



LED Controller  
User Manual

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## Preface

### Applicable Models

This manual is applicable to the LED controllers of C series, V series, and P series.

### Default Parameters

Type	Default Parameter
LED Controller (C series, V series, and P series)	<ul style="list-style-type: none"> <li>● Login user name: admin</li> <li>● IP address: 192.0.0.64</li> </ul>

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### Caution

To improve system security, it is highly recommended to change password regularly. In order to protect your privacy and corporate data and avoid network security issues, it is recommended to set strong password that meets security requirements.

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### Symbol Conventions

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

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

## Safety Instructions

### **Caution**

In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.

### **Note**

- Provide a surge suppressor at the inlet opening of the device under special conditions such as the mountain top, iron tower, and forest.
- + identifies the positive terminals of the device which is used with, or generates direct current, and - identifies the negative terminals of the device which is used with, or generates direct current.
- The serial port of the device is used for debugging only.
- The interface varies with the models. Please refer to the product datasheet for details.

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# Chapter 1 Introduction

## 1.1 Overview

The LED controller (hereinafter referred to as the device) controls the full-color LED display (hereinafter referred to as the display or screen) and is suitable for various occasions such as meeting rooms, broadcasting studios, stadiums, airports, stations, banks, advertising locations, and home theaters. After connecting the screens, the device can efficiently manage and control the screens and seamlessly splice the screens.

## 1.2 First-Time Configuration Process

The devices of C, V, and P series support web page and OSD page, and the P devices also support GUI page. This document mainly introduces the device configuration via web page.

