



Collaboration Touch Screen User Manual

V1.0

Newline Interactive, Inc.

www.newline-interactive.com

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Welcome:

Thanks for purchasing this product. Please read the instructions carefully before using this product.

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.



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.

The symbol of the crossed out wheeled bin indicates this product should not be placed in municipal waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment.



About This Document

Welcome to use the Collaboration Touch Screen.

This document describes multiple functions, instructions and notes of the product. Before using the product, read this document carefully.

Figures in this document are only for your reference.

Symbols are used in this document to indicate operations that need particular attention. The symbols are defined as follows.



NOTE

Provides additional information to supplement operations in the main text.



TIP

Provides tips for operations.

1 Overview

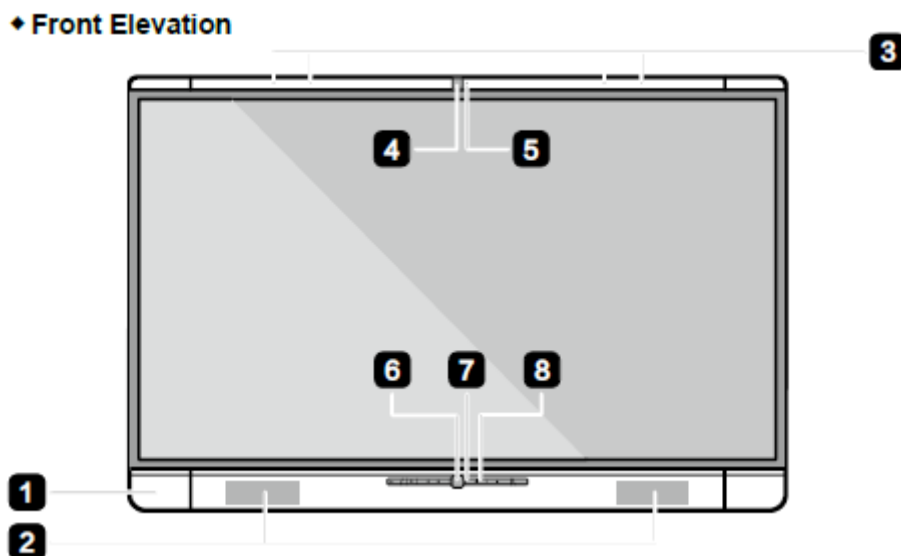
1.1 Introduction

The Collaboration Touch Screen adopts the advanced capacitive touch technology and All in One design, and integrates video, audio, touch, writing, and multi-media presentation functions. This product does not need additional devices, installation and wiring, and commissioning and maintenance.

Dedicated software is customized for the assistant meeting. It can meet requirements of various meeting modes, implementing convenient comments on local documents, viewing multi-media files, conducting multiparty remote video and audio meetings, managing local files, and improving meeting experience and work efficiency.

1.2 Parts

Front Elevation



 **NOTE**

- The top and bottom cameras cannot be used at the same time.
- The indicators of the top and bottom cameras are white when in use and off when not in use.

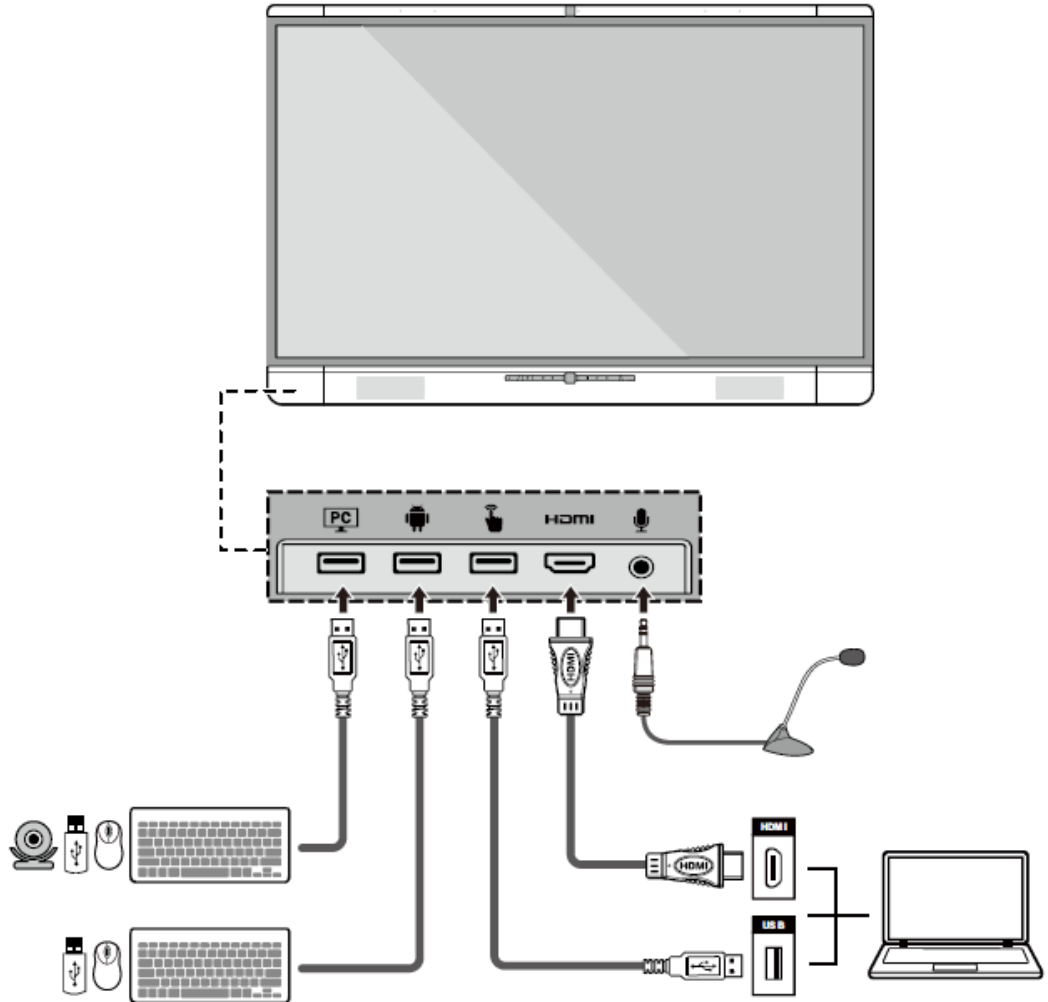
Rear Elevation



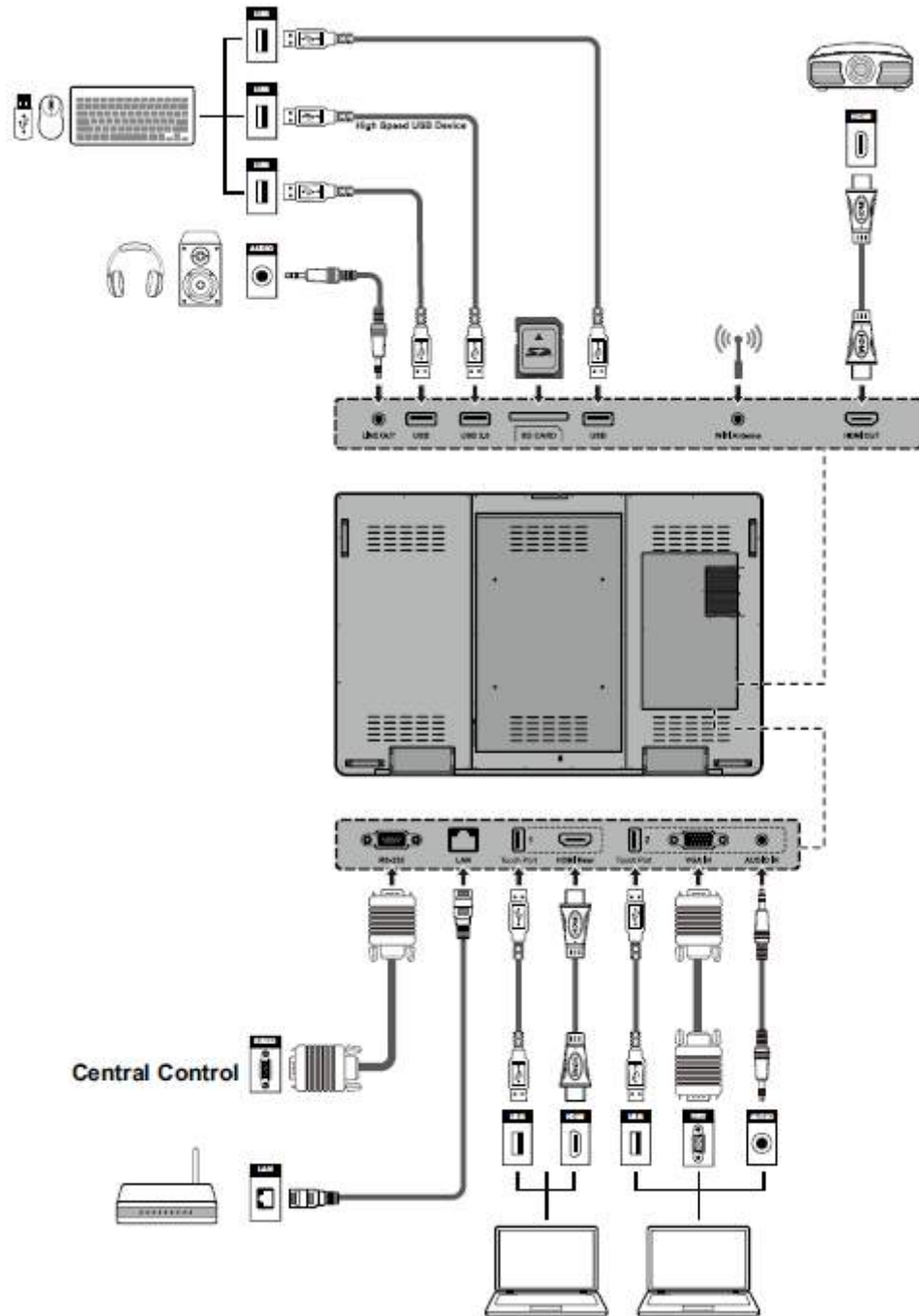
- | | | |
|---------------------------|---------------------------|-----------------------------------|
| 1 Front Ports | 5 Camera Indicator | 9 General Power Switch |
| 2 Speakers | 6 Bottom Camera | 10 AC Power |
| 3 Microphone Array | 7 Camera Indicator | 11 Internal PC |
| 4 Top Camera | 8 Front Buttons | 12 Ports in the Back Panel |

1.3 Ports

Front Ports









Rear Ports







Front Buttons
















Buttons	Operations	Functions
	Short press	Power on/off
	Short press	Decrease volume
	Long press for more than 1 second	Decrease volume continuously
	Short press	Increase volume
	Long press for more than 1 second	Increase volume continuously
	Short press	Open the menu
	Short press	Return to last menu/Exit
	Short press	Go to the home page

1.4 Remote Control



Button	Function
	Power On/Off
UC	Start the Default UC Programs
	Mute
	Microphone Mute
	Up/Down/Left/Right
OK	Confirm/OK

Button	Function
	Return to Previous/Exit
	Go to the Home Page
	Open the Menu
	Switch to Top Camera
	Switch to Bottom Camera
	Increase Volume
	Decrease Volume
	Settings
Front	Switch Source to HDMI Front
Rear	Switch Source to HDMI Rear
VGA	Switch Source to VGA
PC	Switch Source to Internal PC
	Page Up
	Page Down
	Toggle Display Mode
	Zoom Out (PC)
	Zoom In (PC)

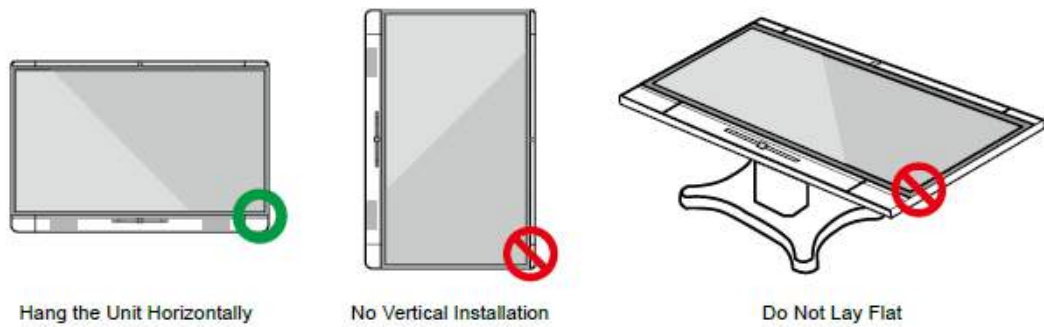
2 Installations

2.1 Safety Precautions

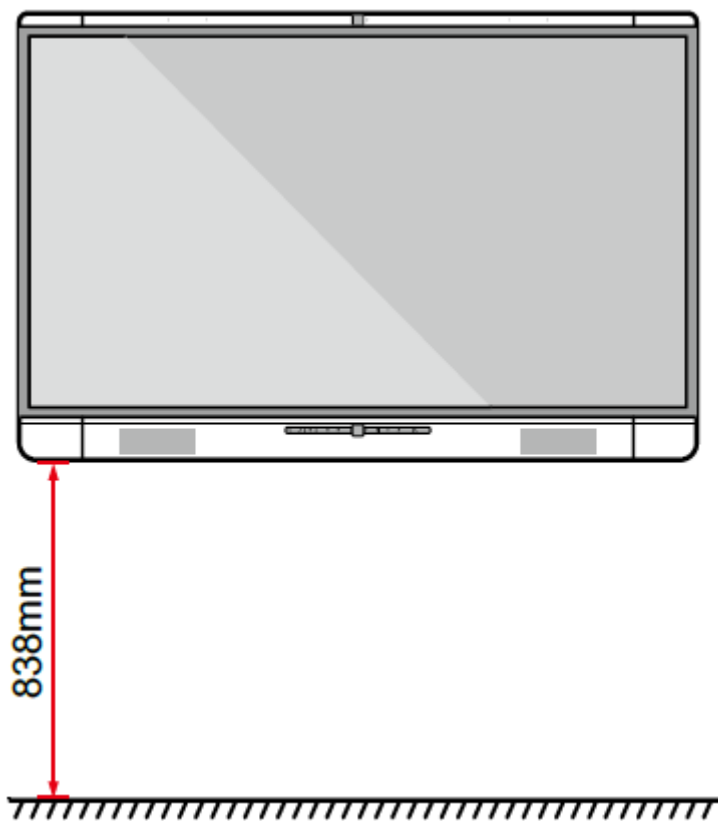
Installation Environment



Installation Direction



Installation Height



2.2 Installation Precautions

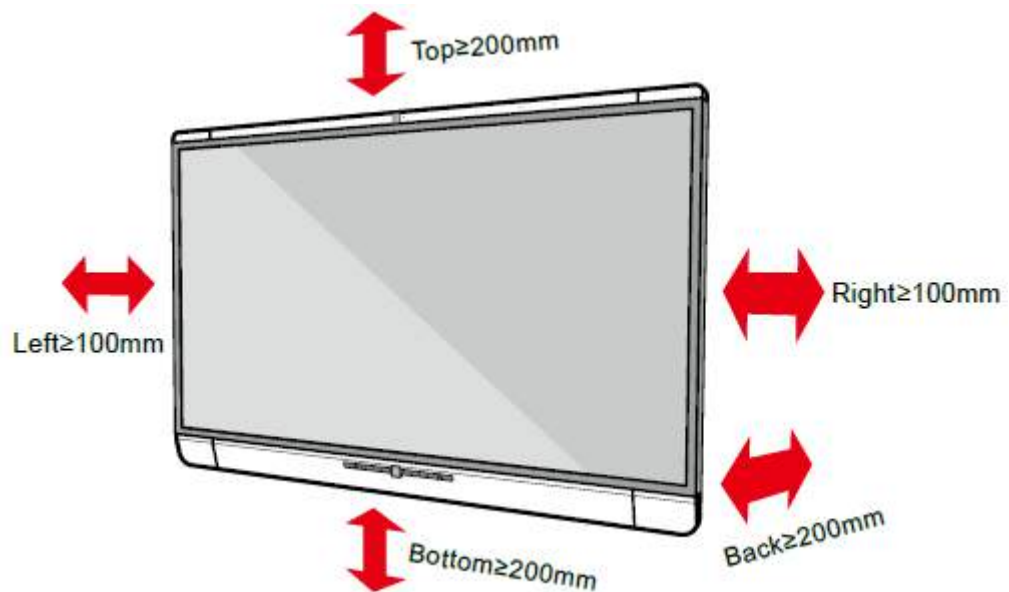
Weight Loading

- The back of the panel is equipped with holes in VESA standard. Please use a VESA standard mounting system.

