LED Multi-Media Display

User Manual

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The symbols that may be found in this document are defined as follows.

Symbol	Description
Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
Note	Provides additional information to emphasize or supplement important points of the main text.

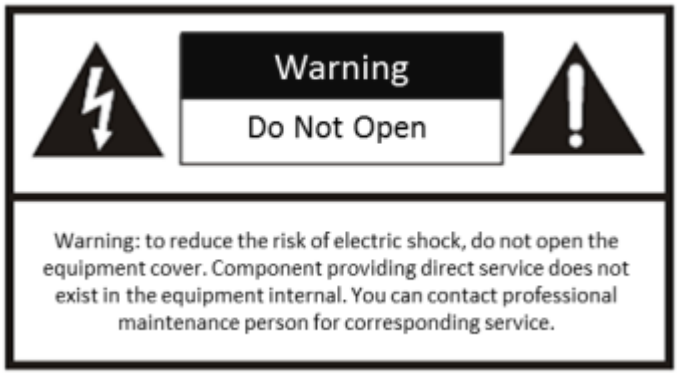
Safety Instruction

For safety concerns, the device has been strictly tested before shipment. However, incorrect installation or usage may lead to hazardous results such as electric shock and fire. To ensure the service life and best performance of the device, please read the notice and plate signs carefully and follow the safety instructions. Keep this guide properly for later use.

Caution

- To ensure safety, the installation parts and the wall should support four times the weight of the device.
- Install the device no more than 5 mm away from the wall or other metal racks in case of lamp board drop resulting in electric shock.
- Please set the brightness of the LED display within 500 nits to avoid power overload.
- The device may generate radio interference in indoor environment. Necessary precautions may be required.
- To reduce the risk of fire or electric shock, please do not expose the device to rain or humid environment.
- Electric discharge may last for a short period of time after the power is shut down. Please wait two minutes after the power is shut down before operating the device.
- To avoid the risk of electric shock, please do not operate when the power is on.
- Please do not plug and unplug the power cable when the power is on.
- Ensure the correct wire sequence of the terminals connected to the AC power supply.
- Do not place anything containing liquid on the device to avoid the risk of fire or electric shock caused by liquid-splashing.
- The device is only suitable for installation on the concrete or non-flammable surfaces, to prevent molten material from dripping to the bottom during fire caused by internal failure.
- Keep 90 degrees when moving and using the device.

- After installation, there should be no openings around the LED module. The bottom bracket under the wire outlet position should completely cover the bottom hole only to let the wire out, to prevent the molten material from dripping to the bottom during fire caused by internal failure.



Warning

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Disconnect the power plug before maintenance.
- Make sure the power supply is well-grounded.
- The protective grounding of the device should be reliably connected to the building protective grounding.
- To reduce the risk of electric shock, install protective shield on the exposed connector after installing LED screen.
- Disconnect the power plug before installing the protective shield.
- A disconnecting device should be provided on the outside of the equipment. A single device is recommended for AC 220 V / 230 V / 240 V, 6 A circuit breakers. When multiple devices are superimposed, a suitable circuit breaker should be selected according to the total rated current, but it must not exceed the building equipped circuit specifications.
- To prevent injury, the device must be securely fixed to the ground, wall, ceiling, or steel frame. The all-in-one rack should be fixed to the ground with expansion screws.
- The supporting rack can only be used with the device. Using it with other devices may cause instability and injury.
- The device can only be used with the supporting rack. Using it with other equipment (such as a cart, shelf, or handling device) may cause instability and injury.
- Please strictly follow the installation method in this guide.
- The external wire connection between device and hazardous electronic terminals should be operated by professionals.
- This is a class A product and may cause radio interference in which case the user may be required to take adequate measures.

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Chapter 1 Product Introduction

The LED multi-media display, hereinafter referred as terminal or device, is a standardized display product, featuring in self-illuminating display, comprehensive information release, remote management and control, miracast, etc. With its fashionable and simple design, the terminal boasts good performance in various aspects. It can bring a wide view without light reflection even in strong light. The integrated management system enables you to remotely control terminals, manage programs, and perform miracast by a PC or mobile phone. Operation through a remote control is also allowed. The LED multi-media display is equipped with Hikvision's professional image processing technology, including Pix Code (algorithm for optimizing the details of low-grayscale image), Pix Master (algorithm for image enhancement), Color Master (algorithm for color fidelity), HDR display, 3D display and other research and development achievements. With clear and vivid images, the device is applicable to scenes with 100 to 200 inch wide view, such as large-scale shopping malls, business buildings, financial halls, airports, high-speed railway stations, government halls, news release halls, exhibition halls, etc.

Chapter 2 Sending Card Configuration

2.1 Activate Device

Activate the sending card via the LED Display Client when using it for the first time.

Before You Start

- The client has been installed correctly.
- Ensure the PC running the client and the sending card are in the same LAN.

Steps

1. Run the client.
   Online Device list will display all the online devices in the current network segment. You can click **Refresh** to refresh the online devices.

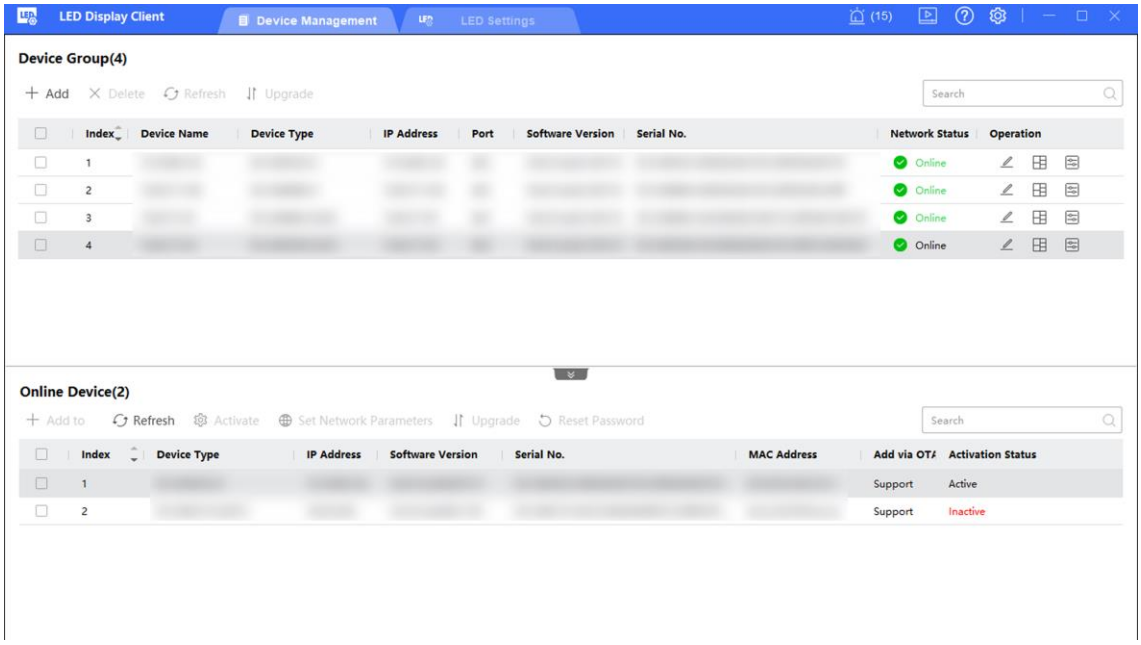

Figure 2-1 LED Display Client

2. Select the inactive device from the list, and click **Activate**.
3. Enter the password and confirm it. Click **OK**.

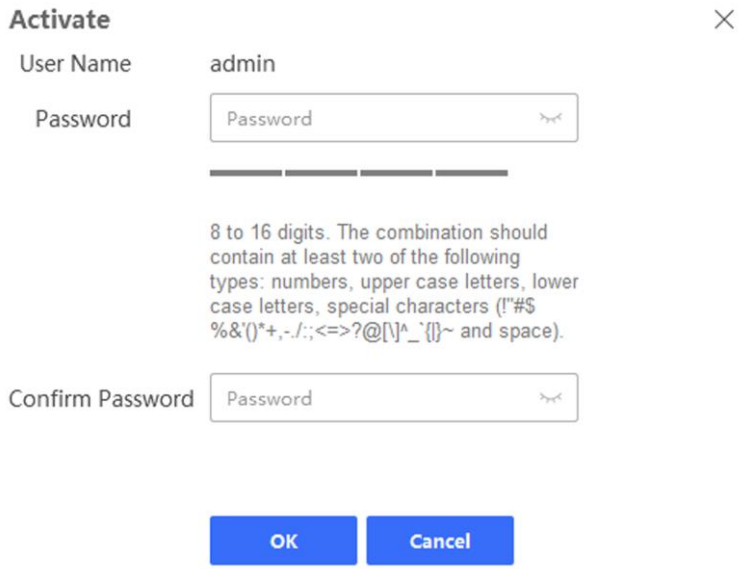

Figure 2-2 Activation

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.
Proper configuration of all passwords and other security settings is the responsibility of the service provider and/or end-user.