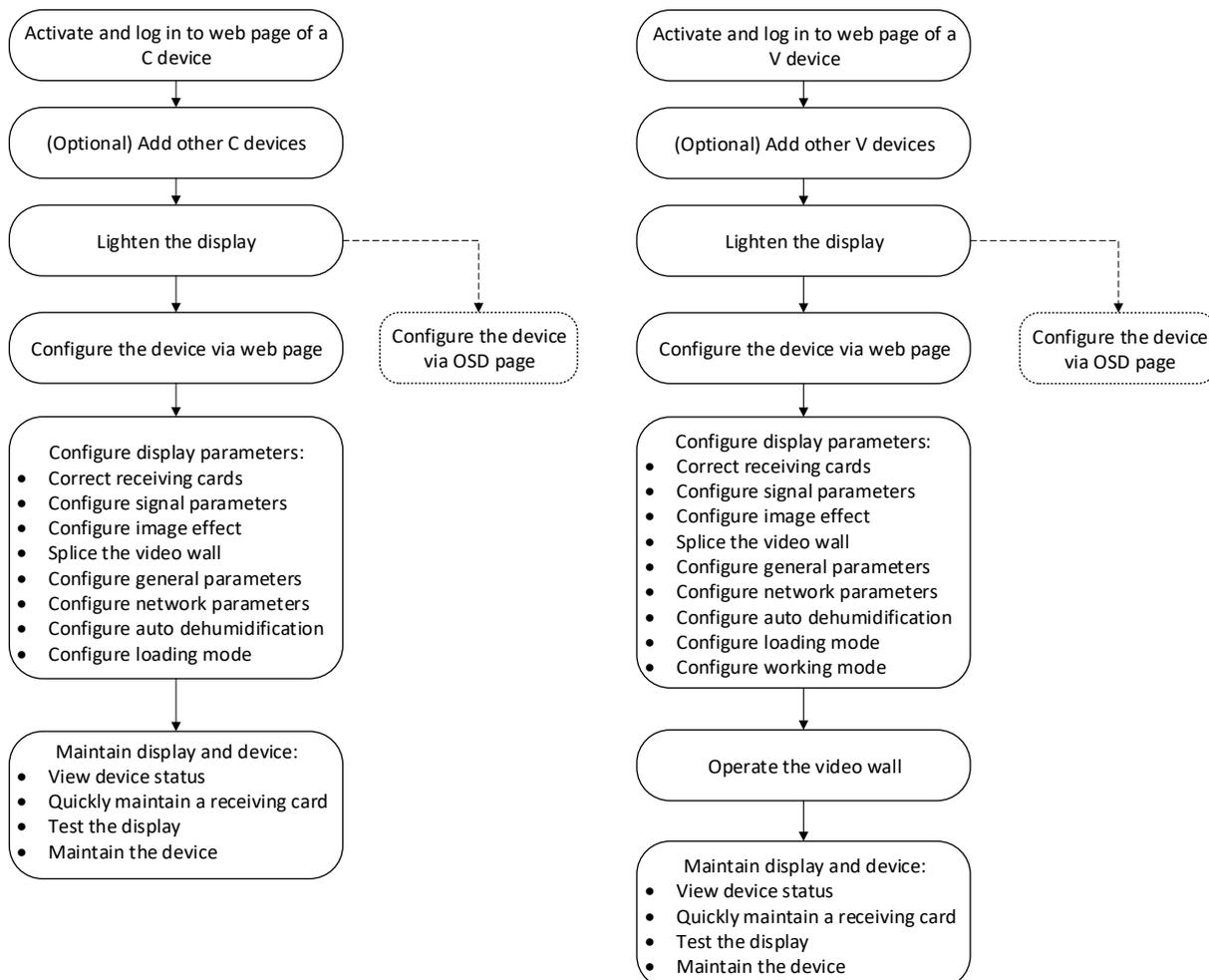


Figure 1-1 First-Time C/V Device Configuration Process

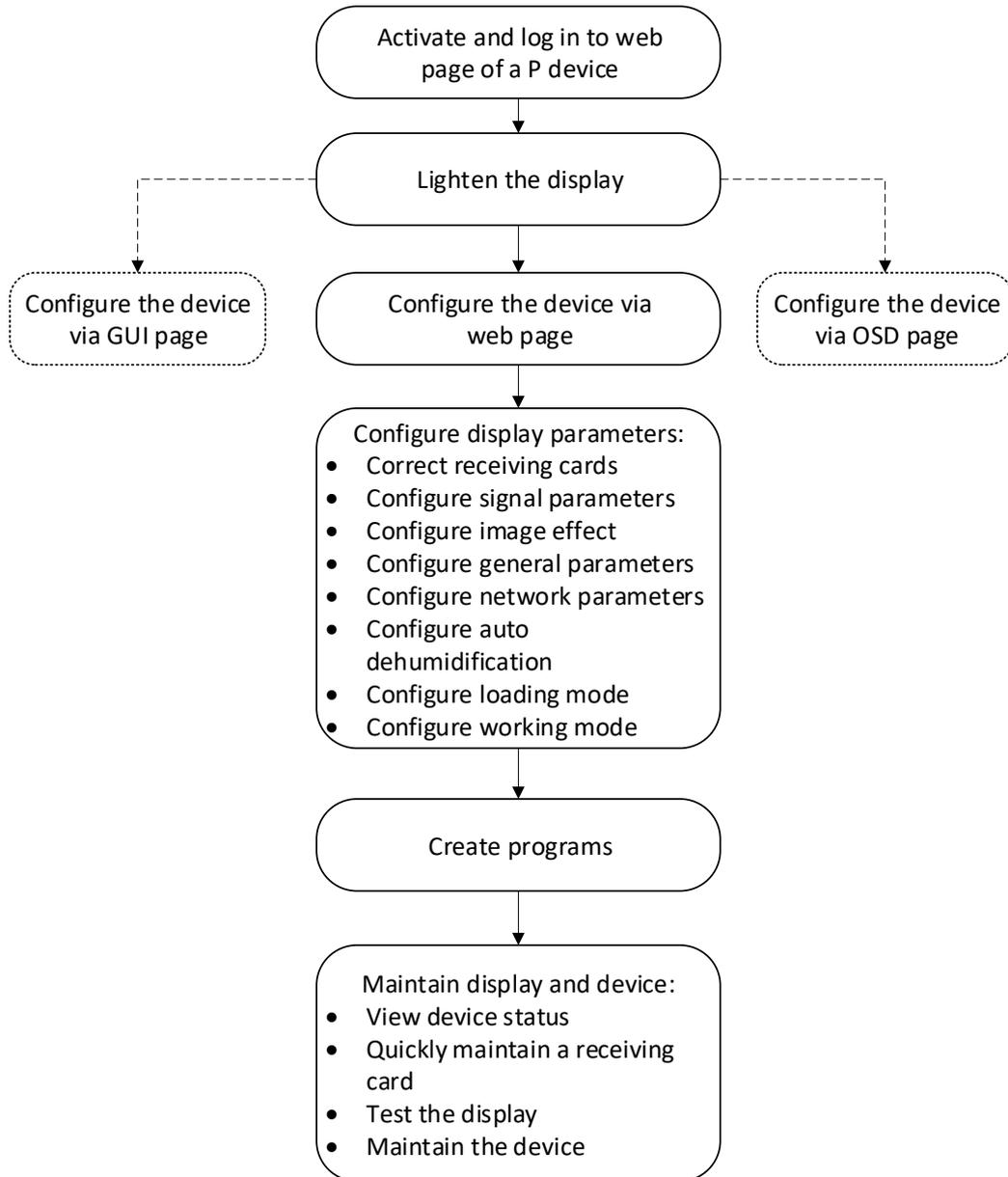


Figure 1-2 First-Time P Device Configuration Process

### 1.3 Device Function Comparison (Web Page)

The supported functions vary by the device series.