- When using a mobile cart, please ensure the mobile cart has no less than 80kg loading capacity.
- Weight of the unit: 143.3 lb/65kg
- When using wall-mount bracket, please ensure the wall can support the weight of the unit. We recommend that the wall surface is reinforced, and have a loading capacity twice the weight of the unit. Please consult a professional installer for wall-mount installation.
- Do not install the unit where it might be hit by a door.

Ventilation

Ensure adequate ventilation and/or air conditioning environment. We recommend to keep certain distance from the side of the unit to the wall or panels. Ventilation requirement is showed in following figure.



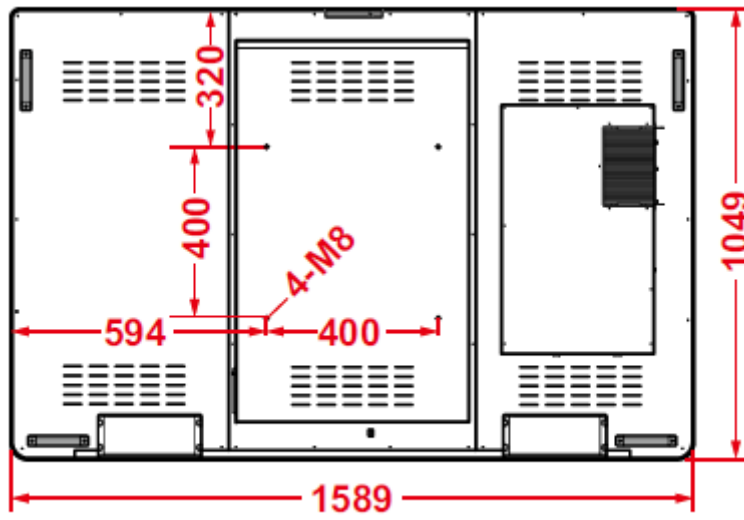
2.3 Installation

The dimensions of the 4 bracket mounting holes in the back panel is VESA MIS-F compliant (400 x 400mm). Please use the metric M8 screws with length of 10 to 15mm to secure the touch screen with the mounting system. Dimensions of the mounting holes in the back panel is shown in the following figure.



NOTE

Please have a professional installer to install the display unit.



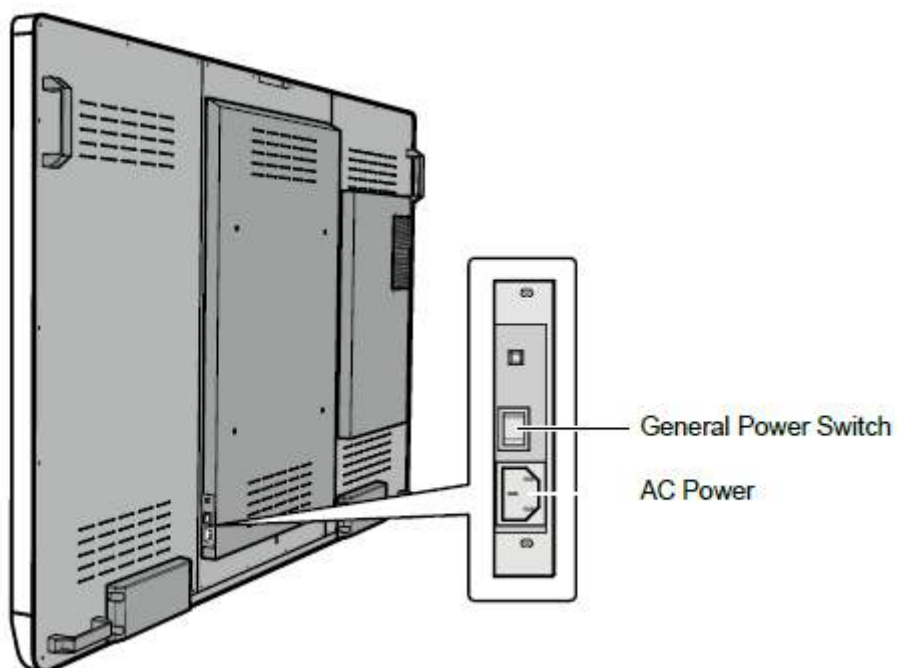
Unit: mm

3 Preparation

3.1 Power On

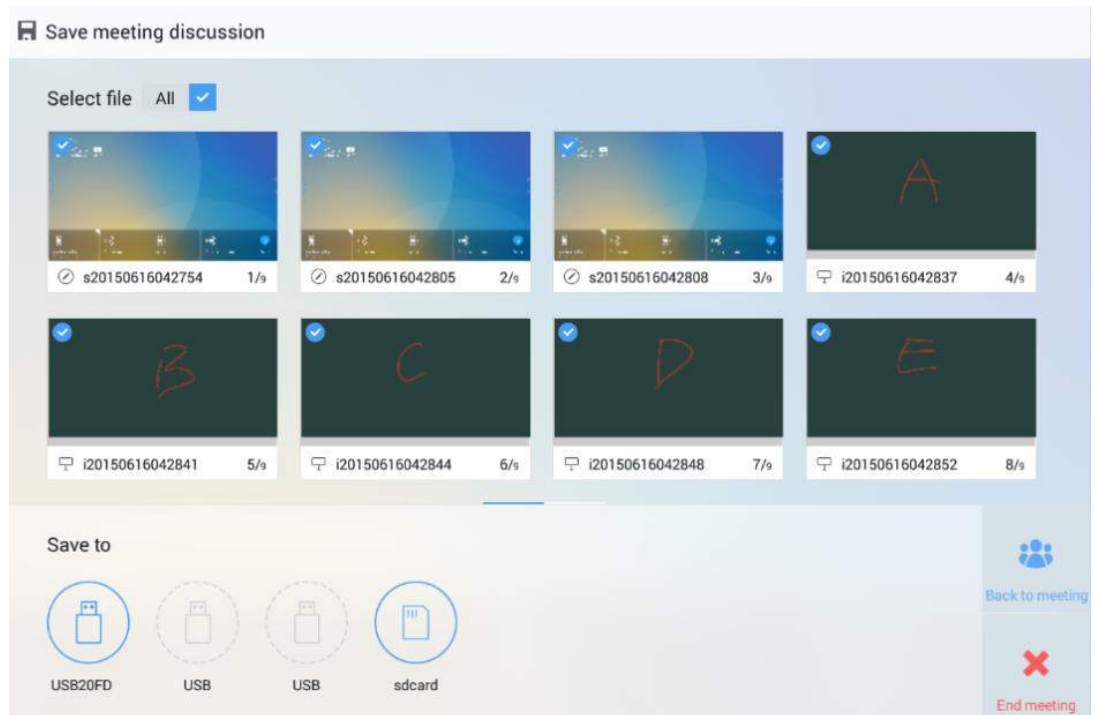
Step 1 Plug in the power plug to the power outlet, and plug in the power connector to the side of the unit. Please ensure the power is in the range of 100V- 240V with frequency at 50Hz/60Hz $\pm 5\%$. The power current must be grounded.



Step 2 Turn on the general power switch located on the side of the unit.

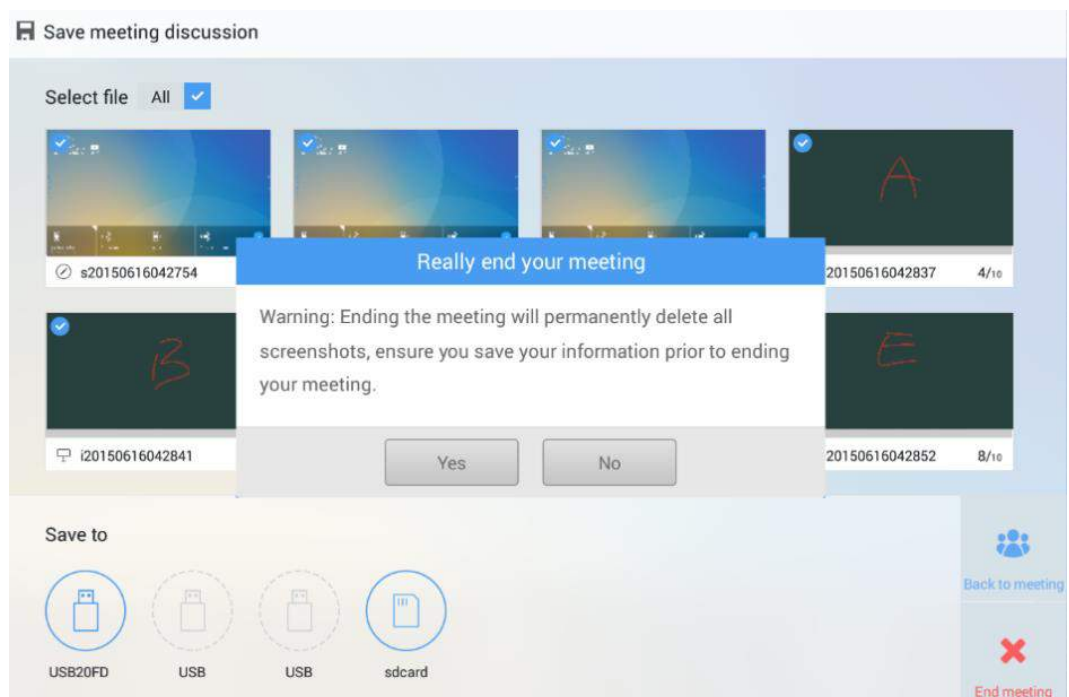


3.2 Power Off

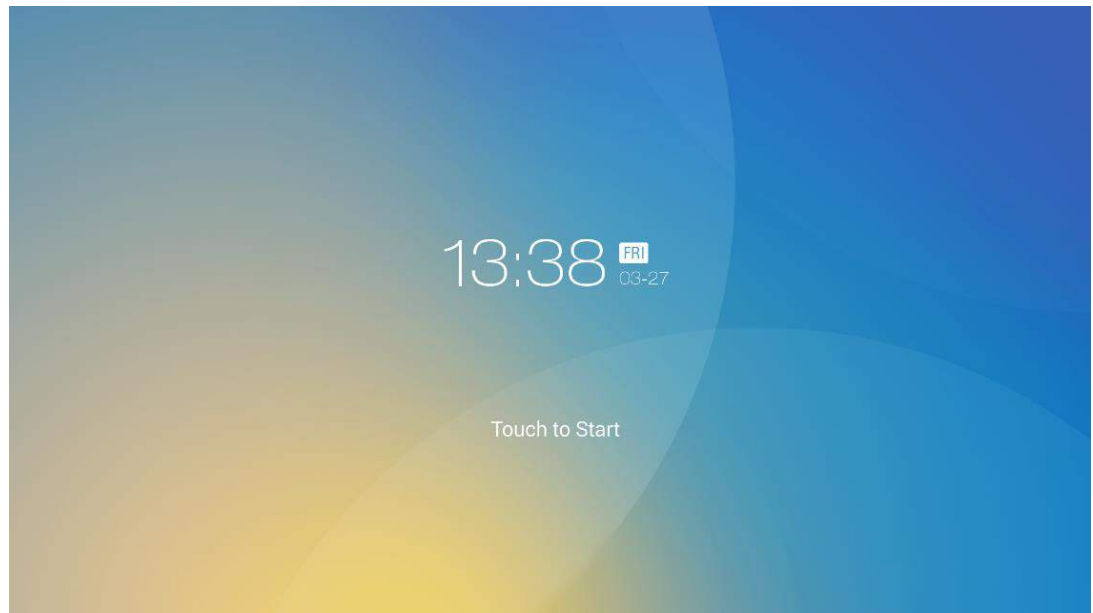
Step 1 Press the power button  on the front panel or the power button  on the remote control. The **Save meeting discussion** page is displayed as follows.





Step 2 Press the power button  on the front panel or the power button  on the remote control again. The **Really end your meeting** dialog box is displayed as follows.



Step 3 In the **Really end your meeting** dialog box, click **Yes**. The meeting start page is displayed as follows.



Step 4 Press the power button  on the front panel or the power button  on the remote control again to power off the panel. The power indicator turns off.

Step 5 If you are not going to use the unit for an extended period of time, we recommend you to switch off the general power switch.

3.3 Position

If the cursor position has a big deviation from the actual touch point, calibration is used to eliminate the deviation. Positioning is required in the following scenarios:

- The computer with OPS inserted is used.
- The computer is connected through the HDMI or VGA interface.



NOTE

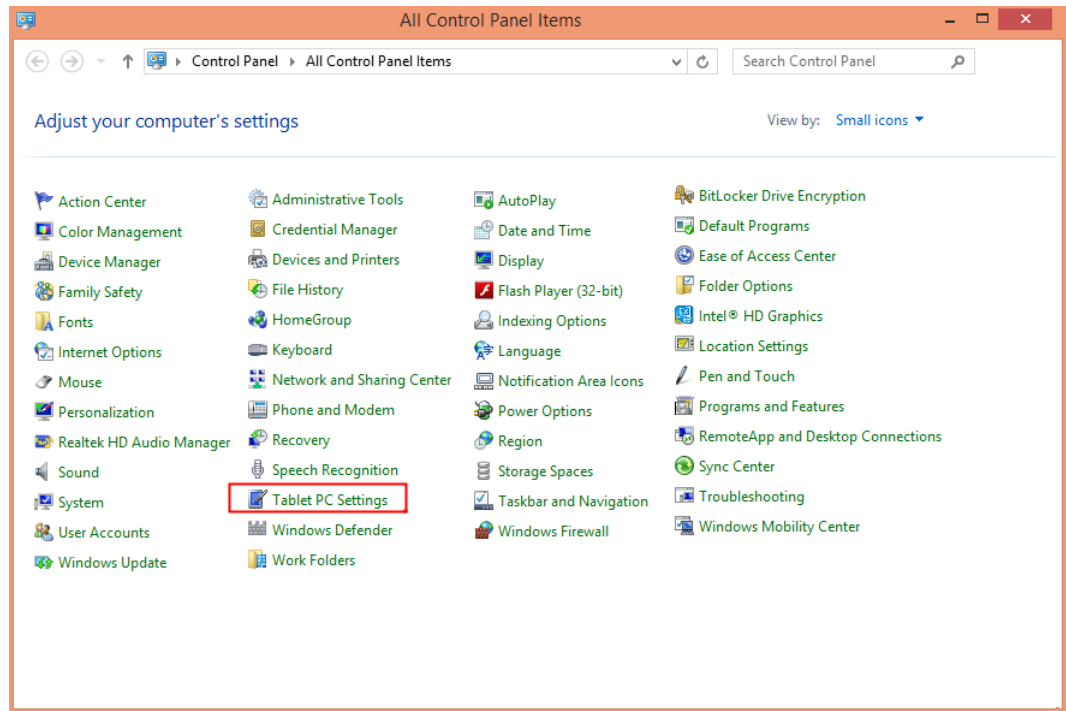
Interface operation on Android system does not need positioning. External devices with Microsoft Windows 7 or later versions require positioning.

If the positioning is not correct, perform the following operations to calibrate again:

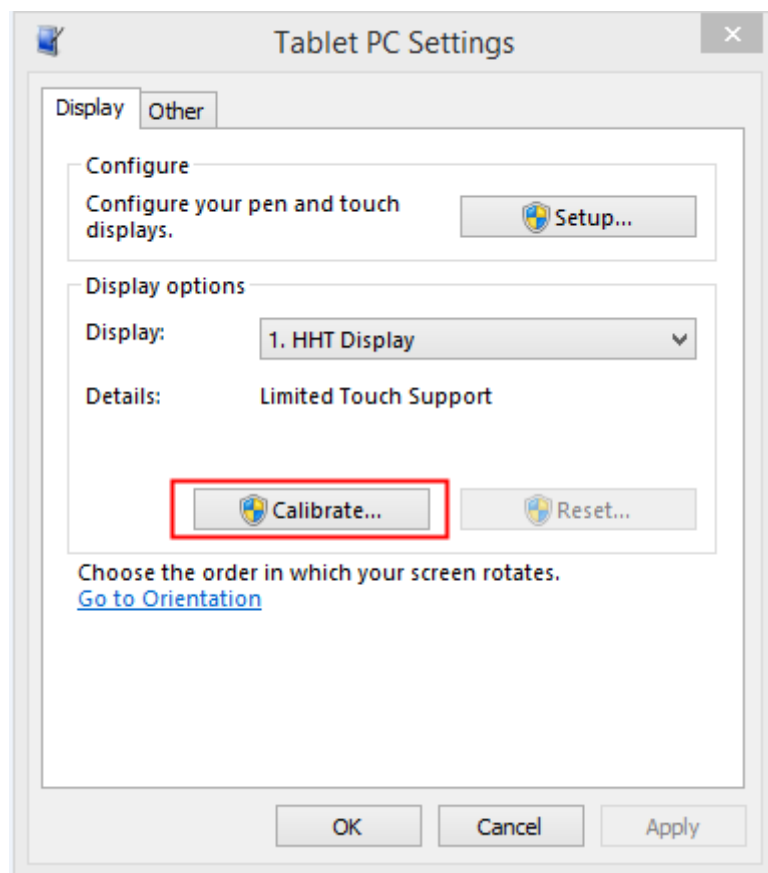
Step 1 Ensure that the HDMI or VGA interface and external devices are connected properly.



