

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.

O→ **TIP** Provides tips for operations.



1 Overview

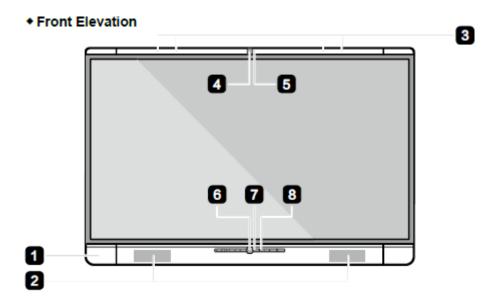
1.1 Introduction

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

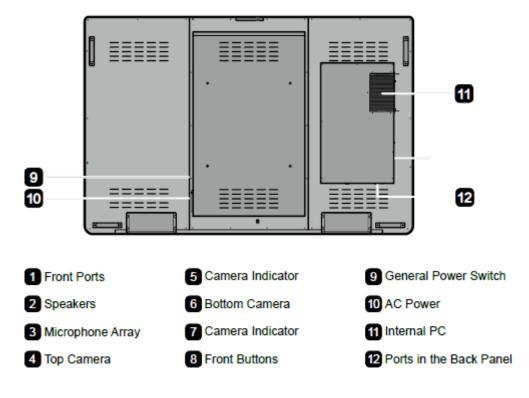
Front Elevation





- 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.

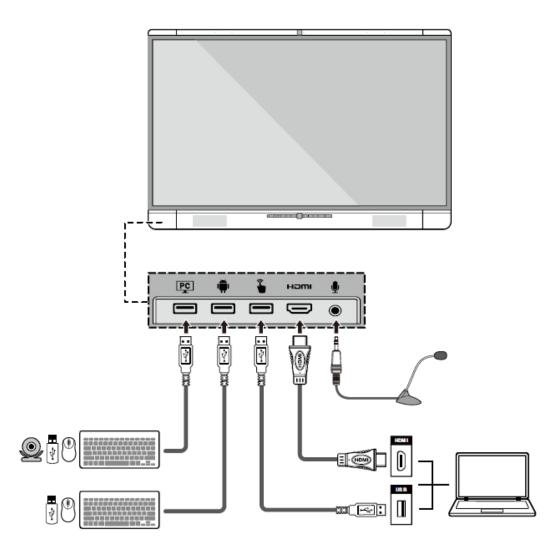
Rear Elevation





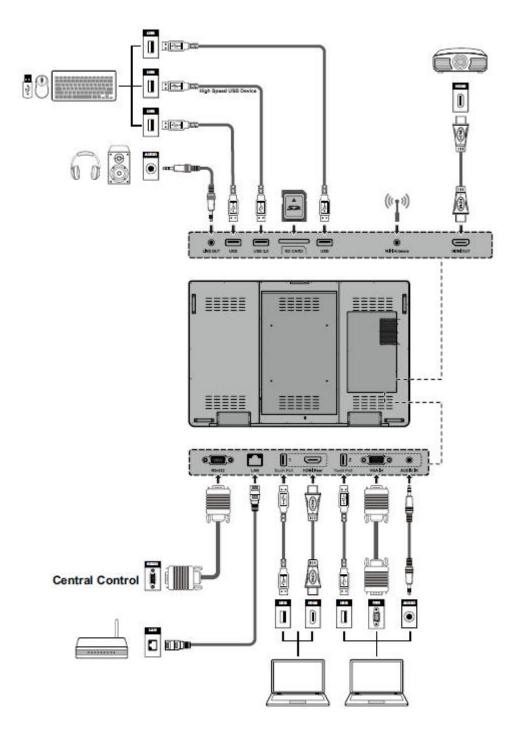
1.3 Ports

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
Ý	Long press for more than 1 second	Increase volume continuously
	Short press	Open the menu
Ħ	Short press	Return to last menu/Exit
Ð	Short press	Go to the home page