4. Optional: Edit network parameters of the activated device.
   1) Select the activated device from **Online Device** list.
   2) Click **Set Network Parameters**.
   3) Edit the network parameters of the device, such as the IP address, subnet mask, gateway, etc.
   4) Enter **Admin Password**, and click **OK**.

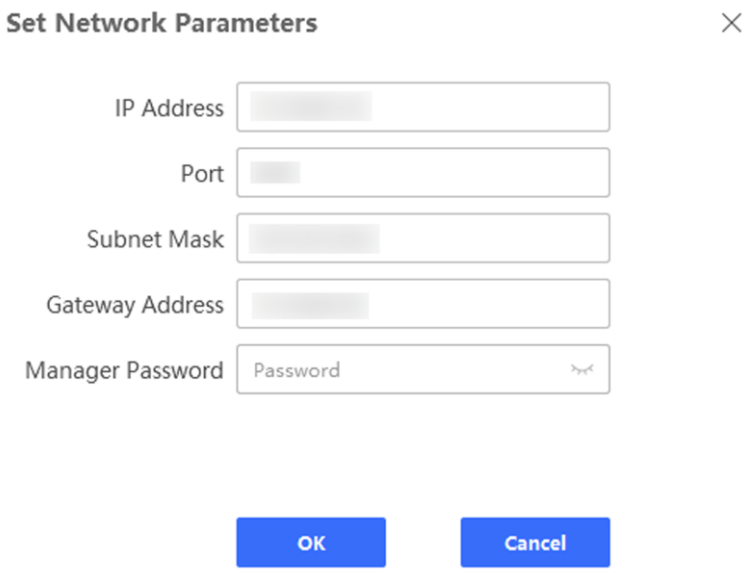

Figure 2-3 Set Network Parameters

Note

If the device connected network has DHCP function, the IP address of the device will be allocated automatically. You can skip step 4.

2.2 Add Device

The client provides multiple device adding modes including by IP address and IP segment. You can also import multiple devices in batch when there are large amount of devices to be added. After the devices are added to the client, you can realize remote configuration and management of the added devices.

Note

If you want to add the 54-inch splicing screen, after adding, a message will prompt on top of **Device Group** list: The current configuration is only available for the 54-inch LED splicing display unit. If you need to set the normal LED display, delete the added 54-inch LED splicing display unit(s) first.

2.2.1 Add Single or Multiple Online Devices

The client can detect online devices which are in the same network with the PC running the client. You can select a detected online device displayed in the online device list and add it to the client. For detected online devices sharing the same user name and password, you can add them to the

client in batch.

Before You Start

- The device(s) to be added are in the same network with the PC running the client.
- The device(s) to be added have been activated.

Steps

1. Click **Device Management**.
2. Check one or more online device(s) from **Online Device** list, and click **Add to**.

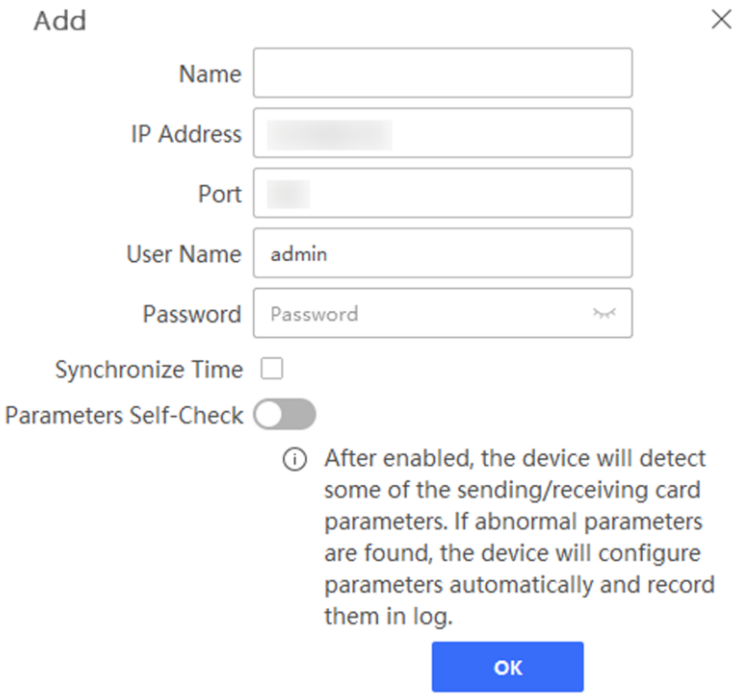

Figure 2-4 Add Online Device

Note

You can judge whether the device(s) can be added to **Device Group** list via the status shown under **Add via OTAP** item. Only the supported device(s) can be added to **Device Group** list.

3. Enter the required information.

Name

Enter a descriptive name for the device.

IP Address

The IP address of the device is obtained automatically in this adding mode.

Port

The port No. of the device is obtained automatically in this adding mode. You can also customize the port No.

User Name

By default, the user name is ***admin***.

Password

Enter the device password.

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.
Proper configuration of all passwords and other security settings is the responsibility of the service provider and/or end-user.

Synchronize Time

Check **Synchronize Time** to synchronize the device time with the PC running the client after adding the device to the client.

4. Click **OK**.

2.2.2 Add Device by IP Address

If you know the IP address or domain name of the device to be added, you can add devices to the client by specifying the IP address, user name, password, etc.

Steps

1. Click **Device Management**.
2. Click **Add** in **Device Group** list.
3. Select **Adding Mode** as **IP Address**.

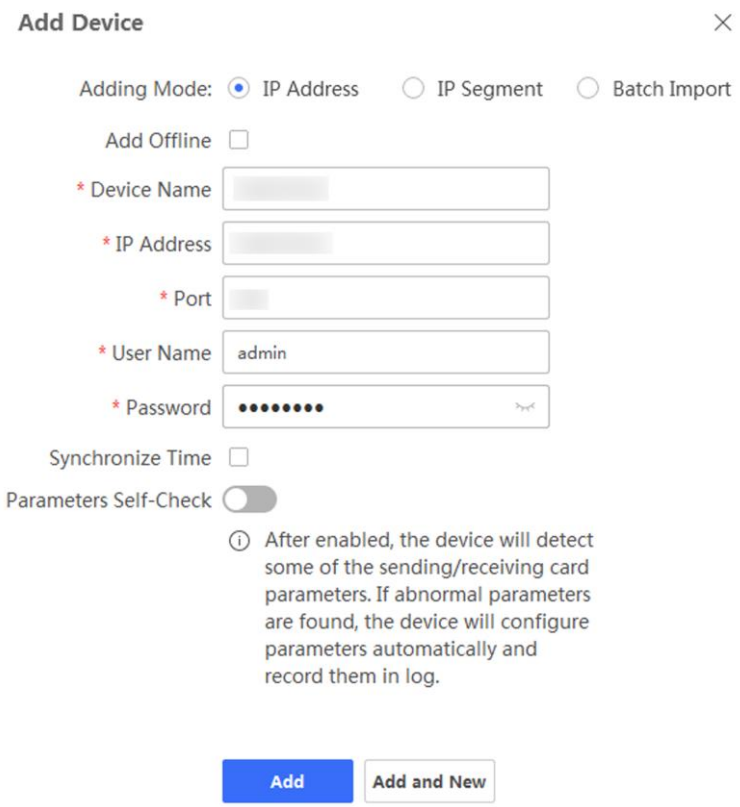

Figure 2-5 Add Device by IP Address

4. Enter the required information.

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.
Proper configuration of all passwords and other security settings is the responsibility of the service provider and/or end-user.

5. Optional: Other operations.

Add Offline	You can check **Add Offline** if you want to add offline device(s). After adding succeeded, the **Network Status** of the device shows **Offline**. When the device is online, the **Network Status** will switch to **Online** automatically, and the client will connect it automatically.

Note

If you do not check **Add Offline**, you cannot add the offline device(s).

Synchronize Time	Check **Synchronize Time** to synchronize the device time with the PC running the client after adding the device to the client.
Parameters Self-Check	If you enable **Parameters Self-Check**, the device will detect some of the sending/receiving card parameters. If abnormal parameters are found, the device will configure parameters automatically and record them in log.