Step 2 Select the corresponding signal source on the signal source page. The Windows page is displayed.

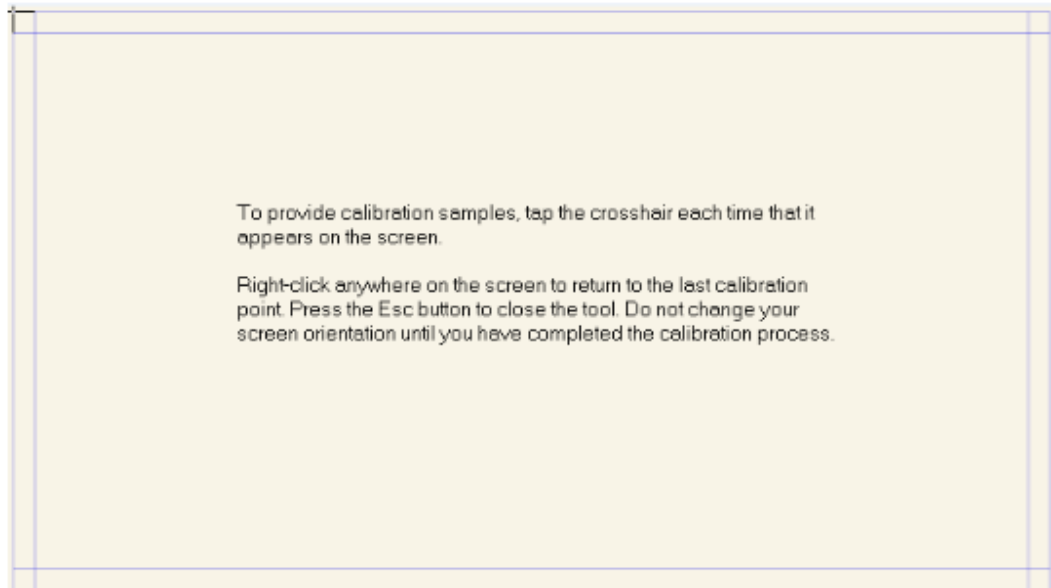
Step 3 Select Tablet PC Settings on the Control Panel page.



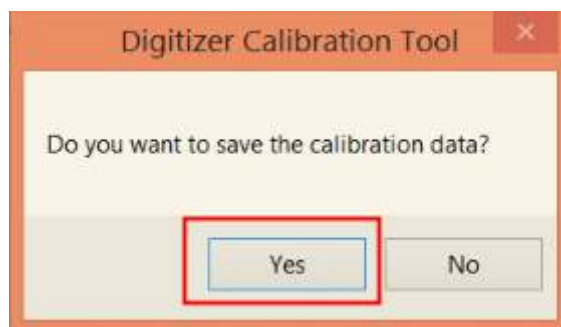
Step 4 Select  in the Tablet PC Settings window.



Step 5 Use the pen to click and hold the center of the flickering crosshair . Do not release it until  moves to the next positioning point. Complete the calibration process as instructed.



Step 6 After the calibration is complete, the **Digitizer Calibration Tool** dialog box is displayed. Click **Yes** to save calibration data.



 **TIP**

- To ensure writing accuracy, you are advised to use the pencil released with the product for positioning.
- Positioning errors may cause failure of touch functions of the display. In that case, please perform positioning again.

Step 7 The **Tablet PC Settings** dialog box is displayed again. Click **OK**. The positioning is complete.

----End

4 System Applications

4.1 Home Page

When the unit is turned on, it will show the “Meeting Start” page. User can touch the screen to start a meeting, and the unit will go to the Home page. See following figures.

Figure 4-1 Meeting Start page

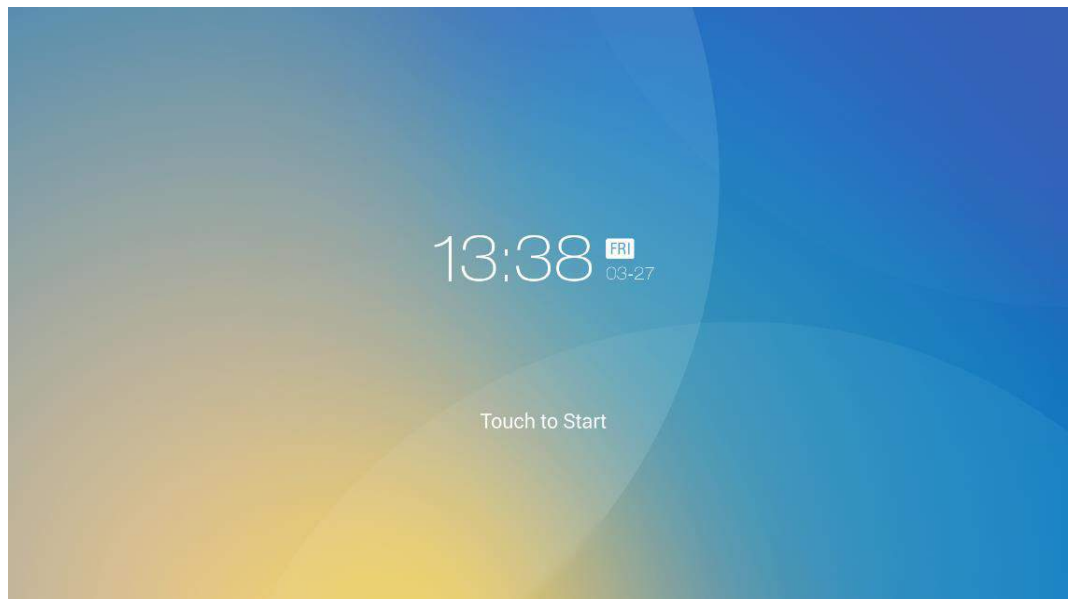
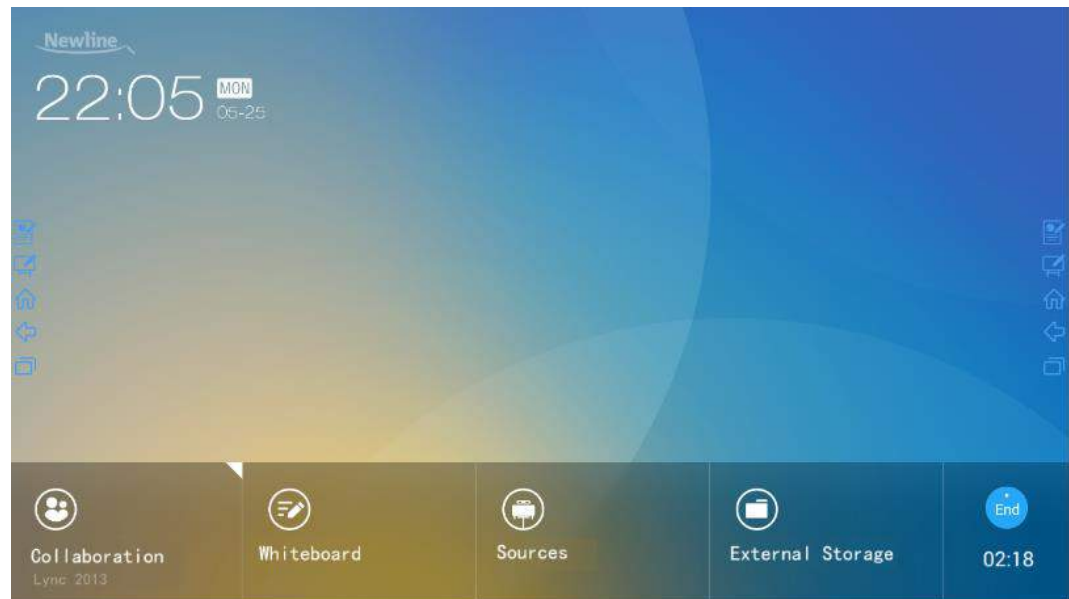







Figure 4-2 Home Page



- **Collaboration**
User can touch here to start the default UC programs, or touch the small “triangle” to set three frequently use UC programs. The default UC program is the one used last time.
- **Whiteboard**
The “Whiteboard” provides whiteboard and screen annotation functions.
- **Sources**
Customer can select one of the four sources to display, including HDMI Front, HDMI Rear, Internal PC and VGA.
- **External Storage**
Open up the file manager to open files from external USB disk.
- **End**
Press “End” to end a meeting. Customers will have the choice of saving the discussion boards screen captures and ending the meeting. Once a meeting is ended, all discussion boards will be cleared.

Quick Access Buttons on Both Sides

-  : Start the Annotation Mode of Whiteboard
-  : Start the Writing Mode of Whiteboard
-  : Go to Home Page
-  : Return to Previous App / Exit
-  : Switch Apps

4.2 Assistant Meeting

4.2.1 Newline Assistant

Introduction

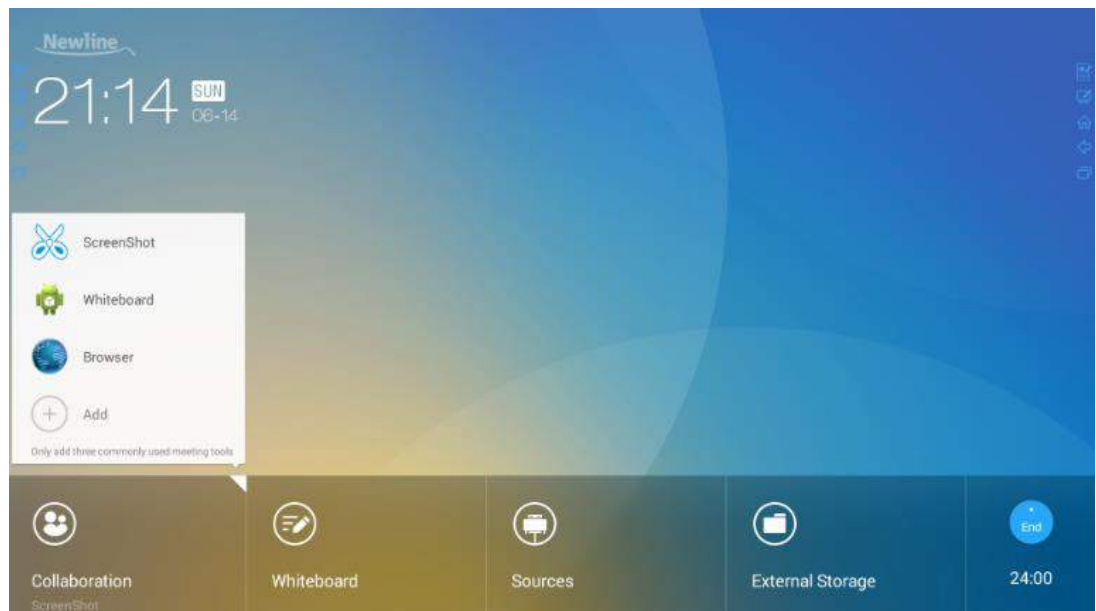
Newline Assistant is a tool used to obtain applications required by users on Windows system. On Android system, you can start Windows applications by clicking one button.

Installation

- Step 1** Connect Internal PC correctly.
- Step 2** On the home page, click **Sources**.
- Step 3** On the displayed signal source selection page, select PC. The Windows page is displayed.
- Step 4** Log in to the website www.newline-interactive.com and choose Products > Software to download Newline Assistant installation package.
- Step 5** Install [Newline Assistant](#) as instructed.

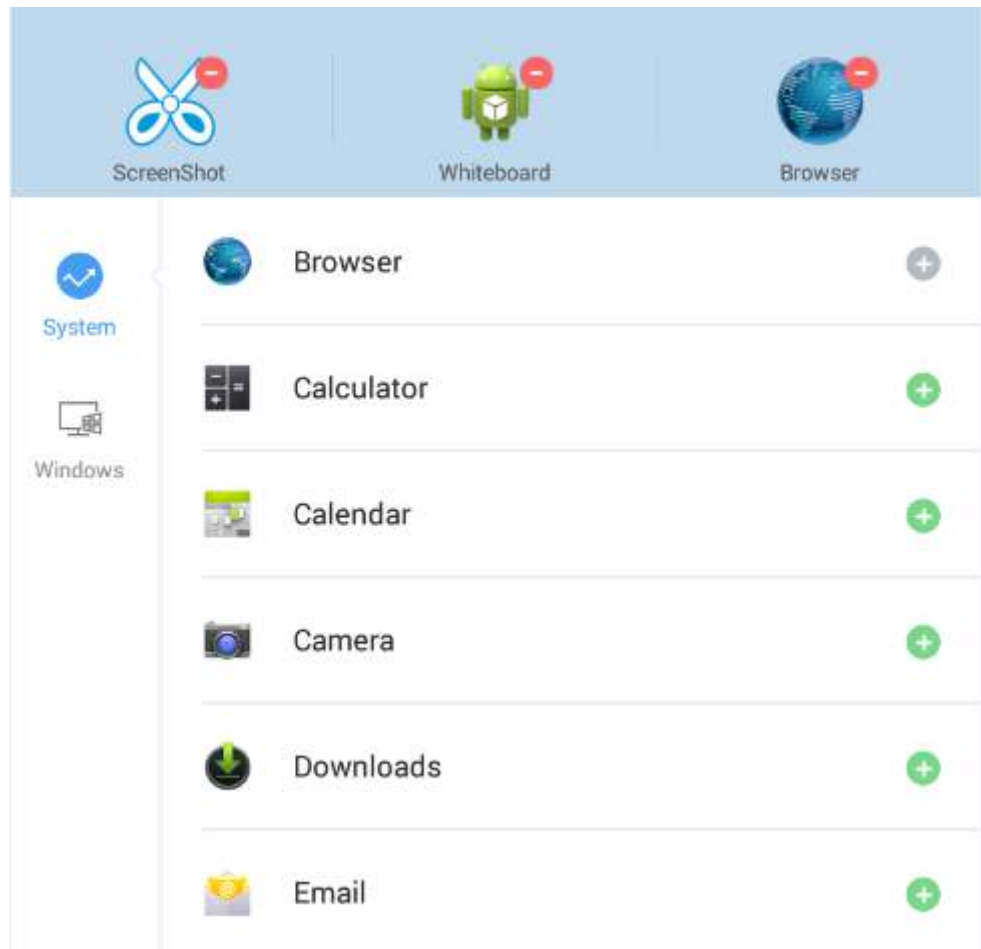
4.2.2 Switch Applications

On the home page, click **Collaboration** to start applications used last time, or click the triangle at the upper right corner of **Collaboration** to open the application list and select current applications to start the collaboration meeting. See the following figure.



4.2.3 Add or Delete Applications


To change meeting software, click the triangle at the upper right corner of **Collaboration**, click **Add** on the displayed menu, and add or delete applications on the application customization page. The following figure shows the application customization page.




NOTE

The **Windows** icon on the left navigation area is available only when the Collaboration Touch Screen has Internal PC.

Add Applications on Android System

Step 1 On the application customization page, click  to view applications on Android system.

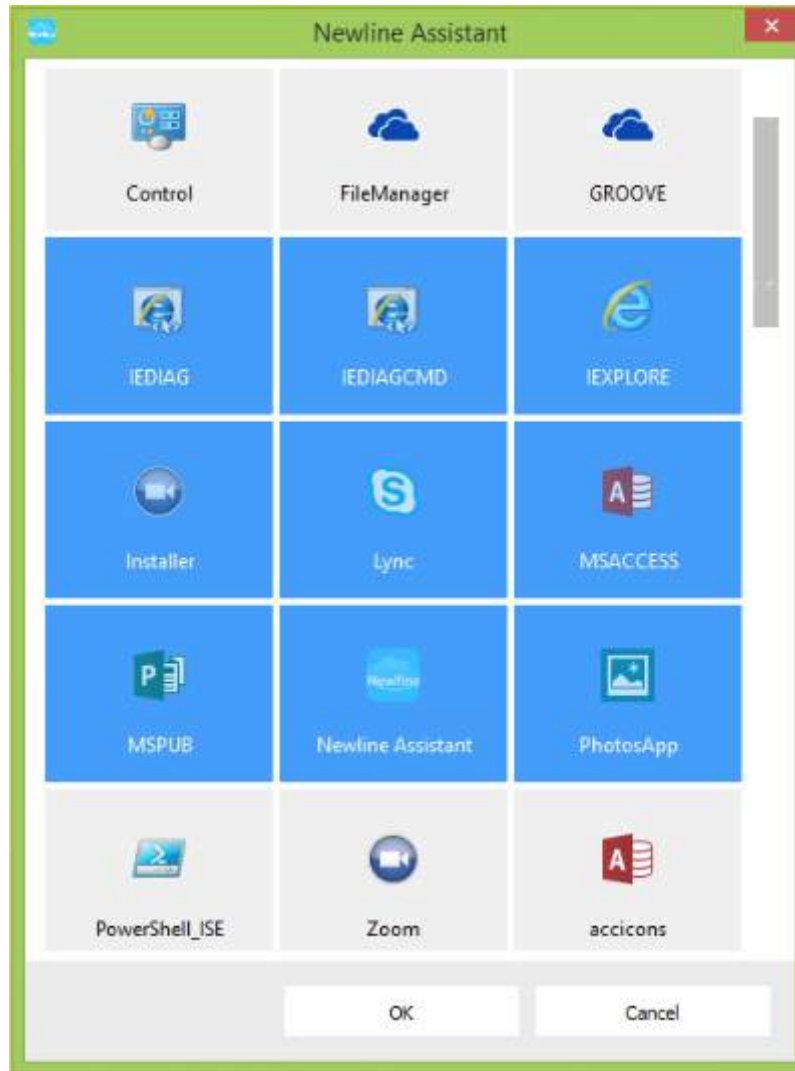
Step 2 In the application list displayed on the right area, click  on the right of an application to add the application.