1.4 Remote Control



Button	Function
С	Power On/Off
UC	Start the Default UC Programs
۹×	Mute
Ŝ	Microphone Mute
Ŷ	Up/Down/Left/Right
ОК	Confirm/OK



Button	Function
←	Return to Previous/Exit
♠	Go to the Home Page
	Open the Menu
-0	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
РС	Switch Source to Internal PC
◄	Page Up
	Page Down
¢	Toggle Display Mode
Ð	Zoom Out (PC)
Q	Zoom In (PC)



2 Installations

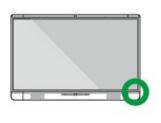
2.1 Safety Precautions

Installation Environment





Installation Direction





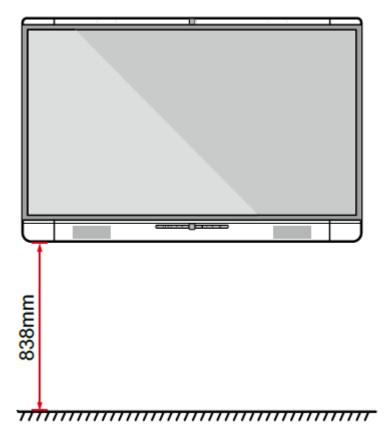


Hang the Unit Horizontally

No Vertical Installation

Do Not Lay Flat

Installation Height



2.2 Installation Precautions

Weight Loading

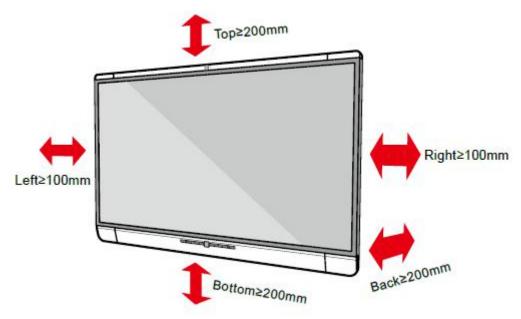
• The back of the panel is equipped with holes in VESA standard. Please use a VESA standard mounting system.



- 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.

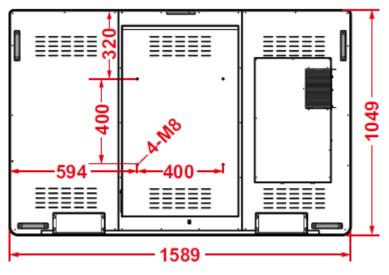


2.3 Installation

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 to15mm to secure the touch screen with the mounting system. Dimensions of the mounting holes in the back panel is shown in the following figure.

Please have a professional installer to install the display unit.





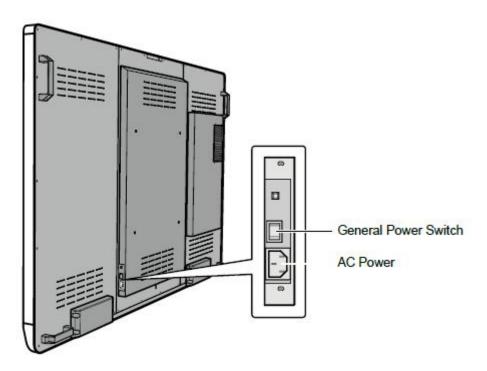
Unit: mm



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 ±5%. The power current must be grounded.
- Step 2 Turn on the general power switch located on the side of the unit.



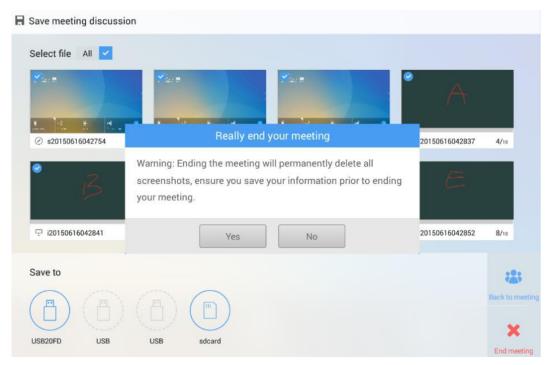


3.2 Power Off

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.