6. Click **Add** to add the device and exit from the interface. Or click **Add and New** to save the settings and continue to add other devices.

2.2.3 Add Device by IP Segment

If the devices share the same port No., user name, and password, and their IP addresses range in the same IP segment, you can add them to the client by specifying the start IP address and the end IP address, port No., user name, password, etc. of the devices.

Steps

1. Click **Device Management**.
2. Click **Add** in **Device Group** list.
3. Select **Adding Mode** as **IP Segment**.

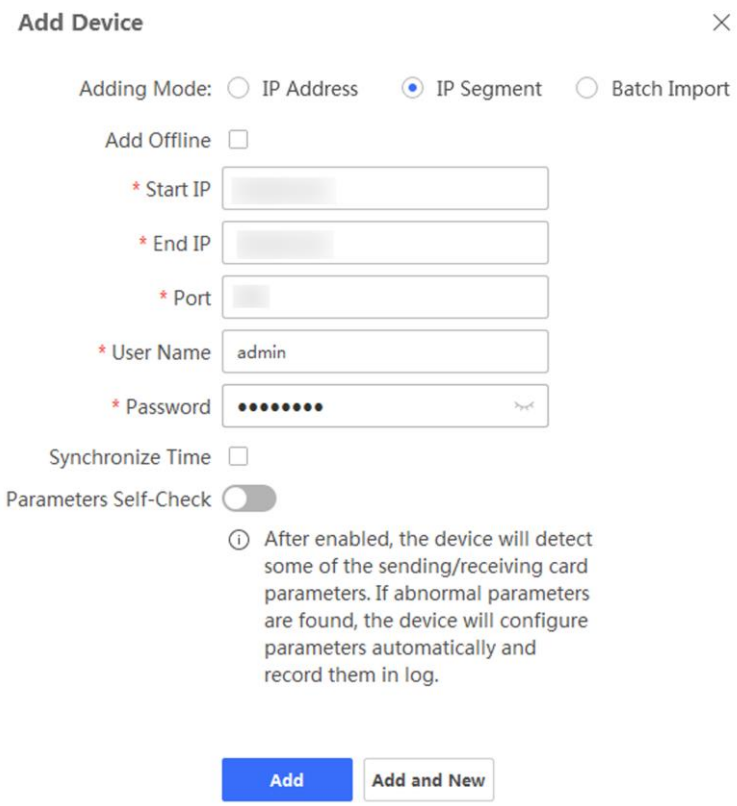

Figure 2-6 Add Device by IP Segment

4. Enter the required information.

Note

- The top three segments of the start and end IP addresses should be same. Up to 255 devices in the same IP segment can be added.
- The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.
- Proper configuration of all passwords and other security settings is the responsibility of the service provider and/or end-user.

5. Optional: Other operations.

Add Offline	You can check **Add Offline** if you want to add offline device(s). After adding succeeded, the **Network Status** of the device shows **Offline**. When the device is online, the **Network Status** will switch to **Online** automatically, and the client will connect it automatically.

Note

If you do not check **Add Offline**, you cannot add the offline device(s).

Synchronize Time	Check **Synchronize Time** to synchronize the device time with the PC running the client after adding the device to the client.
Parameters Self-Check	If you enable **Parameters Self-Check**, the device will detect some of the sending/receiving card parameters. If abnormal parameters are found, the device will configure parameters automatically and record them in log.

6. Click **Add** to add the device and exit from the interface. Or click **Add and New** to save the settings and continue to add other devices.

2.2.4 Import Devices in Batch

You can add multiple devices to the client in batch by entering the device parameters in a pre-defined CSV file.

Steps

1. Click **Device Management**.
2. Click **Add** in **Device Group** list.
3. Select **Adding Mode** as **Batch Import**.

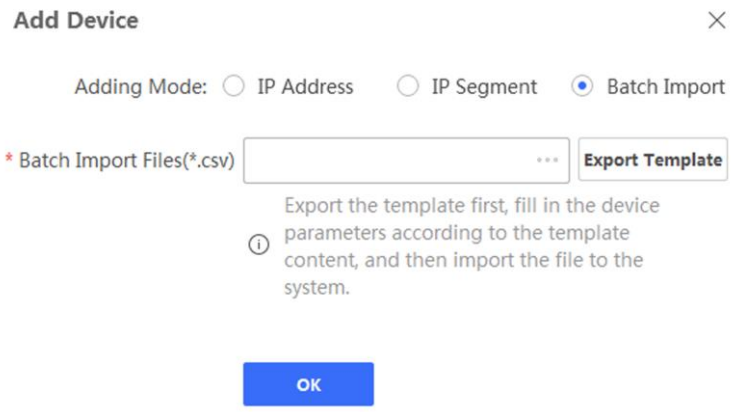

Figure 2-7 Import Devices in Batch

4. Click **Export Template** and save the pre-defined template (CSV file) to your PC.
5. Open the exported template file and enter the required information of the devices to be added on the corresponding column.

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.
Proper configuration of all passwords and other security settings is the responsibility of the service provider and/or end-user.

6. On **Add Device** interface, click ··· and select the edited template file.
7. Click **OK**.

2.3 Import Configuration File

Import the receiving card configuration file.

Before You Start

Get the receiving card configuration file and save it to the PC running the client.

Steps

1. Go to **LED Settings** → **Maintenance** → **System Maintenance** → **Import/Export** → **Import**.
2. Check the device(s) to be set from the device list.
3. Click ··· after **Import Configuration File** to select the configuration file saved in the PC.
4. Click **Import**.
5. Enter **Password**, and click **OK**.

Note

The password is the set password when exporting the configuration file.

2.4 Set Display Attribute

You can set the parameters such as video wall scale, screen resolution, etc.

Steps

1. Go to **LED Settings** → **Screen Control** → **Signal Connection** → **Display Attribute Configuration**.
2. Select the device to be set from the device list.

Figure 2-8 Set Display Attribute

3. Set the display attribute.

Video Wall Scale

Set row(s) and column(s) of the screen according to the actual situation. Each cabinet contains 1 or 2 receiving cards.

Enable Zooming

Check it to enable the signal source zooming. Uncheck it in splicing scenes.

Screen Resolution

Select the appropriate resolution. If there is no appropriate resolution, you can select **Custom Resolution**, and enter **Custom Screen Resolution**. Click **Add Resolution** to add other resolutions. Select **Apply** to apply the added resolutions.

Note

The width of the custom resolution should be a multiple of 4.

4. Click **Save**.

2.5 Set Screen Type

You can load screen type from the cloud or screen, or set screen type by importing the configuration file.

Steps

1. Go to **LED Settings** → **Screen Control** → **Screen Settings**.
2. Check the device(s) to be set from the device list.
3. Select **Configuration Type**.
   - **Load from Cloud**:
     1. Click **Load**. The system will load the screen type automatically.
     2. Select **Screen Type**, or enter the keyword to search and select from the dropdown list.

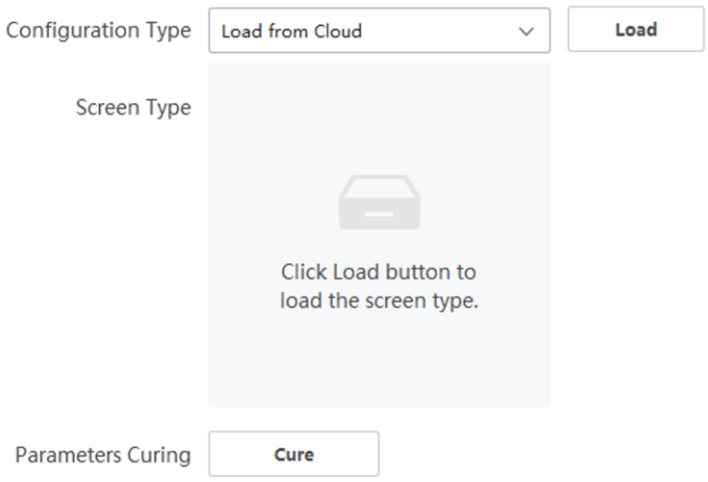

Figure 2-9 Load Screen Type from Cloud

– **Load from Screen**:
Click **Load**. The system will load the screen type automatically.

