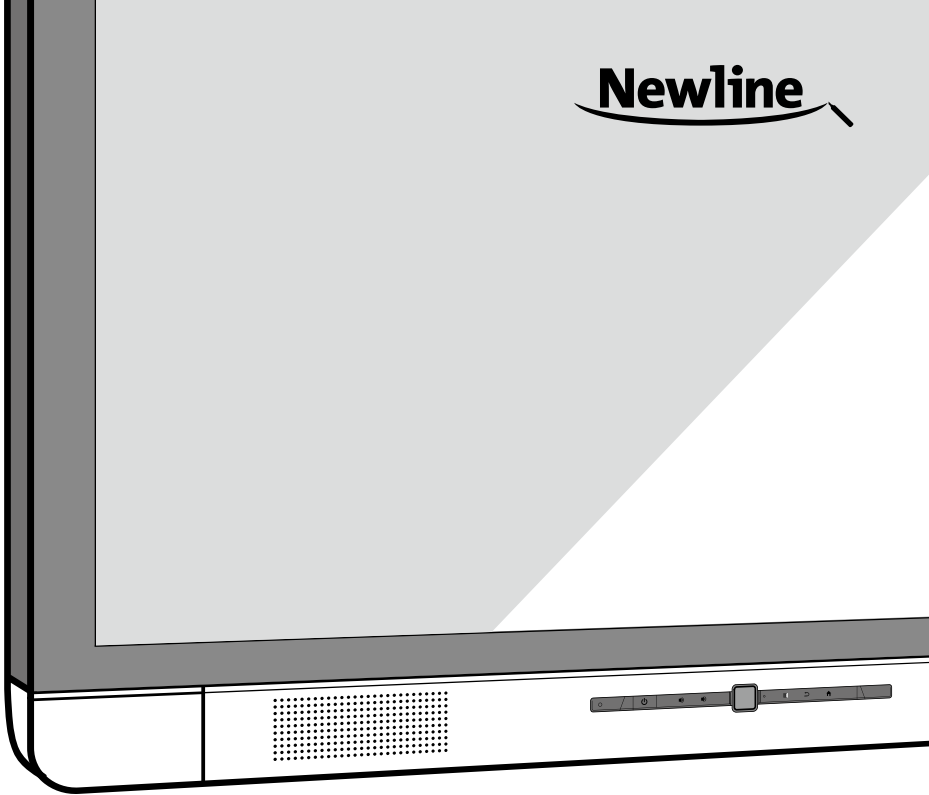


**Newline**



# TRU TOUCH *X5*

Unified Collaboration Touch Screen

**User Manual**

**v 1.0**

Welcome to the world of **TRU TOUCH**:

Thank you for choosing **TRU TOUCH X Series Collaboration Touch Screen**. Please use this document to maximize your user experience.

---

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.

NOTE 1: 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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



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# About This Document




.....

This document describes multiple functions, instructions, and notes about the product. 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 operation in the main text.
 TIP	Provides tips for operation.
 CAUTION	Indicates a potentially hazardous situation that, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results.
 WARNING	Indicates a hazard with risk that, if not avoided, could result in death or injury.

# Safety Instruction

For your safety, please read the following instructions before you use the product. Serious injury or property loss may be caused by improper operations. Do not try to repair the product by your own.

 <b>WARNING</b>	
	<p><b>Disconnect the product from power supply immediately if major failures occur.</b></p> <p>Major failures include the following:</p> <ul style="list-style-type: none"> <li>• Smoke, peculiar smell, or abnormal sound is discharged from the product.</li> <li>• No image or sound is displayed, or an error image appears.</li> </ul> <p>In the preceding scenarios, do not continue to use the product. Disconnect power supply immediately and contact professional staff for troubleshooting.</p> <p>The socket-outlet shall be installed near the equipment and shall be easily accessible.</p>
	<p><b>Do not drop liquid, metal or combustible into the product.</b></p> <ul style="list-style-type: none"> <li>• If any liquid or metal is dropped into the product, power off the product and disconnect power supply, then contact professional staff for solutions.</li> <li>• Pay attention to the children when they are close to the product.</li> </ul>
	<p><b>Do not damage the power cable.</b></p> <ul style="list-style-type: none"> <li>• Do not damage, change, twist, bend, heat, or drag the power cable forcibly.</li> <li>• Do not put weights (such as the product itself) on the power cable.</li> <li>• Do not forcibly drag the cable when you pull out the power plug. If the power cable is damaged, please contact the local distributor to repair or replace it.</li> <li>• The power cable in the accessory box is for this product only. Do not use it for other devices.</li> </ul>
	<p><b>Put the product on a stable surface.</b></p> <p>An unstable surface includes and is not limited to an inclined plane, a shaky stand, desk or platform, which might cause the product to turnover and damage the product.</p>
	<p><b>Use the battery correctly.</b></p> <ul style="list-style-type: none"> <li>• Galvanic corrosion, electric leakage, and even fire may be caused by improper battery usage.</li> <li>• Use the recommended and designated type of battery, and install the battery by the correct electrodes (positive and negative electrodes).</li> <li>• Do not install and use new battery with the used one.</li> <li>• Take out the battery in the remote control if it is not used for a long period.</li> <li>• Do not expose the battery to overheated environments such as sunlight and fire.</li> <li>• Dispose the used battery based on local regulations.</li> </ul>

## **WARNING**

	<p><b>Do not open the cover or change the product on your own.</b> High voltage components are installed in the product. When you open the cover, high voltage, electric shock, or other dangerous situations may occur. If inspection, adjustment, or maintenance is required, contact the local distributor for help.</p>
	<p><b>Use the specified power supply only.</b></p> <ul style="list-style-type: none"><li>• Do not use any type of power cable other than the one provided with the product to prevent the product from being damaged.</li><li>• Use a three-prong socket and ensure that it is properly grounded.</li><li>• Pull out the power plug from the socket if the product is not used for a long period.</li></ul> <p><b>Before you move the product, disconnect all external connections and separate all toppling preventing devices.</b> Move the product, especially the screen, carefully to prevent it from being hit or squeezed, which may cause injury if broken.</p> <p><b>Clean the dust and metal on the power plug regularly.</b></p> <ul style="list-style-type: none"><li>• Fire or electric shock may be caused if the product is powered on while you are cleaning.</li><li>• Pull out the power plug before cleaning if using a dried cloth.</li></ul>
	<p><b>Do not put items on the top of the product.</b></p> <ul style="list-style-type: none"><li>• Do not put items, such as a container for liquid (a vase, flowerpot, cosmetics or liquid medicine) on top of the product.</li><li>• If any water or liquid is spilled on the product, the product may short circuit and cause fire or electric shock.</li><li>• Do not step on the product or hang any items on the product.</li></ul>
	<p><b>Do not install the product in an improper place.</b></p> <ul style="list-style-type: none"><li>• Do not install the product in humid places, such as the bathroom, the shower room, near windows, outdoor environments that may experience rain, snow, hot spring vapor, or other harsh weather. The preceding environments may cause faults or electric shock under extreme conditions.</li><li>• Do not expose the product to a fire source, such as a lit candle.</li></ul>
	<p><b>Pull out the power plug during thunderstorms.</b></p> <ul style="list-style-type: none"><li>• Do not touch the product during lightning storms to avoid electric shock.</li><li>• Install or place components power supply out of reach of children. The voltage of the product is high enough to cause personal injury.</li></ul>

## **WARNING**



### **Do not cover or block any vents on the product.**

- Overheated components may cause fire, damage, and shorten the service life of the product.
- Do not put the venting surface of the product facedown.
- Do not install the product on a carpet or bed clothes.
- Do not use a cloth such as table cloth to cover the product.



### **Do not touch the power cable with wet hands to avoid electric shock.**

## **CAUTION**



### **Do not install the product in high temperature environments.**

- Do not install the product near a heat source, such as a radiator, heat reservoir, stove, or other heating devices.
- Do not expose the product to direct sunlight, which may cause high temperatures and subsequent faults in the product.



### **For transport:**

- Pack the product for movement or maintenance by using the cartons and cushioning material provided with the product.
- Move the product vertically during transport. The screen or other components are easily broken if the product is moved in an improper way.



### **Keep away from the product when you use a radio.**

The product design to prevent radio interference complies with the international EMI standard. However, the interference still exists and causes noise in the radio. If noise occurs in the radio, try the following solutions:

- Adjust the direction of the radio antenna to avoid the interference from the product.
- Keep the radio away from the product.

### **Be careful of straining your eyes and ears when using the product.**

- Use the product in an environment with comfortable light. It is harmful to your eyes to watch in a too bright or too dark environment.
- Relax your eyes after a period of time of looking at the product's screen.
- When you are looking at the product, maintain a distance that is 3 to 7 times the screen height. This is the best distance to protect your eyes and prevent eyestrain.
- Adjust the volume to an appropriate level, especially at night.
- Use amplifier equipment, such as the audio input source, with caution. If you must use amplifier equipment, the input power should not exceed the maximum speaker power. Otherwise, problems, such as the overpowering and damaging the speaker, can occur.

