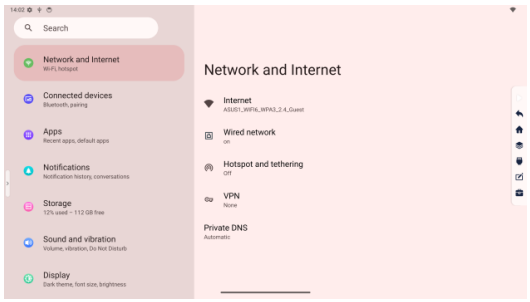
File Sharing: Connect the mobile phone and the large screen to the same local area network, select the file to be shared, click Share, scan the QR code, and download and browse the file according to the prompts; file sharing also supports Bluetooth and email.

6. Introduction to Setting Menu Functions

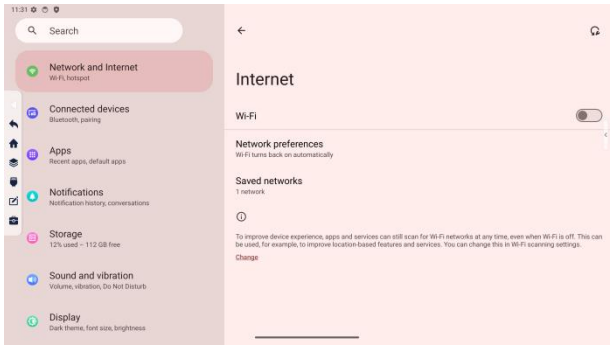


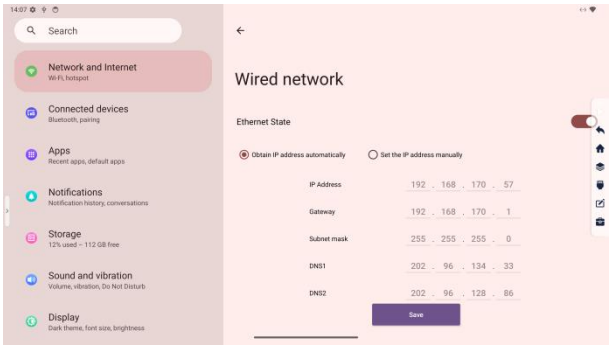


6.1. Network

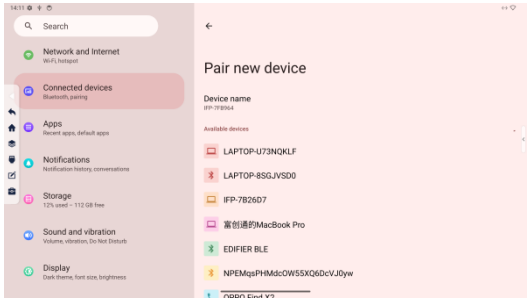


Supports wireless network connection, wired network connection, hotspot and network sharing, and VPN function.



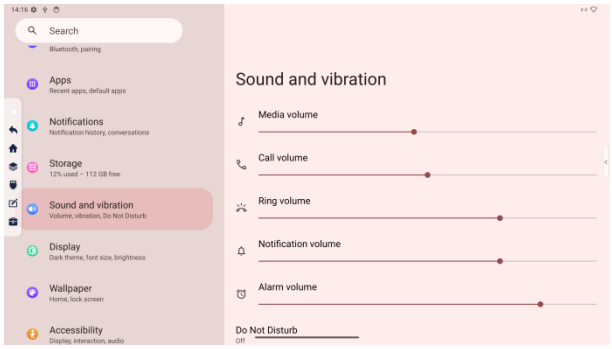


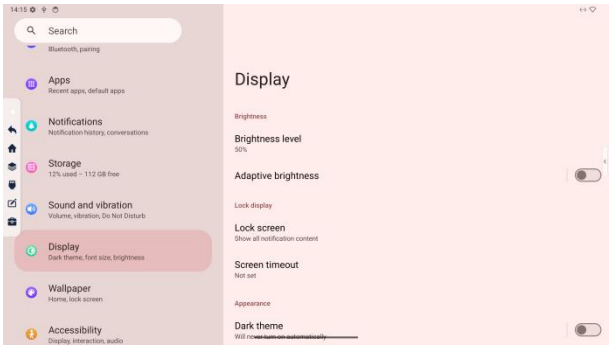
6.2. Connected devices



Supports other devices to connect to the whole machine via Bluetooth for operation and interaction, such as file transfer.