Table 1-1 Device Functions

Function on Web Page	Device Series		
	C	V	P
Overview	√	√	√
Device List	√	√	

Function on Web Page			Device Series			
			C	V	P	
Screen Lightening Configuration			√	√	√	
Video Wall Configuration			√			
Video Wall Operation				√		
Playing Control					√	
Screen Maintenance	LED Controller Status		√	√	√	
	Receiving Card Quick Maintenance					
	Screen Test					
Configuration	System	Basic Information	√	√	√	
		Time Settings	√	√	√	
	Network	Network Settings	Wi-Fi			√
			Bluetooth			√
			Hot Spot			√
			TCP/IP	√	√	√
		Device Access	OTAP			√
			Cloud Service			√
	Signal Configuration		√	√	√	
	Display Effect		√	√	√	
	Customization	Startup Image		√	√	√
		No Signal Image		√	√	√
		Font Settings			√	
	Environment and Alarm			√	√	√
	Hot Spare Configuration	LED Controller Hot Spare		√	√	
		Data Port Backup		√	√	√
Dehumidification			√	√	√	
Loading Mode			√	√	√	

Function on Web Page		Device Series			
		C	V	P	
	Working Mode			√	√
	Splicing by LED Controller			√	
	Storage Management				√
	Schedule	Timed Screen On/Off	√	√	√
		Timed Brightness Adjustment	√	√	√
	Receiving Card Correction		√	√	√
Maintenance and Security	System Maintenance	Restart	√	√	√
		Upgrade			
		Backup and Reset			
		Log			
		Device Debugging			
		Permission Management			

## Chapter 2 Prerequisite Configuration

### 2.1 Activate and Log In to the Device

You should activate the device before using the device for the first time. When activating the device, obey the following requirements to set the password:

- To improve system security, it is highly recommended to change password regularly. In order to protect your privacy and corporate data and avoid network security issues, it is recommended to set strong password that meets security requirements.
- Password should contain 8 to 16 characters and at least 2 of the following types: digits, lowercase letters, uppercase letters, and special characters.
- Password cannot contain user name, 123, admin, 4 or more continuously ascending or descending digits, or 4 or more consecutive repeated characters.
- The password cannot be 1qaz2wsx, 1qaz@WSX, !@#\$QWER, p@ssword, passw0rd, or p@ssw0rd.

#### Activate the Device via SADP Client

Step 1 Connect the device and computer to the same LAN. Make sure the device and computer in the same network segment.

Step 2 Download and install the [SADP client](#) on the computer.

Step 3 Open the SADP client.

Step 4 Select the device that is not activated, enter the activation password and confirm it, and click **Activate**.

If the device cannot be found, you can restart the SADP client.

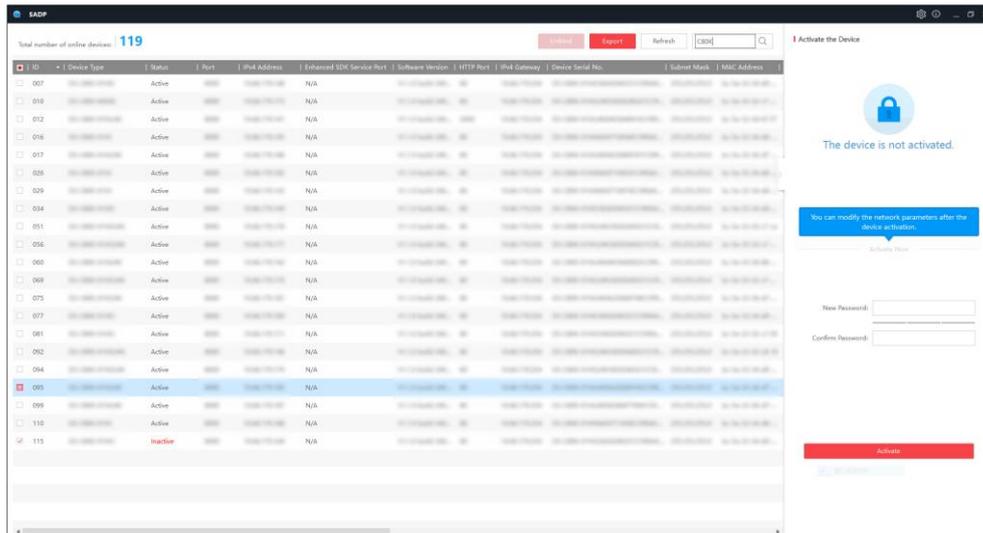


Figure 2-1 Activate the Device via SADP Client

Step 5 View the device IP address in the SADP client and enter the device IP address in the computer browser.