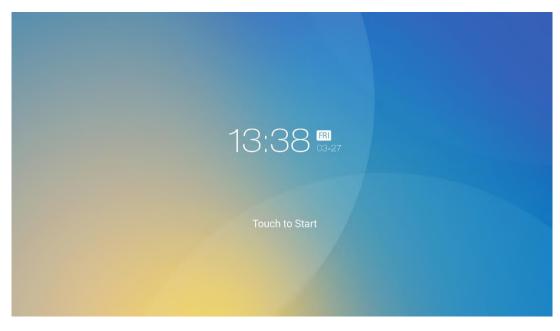
Save meeting discussion				
Select file All				
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B	° C	° P	° E	
∏ i20150616042841 5/9		∏ i20150616042848 7/9		8/9
Save to				:::
A A				Back to me
USB20FD USB	USB sdcard			×
				End meet

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.

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.

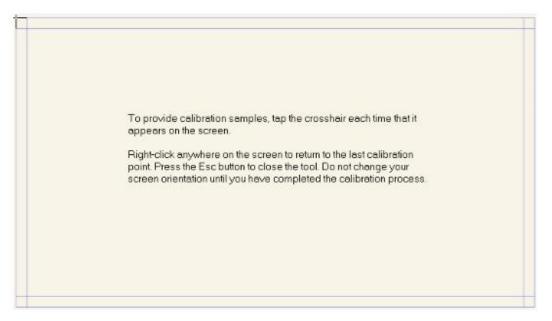


Adjust your computer's settings View by: Small icons	*** Action Center				✓ C Search Control Panel
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Image:	Image:	Personalization	Phone and Modem	Power Options	Programs and Features
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🍇 User Accounts 🕍 Windows Defender 🍘 Windows Firewall 📲 Windows Mobility Center		🖳 System	🖉 Tablet PC Settings	🖳 Taskbar and Navigation	📧 Troubleshooting
	🐝 Windows Update 📑 Work Folders	User Accounts	Windows Defender	P Windows Firewall	Windows Mobility Center
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Step 4	Select 🔋 🕲 🕲	alibrate	in the Ta	blet PC Setting	gs window.
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	Details:	🚱 Calibr		Reset	t
			OK	Cancel	Apply



Step 5 Use the pen to click and hold the center of the flickering cross +. 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.

Digiti	izer Calibratio	n Tool 🛛 📉
Do you want i	to save the calibra	tion data?
DO you want	to save the callor	tion data:
	Yes	No

©-[™] 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.

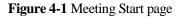






Figure 4-2 Home Page



• 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
- C: Return to Previous App / Exit
- \Box : 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.



Scre	eenShot	Whiteboard	Browser
System		Browser	0
-	+ =	Calculator	0
Windows		Calendar	0
		Camera	0
	٩	Downloads	0
	Ó	Email	0

🛄 ΝΟΤΕ

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 \checkmark 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. \bigcirc 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.



	Newline Assistant		>
Control	FileManager	GROOVE	I
IEDIAG	IEDIAGCMD	(É IEXPLORE	
Installer	S Lync	MSACCESS	
мярив	Newline Assistant	PhotosApp	
PowerShell_ISE	Zoom	accicons	
	OK	Cancel	

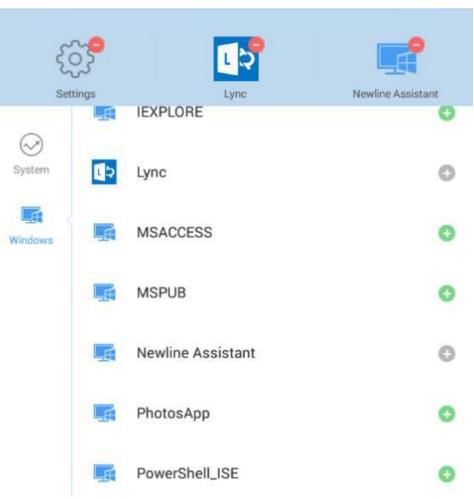
Step 2 Click to return to the home page. Click the triangle at the upper right corner of **Collaboration** and select **Add** on the displayed menu. The customization page is displayed.