6.3. Sound and Vibration/Display

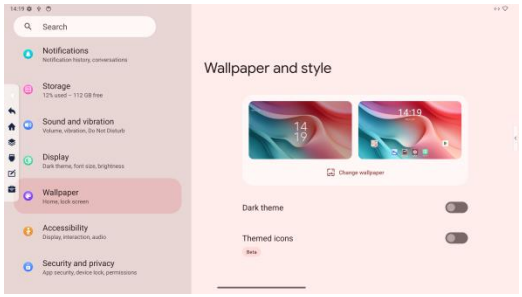




Sound and VibrationSupports users to adjust the volume of each part separately, such as audio, prompts, alarms, etc.

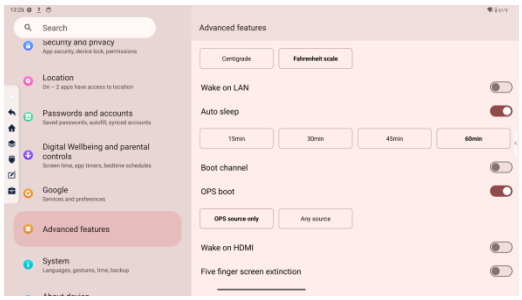
Display supports users to adjust the brightness of the large screen, select adaptive brightness, lock screen display, screen timeout, screen saver, and HDMI display settings.

6.4. Wallpaper



Support online selection of more wallpapers or external import of user-defined wallpapers, selection of dark mode and change of theme icons.

6.5. Advanced features



Power on time/Power off time: Supports setting the whole machine to automatically power on/off at a set time.

Temperature display: Supports displaying the temperature in the upper right corner of the whole machine, supports Celsius/Fahrenheit.

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

Automatic sleep: In the signal source channel, if there is no signal source for a long time and the machine is not operated, the large screen will automatically enter standby mode.

Boot channel: Supports setting the whole machine to directly enter the channel or Android after booting.

OPS startup: Used to set the OPS startup function, the system defaults to off.

HDMI wake-up: Using an HDMI signal source can wake up the large screen in standby mode.

Five-finger screen off: When five fingers touch the large screen at the same time, the large screen can quickly enter screen off.

6.5.1. **Network wake-up Operation method**:

6.5.1.1. The large screen needs to turn on the network wake-up function

6.5.1.2. The large screen is connected to a wired network

6.5.1.3. The Windows computer and the large screen are on the same local area network

6.5.1.4. The Windows computer uses a network wake-up tool to search for the IP address and MAC address of the large screen

6.5.1.5. Manually put the large screen into standby mode again

6.5.1.6. Finally, use the Wake-on-LAN tool on a Windows computer to wake up and turn on the large screen.

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

6.5.2. **OPS Startup:**When turned on, the system will determine whether the OPS automatically starts when the large screen is turned on.

6.5.2.1. OPS Channel Only Definition: When the OPS startup channel is under the OPS channel, the OPS will start after the large screen is turned on; otherwise, if the large screen startup channel is not the OPS channel, the OPS will not automatically start.

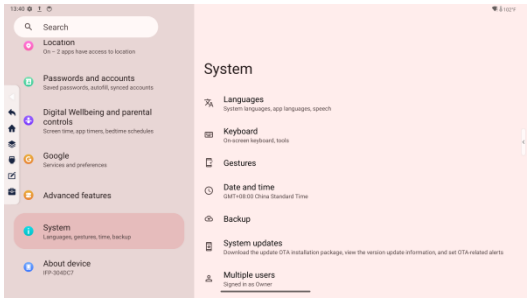
6.5.2.2. Any Channel Definition: When the large screen is turned on, the OPS will automatically start regardless of the channel.