# 1

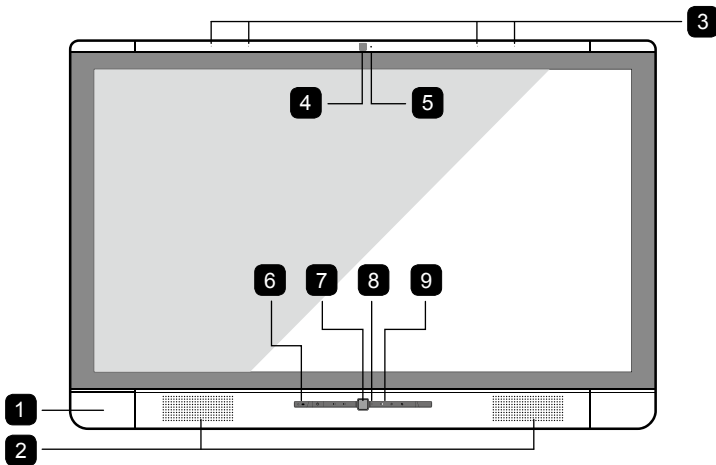
# Overview

## 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 require additional devices, installation and wiring, and commissioning and maintenance to function.

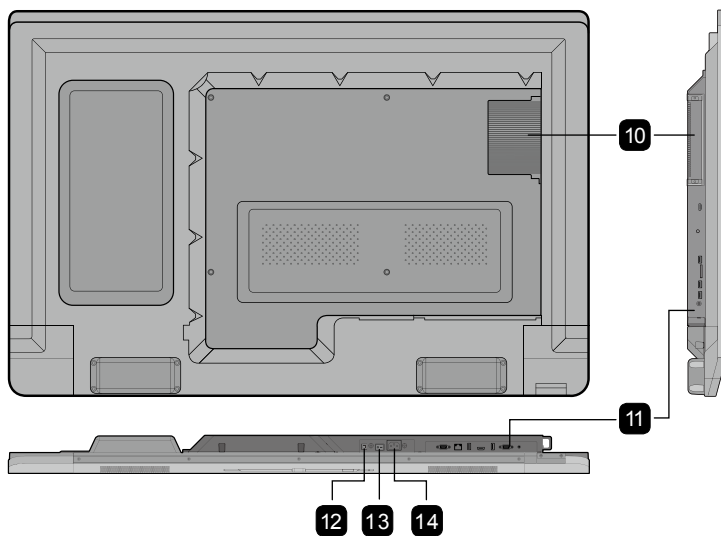
Dedicated software is customized as a meeting assistant. It can meet requirements of various meeting modes, implementing convenient comments on local documents, viewing multi-media files, conducting multi-party remote video and audio meetings, managing local files, and improving the meeting experience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

## Parts



- 1 Front Ports
- 2 Speakers
- 3 Microphone Array
- 4 Top Camera
- 5 Camera Indicator
- 6 Remote Control Receiver
- 7 Bottom Camera
- 8 Camera Indicator
- 9 Front Buttons





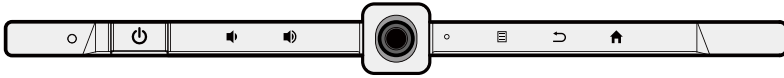
- |  |                                |
|--|--------------------------------|
| <b>10</b> Internal PC                      | <b>13</b> General Power Switch |
| <b>11</b> Ports in the Back Panel          | <b>14</b> AC Power             |
| <b>12</b> Temperature Control Reset Button |                                |

#### **NOTE**

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

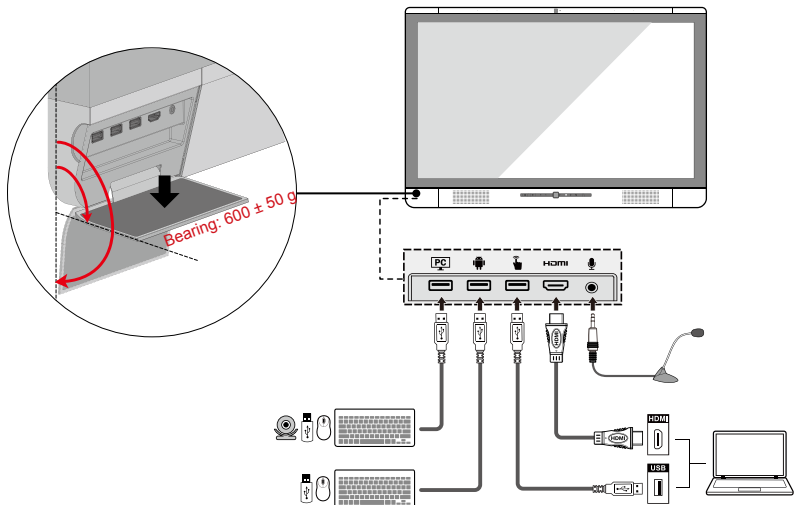
# Ports

## Front Buttons

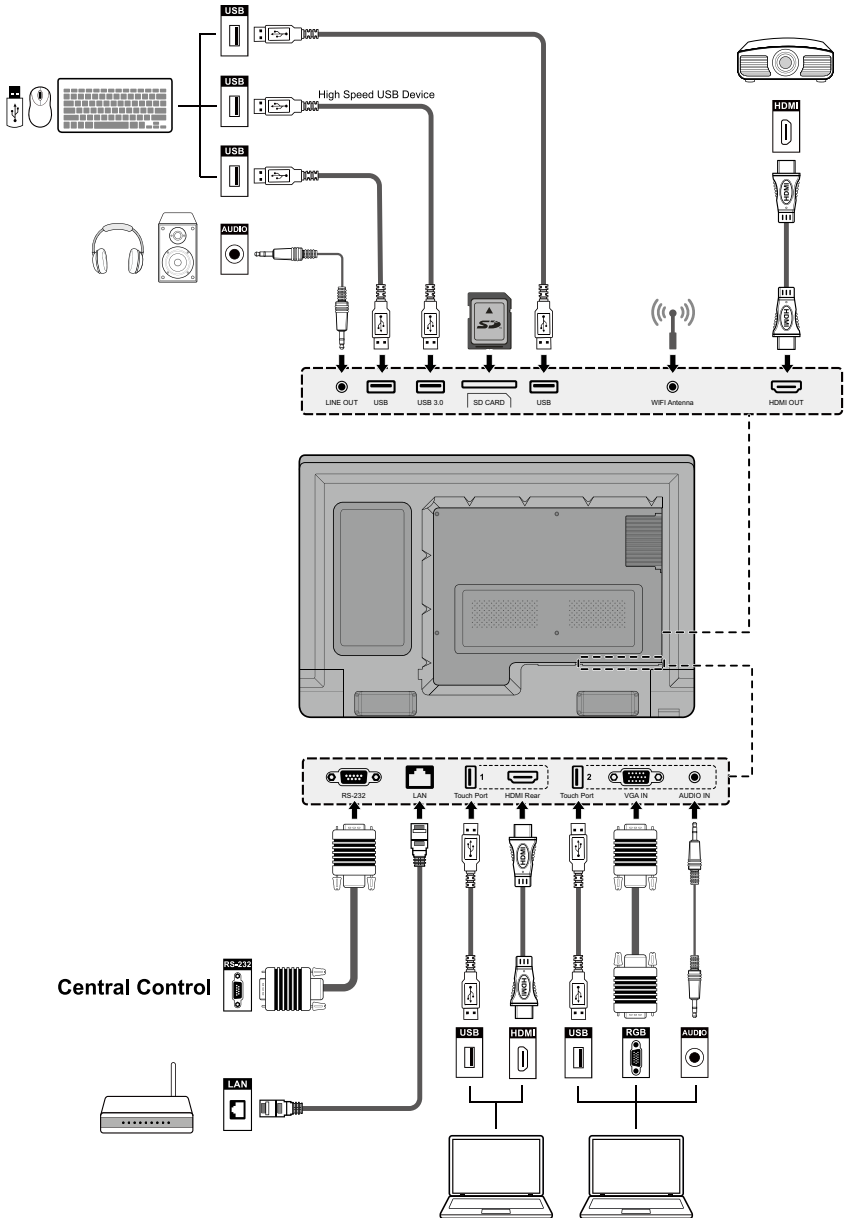


Buttons	Operations	Functions	Indicator Status Description
	Short press	Power on/off	<ul style="list-style-type: none"> <li>Steady on red: standby state</li> <li>Steady on white: working state</li> </ul>
	Short press	Decrease volume	<ul style="list-style-type: none"> <li>Steady on white: receiving an instruction from a button or remote control (off in 10s)</li> <li>Blinking white: continuously receiving instructions from a button or remote control</li> <li>Off: no instructions received from a button or the remote control in over 10s (in power-on state)</li> </ul>
	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 the last menu/Exit	
	Short press	Go to the home page	