A maximum of 3 applications can be added.  is displayed on the right of an application that has been added.

Step 3 Return to the home page, click the triangle at the upper right corner of **Collaboration**, and click the added application on the displayed menu. After the application is started once, its name will be added to the lower area of the **Collaboration** button, and users can fast start the added application by only clicking **Collaboration**.


Add Applications on Windows System

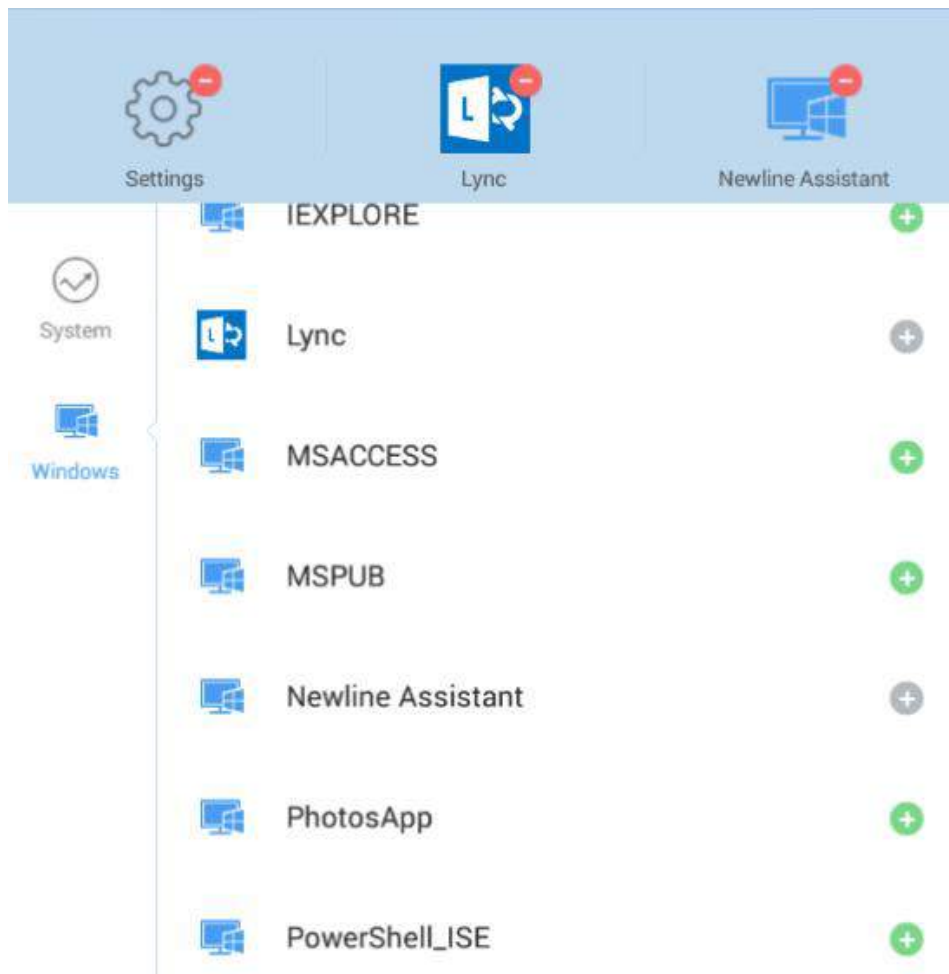
Step 1 Run the Newline Assistant application on Windows system, and select applications to be added in the displayed **Newline Assistant** window.





Step 2 Click  to return to the home page. Click the triangle at the upper right corner of **Collaboration** and select **Add** on the displayed menu. The customization page is displayed.



Step 3 On the customization page, click  to view all Windows applications added using Newline Assistant in Step 1.





Step 4 Add applications on the page described in Step 3.

In the application list displayed on the right area, click  on the right of an application to add the application. A maximum of 3 applications (including Android and Windows applications) can be added.  is displayed on the right of an application that has been added.

Step 5 Return to the home page, click the triangle at the upper right corner of **Collaboration**, and click the added application on the displayed menu. After the application is started once, its name will be added to the lower area of the **Collaboration** button, and users can fast start the added Windows application by only clicking **Collaboration**.

Delete Applications




On the application customization page, click  at the upper right corner of an application to delete the application. After an application is deleted successfully,  restores to .

4.3 Whiteboard

- Writing or Annotation
On the whiteboard page, you can select pen type, width, and color to write or annotate. Also erase selected content or clear all contents.
- File management
Preview, select, copy or delete a file.

To access the whiteboard meeting, click **Whiteboard**. See the following figure.




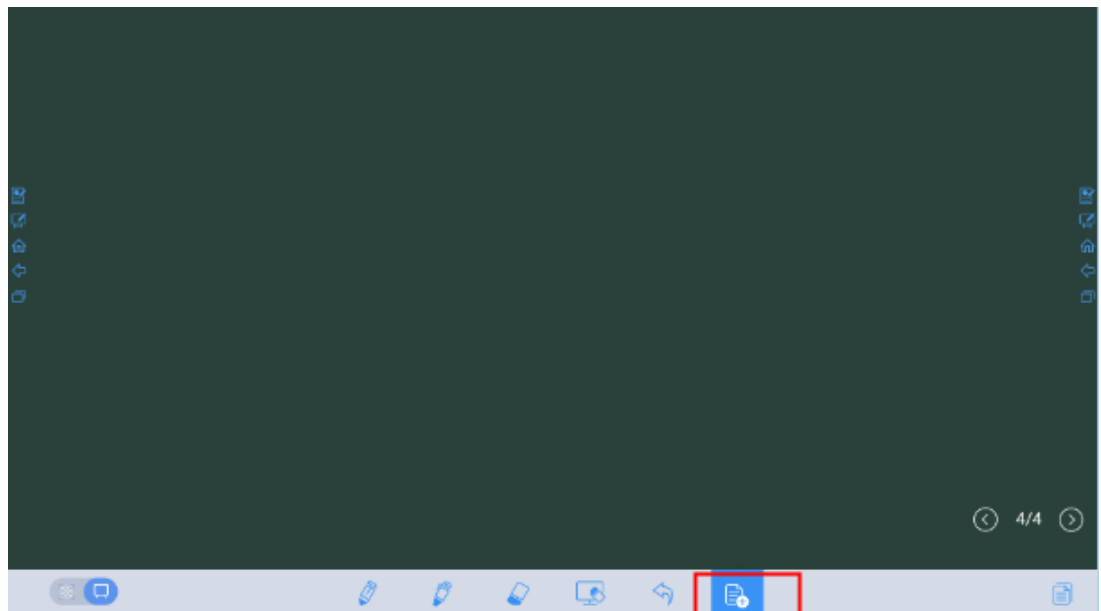
SN	Icon Name
1	Switch between writing and annotation modes.
2	Hard pen
3	Highlighter
4	Eraser
5	Clear
6	Undo
7	<p>New slide</p> <p> NOTE</p> <p>Only writing mode has this function. In annotation mode,  is replaced with  (screenshot). For details about writing and annotation modes, see section Whiteboard Mode.</p>

4.3.1 Whiteboard Functions


New Slide and Settings

- Create a new slide

In writing mode, click  to create a new slide. A maximum of 20 slides can be created. See the following figure.






- Slide settings

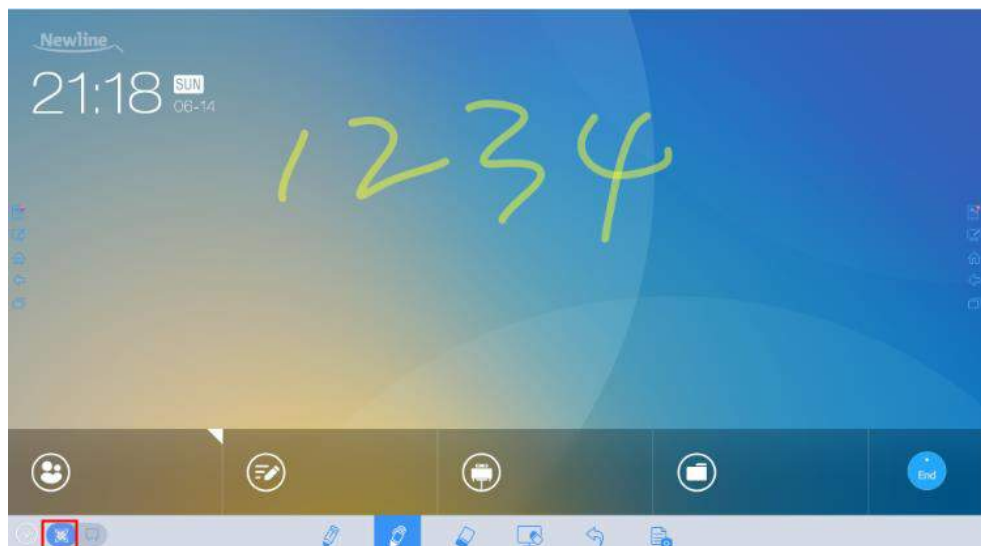
Click and hold  to set the background color of new slides. See the following figure.




Whiteboard Mode

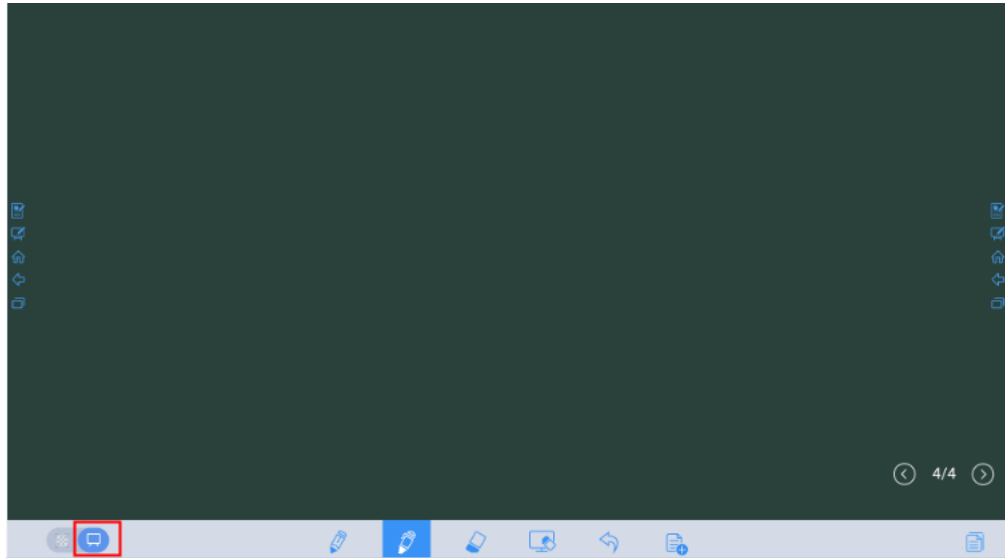
Click  and  at the lower left corner of the whiteboard to switch whiteboard modes.

- : Annotation mode
 The background is transparent and the real-time image of the current signal source is displayed. You can comment on presentation content such as Office documents and pictures as required. See the following figure.





- : Writing mode

The background is in mono color. You can write content as required. See the following figure.



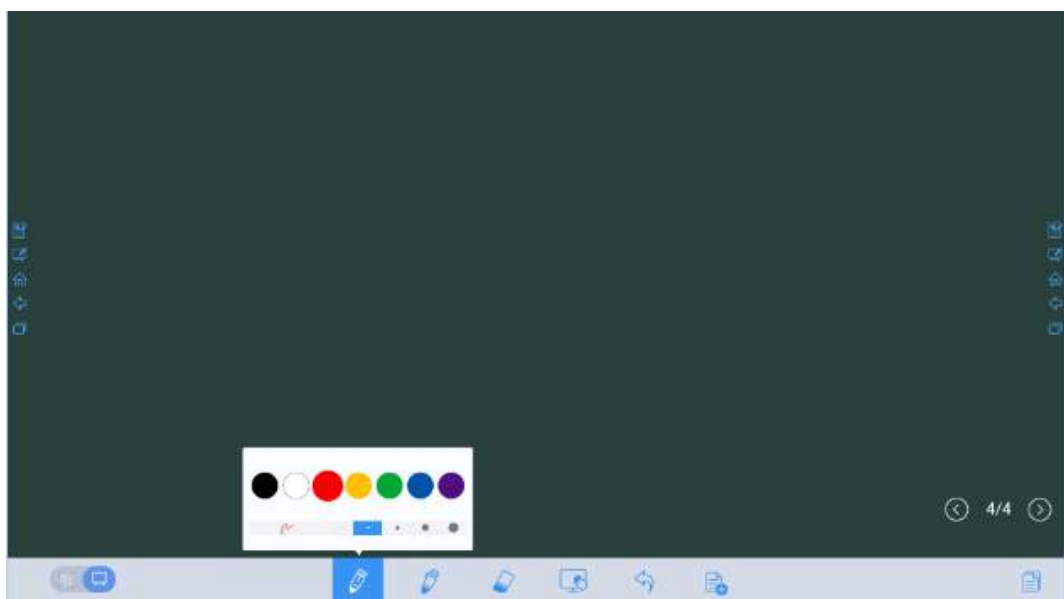
Pen Type

On the whiteboard, two types of pens are supported: hard pen and highlighter. Their icons are  and .

- Hard pen: used to write.
- Highlighter: used to comment. Characters covered by comments are visible.



Line Type and Color

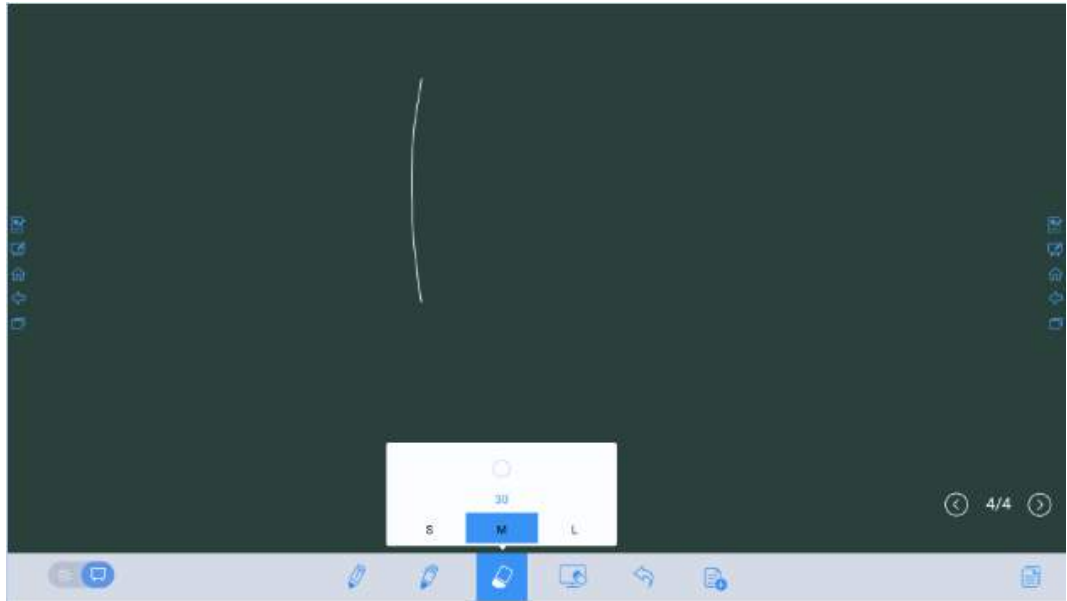
On the whiteboard, click and hold  or . The line type and color selection page is displayed. You can select the line type and color for writing. See the following figure.



Eraser

Two methods are available to erase written errors or content as follows:

- Use five fingers to touch the screen and a round is displayed indicating the scope for erasing. Move the round to erase the content that you have written.
- Click  to clear wrong or unnecessary content. You can click and hold  to set the radius of the eraser. See the following figure.