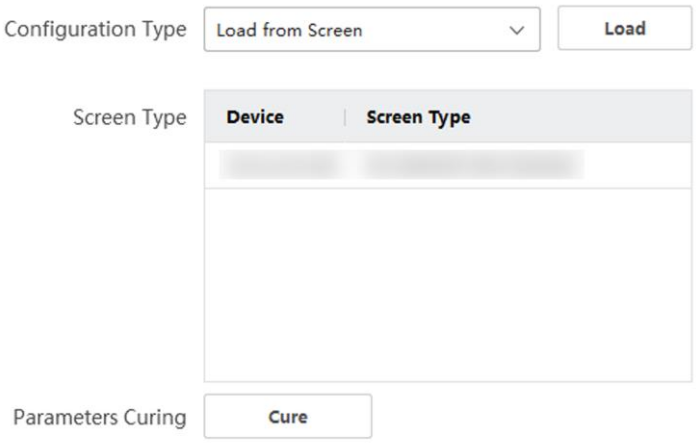

Figure 2-10 Load Screen Type from Screen

– **Import File**:
1. Click ··· to select the configuration file.
2. Click **Import** to import the configuration file.

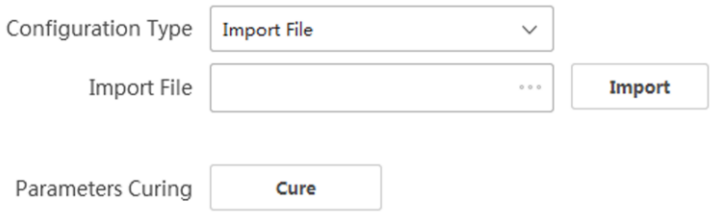

Figure 2-11 Import File

4. Click **Cure** to save the parameters to the receiving card to ensure the screen can display normally after next reboot.

2.6 Set Signal Connection

Set signal line connection according to the actual receiving card connection between LED cabinets.

Steps

Note

After setting the video wall scale, the LED screen will show the signal line connection. The signal connection via the client must match with the actual screen connection.

1. Go to **LED Settings** → **Screen Control** → **Signal Connection** → **Signal Connection**.
2. Select the device to be set from the device list.

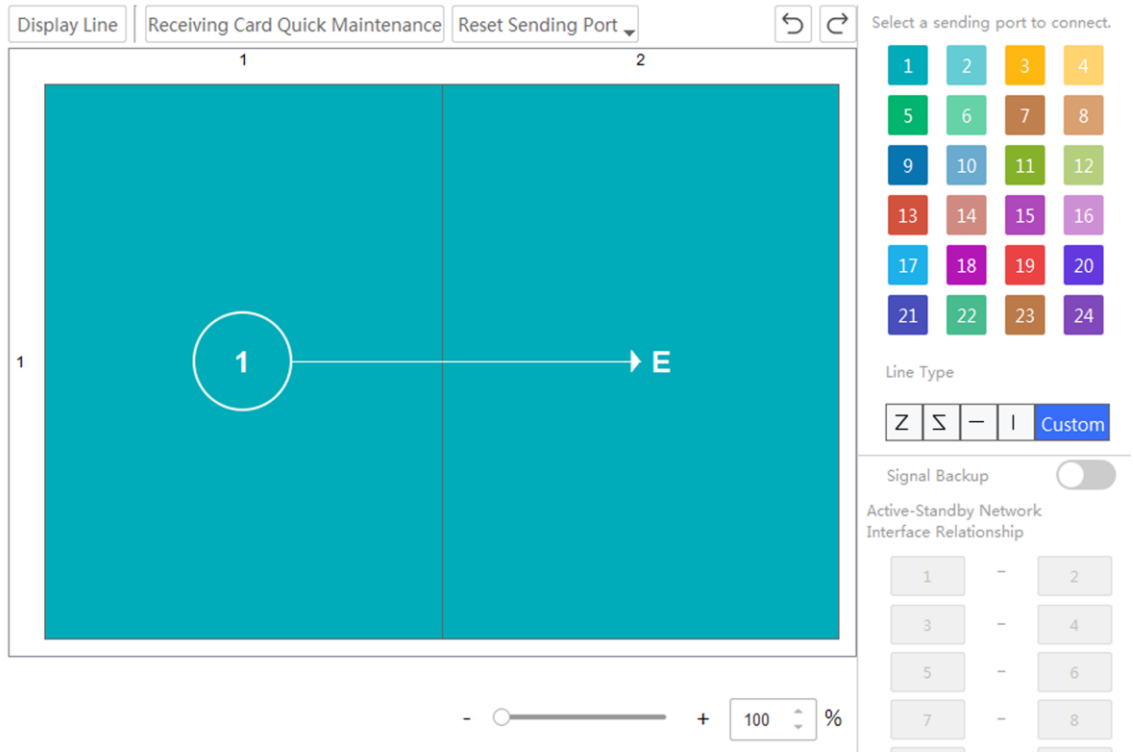

Figure 2-12 Set Signal Connection

3. Click **Display Line**.
   The location prompt of each screen will show on the screen.
4. Select a sending port to connect.

Note

- Connect the signal line according to the location prompt on each screen. If the prompt is **2-1**, the screen is the first screen to connect to No. 2 sending port.
- Signal line connection should be the same as the actual screen connection.

5. Connect signal cables.

- Click the screen on the right side of the interface to connect signal lines.
- Select **Line Type**, and select the start port and end port.

6. Optional: Other operations.

Display/Hide Line	Click the button to display/hide the connection lines shown on the screen.
Receiving Card Quick Maintenance	Click the button to enter **Receiving Card Quick Maintenance** interface. You can copy the configuration of the referenced receiving card to the new receiving card, or export the program or configuration file of the referenced receiving card and import it to the other receiving cards of the current screen or to the receiving cards in other projects.
Reset Sending Port	Click **Reset Sending Port**, and select the operation. ● Click **Reset Current Sending Port** to clear all the configuration of the current signal sending port. ● Click **Reset All Sending Ports** to clear all the configuration of all the signal sending ports.
	Cancel the last operation.
	Restore the last operation.
Signal Backup	Enable **Signal Backup** to enable dual-channel signal inputs to ensure signal stability. **Note** If the function is enabled, the relationship between the active and standby network interfaces should be the same as **Active-Standby Network Interface Relationship** shown on the client.

7. Click **Save**.

Chapter 3 System Introduction

3.1 Home

When sending card configuration is completed, the device will show system home. Introduction to the software on the home is shown as follows.

- **Wireless Sharing**: Enables devices including PCs and mobile phones to mirror screen via miracast or screen mirroring code. For more details, see ***Help***.
- **File Management**: Stores files including images, audios, and videos.
- **Help**: Includes guide to the remote control, device interfaces, and screen mirroring.
- **Windows**: Switches the device to Windows operating system.
- **More Apps**: Includes WPS Office, Transcreen, Welcome, Browser, Whiteboard, and Settings.

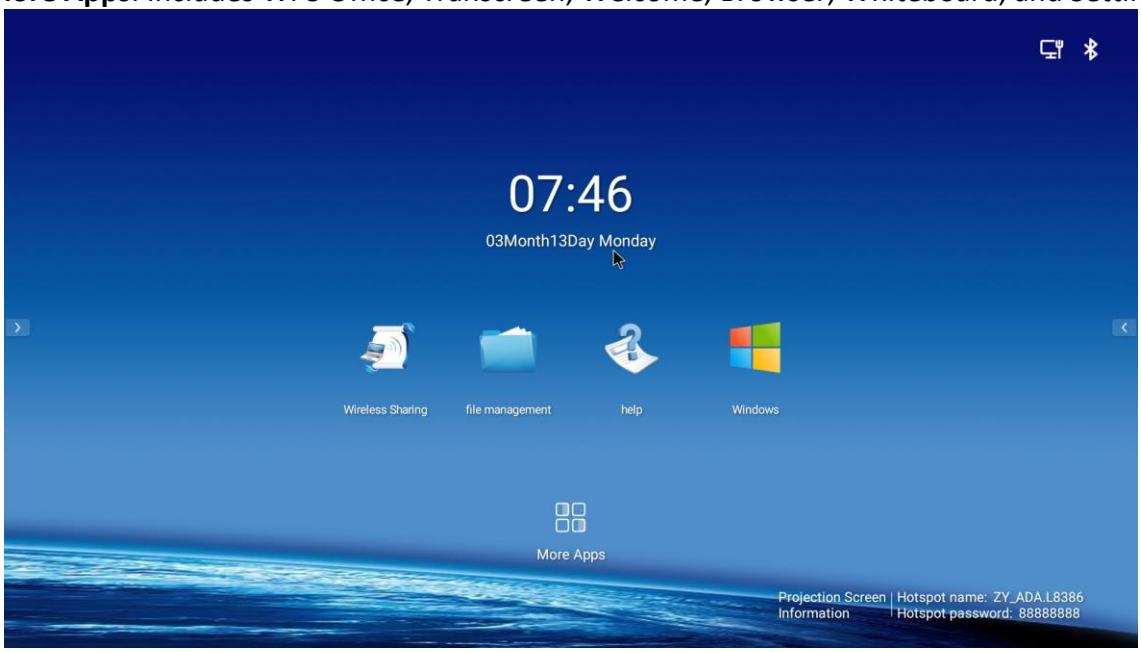

Figure 3-1 Home

3.2 Wireless Sharing

The device supports various methods to mirror screen. Choose one according to actual situation and your demands.