## Front Ports






## Rear Ports



## Remote Control

Buttons	Functions
	Power On/Off
<b>UC</b>	Start the Default UC Programs
	Mute Audio
	Microphone Mute
<b>OK</b>	Confirm/OK
	Up/Down/Left/Right
	Return to Previous/Exit
	Go to the Home Page
	Open the Menu
	Decrease Volume
	Increase Volume
	Settings
	Page Up
	Page Down
	Switch to Top Camera
	Switch to Bottom Camera
<b>Rear</b>	Switch Source to HDMI Rear
<b>Front</b>	Switch Source to HDMI Front
<b>VGA</b>	Switch Source to VGA

Buttons	Functions
<b>PC</b>	Switch Source to Internal PC
	Toggle Display Mode
	Zoom Out (PC)
	Zoom In (PC)



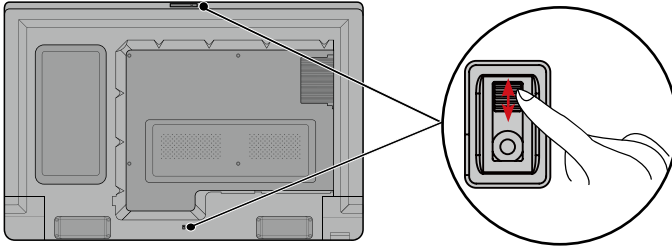
### CAUTION

Carefully read the following instructions before using the remote control to avoid possible faults or errors:

- Do not drop the remote control or hit it on another surface, such as a wall or door.
- Do not spill water or other liquids on the remote control.
- Do not place the remote control on a wet object.
- Do not place the remote control in direct sunlight or near a heat source.

## Camera

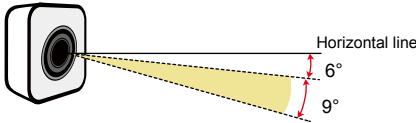
You can fine-tune the angles of the cameras using the cameras adjustment handle on the back of the screen.



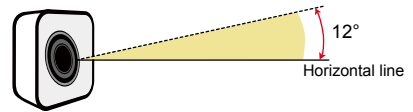
Angle adjustment:

Top camera: The initial position is 6° facing down and can be adjust up to 9° downwards.

Bottom camera: The initial position is 0° and can be adjust up to 12° upwards.



Adjustment angle of the top camera

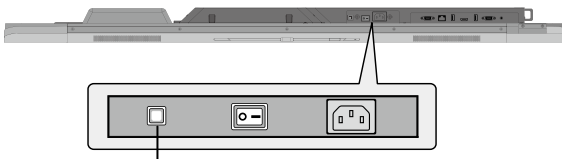


Adjustment angle of the bottom camera

## Temperature Control Reset Button

In certain special installation or operation environments, the ventilation condition of the screen is poor and the heat dissipation efficiency is low. As a result, the internal temperature can rise. When the internal temperature sensor detects that the temperature has reached the threshold, the system will disable the screen to avoid any permanent damages to the components caused by high temperature. In such a case, reset the system using the temperature control reset button.

Reset method: After confirming that power is properly supplied to the product, press the power control reset button at the rear bottom part of the device. (In actual situations when the over-temperature power-off protection is enabled, improve the heat dissipation environment and then reset the system.)



Temperature control reset button

# 2

# Installation Guide

## Safety Precautions

### Installation Environment



Avoid Electric Shock



Avoid Strong Magnetic Field



Keep Temperature Below 120 Degrees Fahrenheit



Keep Relative Humidity Under 70%



Keep Away From Combustible Vapors (gas leaks, etc.)

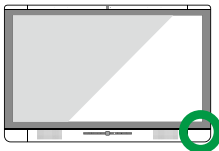


Avoid Any Corrosive Liquids

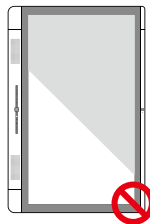


Do Not Use Outdoors

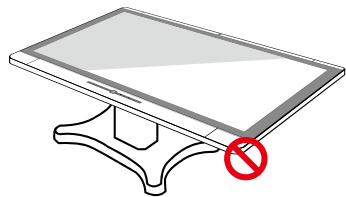
### Installation Direction



Hang the Unit Horizontally



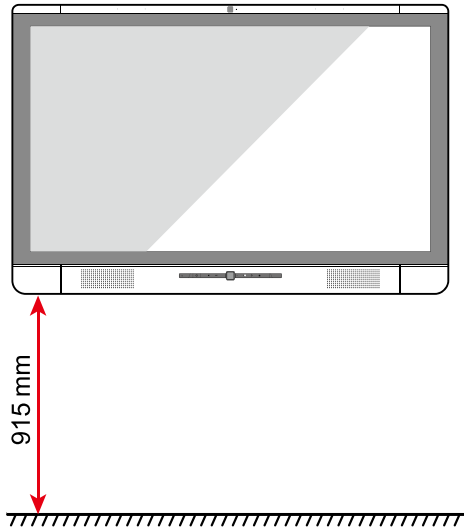
No Vertical Installation



Do Not Lie Down

## Installation Height

Recommended installation height is 36" (915 mm) from the floor to the bottom of the screen.



## Installation Precautions

### Weight Loading

Weight of the unit: 79.4 lbs/36 kg

- The back of the panel is equipped with VESA standard holes. Please use a VESA standard mounting system.
- When using a mobile cart, please ensure the weight of the unit is under the loading capacity of the mobile cart.
- When using the wall-mount bracket, please ensure the wall can support the weight of the unit. We recommend that the wall surface be reinforced and have a loading capacity 4 times of the weight of the unit. Please consult a professional installer for wall-mount installation.

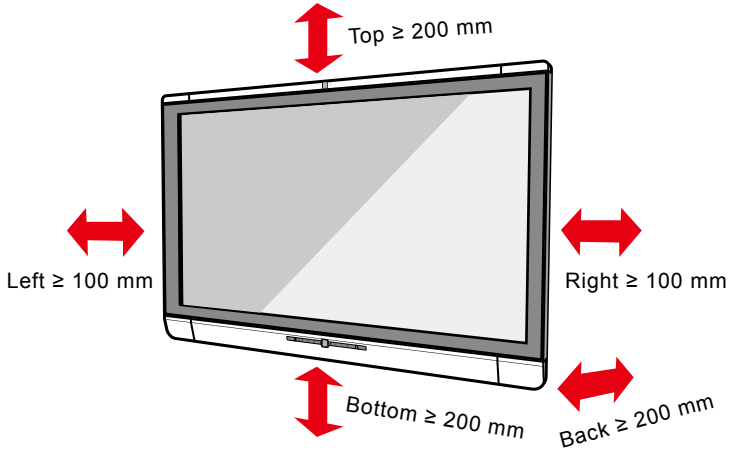
### NOTE

Due to the third party mobile cart, wall-mount bracket are beyond the scope of the protection of this product, any problems caused by improper operation, the company does not undertake relevant legal responsibility!

- Do not install the unit where it might be hit by a door.

## Ventilation

Ensure adequate ventilation and/or air conditioning environment. We recommend keeping certain distance from the side of the unit to the wall or panels. Proper space for ventilation is shown in following figure.

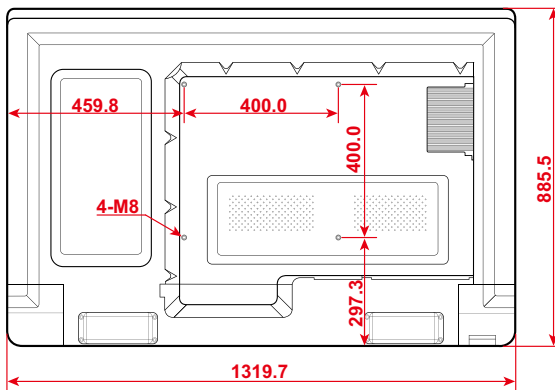


## Installation

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

### Note

Please consult a professional installer to install the display unit.

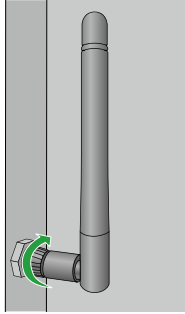


Unit: mm



## Installing the WiFi Antenna

Take out the WiFi antenna from the accessory box and securely fasten it to the rear WiFi antenna port clockwise.



## Installing the Internal PC (Optional)

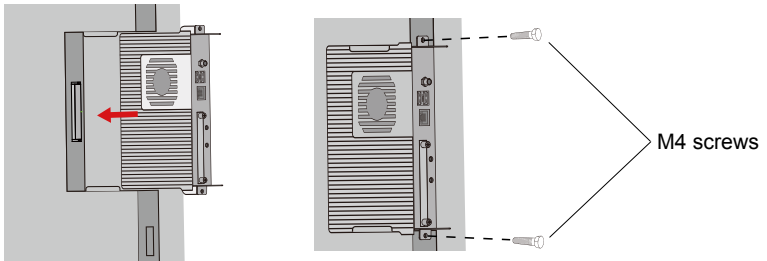
### CAUTION

The internal PC does not support hot plugging. Therefore, you must insert or remove the computer after the power supply of the screen is disconnected. Otherwise, the screen or internal PC may be damaged.