6.5.3. HDMI Wake-up Function Operation Method:

6.5.3.1. Place the large screen in standby mode

6.5.3.2. Connect a powered HDMI cable to the HDMI IN port of the large screen to wake up the large screen

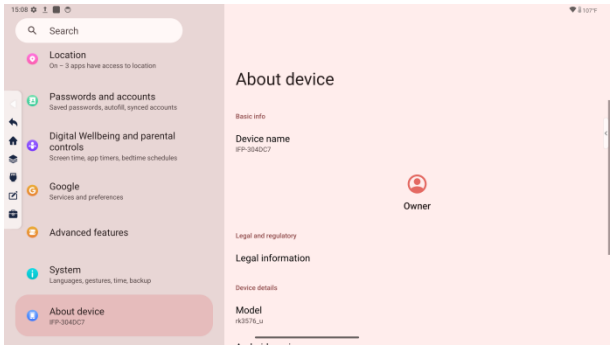
6.6. System

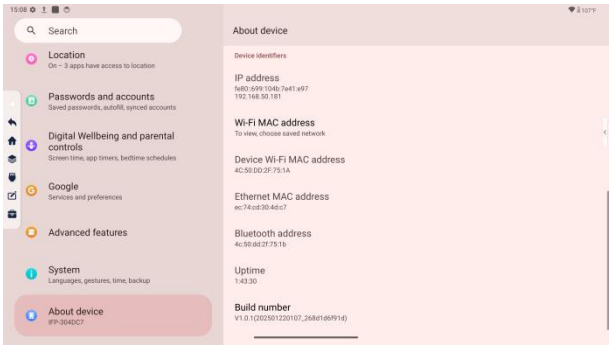


Supports changing the system language, input method, browsing gestures, date and time, backup, system update, user, and factory reset of the entire machine.

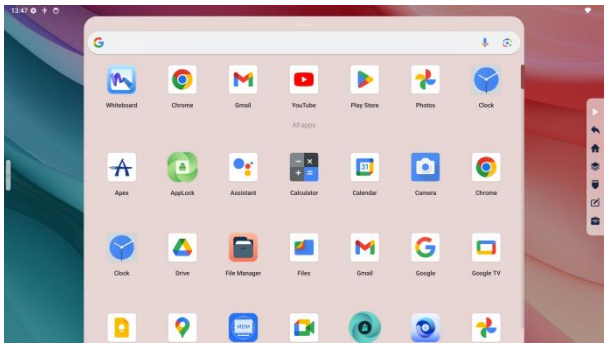
6.7. About Device

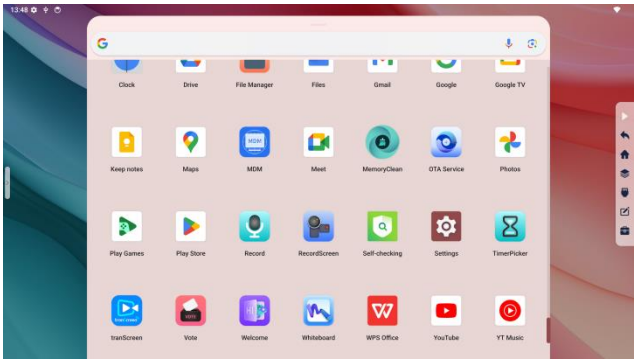
Supports viewing and changing device name, viewing device information, viewing IP address, MAC address, boot time, and firmware version.



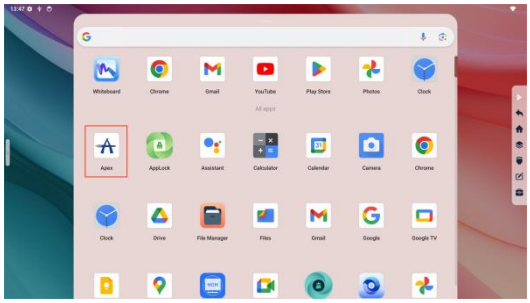


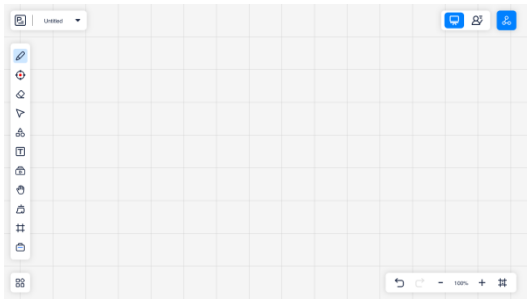
7. Application





7.1. Apex





Apex is an online cloud whiteboard that supports creating online collaborative rooms and multi-person online collaboration and interaction, breaking down information transfer barriers between teachers and students in online meetings or teaching scenarios.