Newline 21:05	8			
ES File Explorer				
Collaboration	(F) Whiteboard	Sources	External Storage	End 1:04:18

Newline Assistant in Step 1.

Step 3 On the customization page, click it view all Windows applications added using





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.

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 🕒.

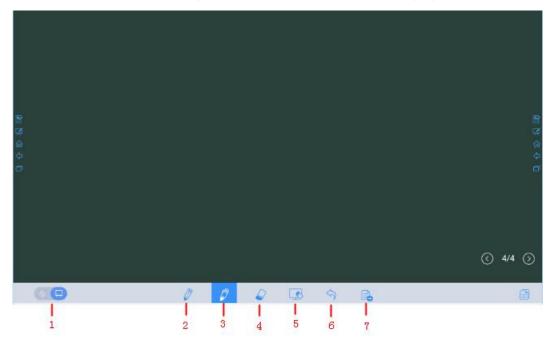
4.3 Whiteboard

• 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	New slide NOTE Only writing mode has this function. In annotation mode, is replaced with (screenshot). For details about writing and annotation modes, see section Whiteboard Mode.

4.3.1 Whiteboard Functions

New Slide and Settings

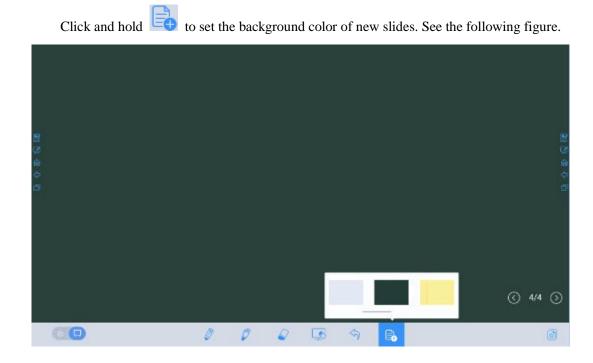
• Create a new slide

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

2) (2) (3) (4) (5)								日公司或國
							3/4	0
00	Ø	Ø	Ø	6	9 🖪		3	6

• Slide settings





Whiteboard Mode

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

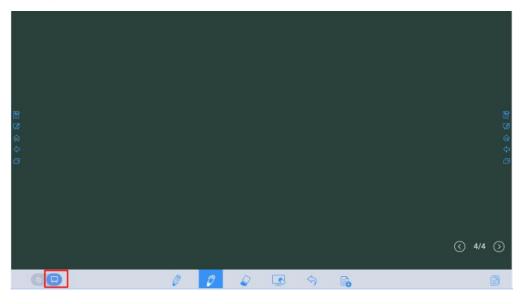
Annotation mode

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.

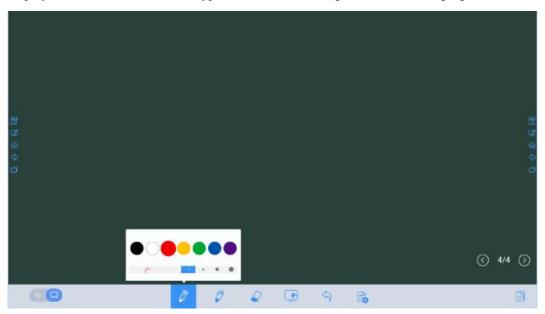
Pen Type

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

- 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 below 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 it to clear wrong or unnecessary content. You can click and hold it to set the radius of the eraser. See the following figure.