Click **Wireless Sharing**. Follow the guide on this page to mirror screen.

Figure 3-2 Wireless Sharing

3.3 Network

Click **Settings** → **Network**. Set up wired network, wireless network, hotspot, and Bluetooth.

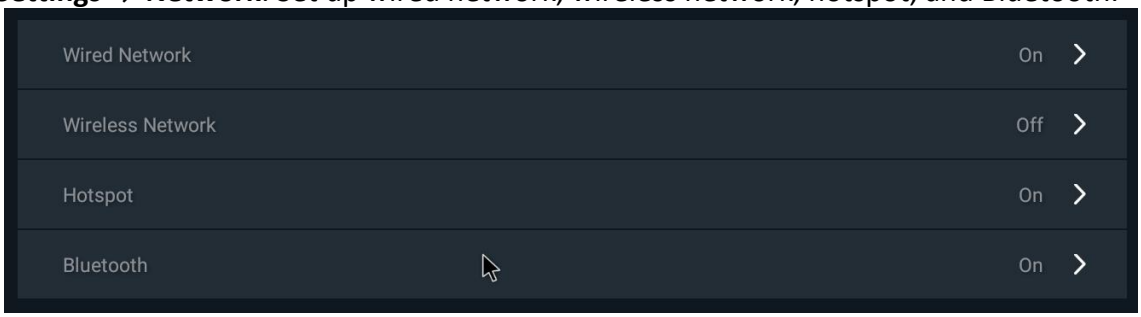

Figure 3-3 Network Settings

Note

Wired network and wireless network cannot be enabled at the same time.

3.3.1 Wired Network

Wired network can be enabled when the device is connected to a network cable. If wired network is enabled, you can configure following parameters manually or automatically. These parameters cannot be edited in automatic mode.

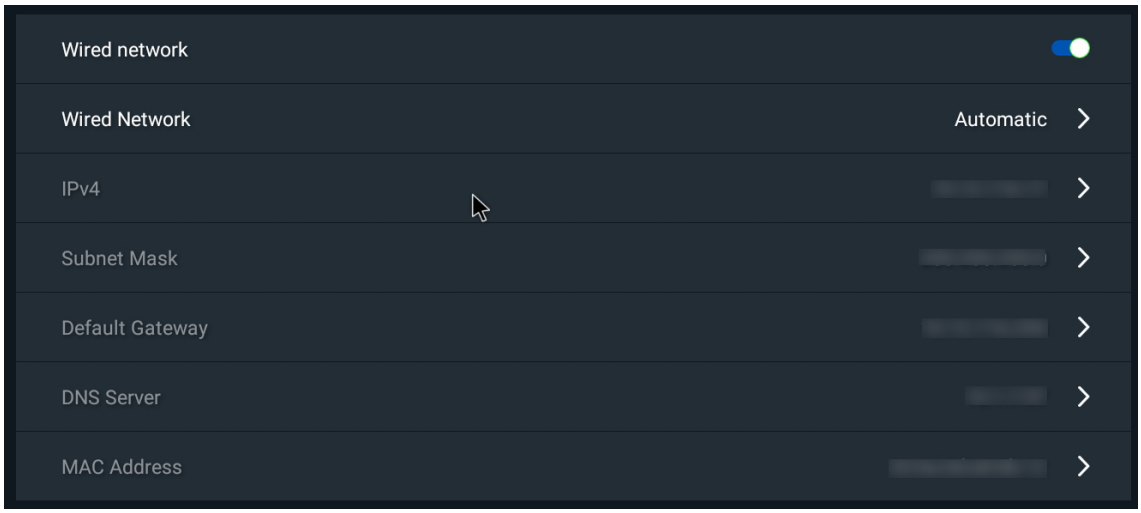

Figure 3-4 Wired Network

3.3.2 Wireless Network

The device can also be connected to network via Wi-Fi.

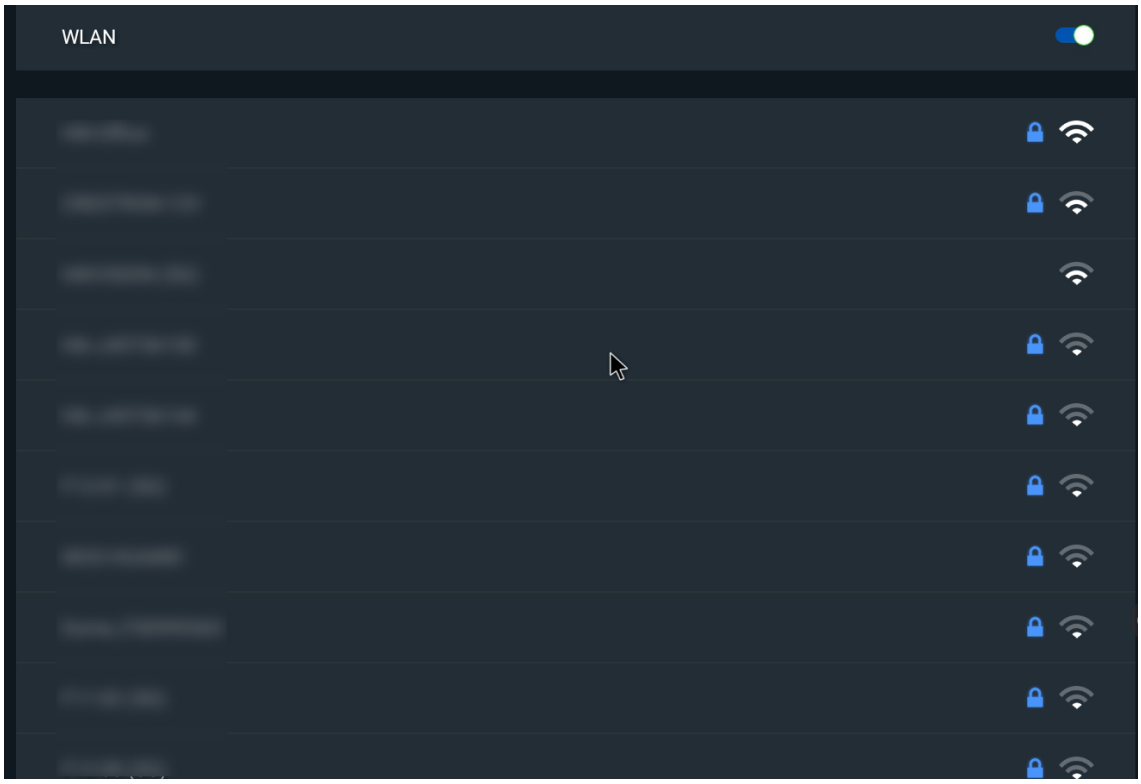

Figure 3-5 Wireless Network

Note

Wireless network will be disabled when hotspot is enabled.

3.3.3 Hotspot

When wired network is enabled, the device can be served as a hotspot.

- Default Hotspot Name: ZY_ADA.L8386
- Default Password: 88888888

Hotspot parameters can be edited.

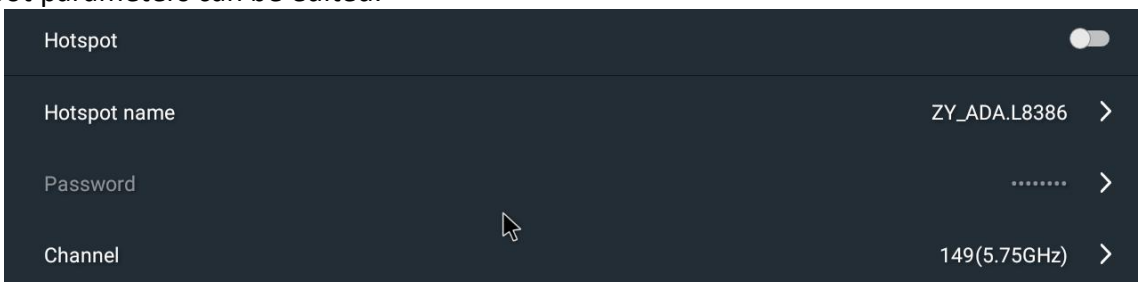

Figure 3-6 Hotspot

Note

Wireless network will be disabled when hotspot is enabled.