Screenshot


In comment mode, click  to save the current image as a picture, as shown in Figure 4-3. After the meeting is ended, save screenshots in the **Save meeting discussion** dialog box, as shown in Figure 4-4.

Figure 4-3 Screenshot

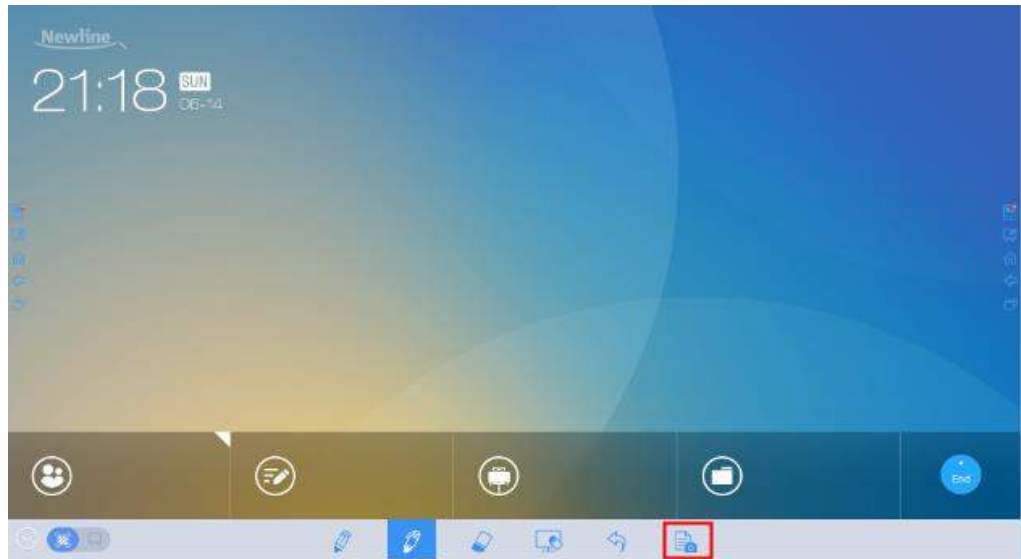
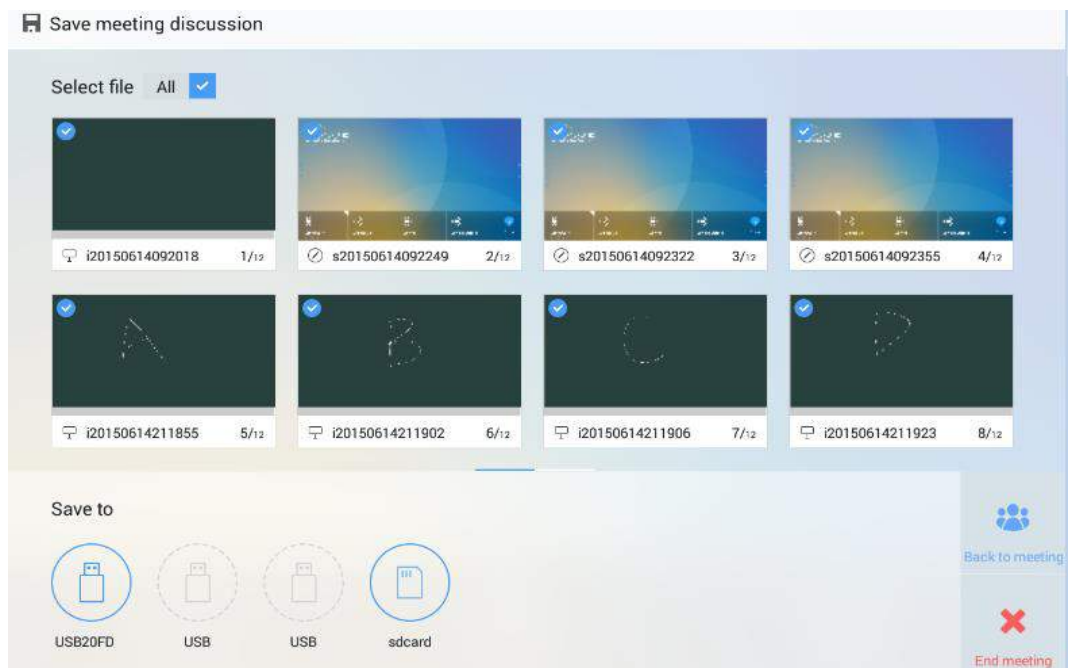

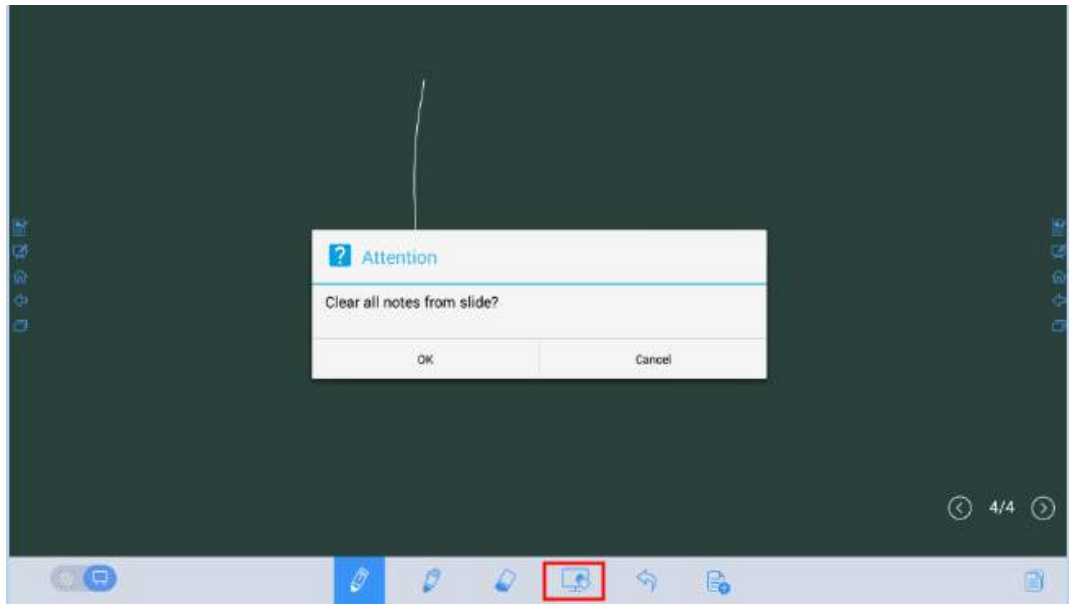


Figure 4-4 Save meeting discussion




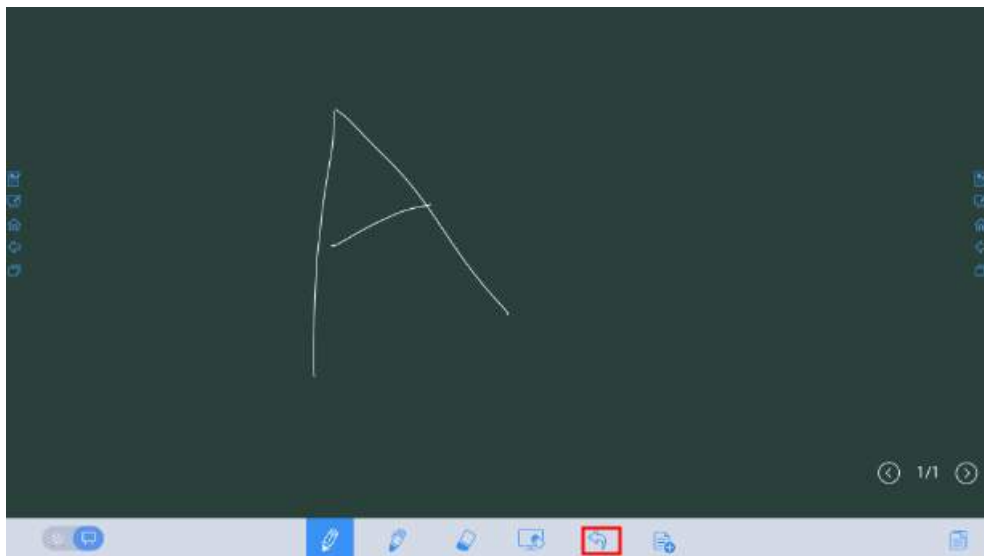
Clear

On the whiteboard page, click  to clear all contents on the current writing slide, as shown in the following figure.



Cancel


On the whiteboard page, click  to undo the latest operation, as shown in the following figure.



4.3.2 Slide Operations

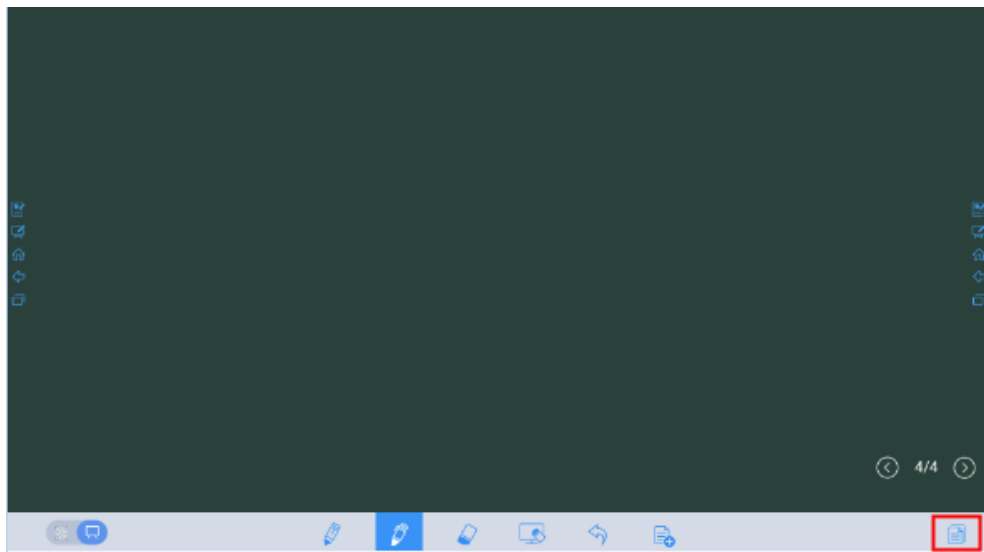
You can preview, select, and delete a created writing slide.

Slide Preview

Click  at the lower right corner of the whiteboard. All writing slides are displayed. Click one slide to switch to the slide for other operations. See the following figure.

NOTE

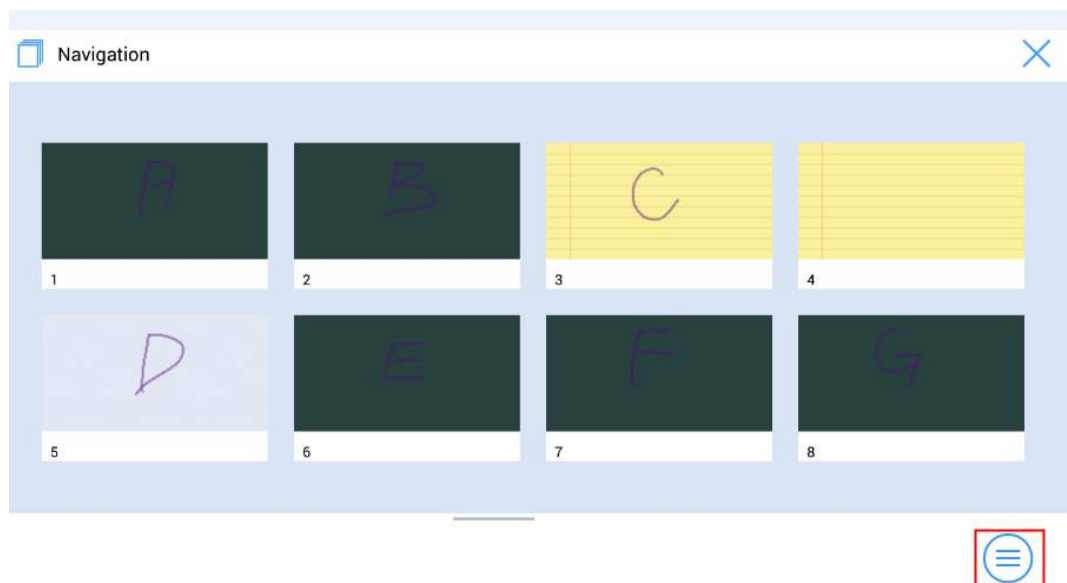
Only 8 slides are displayed in each column, and the remaining slides are displayed in the second column. You can slide one finger right or left to switch columns.



Slide Selection and Deletion

Click . The and buttons are displayed. You can select and delete a writing slide as required. See the following figure.

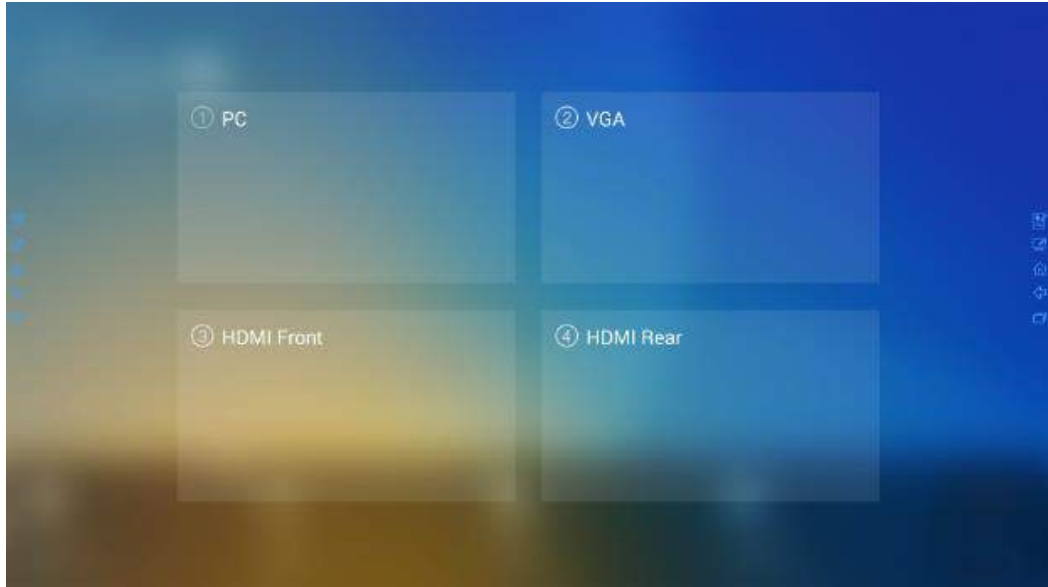
- Click the slide: to select the current slide.
- Click : to select all slides.
- Click : to delete selected slides.
- Click : Buttons on the left are replaced with .
- Click : to close the **Navigation** page.



4.4 Signal Source

On the home page, click **Sources**. The signal source selection page is displayed. You can preview the image of the corresponding signal channel, as shown in the following figure.

If the channel has no signal input, **No Signal** is prompted. You can click the selected signal source to switch to the corresponding channel in full screen.

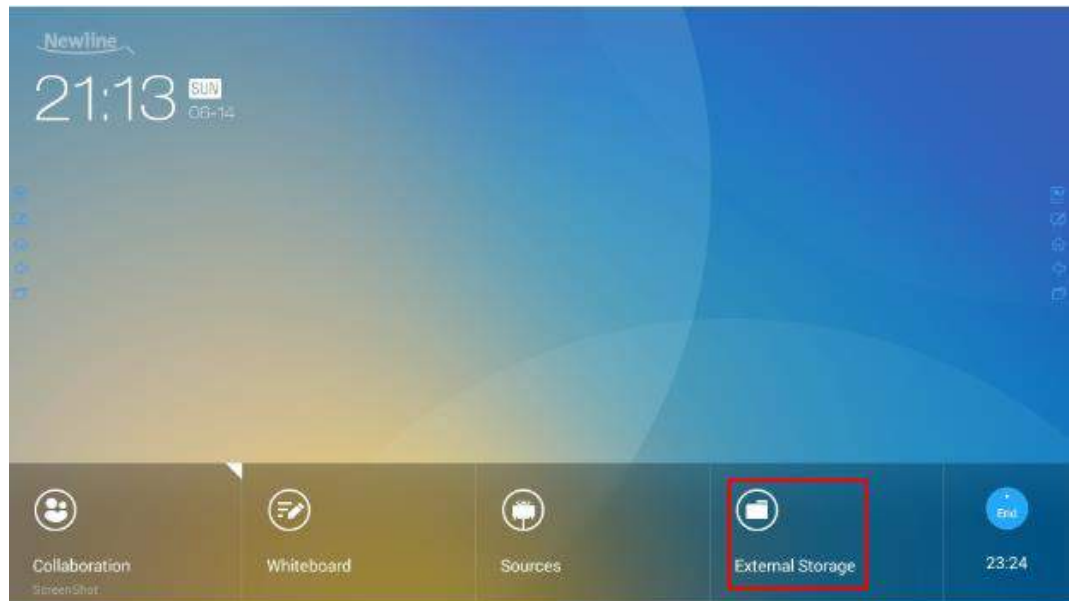


4.5 External Storage


The product supports connection to external storage devices. On the external storage page, you can view files stored in all external storage devices (for example, the USB flash disk and SD card) and preview, select, copy, delete and search content in each storage device.