To install the internal PC, perform the following steps:

Step 1: Push the internal PC to the special slot at the rear of the screen from right to left.

Step 2: Fasten the upper and lower M4 screws.



Step 3: Ensure that the installation is correct.

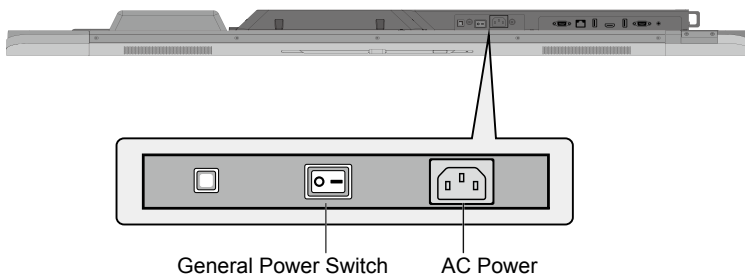
# 3

## Getting Started

### Power On

Step 1: Plug the power cord completely into the power outlet and the power supply plug. Plug the power connector into the side of the unit. Please ensure the power supply is in the range of 100 V - 240 V with frequency at 50 Hz/60 Hz  $\pm$  5%. The power cord must be plugged into a grounded source.

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





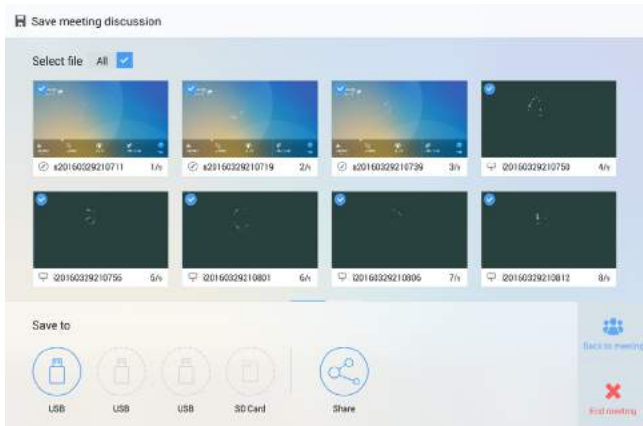
Step 3: Press the power button  on the front control panel or  on the remote control.



#### Note

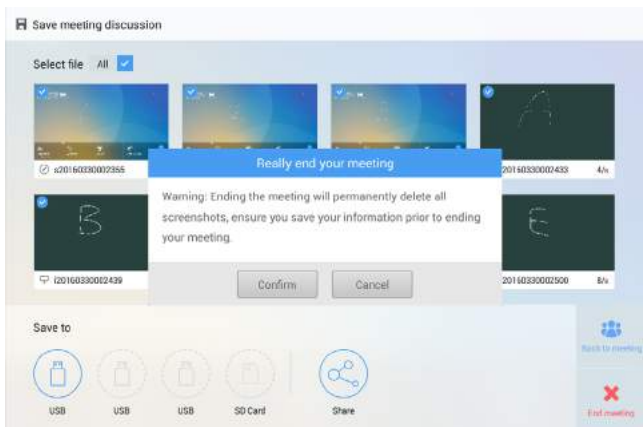
Do not forcibly disconnect the power supply for the screen when the internal PC is on.

### Power Off

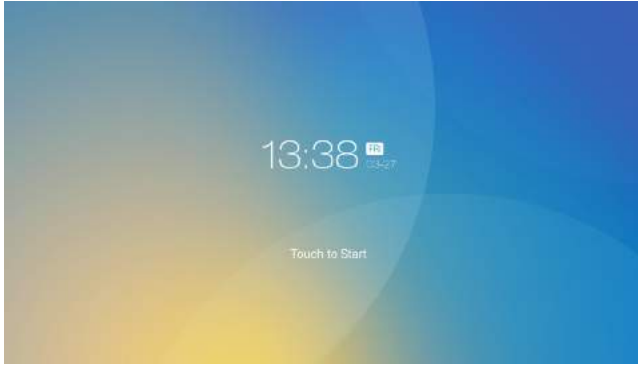
Step 1: Press the power button  on the front control panel or the power button  on the remote control. The **Save meeting discussion** page will be displayed as follows.





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



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



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

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

#### Note

If an internal PC is equipped, the internal PC and the screen are powered off simultaneously when you power off the system.

## Positioning

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:

- A computer with internal PC inserted is used.
- A computer is connected through the HDMI or VGA interface.

#### Note

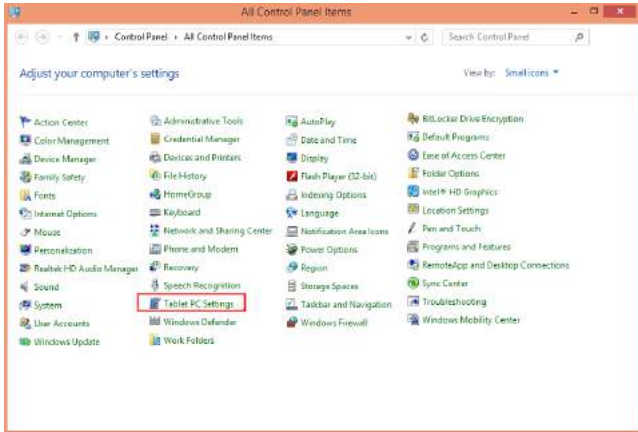
Interface operation on the Android system does not need positioning. External devices with Microsoft Windows 7 or later versions will require positioning.

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

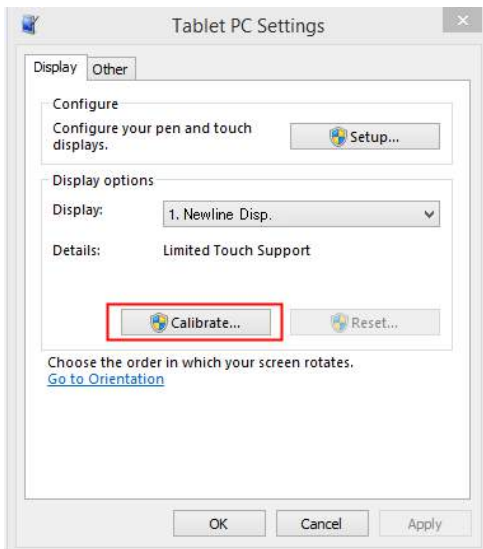
Step 1: Ensure that the HDMI or VGA interface and external devices are connected properly.

Step 2: Select the corresponding signal source on the signal source page. The Windows page will be displayed.

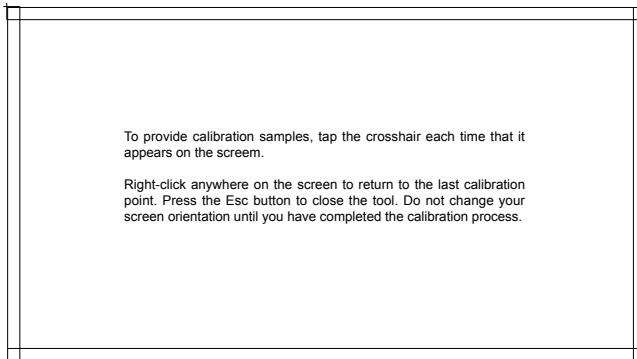
Step 3: Select **Tablet PC Settings** on the **Control Panel** page.



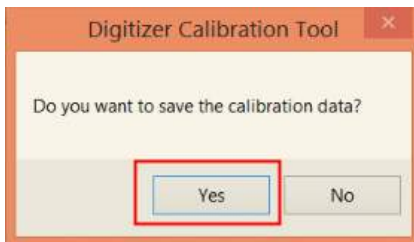
Step 4: Select **Calibrate...** in the Tablet PC Settings window.



Step 5: Use finger or pencil to click and hold the center of the flickering cross  $\oplus$ . Do not release it until  $\oplus$  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 will be displayed. Click **Yes** to save calibration data.



**TIP**

- To ensure writing accuracy, use the pencil or stylus included with the product for proper 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 will be displayed again. Click **OK**. The positioning will be complete.