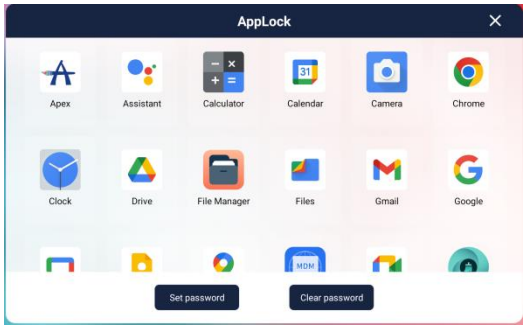
This application is suitable for three usage scenarios: whiteboard/lesson preparation/teaching. It supports importing multiple types of courseware such as PPT and PDF for teaching, and supports cloud sharing and multi-person collaboration. Files can be stored in the cloud in the courseware library, and can be easily opened and used anytime, anywhere.

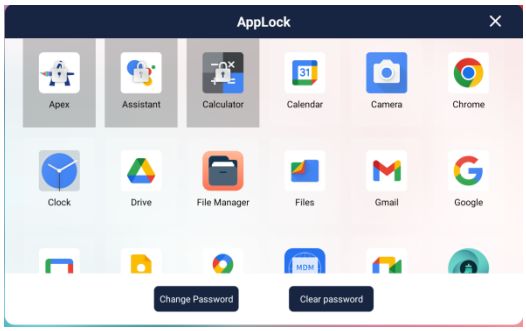
Common Tools - Left Toolbar: Brush Tool, Laser Pointer Tool, Eraser Tool, Selection Tool, Polygon Tool, Text Tool, Material Tool, Pan Tool, Clear Screen Tool, Frame Tool, Toolbox.

Menu Toolbar: Login, Open File, Save, Export, Help Center, Switch Language, Background Color.

7.2. App Lock Apps Lock

Used to set lock permissions for applications. When an application is locked, you need to enter the application lock password and the correct password to enter the locked application interface.





How to use:

- Set a four-digit password.

- Select the locked application range by clicking on the application. A small lock will be displayed on the selected application icon.
- To change the password, you need to enter the current password again and enter the new password twice to confirm the change.

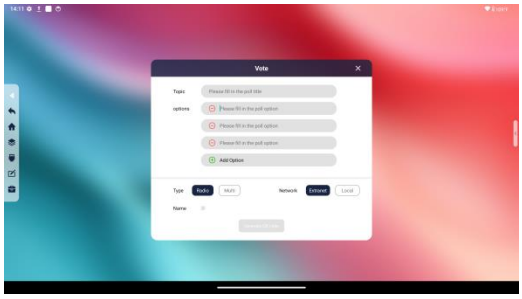
- When the application lock is not needed, you can enter the current password through the clear password function to cancel the application lock.

7.3. Calculator Calculator

The calculator supports simple operations and saving calculation history.

7.4. Vote

Voting machines can reflect public opinion, are an effective way to promote democracy, and help teams make decisions on major issues.



Voting setup steps

Voting topic / Options (required): The topic of the vote needs to be clearly stated, and there must be at least 2 voting options.

Option type: Set whether the voting options are single-choice or multiple-choice.

Network: The network is divided into external and internal networks. When an external network is selected, the large screen and the voters do not have to be on the same local area network; when an internal network is selected, the large screen and the voters must be on the same local area network.

Voter name: When this item is checked, voters can fill in their names on the answer sheet.

Generate QR code: After setting the above content, click 'Generate QR code' and the large screen will display the QR code and update the voting status in real time. When the QR code is too small, you can click the zoom button to enlarge the QR code.