Screenshot

In comment mode, click **G** 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

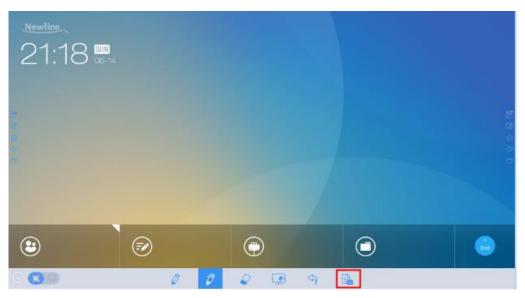
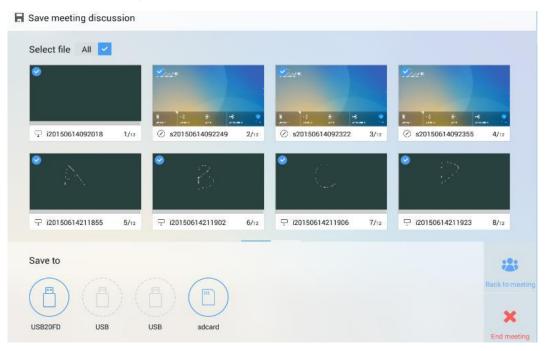


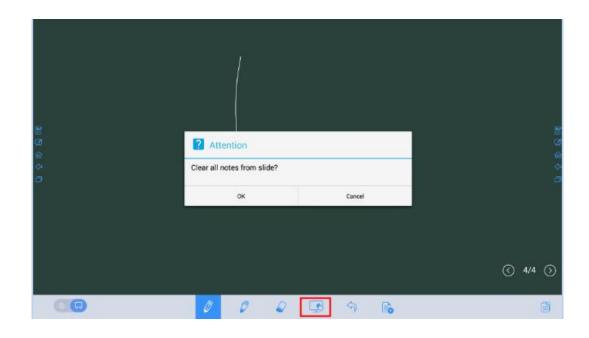
Figure 4-4 Save meeting discussion



Clear

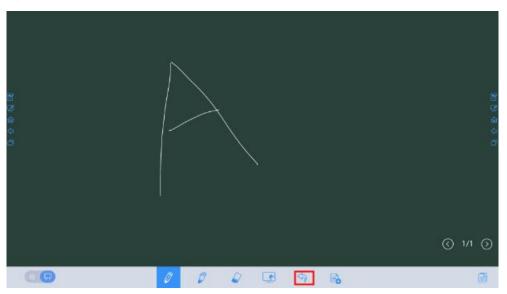
On the whiteboard page, click to clear all contents on the current writing slide, as shown in the following figure.





Cancel

On the whiteboard page, click 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.



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.

					2) (2 G (4) (3) (4) (4) (4) (4) (4) (4) (4)
					() 4/4 ()
00	0	00	IS \$	B	

Slide Selection and Deletion

Click \bigcirc . The \checkmark and \bigcirc 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
- Click ⁼: to delete selected slides.
- Click \bigotimes : Buttons on the left are replaced with \bigcirc .
- Click \times : to close the **Navigation** page.

Navigation			×
	2	C	
P		3	4
5	6	7	8



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.

	• PC	② VGA		
	(3) HDMI Front	(HDMI Rear		

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.

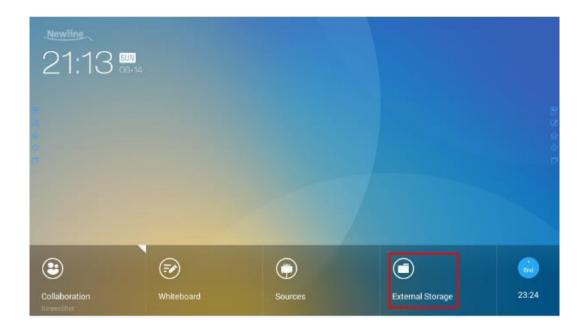
4.5 External Storage

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 (a) 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.