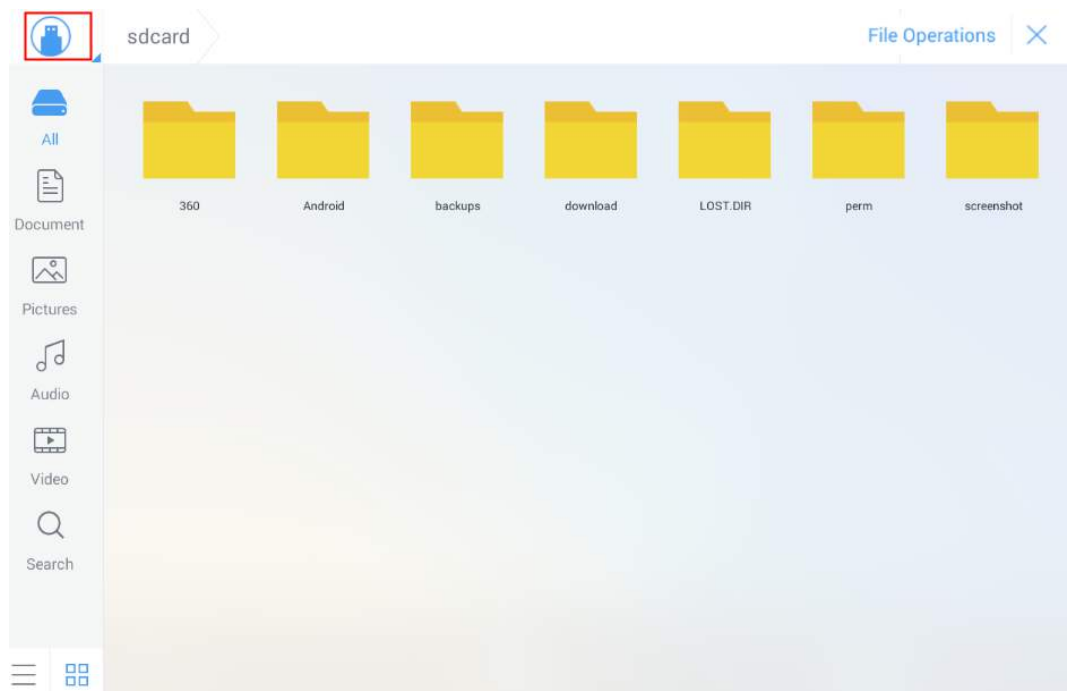
4.5.1 External Storage Page

On the home page, click **External Storage** as shown in the following figure.



4.5.2 File Preview

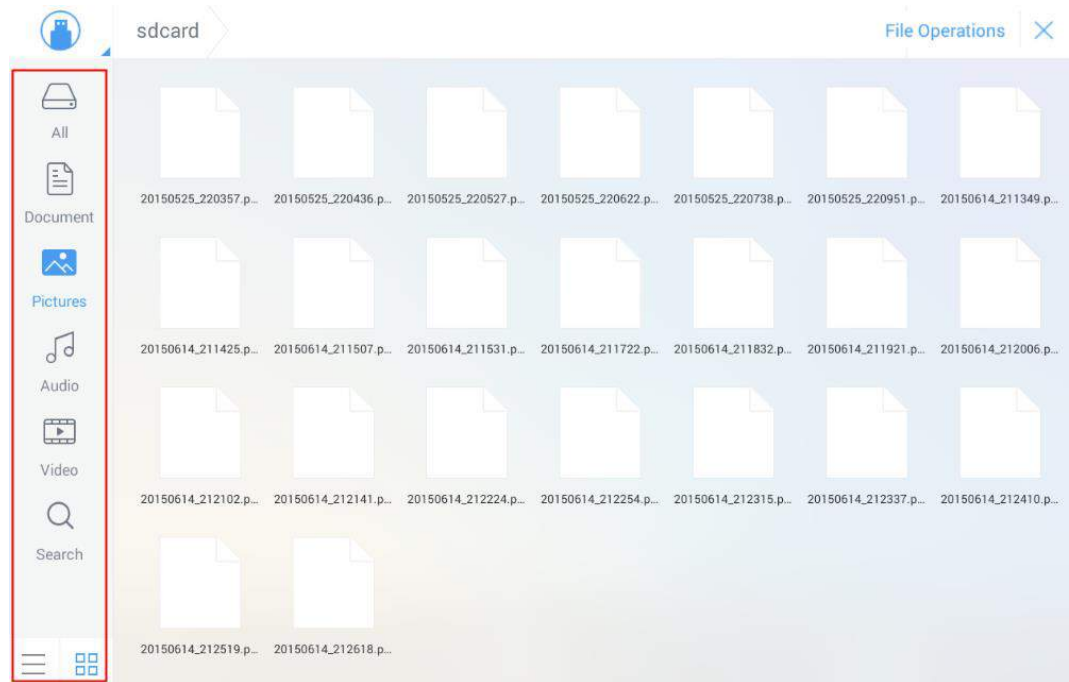
By default, files saved to internal storage are displayed. You can click  at the upper left corner to view all external storage devices connected to Android USB and preview a specified external storage device. See the following figure.



4.5.3 File Filtering

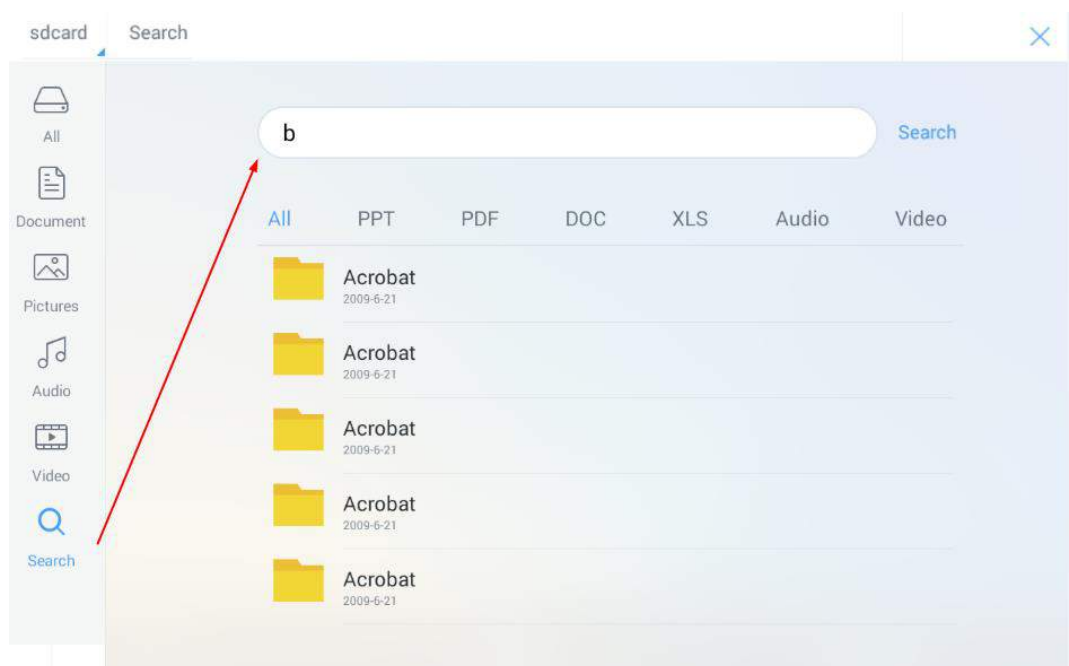
For your convenience, the system displays files by category, for example, document, picture, audio and video. You can click the icons on the left tool bar to filter files.

The system supports two view modes: list and thumbnail. You can click and at the lower left corner to switch view modes, as shown in the following figure.

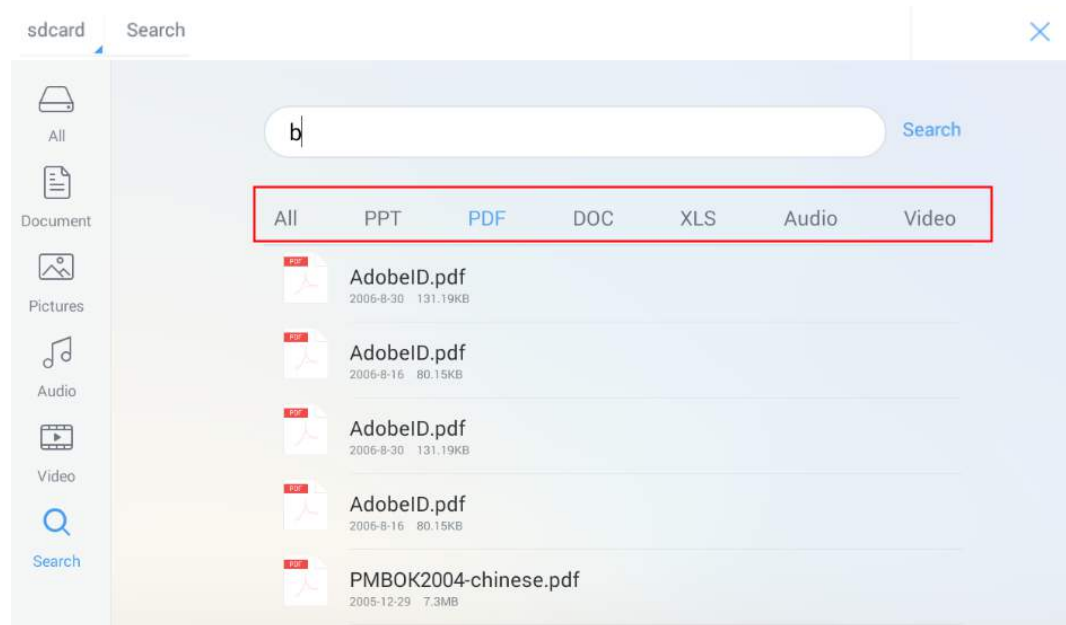


4.5.4 File Search

Click and enter the key word in the search box. Files matching the key word are listed.



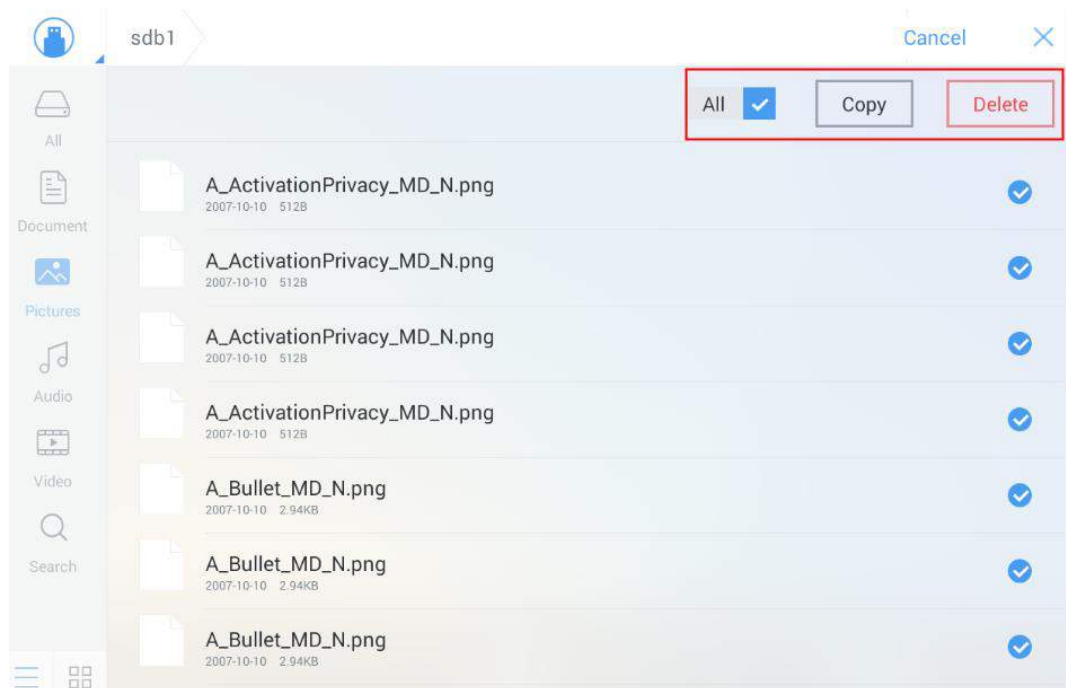
The system supports second filtering for searched files. Click the filtering tool bar below the search box to filter searched files based on PPT, PDF, DOC, XLS, Audio, and Video, as shown in the following figure.



4.5.5 File Operations

Click [File Operations](#) to perform operations on files in the storage, including select all files or one file, copy, delete and cancel, as shown in the following figure.


- Click the file: to select the current file.
- **All:** Select all files.
- **Copy:** Copy selected files.
- **Delete:** Delete selected files.
- **Cancel:** Cancel current operation.



4.6 End Meeting

4.6.1 Manually End Meeting

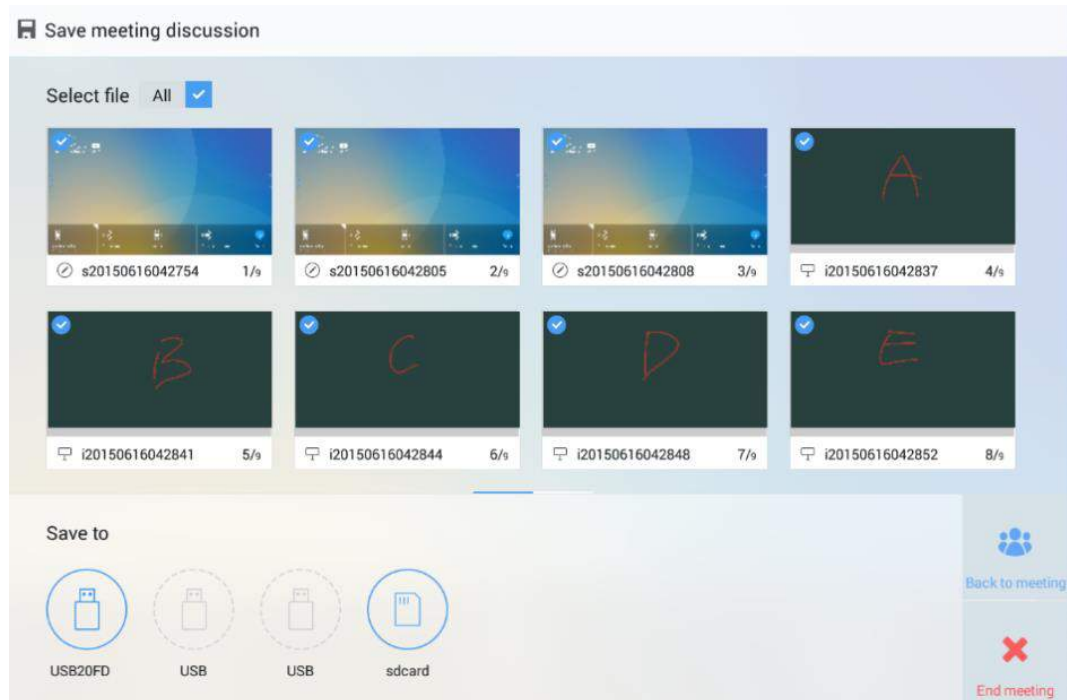


On the home page, click . The **Save meeting discussion** page will be displayed. The meeting will be ended and timer will stop.

File Naming

Save slides created during the meeting and annotation screenshots on the meeting record page, as shown in the following figure.