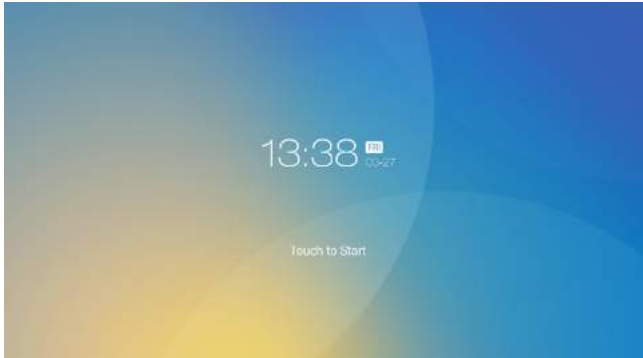
# 4

## Operating the Touch Screen

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### Home Page

When the unit is turned on, it will show the **Meeting Start** page, as shown below:



Touch the screen to start a meeting and the unit will go to the **Home** page, as shown in the following figure:



- **Collaboration**

The user can touch here to start the default UC programs, or touch the small triangle to set three shortcuts for frequently used UC programs. The default UC program will be the most previously used UC program.

- **Whiteboard**

The **Whiteboard** provides whiteboard and screen annotation functions.

- **Sources**

The user can select one of four sources to display: including HDMI Front, HDMI Rear, Internal PC and VGA.






- **External Storage**

Open the file manager to access files from an external USB disk.

- **End**

Press **End** to end a meeting. Users will have the choice of saving the discussion boards, screen captures, and ending the meeting. Once a meeting is ended, all screenshots will be automatically be deleted.

Press and hold the floating shortcut buttons on both sides to move the floating bar upwards and downwards. The functions of the floating shortcut buttons are as follows:

-  : Click to start annotation. Click again to stop annotation and save screenshot.
-  : Start Whiteboard.
-  : Go to Home page.
-  : Return to previous App/Exit.
-  : Switch Apps.

## Meeting Assistant

### \* 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

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.

Step 1: Connect Internal PC correctly.

Step 2: On the Home page, click **Sources**.

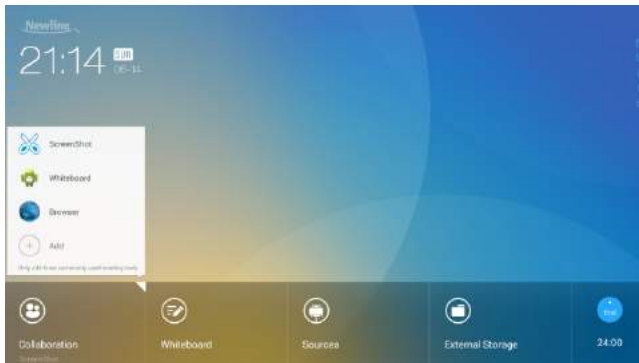
Step 3: On the displayed signal source selection page, select **PC**. The Windows page will be displayed.

Step 4: Log on to the Newline website, [www.newline-interactive.com](http://www.newline-interactive.com), and choose **Products > Software** to download the Newline Assistant installation package.

Step 5: Install Newline Assistant as instructed.

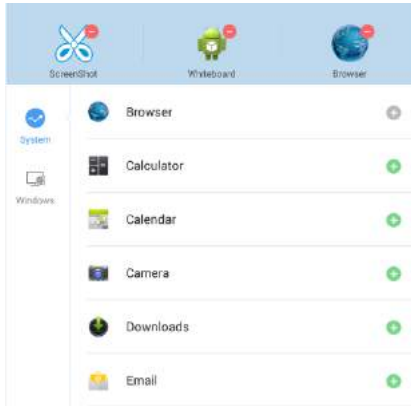
## \* Switch Applications

On the **Home** page, click **Collaboration** to start the most previously used applications, 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, as shown in the figure below:



## \* 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

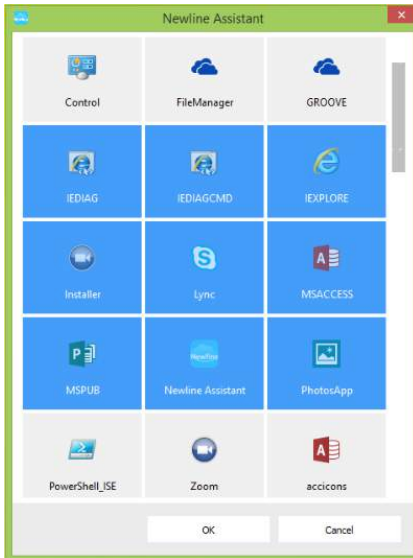
The **Windows** icon on the left navigation area is available only when the Collaboration Touch Screen has Internal PC.


## Add Applications on Android System

- Step 1: On the application customization page, click  to view applications on the Android system.
- Step 2: In the application list displayed on the right area, click  on the right to add the application.  
No more than 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

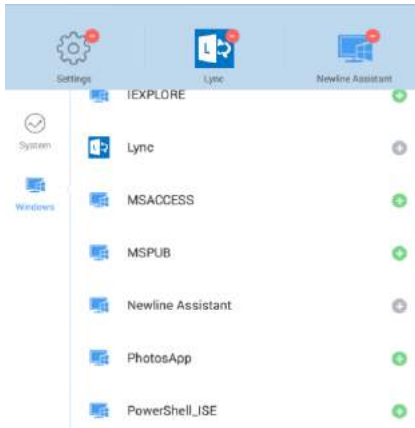
Step 1: Run the Newline Assistant application on the Windows system, and select applications to be added in the displayed **Newline Assistant** window.





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 as described in Step 3.

From the application list, click  to the right of any application you would like to add. No more than 3 applications (including Android and Windows applications) can be added.  is displayed on the right of an application that has been added.

Step 4: 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. 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,  returns to .

# Whiteboard

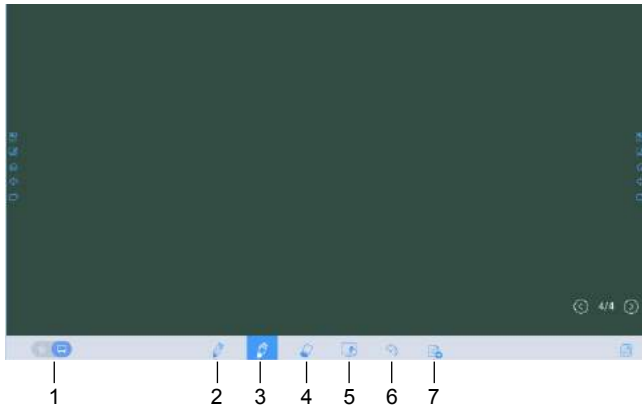
- **Writing or Annotation**



On the whiteboard page, you can select pen type, width, and color to write or annotate on the screen. You can also erase selected content or clear all content.

- **File management**

Preview, select, copy or delete a file.

To access the whiteboard meeting, click **Whiteboard**. A screen like the following will appear:




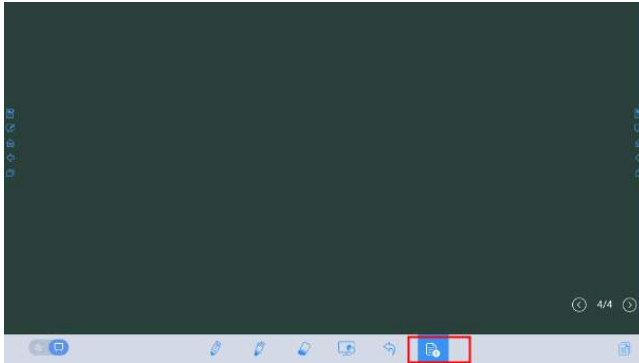
SN	Icon Name
1	Switch between writing and annotation modes.
2	Hard pen
3	Highlighter
4	Eraser
5	Clear
6	Undo
7	New slide <small>Note:</small> Only writing mode has this function. In annotation mode,  is replaced with  screenshot. For more details about writing and annotation modes, see section <b>Whiteboard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

## \* Whiteboard Functions


### New Slide and Settings

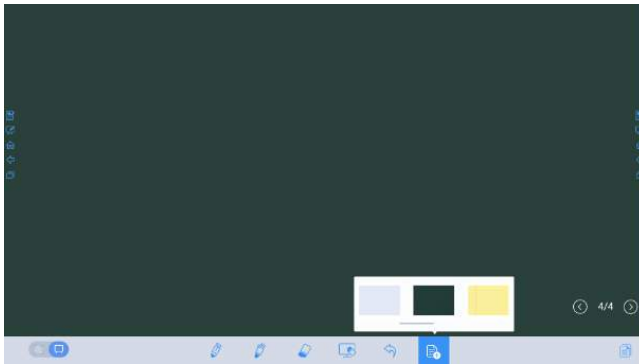
- **Create a new slide**

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





- **Slide settings**

Click  to set the background color of new slides, as show in the figure below:



### Whiteboard Mode

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

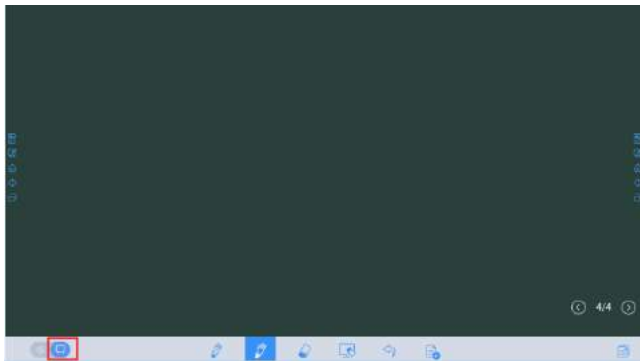
- : **Annotation mode**

The background is transparent and the real-time image of the current signal source will be displayed. You can comment on presentation content such as Office documents and pictures as showing in the following figure.