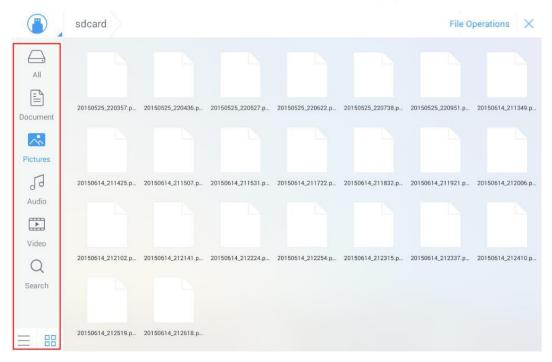
	sdcard					File Op	perations X
All Document	360	Android	backups	download	LOST.DIR	perm	screenshot
Pictures Audio							
Video Q Search							



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 \equiv and $\stackrel{\texttt{BB}}{=}$ at the lower left corner to switch view modes, as shown in the following figure.

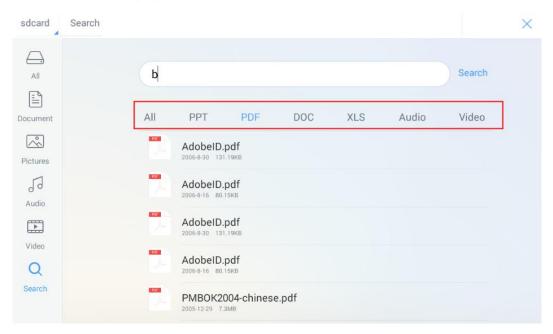


4.5.4 File Search

	ter the ke	y word in	the searc	ch box. Fi	les match	ing the key	word are l	isted.
sdcard Search								×
All	b						Search	
Document	All	PPT	PDF	DOC	XLS	Audio	Video	
Pictures		Acrobat 2009-6-21						
J Audio		Acrobat 2009-6-21						
Video		Acrobat 2009-6-21						
Q Search		Acrobat 2009-6-21 Acrobat						
		2009-6-21						



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.



	sdb1	Cancel X
		All Copy Delete
Document	A_ActivationPrivacy_MD_N.png	•
	A_ActivationPrivacy_MD_N.png	•
Pictures	A_ActivationPrivacy_MD_N.png	0
Audio	A_ActivationPrivacy_MD_N.png 2007-10-10 5128	0
Video	A_Bullet_MD_N.png 2007-10-10 2.94KB	0
Search	A_Bullet_MD_N.png 2007-10-10 2.94KB	•
	A_Bullet_MD_N.png 2007-10-10 2.94KB	•

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.



Save meeting discussion				
Select file All 🔽				
920 F	Mare .	Part	Â	
 s20150616042754 1/9 	xxxxx 2/9 ⊘ s20150616042805 2/9	 ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★	⊊ i20150616042837	4/9
B	° C	° P	° E	
		₽ i20150616042848 7/9	무 i20150616042852	8/9
Save to				
				Back to meeting
USB20FD USB	USB sdcard			X End meeting

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.

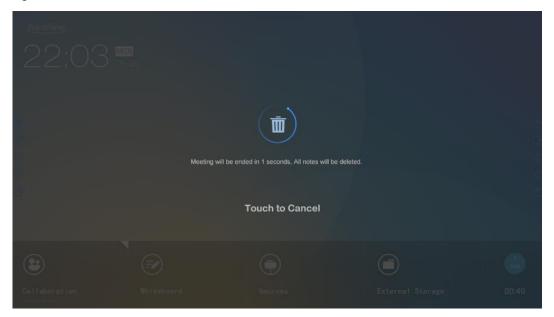
- Back to meeting: The meeting continues. Files are not cleared and timer continues.
- End meeting: The Really end your meeting dialog box is displayed.
 - Click Yes. All writing slides and screenshots will be deleted, and the start meeting
 page will be displayed (contents not saved to the external 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.