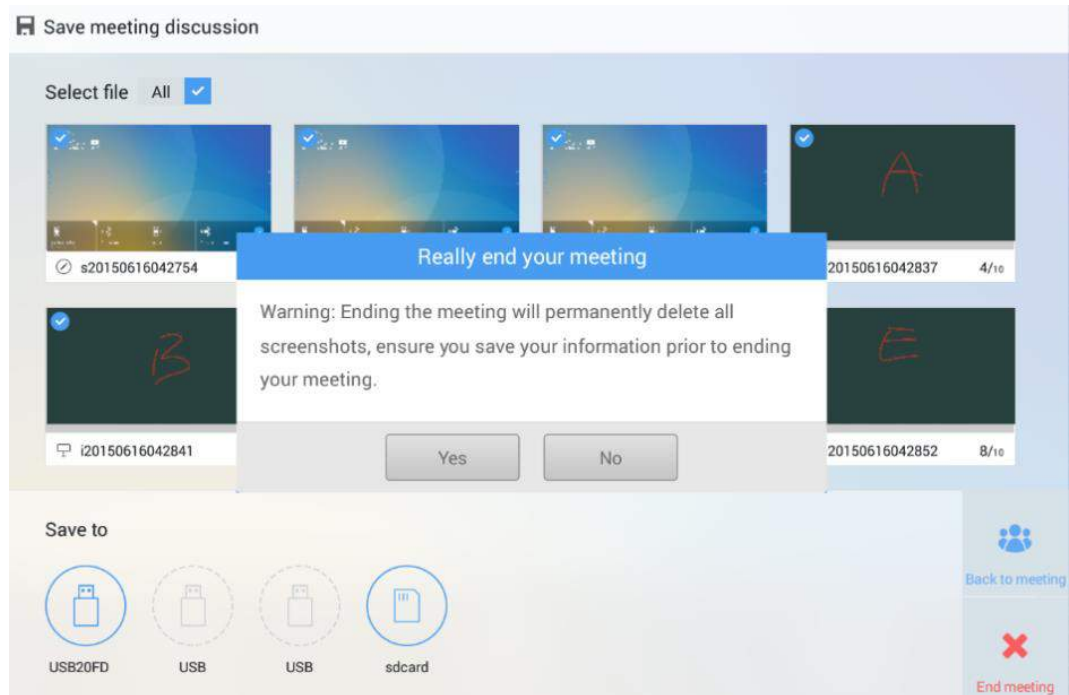
The picture is named as the creation time. You can slide right or left with one finger to switch pages.



File Storage

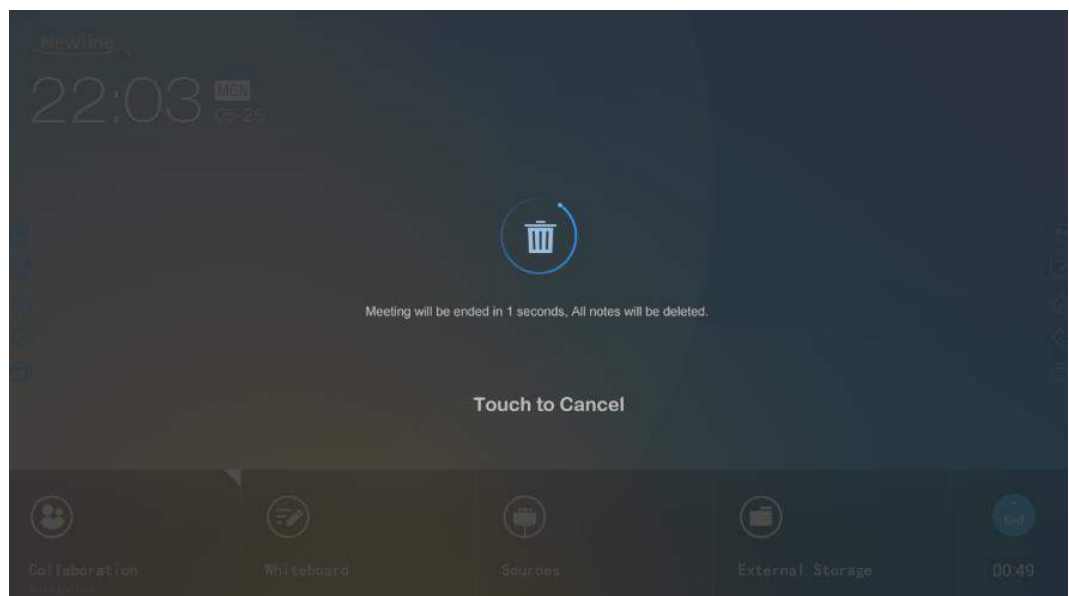
When no external USB flash disks and SD cards are connected, icons in the **Save to** area are in gray. When an external USB flash disk or SD card is connected, icons in the **Save to** area will turn into blue. Click the USB or SD card icon in blue. The system stores selected pictures to the “uc” folder under the root folder of the corresponding USB flash disk or SD card.

- **Back to meeting:** The meeting continues. Files are not cleared and timer continues.
- **End meeting:** The **Really end your meeting** dialog box is displayed.
 - Click **Yes**. All writing slides and screenshots will be deleted, and the start meeting page will be displayed (contents not saved to the external storage device will be lost). The current meeting will be ended and the timer will stop.
 - Click **No**. The meeting continues and the system stays on the **Save meeting discussion** page.



4.6.2 Automatically End Meeting

If the period without operations on the screen exceeds 30 minutes, the system will lock the screen automatically to protect your privacy. If the period without operations exceeds 60 minutes, the system will delete all meeting contents automatically, as shown in the following figure.



4.7 Shortcut Settings and Applications

Slide one finger from the top blank border down, as shown in the following figure. The **Shortcut Settings** and **Applications** pages are displayed.




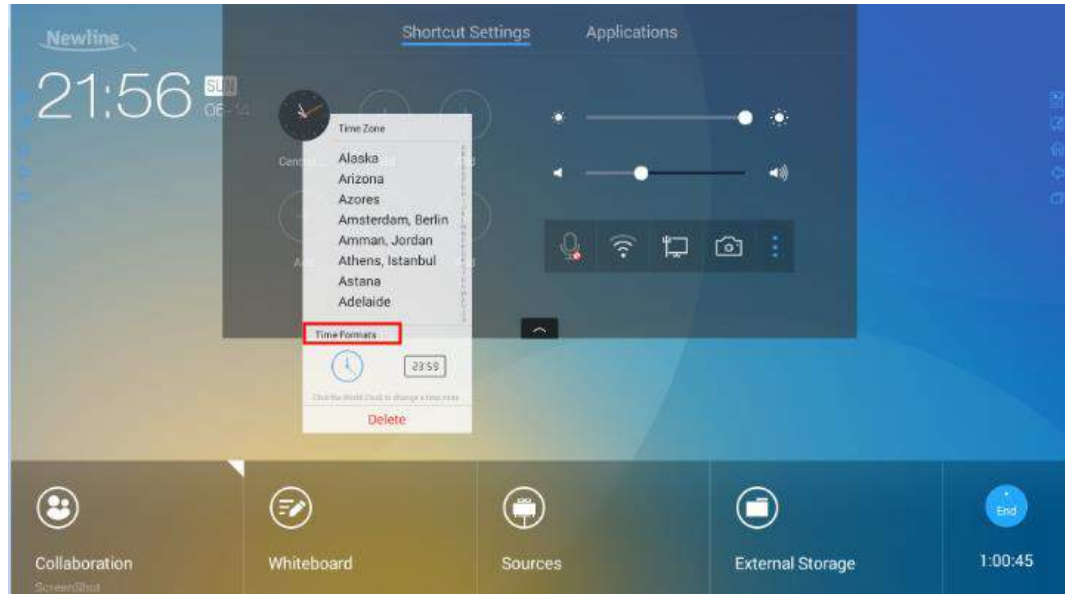
4.7.1 Shortcut Settings

After a top-down slide, the **Shortcut Settings** page is displayed by default, as shown in the following figure.



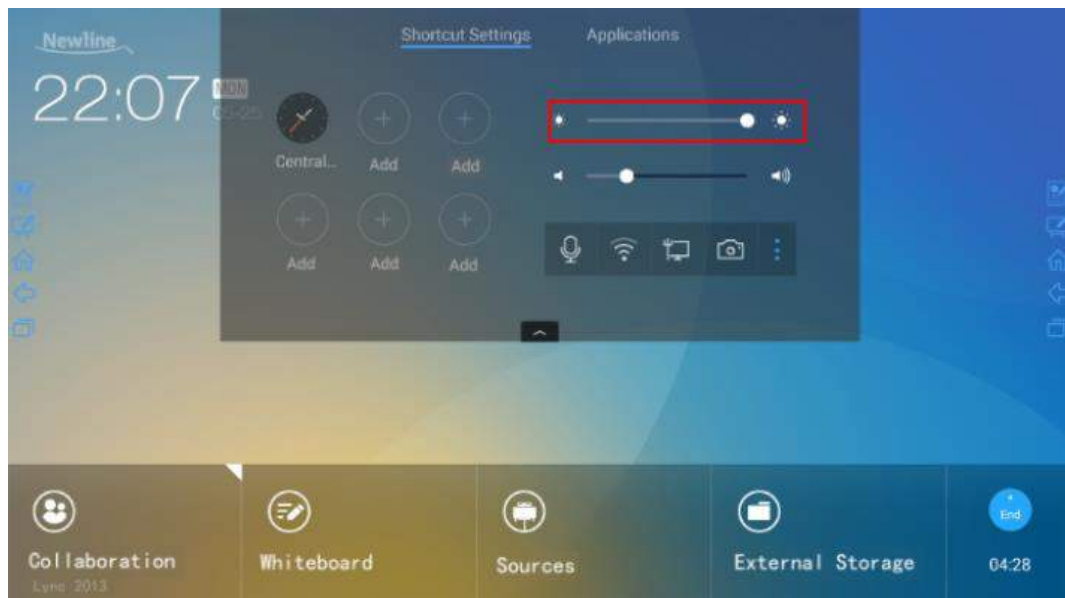
Clock Settings

Click  to add the required time zone, and click **Time Formats** to set the time display mode (analog clock or electronic clock).



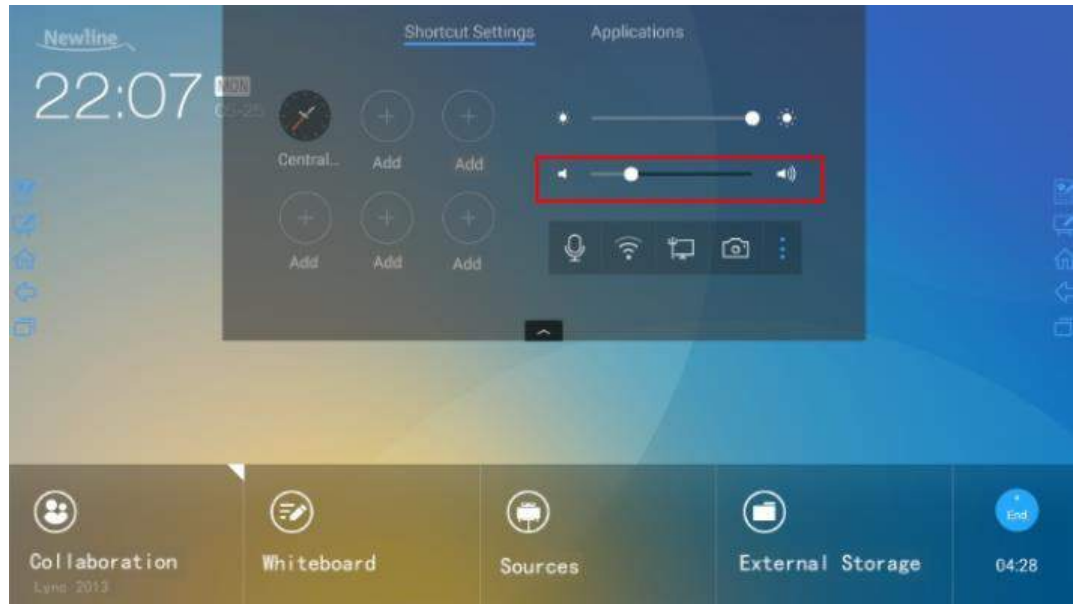
Brightness Adjustment

Drag the slider beside the  icon to adjust the brightness.




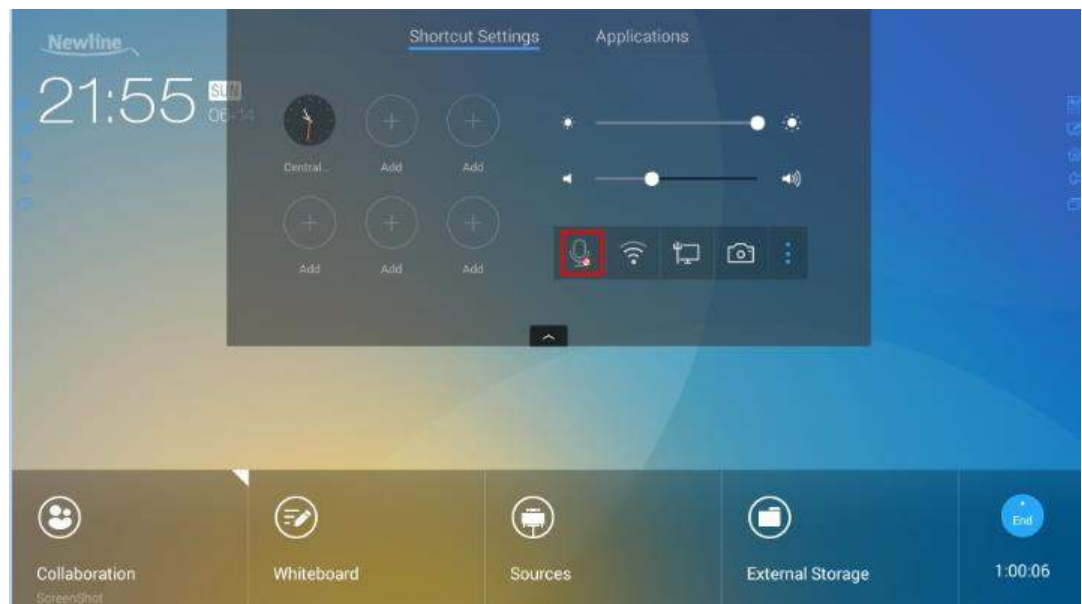
Volume Adjustment

Drag the slider beside the  icon to adjust the volume.




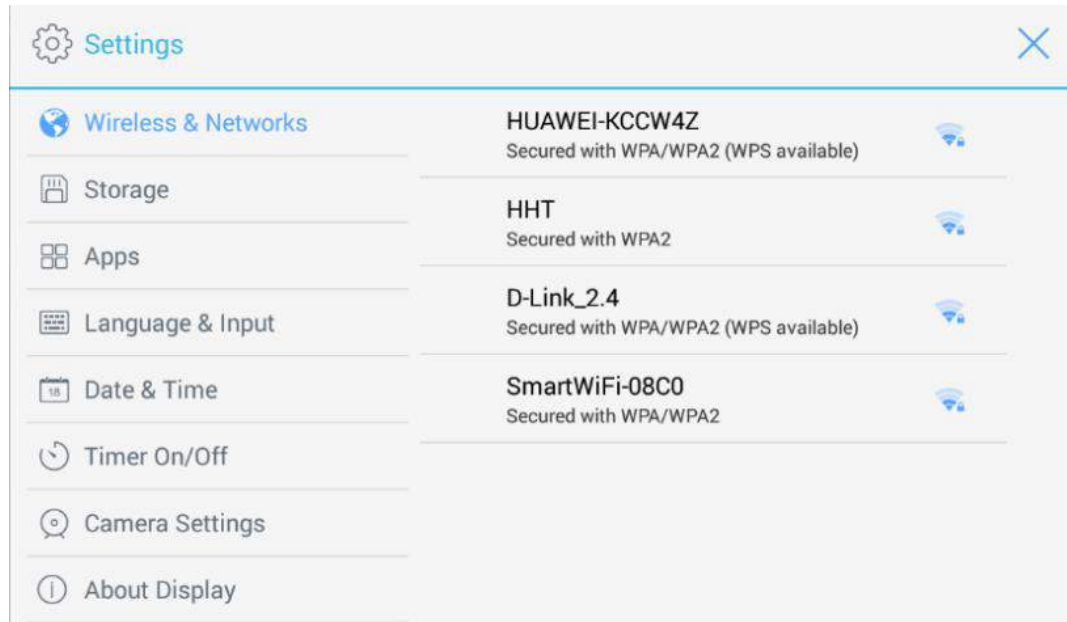
Audio Mode

Click  to enable or disable the audio mode.




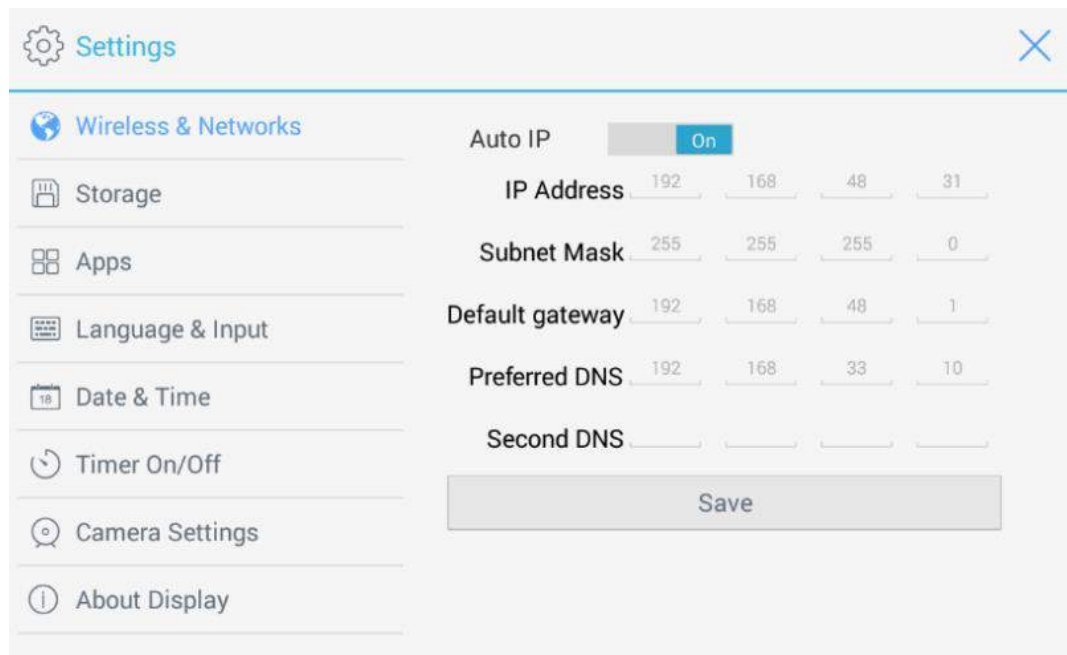
Wi-Fi Settings

Click  to enter the system settings page and select the Wi-Fi hotspot to be connected.