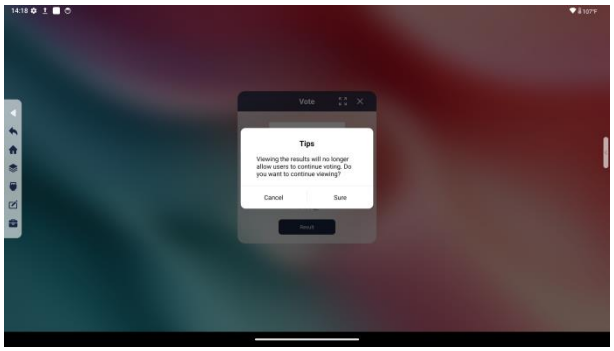
Voting process for participants:

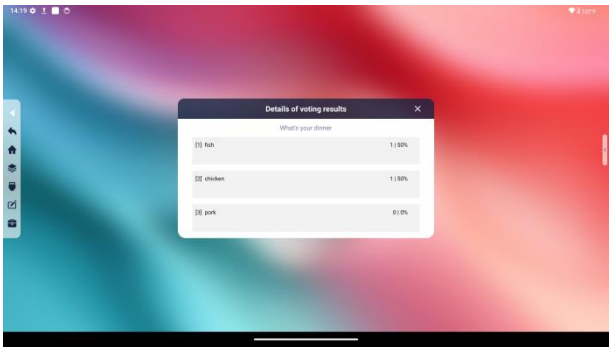
7.4.1. Participants use the mobile phone scan function to vote

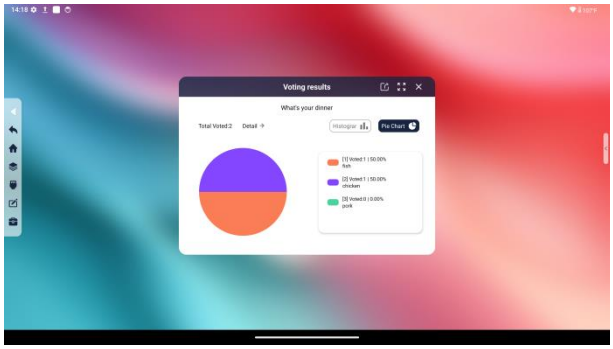
7.4.2. Then check the desired options

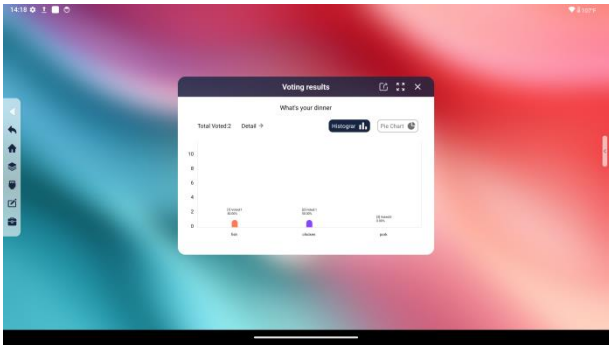
7.4.3. Click the 'Vote' button

Click the 'View Results' button on the large screen, and a prompt box will pop up on the large screen asking whether to end the voting. Voting is suspended while viewing the voting results. The voting results will form a data analysis, represented in the form of a bar chart or pie chart, and users can also browse the voting details only.Voting results support insertion into the whiteboard or enlargement to full screen view.