R Save meeting discussio	n		
Select file All			
Yan s	Mare -	A	
 s20150616042754 	Really end your meeting	20150616042837	4/10
° B	Warning: Ending the meeting will permanently delete all screenshots, ensure you save your information prior to ending your meeting.	E	
	Yes No	20150616042852	8/10
Save to			:2:
USB20FD USB	USB sdcard		Back to meeting

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

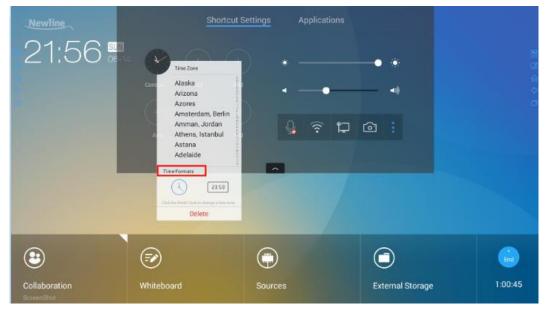
After a top-down slide, the **Shortcut Settings** page is displayed by default, as shown in the following figure.





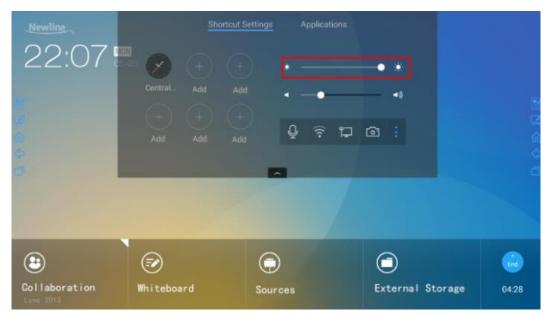
Clock Settings

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 **S** icon to adjust the brightness.



Volume Adjustment

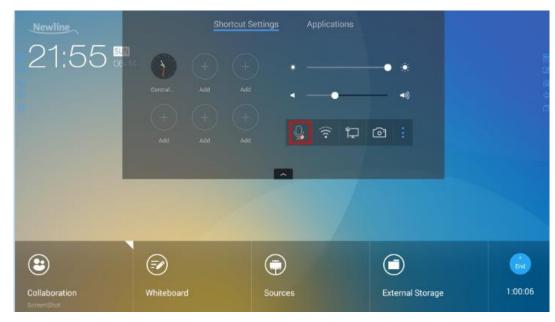
Drag the slider beside the \square icon to adjust the volume.





Audio Mode

Click \blacksquare 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.



ි Settings		
😵 Wireless & Networks	HUAWEI-KCCW4Z Secured with WPA/WPA2 (WPS available)	₹
💾 Storage	ННТ	
🔠 Apps	Secured with WPA2	T 4
📰 Language & Input	D-Link_2.4 Secured with WPA/WPA2 (WPS available)	
18 Date & Time	SmartWiFi-08C0 Secured with WPA/WPA2	T
S Timer On/Off		
Camera Settings		
About Display		

Wired Network Settings

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

<i>Settings</i>						X
🚱 Wireless & Networks	Auto IP	Or				
🗒 Storage	IP Address	192	168	48	31	
88 Apps	Subnet Mask	255	255	255	0	
📰 Language & Input	Default gateway	192		48		
To Date & Time	Preferred DNS	192	168		10	
(5) Timer On/Off	Second DNS					
 Camera Settings 	_	S	ave			
() About Display						

Camera Settings

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



😗 Wireless & Networks	Default Camera	
💾 Storage	Anti-Flickering	
🗄 Apps	50 Hz	
Eanguage & Input		
18 Date & Time		
🕑 Timer On/Off		
Camera Settings		
 About Display 		

System Settings

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

😵 Wireless & Networks	Network Status	
🗒 Storage	Wake on LAN	OFF
🗄 Apps	wake on LAN	UFF
📰 Language & Input	LAN Settings	ON
18 Date & Time	Wireless Settings	ON
う Timer On/Off		
Camera Settings		
About Display		



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
<i>←</i>	7F 08 99 A2 B3 C4 02 FF 01 2C CF	7F 09 99 A2 B3 C4 02 FF 01 2C 01 CF
\rightarrow	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
Ļ	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 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.



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 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).



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	8ms			
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	72°			
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

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