- : **Writing mode**

The background is in mono color, as shown in the following figure. You can write content on the slide as required.





## Pen Type

On the Whiteboard, two types of pens are supported: hard pen and highlighter.

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



## Line Type and Color

On the Whiteboard, click and hold  or . The line type and color selection page will be displayed. You can select the line type and color for writing, as shown in the following figure:



## Eraser


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

- Five-finger gesture: touch the screen with five fingers at the same time. A circle shows and indicates the area for eraser. Move the circle with fingers to erase written contents.
- Click  to clear wrong or unnecessary content. You can click and hold  to set the radius of the eraser, as shown in the following figure:



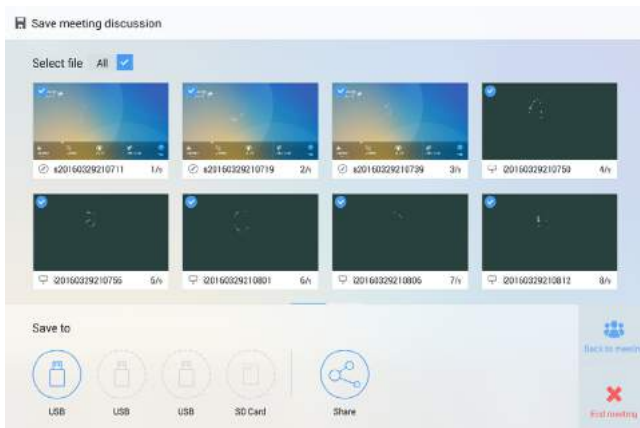


## Screenshot


In comment mode, click  to save the current image as a picture, as shown in following figure:

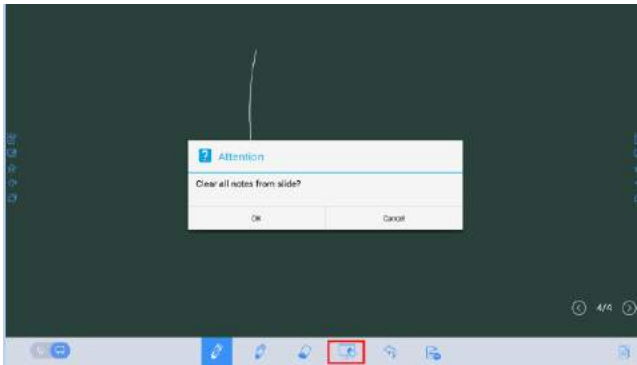


After the meeting is ended, save screenshots in the **Save meeting discussion** dialog box, as shown in following figure:




## 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:



## \* Slide Operations

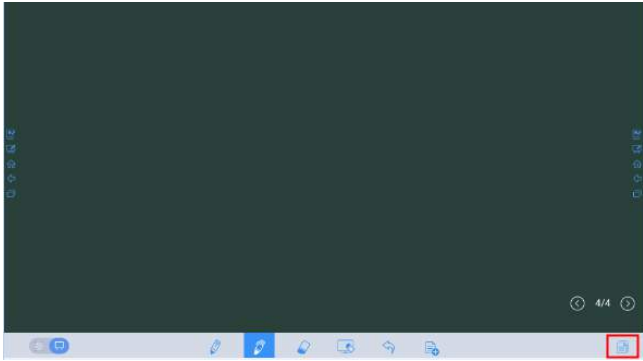
You can preview, select, and delete a created writing slide.

## Slide Preview




Click  at the lower right corner of the Whiteboard. All writing slides will be displayed. Click one slide to switch to that slide for more operations, as shown in the following figure.






### Note

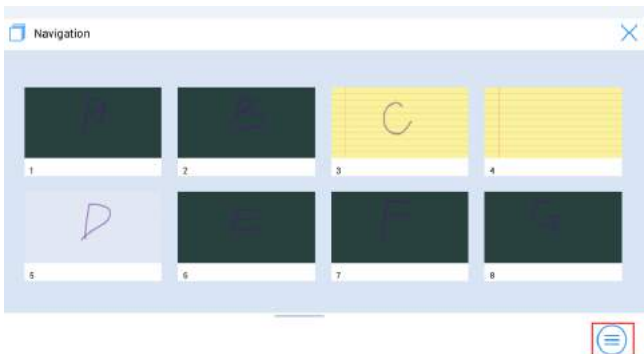
Only 8 slides are displayed in each column, and the remaining slides are displayed in the second column. You can slide one finger right or left to switch columns.



## Slide Selection and Deletion

Click . The  and  buttons will be displayed. You can select and delete a writing slide as required, as shown in the following figure:

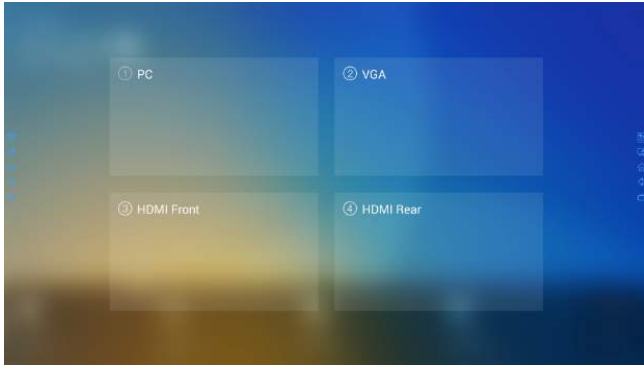
- Click the current slide to select it.
- Click  to select all slides.
- Click  to delete selected slides.
- Click  Buttons on the left are replaced with .
- Click  to close the **Navigation** page.



## Signal Source

On the Home page, click **Sources**. The signal source selection page will be 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** will appear. You can click the selected signal source to switch to the corresponding channel in full screen.

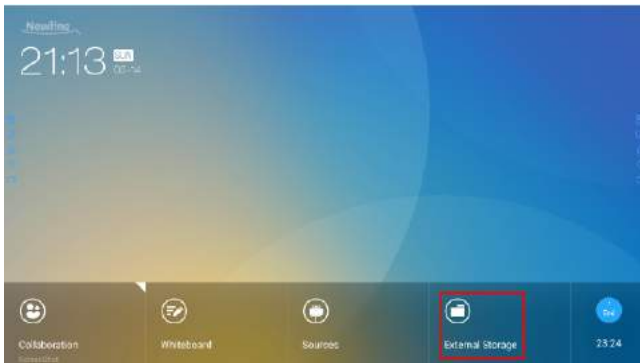


## External Storage


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 drive and SD card) and preview, select, copy, delete, and search content in each storage device.

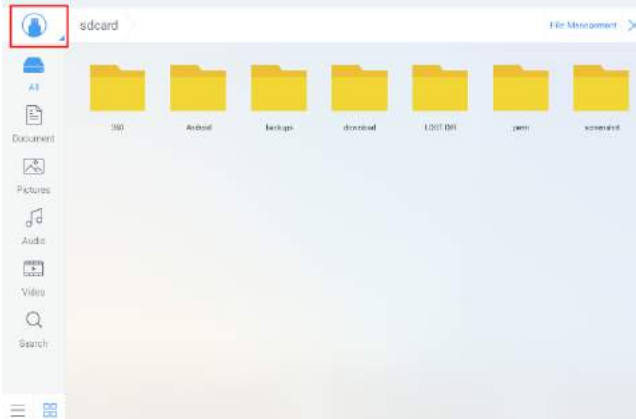
### \* External Storage Page

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





## \* File Preview

By default, files saved to internal storage will be 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, as shown in the following figure:




## \* File Filtering

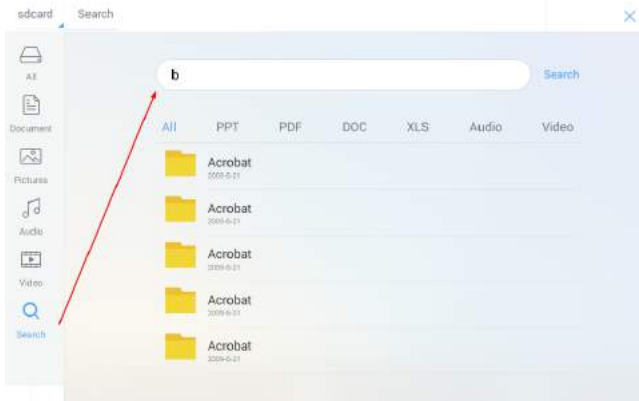
The system displays files by category, such as document, picture, audio and video. You can click the icons on the left tool bar to filter file types.