3.3.4 Bluetooth

When the Bluetooth is enabled, the device can be paired to a Bluetooth speaker for audio output.

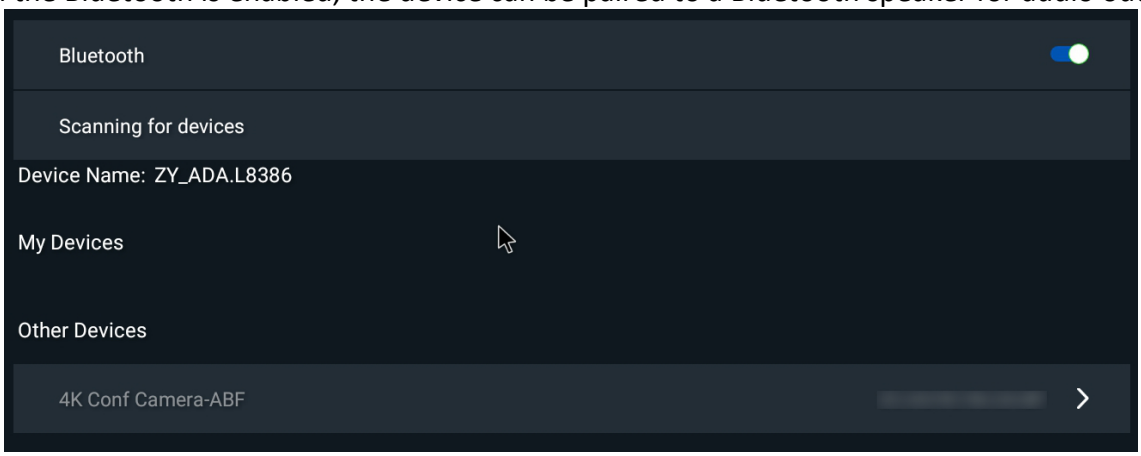

Figure 3-7 Bluetooth

3.4 Picture

Click **Settings** → **Picture**. Configure display effects.

- Supports four modes: Standard Mode, Soft Mode, Movie Mode, and Conference Mode. Each mode has default parameters which can also be edited. Click **Reset** to reset the parameters of the current mode to the default values.
- Blue light from the screen will be decreased if **Eye Protection** is enabled.

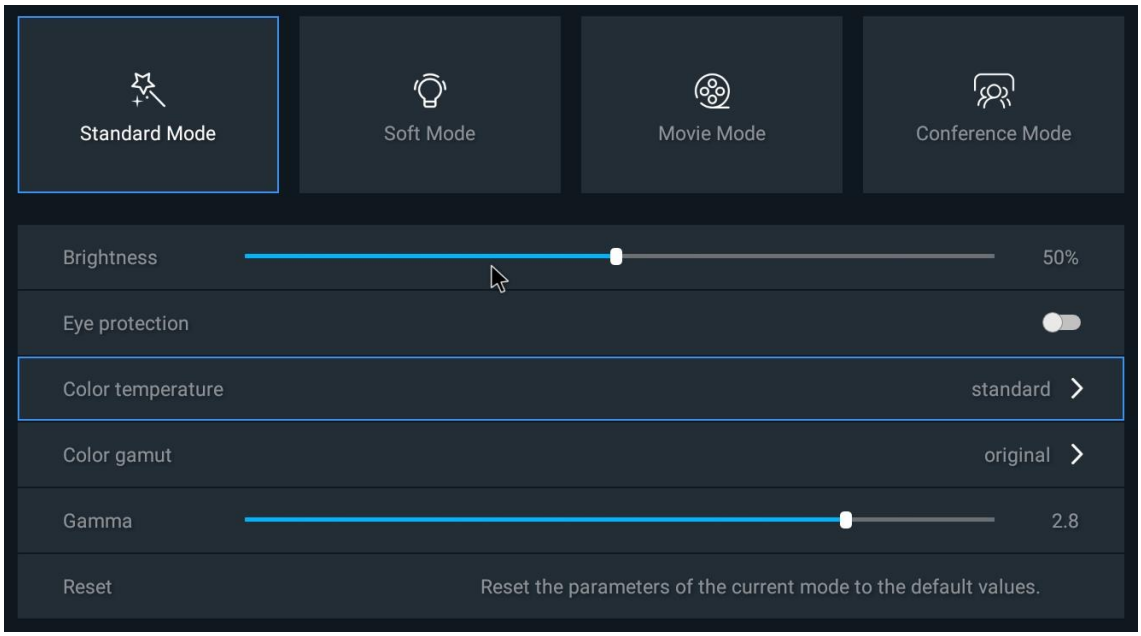

Figure 3-8 Picture

3.5 Sound

Click **Settings** → **Sound**. Configure sound parameters.

- System Sound: If enabled, device volume can be adjusted; if disabled, the device is muted.
- Optical Fiber Output: If enabled, device sound will be output to the connected speaker via optical fiber.

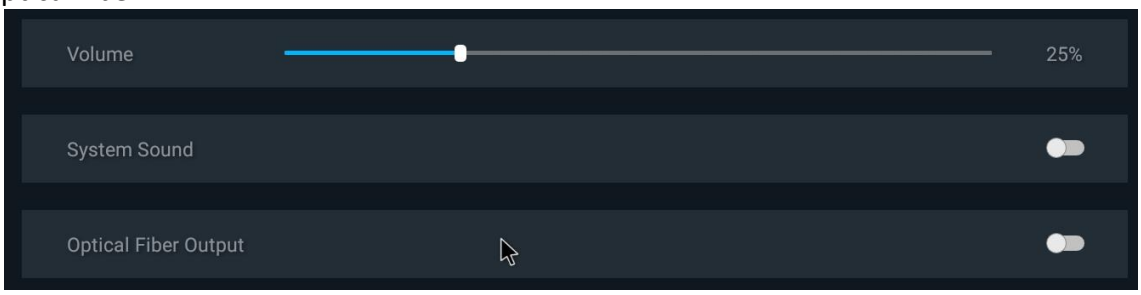

Figure 3-9 Sound

3.6 General

Click **Settings** → **General**. Configure signal, date and time, language and keyboard, and wallpaper, or manage Apps on the device.

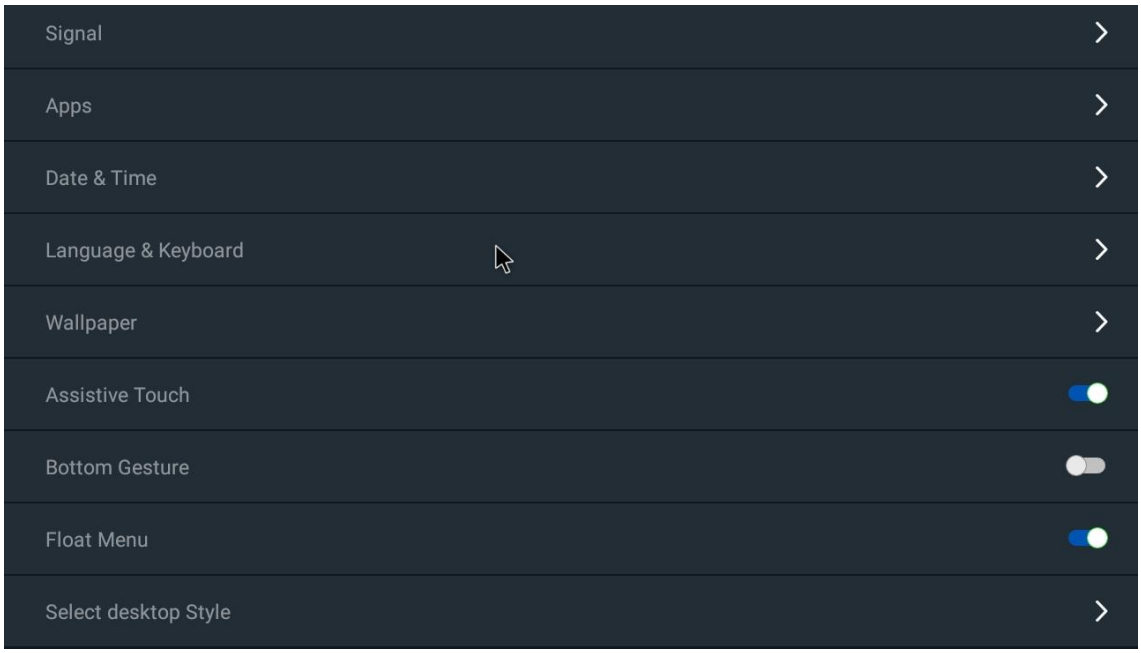

Figure 3-10 General Settings

3.6.1 Signal

- Remember Signal: Select system signal input.
  - Last Used: Signal input used last.
  - Home: Android signal input.
  - OPS: Windows signal input.
  - HDMI2: HDMI signal input.
- Aspect Ratio: Set the aspect ratio of OPS or HDMI2 signal input as Auto Fit, 16:9, 4:3, or Pixel to Pixel.
- EDID Version: Select the EDID version as Version 1.4 or 2.0 to match resolution and frame rate

input.