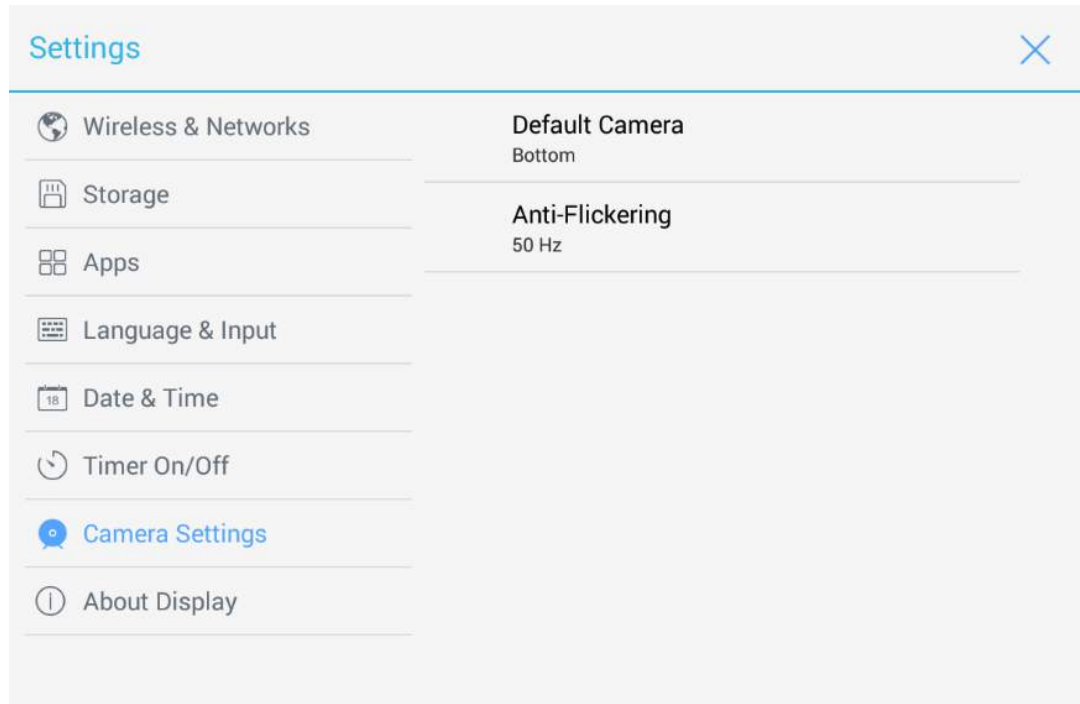
Wired Network Settings

Click  to enter system settings page and set information about the wired network.



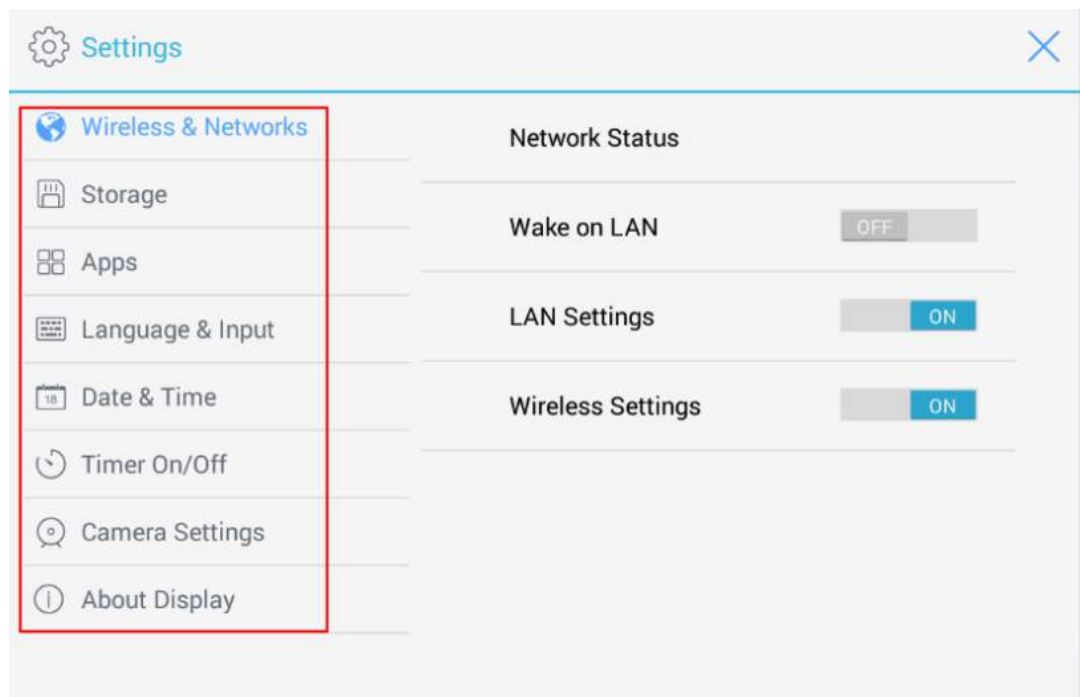
Camera Settings

Click  to enter system settings page and set the default camera used by the display and anti-flickering information.



System Settings

Click  to enter system settings page. Setting items are shown in the following figure.



4.7.2 Applications

In the assistant meeting, click **Applications** to fast select and start applications on Android system, and slide right and left on the screen to view all applications, as shown in the following figure.





5 Serial Port Control




Connect RS-232 port to the PC or controlling device. Enable RS-232 serial port connection and complete the following configuration.


Port: COM1 (Set according to PC or controlling device's port number)			
Bit rate	19200	Odd/even check	None
Data bits	8	Stop bit	1

The following table lists the button controlling code and return code.

Function	Controlling codes	Return codes
Power on	7F 08 99 A2 B3 C4 02 FF 01 00 CF	7F 09 99 A2 B3 C4 02 FF 01 00 01 CF 00
Power off	7F 08 99 A2 B3 C4 02 FF 01 01 CF	7F 09 99 A2 B3 C4 02 FF 01 01 01 CF
Mute	7F 08 99 A2 B3 C4 02 FF 01 02 CF	7F 09 99 A2 B3 C4 02 FF 01 02 01 CF
Signal source	7F 08 99 A2 B3 C4 02 FF 01 06 CF	7F 09 99 A2 B3 C4 02 FF 01 06 01 CF
Start the whiteboard	7F 08 99 A2 B3 C4 02 FF 01 07 CF	7F 09 99 A2 B3 C4 02 FF 01 07 01 CF
Display status	7F 08 99 A2 B3 C4 02 FF 01 09 CF	7F 09 99 A2 B3 C4 02 FF 01 09 01 CF
HDMI Front	7F 08 99 A2 B3 C4 02 FF 01 0A CF	7F 09 99 A2 B3 C4 02 FF 01 0A 01 CF
HDMI Rear	7F 08 99 A2 B3 C4 02 FF 01 0B CF	7F 09 99 A2 B3 C4 02 FF 01 0B 01 CF
OPS	7F 08 99 A2 B3 C4 02 FF 01 38 CF	7F 09 99 A2 B3 C4 02 FF 01 38 01 CF

Function	Controlling codes	Return codes
VGA	7F 08 99 A2 B3 C4 02 FF 01 0D CF	7F 09 99 A2 B3 C4 02 FF 01 0D 01 CF
Page Up	7F 08 99 A2 B3 C4 02 FF 01 13 CF	7F 09 99 A2 B3 C4 02 FF 01 13 01 CF
Page Down	7F 08 99 A2 B3 C4 02 FF 01 14 CF	7F 09 99 A2 B3 C4 02 FF 01 14 01 CF
VOL -	7F 08 99 A2 B3 C4 02 FF 01 17 CF	7F 09 99 A2 B3 C4 02 FF 01 17 01 CF
VOL +	7F 08 99 A2 B3 C4 02 FF 01 18 CF	7F 09 99 A2 B3 C4 02 FF 01 18 01 CF
Menu	7F 08 99 A2 B3 C4 02 FF 01 1B CF	7F 09 99 A2 B3 C4 02 FF 01 1B 01 CF
Home page	7F 08 99 A2 B3 C4 02 FF 01 1C CF	7F 09 99 A2 B3 C4 02 FF 01 1C 01 CF
Return (exit)	7F 08 99 A2 B3 C4 02 FF 01 1D CF	7F 09 99 A2 B3 C4 02 FF 01 1D 01 CF
Auto ADJ	7F 08 99 A2 B3 C4 02 FF 01 20 CF	7F 09 99 A2 B3 C4 02 FF 01 20 01 CF
OK	7F 08 99 A2 B3 C4 02 FF 01 2B CF	7F 09 99 A2 B3 C4 02 FF 01 2B 01 CF
←	7F 08 99 A2 B3 C4 02 FF 01 2C CF	7F 09 99 A2 B3 C4 02 FF 01 2C 01 CF
→	7F 08 99 A2 B3 C4 02 FF 01 2D CF	7F 09 99 A2 B3 C4 02 FF 01 2D 01 CF
↑	7F 08 99 A2 B3 C4 02 FF 01 2E CF	7F 09 99 A2 B3 C4 02 FF 01 2E 01 CF
↓	7F 08 99 A2 B3 C4 02 FF 01 2F CF	7F 09 99 A2 B3 C4 02 FF 01 2F 01 CF
Freeze	7F 08 99 A2 B3 C4 02 FF 01 3B CF	7F 09 99 A2 B3 C4 02 FF 01 3B 01 CF
Set volume	7F 08 99 A2 B3 C4 02 FF 05 XX CF  NOTE XX indicates the volume value (0 to 100), corresponding to hexadecimals 00 to 64.	7F 09 99 A2 B3 C4 02 FF 05 XX 01 CF
Set D.MODE	7F 08 99 A2 B3 C4 02 FF 06 XX CF  NOTE XX indicates the mode. 00 and 01 indicate standard and eco modes respectively.	7F 09 99 A2 B3 C4 02 FF 06 XX 01 CF

Function	Controlling codes	Return codes
Query the firmware version number	7F 08 99 A2 B3 C4 02 FF 01 3D CF	7F 09 99 A2 B3 C4 02 FF 01 3D 01 CF
Set Display Mode	7F 08 99 A2 B3 C4 02 FF 07 XX CF  NOTE XX indicates the mode. 00, 01, 02 and 03 indicate standard, bright, soft and custom modes respectively.	7F 09 99 A2 B3 C4 02 FF 07 XX 01 CF
Start the default UC program	7F 08 99 A2 B3 C4 02 FF 01 3F CF	7F 09 99 A2 B3 C4 02 FF 01 3F 01 CF
Start commenting	7F 08 99 A2 B3 C4 02 FF 01 40 CF	7F 09 99 A2 B3 C4 02 FF 01 40 01 CF
Microphone mute	7F 08 99 A2 B3 C4 02 FF 01 41 CF	7F 09 99 A2 B3 C4 02 FF 01 41 01 CF
Switch cameras	7F 08 99 A2 B3 C4 02 FF 08 XX CF  NOTE <ul style="list-style-type: none">• XX=01 indicates that the top camera is enabled.• XX=02 indicates that the bottom camera is enabled.	7F 09 99 A2 B3 C4 02 FF 08 XX 01 CF
Backlight control +	7F 08 99 A2 B3 C4 02 FF 01 47 CF	7F 09 99 A2 B3 C4 02 FF 01 47 01 CF
Backlight control -	7F 08 99 A2 B3 C4 02 FF 01 48 CF	7F 09 99 A2 B3 C4 02 FF 01 48 01 CF
Set backlight brightness	7F 08 99 A2 B3 C4 02 FF 09 XX CF Note: XX indicates the value of backlight brightness (0-100), corresponding to the hexadecimal number system (00-64).	7F 09 99 A2 B3 C4 02 FF 09 XX 01 CF
Read the camera position	7F 08 99 A2 B3 C4 02 FF 01 44 CF	7F 09 99 A2 B3 C4 02 FF 01 44 XX CF  NOTE <ul style="list-style-type: none">• XX=01 indicates that the top camera is enabled.• XX=02 indicates that the bottom camera is enabled.

Function	Controlling codes	Return codes
Microphone status	7F 08 99 A2 B3 C4 02 FF 01 45 CF	7F 09 99 A2 B3 C4 02 FF 01 45 XX CF  NOTE <ul style="list-style-type: none"> • XX=01 indicates that the microphone is mute. • XX=02 indicates that the microphone is not mute.
Read the value of backlight brightness	7F 08 99 A2 B3 C4 02 FF 01 49 CF	7F 09 99 A2 B3 C4 02 FF 01 49 XX CF Note: XX indicates the value of backlight brightness (0-100), corresponding to the hexadecimal number system (00-64).

6 Specifications

Parameter	Value
Display	
Backlight	LED
Display Area	1538.88*865.62mm
Active Screen Size	70"
Display Ratio	16:9
Resolution	1920*1080Pixel
Display Colors	10bit
Brightness	350cd/m2 (Max)
Contrast	4000:1
Response Time	6ms
Speaker	
Speaker Position	Forward
Rated Impedance	8Ω
Freq.Response	90Hz(±20%)–20kHz
Output S.P.L.	84±3dB
Max.Power Output	30W
Microphone	
Sensitivity	-28dB±3dB
Frequency Response	100Hz - 7.75KHz
Polar Patterns	Omnidirectional
Total Harmonic Distortion (THD)	less than 1% at 6dB SPL

Parameter	Value
Pickup range	8m
Quantity	4
Camera	
Position	Top x 1 & Bottom x 1 (Only one can use in the same time)
Sensor	2M Pixels
Lens	86°
Video Resolution	1920*1080@30fps (Max)
Frame Rate	30fps/60fps
Electrical	
Power Consumption	Maximum <250W Standby Mode≤0.5W
Working Voltage	AC 100V-240V, 50Hz/60Hz
Touch	
Touch Surface	Tempered glass
Transparency	>90%
Haze	<2%
Touch Sensor	P-Capacitive Touch
HID support	HID
Touch Points	10 Points in Windows/5 Points in Android
Writing Tools	Pencil or Finger
Touch Resolution	63488 x 35840
Scan Speed	180Hz
Positioning Accuracy	0.8mm
Communication Interface	USB-A
Transportation/Storage	
Storage Temperature/Humidity	-10°C-50°C/10%-90%
Working Temperature/Humidity	0°C-40°C/10%-90%
Mounting (optional)	Wall-mounted / Floor Stand
Outline Dimension	1588.7 x 1048.7 x 78mm

Parameter	Value
Packing Dimension	1720 x 1180 x 270mm
Ports	
Front Interface Inputs	Microphone(3.5mm) x 1, HDMI x 1, USB(Touch) x 1, USB(OPS) x 1, USB(Android) x 1
AV Inputs	HDMI(MHL*) x 1, VGA x 1, USB(Touch) x 2, Audio x 1
AV Outputs	3.5mm Line out x 1, HDMI x 1
Other	USB2.0 x 2, RS232 x 1, RJ45 x 1, USB3.0 x 1, SD Reader, OPS Slot
Smart System	
Chips	ARM Cortex A9Quad Core 1.5GHz
RAM	2GB
Flash	8GB
Android Version	4.3
Multimedia File Formats Support	Image: JPEG, BMP, PNG Video: MPEG1, MPEG2, MPEG4, H.264, H.265, RM, RMVB, MOV, MJPEG, VC1, DivX, FLV (Support 1080P, 4K HD Decoding) Audio: MP3, M4A, (AAC)
Android Software	
Input Resource Preview	Yes
On Screen Annotation	Yes
Discussion Board	Yes

7 More Information

For more information

Please visit www.newline-interactive.com.

Contact Us for Supports

Please email us at support@newline-interactive.com.

Newline Interactive, Inc.

101 East Park Blvd. Suite 807

Plano, TX 75074

Tel: +1 (972) 468-9728

Fax: +1 (972) 422-4288