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:

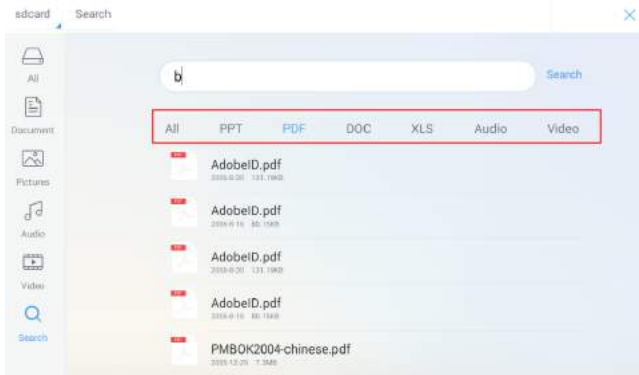


## \* File Search

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



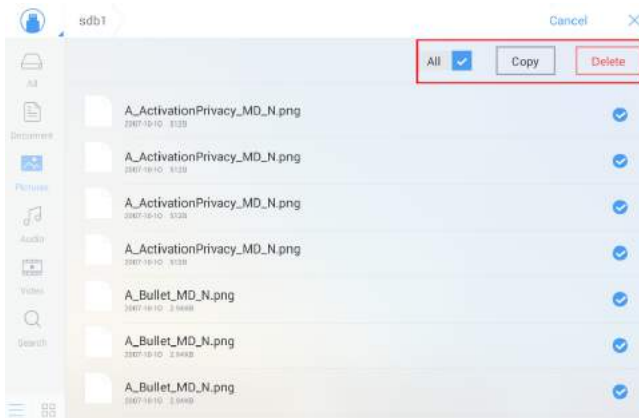
The system supports additional filtering for searched files. Click the filtering tool bar below the search box to filter searched files based on PPT, PDF, DOC, XLS, Audio, and Video, as shown in the following figure:



## \* File Operations

Click [File Management](#) 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.



## End Meeting

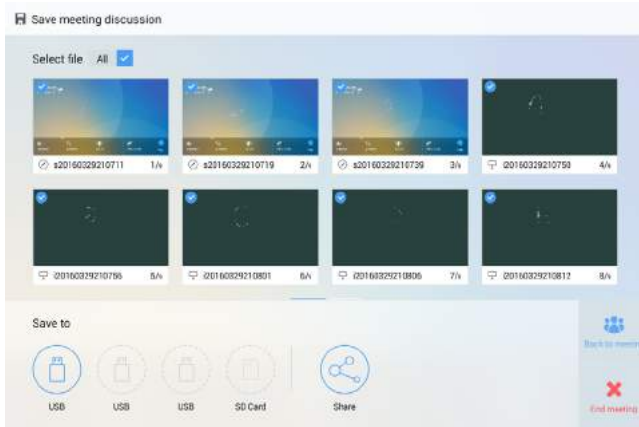
### \* Manually End Meeting

On the home page, click [End](#). The **Save meeting discussion** page will be displayed. The meeting will end 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 titled with the creation time. You can slide right or left with one finger to switch between pages.



## File Storage

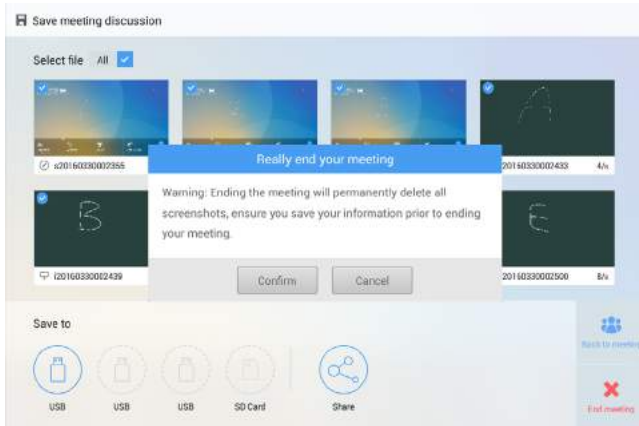
When no external USB flash drives or SD cards are connected, icons in the **Save to** area will be gray. When an external USB flash drive or SD card is connected, icons in the **Save to** area will be blue. Click the USB or SD card icon in blue. The system will create a “uc” folder selected pictures to the “uc” folder under the root folder of the corresponding USB flash drive or SD card. All files will be stored and saved in this “uc” folder.

- **Back to meeting:** The meeting continues. Files are not cleared and timer continues.
- **End meeting:** The **Really end your meeting** dialog box will be 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.

### Note

If the meeting notes can't be saved to USB drive or SD card successfully when ending meeting, please use a USB drive or SD card smaller than 32 GB and change the file system into FAT32 format.





## File Sharing

To send meeting minutes out, click on the **Share** icon to open the email application. Please confirm internet connection is working before sending email.



## \* Automatically End Meeting

If the screen goes without operation longer than 90 minutes(Default), the system will automatically lock the screen to protect your privacy. If the screen goes without operation longer than 120 seconds, the system will automatically delete all meeting contents, as shown in the following figure.

If you check the “**This meeting is no longer remind**” checkbox, the system will no longer lock the screen in this meeting, and you need to take care of your meeting contents by yourself.



## Shortcut Settings and Applications

Using one finger to swipe down from the top of the screen and leave the finger from the screen about 2 inches from the top, do not swipe over 1/3 position of the whole screen, then the **Shortcut Settings** and **Applications** pages will show up. As the following figure.



## \* Shortcut Settings

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



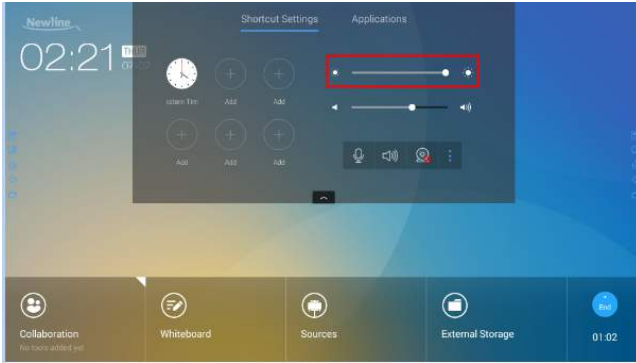
## Clock Settings

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



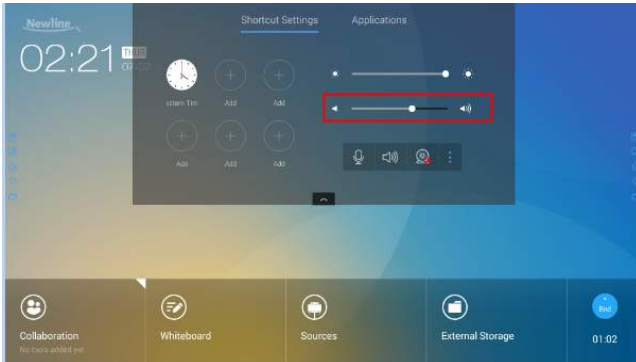
## Brightness Adjustment

Drag the slider beside the  icon to adjust the brightness.




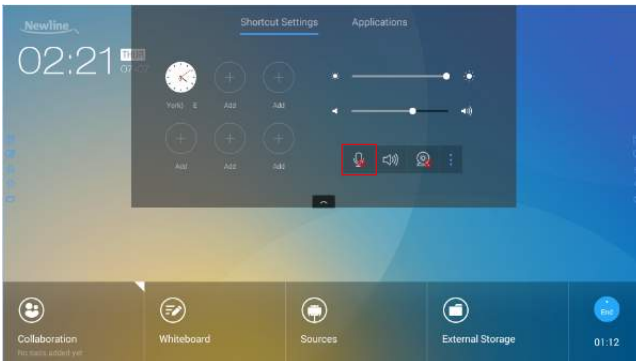
## Volume Adjustment

Drag the slider beside the  icon to adjust the volume.




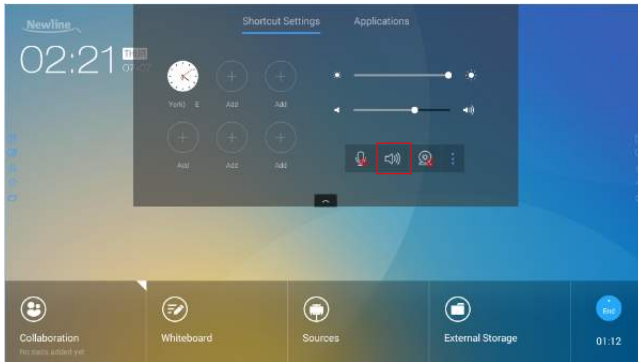
## Microphone Mute Mode

Click  to enable or disable the microphone mute mode.