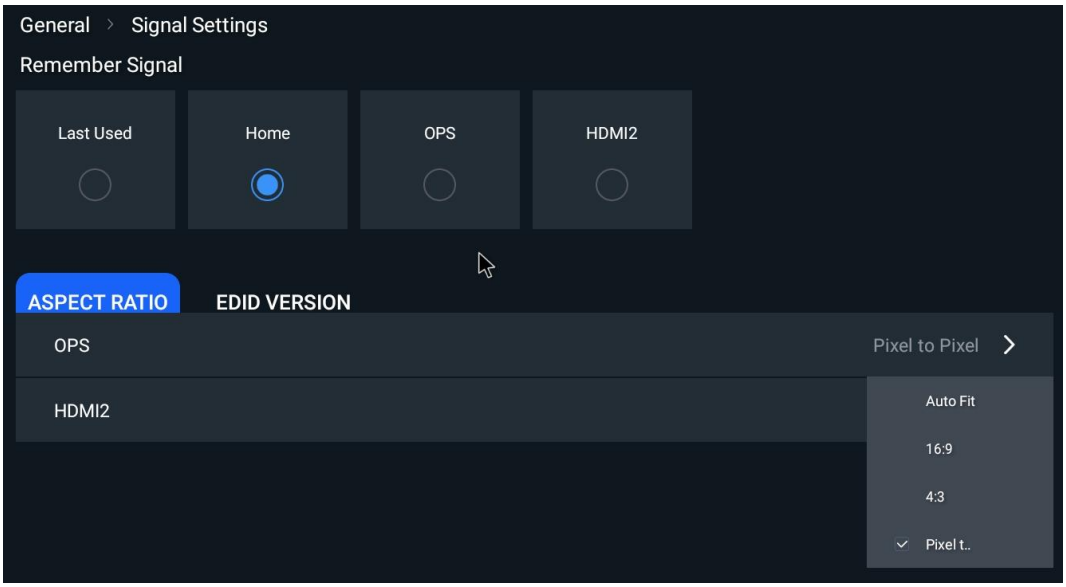

Figure 3-11 Signal Settings

3.6.2 Apps

Select an application to see more details and for more operations: forcefully stop, open, uninstall, or remove data.

3.6.3 Date & Time

Enable **Set Automatically** to synchronize system time automatically. Or disable the function to set **Date**, **Time**, and **Time Zone** manually. You can also enable **24-Hour Time** and set **Data Format**.

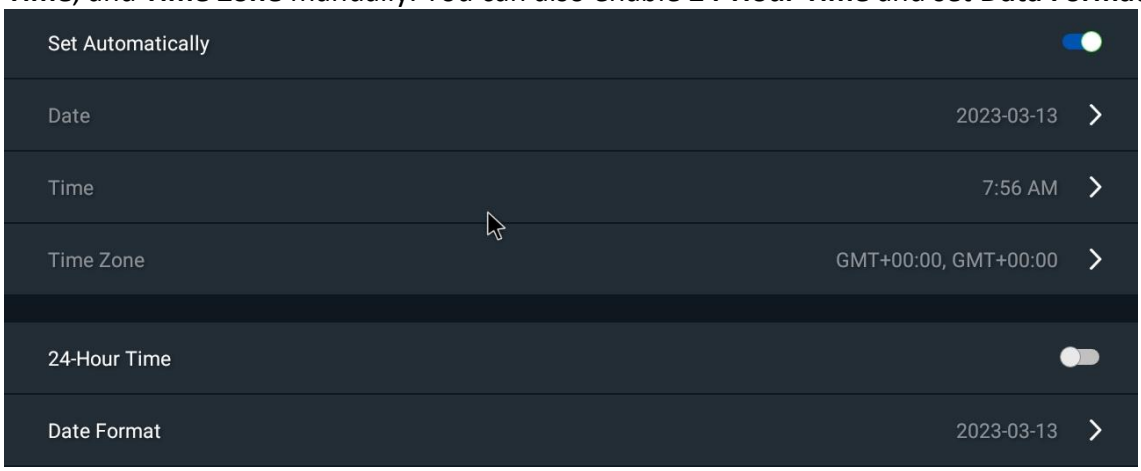

Figure 3-12 Date & Time

3.6.4 Language & Keyboard

You can select system language.

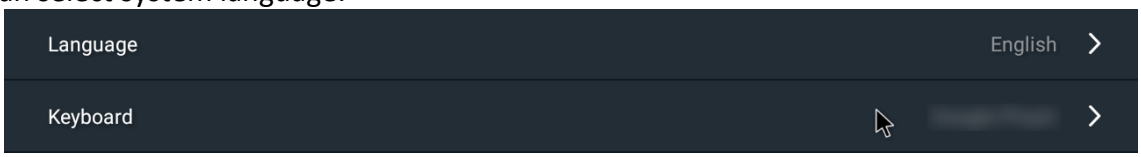

Figure 3-13 Language & Keyboard

3.6.5 Wallpaper

Select system wallpaper or custom wallpaper.

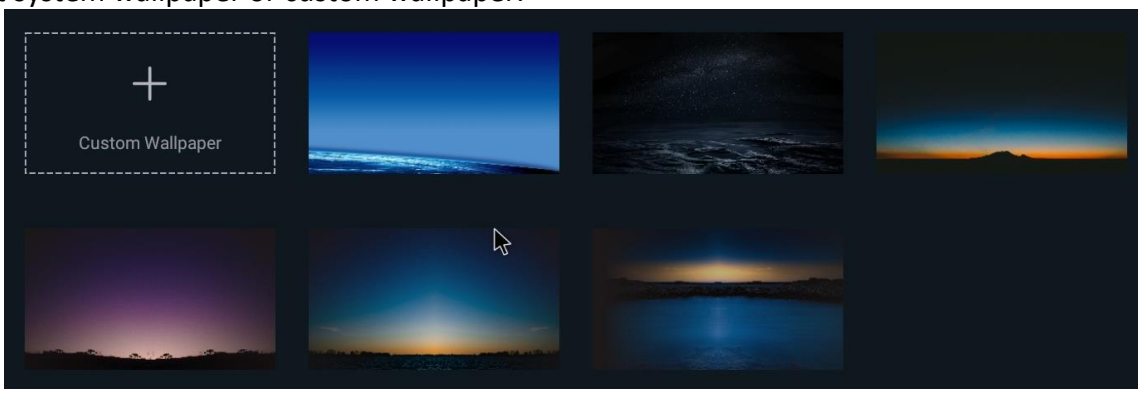

Figure 3-14 Wallpaper

3.6.6 Assistive Touch

When enabled, click or on either side of the screen to use Assistive Touch.

Table 3-1 Assistive Touch Description

Icon	Description	Icon	Description
	Return to the previous page, or exit current application.		Set up Picture.
	Return to home.		Set up signal, snap screenshots, or see screen mirroring guide.
	Open whiteboard.	-	-

3.6.7 Bottom Gesture

When enabled, swipe up from the bottom of the screen to go back to home.

3.6.8 Float Menu

When enabled, float buttons will appear on the screen.

Table 3-2 Float Menu Description

Icon	Description	Icon	Description
	Back to the previous page, or exit current application.		Enter menu settings.
	Open Whiteboard.		Enter system settings.
	Switch to Windows OS.		Back to home.

3.6.9 Select Desktop Style

Set up desktop style, i.e. system theme.