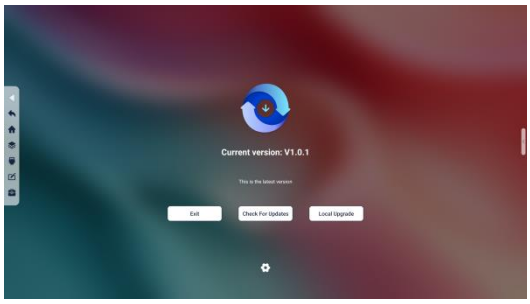








7.5. Upgrade OTA



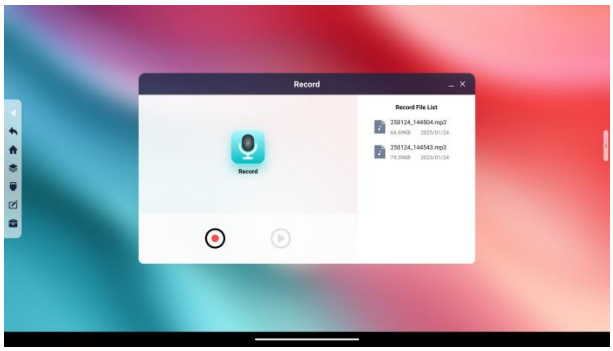
The OTA function supports users to upgrade the system firmware. Users can upgrade through the network or through a local USB flash drive. The whole machine cannot be operated or powered off during the upgrade. Through settings, users can choose to automatically check for updates when the system is turned on, automatically check for updates when the system is turned off, and automatically install functions.

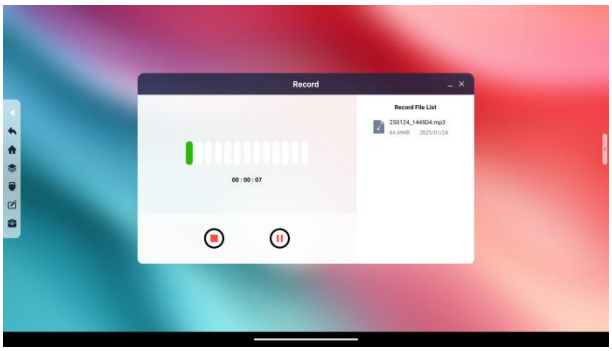
7.6. Record

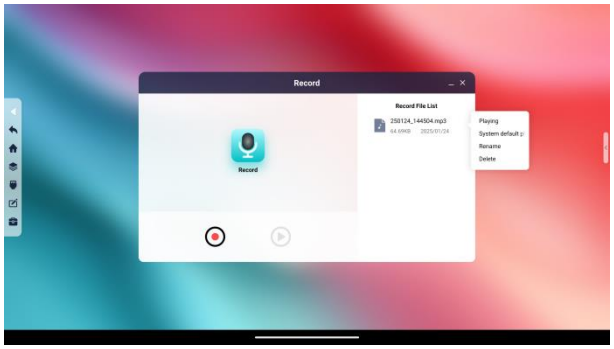
Recording APK, which can be used to record external sound sources of the large screen and record classroom content or meeting content.

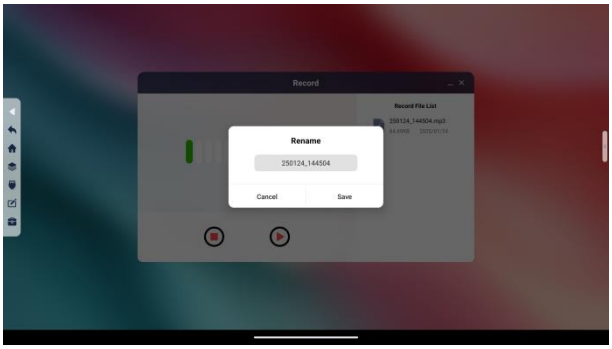
Operation method:

1. Click the record button
2. Recording application interfaceThenThe end recording and pause recording buttons appear
3. When there is an external sound source, the recording application interface will display a green soundprint to allow the user to know whether the current large screen has picked up the external sound source.
4. Long press the recording file on the right side of the recording application for 1 second to perform secondary operations on the recording file, such as: playing, jumping to the system player to play, renaming, and deleting the recording file.









7.7. Welcome

This function supports displaying important information such as welcome remarks and conference themes on the full screen of the whole machine in conference or event scenarios. Users can choose their desired theme and edit the corresponding content.

7.8. MDM

Fuchuangtong MDM device management system is deployed on the cloud platform. No matter where you are, device administrators, IT administrators, or project leaders can quickly, centrally monitor, manage, and support device usage without geographical restrictions.

8. For further assistance

For more information, please refer to the [User Manual/Online Help].

9. Attention

Attention : Due to product version upgrades or other reasons, the content of this document may be updated from time to time. Unless otherwise agreed, this document is intended for guidance only. All statements, information, and recommendations contained herein do not constitute any express or implied warranty.