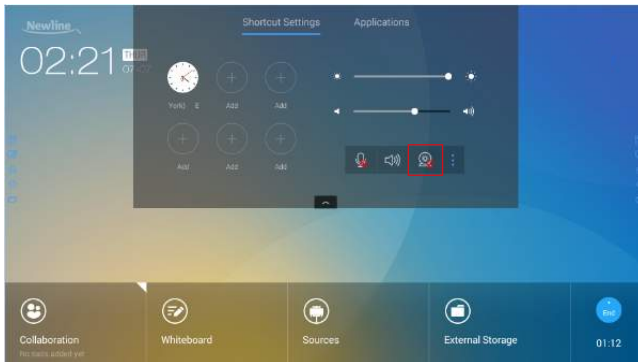
## Speaker Mute Mode

Click  to enable or disable the speaker mute mode.



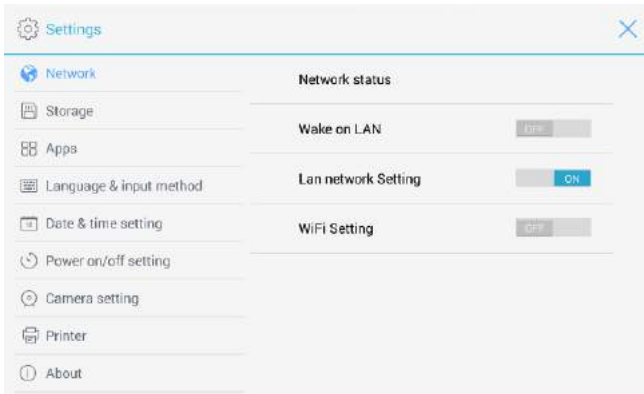
## Camera Settings

Click  to switch to top or bottom camera.



## System Settings

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



## \* Applications

In the Meeting Assistant, click **Applications** to fast select and start applications in the Android system. Slide right and left on the screen to view all available 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)			
Baud 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
Internal PC	7F 08 99 A2 B3 C4 02 FF 01 38 CF	7F 09 99 A2 B3 C4 02 FF 01 38 01 CF
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

Function	Controlling codes	Return codes
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 <small>NOTE: XX indicates the volume value (0 to 100), corresponding to hexadecimals 00 to 64.</small>	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 <small>NOTE: XX indicates the mode. 00 and 01 indicate standard and eco modes respectively.</small>	7F 09 99 A2 B3 C4 02 FF 06 XX 01 CF
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



Function	Controlling codes	Return codes
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 annotation	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: • 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: • XX=01 indicates that the top camera is enabled. • XX=02 indicates that the bottom camera is enabled.
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: • 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

## FAQ & Troubleshooting

Symptom	Troubleshooting Methods
Lync 2013 and Lync 2013 Basic failed to identify the microphone and a dialog box will appear, indicating "We didn't find an audio device, which you need for calling."	Upgrade Lync to the latest Skype for business version.
The microphone and speaker of the Spontania cannot be used simultaneously.	Choose <b>Control Panel &gt; Sound</b> . In the <b>Playback</b> tab page, disable <b>Speaker</b> .
The screen cannot be powered on or the indicator is off.	Check whether the power supply is connected.
	Check whether the power supply plug is properly connected.
	Check whether the power supply line is properly connected.
	Check whether the rocker switch is enabled. For details, see section "Power On".
	Press the reset switch and start the system again. For details, see section "Power On".
The remote control is not causing a response.	Replace the batteries.
	Check whether the polarity direction of the batteries is correct.
	Use the remote control aligning with the IR receive window. For details, see section "Remote Control".
The image is normal but there is no sound.	Increase volume on both the screen and the Windows system.
	Check whether the screen and the Windows system are muted.
	If an external computer is connected, check whether the connection cables are normal.
During the video conference, the remote party cannot hear the sound of the local party.	Check whether the local microphone is muted.
	In <b>Control Panel &gt; Sound</b> , set the device parameters to the default values in the <b>Recording</b> tab page.

Symptom	Troubleshooting Methods
The system is automatically powered on/off when no operation is performed.	Disable the automatic power-on/off function. For details, see section "Shortcut Settings".
	Check whether the screen entered sleep mode due to no operation for an extended period of time.
	Check whether the input power supply is stable.
The colors of images are abnormal.	Check whether the HDMI or VGA cable is properly connected or has any quality issue.
The touch function is abnormal or the positioning is inaccurate.	Restart the screen.
	In the Windows system, perform positioning again. For details, see section "Positioning".
The touch function is unavailable when the external signal source channel is being used.	Switch between different external signal sources.
	Ensure that the USB touch cable is connected to the proper port. For details, see section "Ports".
	Remove and insert the USB touch cable again.
There is no sound when the HDMI in channel is used.	Remove and insert the HDMI cable again.
No image is displayed when the HDMI out channel is used.	Generally, this issue is caused by the compatibility of the external display device. Replace the external display device and test again.
	The HDMI cable is too long or has a poor quality. Replace the HDMI cable delivered with the device.
The touch function on the front panel is ineffective.	Touch the button using the fingertip completely.
	Check whether the finger is wet or has other liquids on it.
	Restart the screen.
The USB flash drive cannot be identified.	Check whether the USB flash drive is inserted into the correct USB port. For details, see section "Ports".
The conference records cannot be saved on the USB flash drive, and the system prompts "The target storage device has no write permissions."	Format the USB flash drive to the FAT32 format.

Symptom	Troubleshooting Methods
The internal PC has no signal.	Check whether the internal PC is properly inserted in the slot.
	Check whether the internal PC enters the sleep state.
	Press the power button on the internal PC (for details, see the instructions of the internal PC), and manually start up the internal PC.
In the Android system or Windows system, no wireless network can be found or the wireless network signal is weak.	Check whether the Wi-Fi antenna is properly installed on the Android system. For details, see section "Installing the Wi-Fi Antenna".
	Check whether the Wi-Fi antenna is properly installed for the internal PC. (For details, see the instructions of the internal PC.)

# 7

## Specifications

Parameter	Value
<b>Display</b>	
Backlight	LED
Display Area	1209.6 x 680.4 mm
Active Screen Size	55"
Display Ratio	16 : 9
Resolution	1920 x 1080 Pixel
Display Colors	8-bit, 16.7M colors
Brightness	370 nit
Contrast	4000 : 1
Response Time	8 ms
Life Time	30,000 h
<b>Speaker</b>	
Speaker Position	Forward
Rated Impedance	8 $\Omega$ ( $\pm$ 15%)
Freq. Response	80 Hz ( $\pm$ 20%) – 18 kHz
Output S.P.L.	82 $\pm$ 3 dB
Max. Power Output	2 x 10 W
<b>Microphone</b>	
Sensitivity	-28 dB $\pm$ 3 dB
Frequency Response	100 Hz – 7.75 KHz
Polar Patterns	Omnidirectional
Total Harmonic Distortion (THD)	less than 1% at 6 dB SPL
Pickup range	8 m
Quantity	4
<b>Camera</b>	
Position	Top x 1 & Bottom x 1 (Can only use one at a time)

Parameter	Value
Sensor	2M Pixels
Lens	86°
Video Resolution	1920 x 1080 @ 30 fps (Max)
Frame Rate	30 fps/60 fps
<b>Electrical</b>	
Power Consumption	Maximum < 180 W Standby Mode ≤ 0.5 W
Working Voltage	AC 100 V – 240 V, 50 Hz/60 Hz
<b>Touch</b>	
Touch Surface	Tempered glass
Transparency	> 89%
Haze	0%
Surface Hardness	≥ 8 H
Touch Technology	TruFlat
HID support	HID
Touch Points	10 Points in Windows/5 Points in Android (3 points to write, 5 points to eraser)
Writing Tools	Newline Stylus or Finger
Touch Resolution	19354x10866
Scan Speed	100 Hz
Positioning Accuracy	1mm
Communication Interface	USB-A
<b>Transportation/Storage</b>	
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	1320 x 886 x 87 mm
Packing Dimension	1470 x 995 x 265 mm
Net Weight	36 kg
Gross Weight	45 kg

Parameter	Value
<b>Ports</b>	
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 x 1, VGA x 1, USB (Touch) x 2, Audio x 1
AV Outputs	3.5mm Line out x 1, HDMI x 1 (only video)
Other	USB2.0 x 2, RS232 x 1, RJ45 x 1, USB3.0 x 1, SD Reader, OPS Slot
<b>Other functions</b>	
Intelligent thermos protector	Yes
Build-in WiFi	Yes
<b>Remote Control</b>	
Technology	IR
Max Keys	26keys
Battery Type	AAA Cell
<b>Smart System</b>	
Chips	ARM Cortex A9 Quad Core 1.5GHz
RAM	2 GB
Flash	8 GB
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)
<b>Android Software</b>	
Input Resource Preview	Yes
On Screen Annotation	Yes
Discussion Board	Yes

# 8

## More Information

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### **For More Information**

Please visit [www.newline-interactive.com](http://www.newline-interactive.com).

### **Contact Us for Support**

Please email us at [support@newline-interactive.com](mailto:support@newline-interactive.com).

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