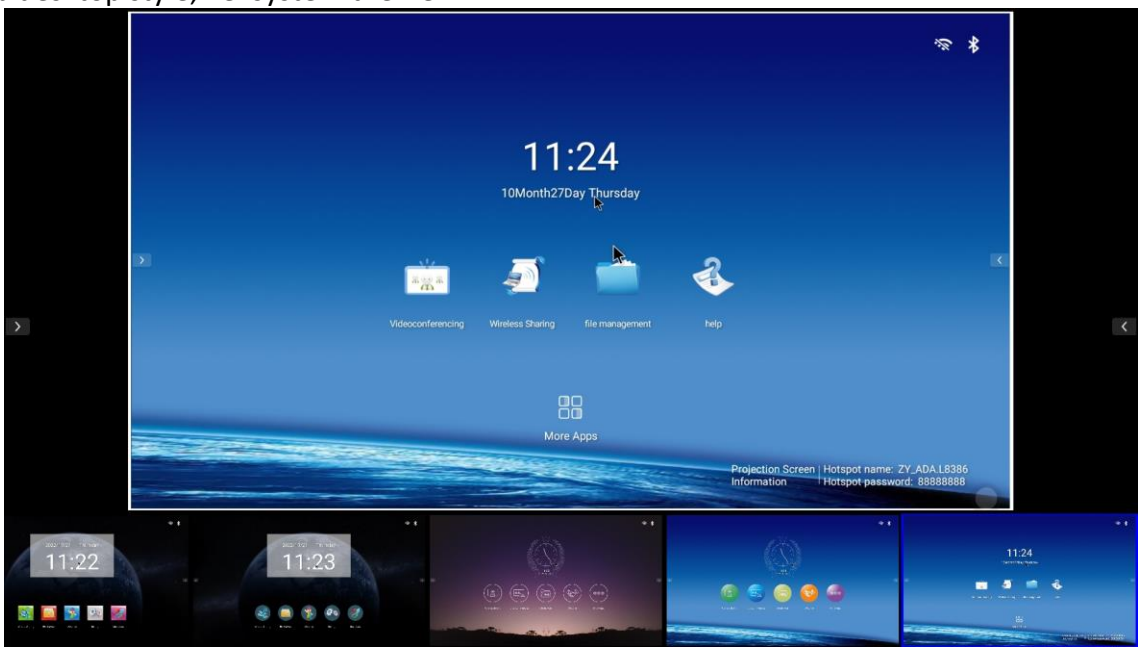

Figure 3-15 Desktop Style

3.7 System

Click **Settings** → **System**. Set up scheduled startup and shutdown, reset the system to factory

default or upgrade the system, and see more details about the device.

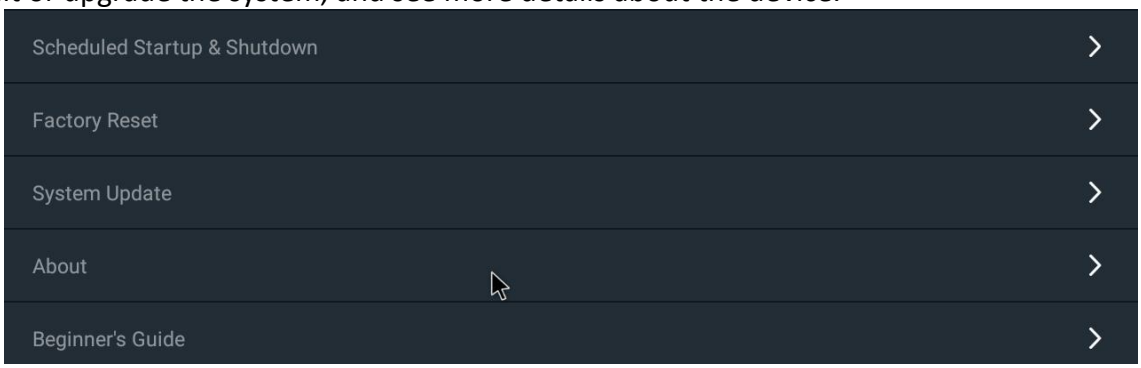

Figure 3-16 System Settings

3.6.1 Schedule Startup and Shutdown

Enable **Schedule Startup** and **Schedule Shutdown**, and set up time. The device will start up and shut down at the scheduled time.

Figure 3-17 Schedule Startup and Shutdown

3.6.2 Reset to Factory Settings

You can reset the device to factory default settings and clear all data from local storage.

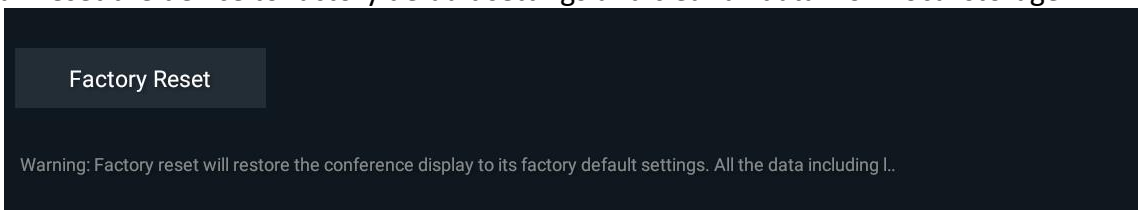

Figure 3-18 Schedule Startup and Shutdown

3.6.3 System Upgrade

Upgrade system via the packages saved in a USB flash drive or local file folder.

Note

- The upgrade package must be saved in the root directory of the local storage or the connected USB flash drive.
- Package name of a bin file must be: Ada8386Upgrade.bin, and package name of a zip file must be: upgrade_signed.zip.

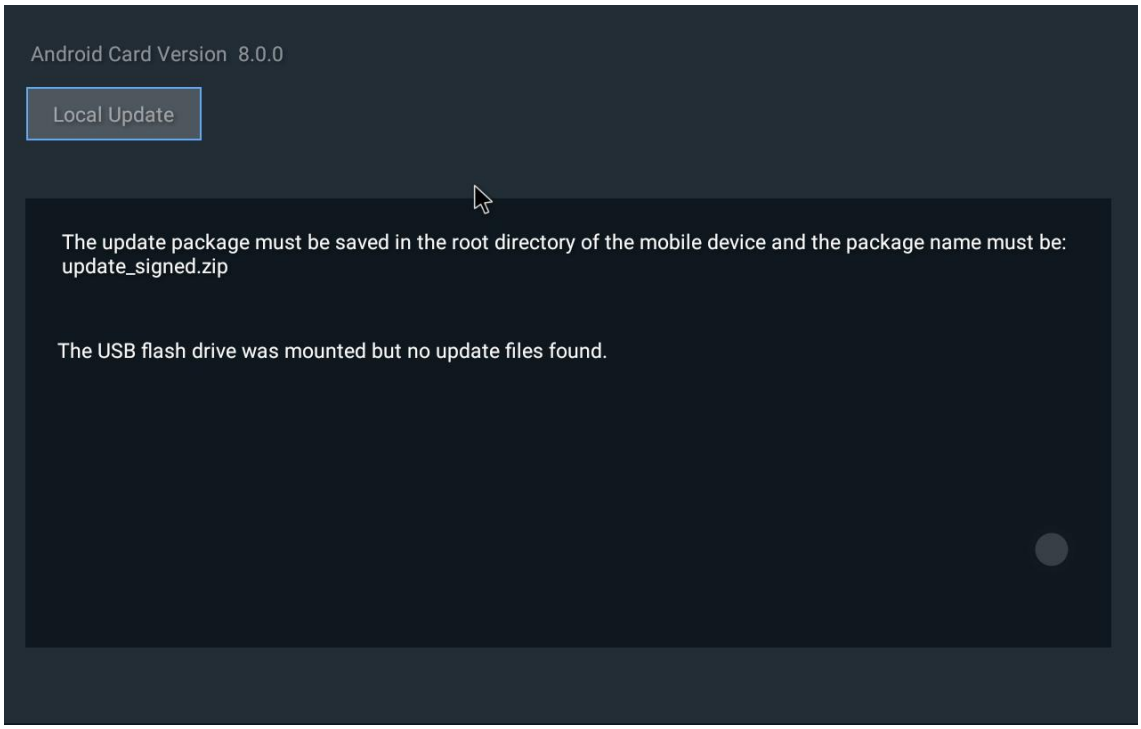

Figure 3-19 System Upgrade

3.6.4 About

See device name, Android card version, system release time, memory, storage, and system version. Device name can be edited.

3.6.5 Beginner's Guide

See the guide to remote control, device interfaces, and screen mirroring.

Chapter 4 Remote Control

The device is equipped with an infrared remote controller, which can be paired with via Bluetooth. In infrared mode, aim the remote controller at the power button at the bottom right of the device to use.

Table 4-1 Remote Control Description

Remote Control	Button	Description
		Start up/Shut down
		Start screen mirroring
		Press to enable volume adjustment and press the left/right button to adjust volume
		Mute/unmute and reset to the volume last used
		Press: Switch signal Hold: Open Beginner's Guide
	OK	OK
		Return to the previous page or exit current application
		Open menu
		Press: Back to home Hold: Shut down all applications
	#	Bluetooth mode: Delete Infrared mode: Enter "#"
	*/.	Enter "*" or "."

Note

Press and at the same time to pair via Bluetooth.

A. Communication Matrix and Device Command

Scan the QR code below to get the communication matrix of the device.

Scan the QR code below to get the device command.

See Far, Go Further