Step 6 Enter the user name and the set activation password, and then click **Log In**.



Figure 2-2 Login Page

Step 7 (Optional) To edit the password, you can click the username in the upper right corner of the web page and then click **Change Password**.

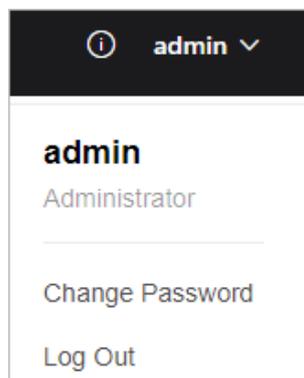


Figure 2-3 Change Password

## Activate the Device via Web Browser

### Note

- Supports only Chrome, Edge, Firefox, and Safari browsers. The Internet Explorer browser is not supported.
- Make sure the computer and device are in the same subnet.
- For the C or V devices, activate and log in to any one C or V device and then add other devices of the same series for activation and management through the logged in device.

Step 1 Use a network cable to connect a computer to the device.

Step 2 Set the computer IP address to any IP address in the range of 192.0.0.2 to 192.0.0.253 (excluding 192.0.0.64) and set the computer gateway address to 192.0.0.1.

By default, the device IP address is 192.0.0.64 and the gateway address is 192.0.0.1.

Step 3 Enter 192.0.0.64 in the computer browser to enter the device activation page.

Step 4 Set the activation password, and then click **Activate**.

Step 5 Enter the user name and the set activation password on the login page, and then click **Log In**.

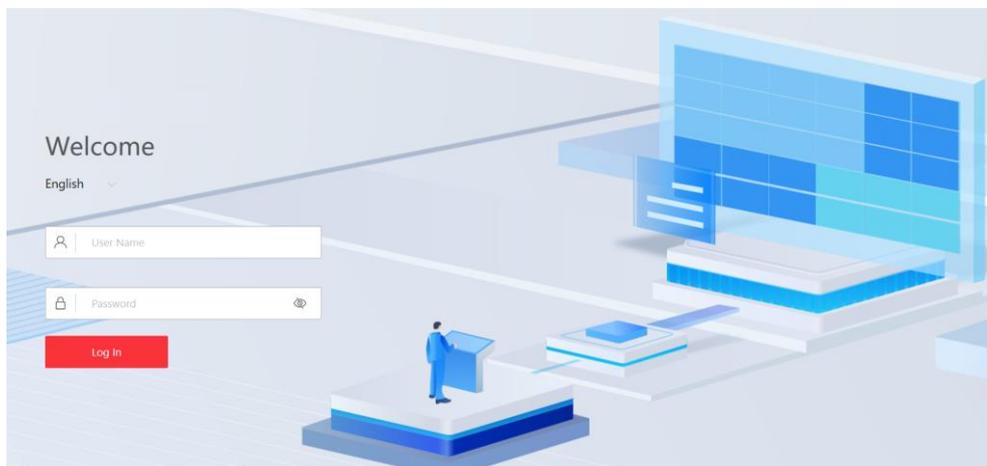


Figure 2-4 Login Page

Step 6 (Optional) To edit the password, you can click the user name in the upper right corner of the web page and then click **Change Password**.

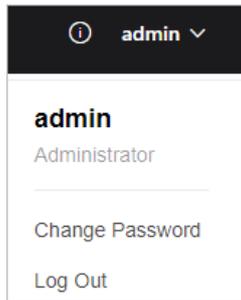


Figure 2-5 Change Password

Step 7 Remove the network cable that connects the device and computer, use the network cable to connect the device to the on-site network, and connect the computer to the on-site network through network cable or Wi-Fi.

After joining the on-site network, the device will be assigned with a new IP address automatically.

Step 8 Enter the new IP address of device in the web browser of the computer to log in to the web page of the device.

## 2.2 Add Cascading Devices

### Note

Only C and V devices support cascading.

Step 1 Use network cables to connect other devices of the same series to the same on-site network as the first device. Make sure those devices are in the same subnet.

Step 2 Go to **Device List**.

Step 3 Expand the searched device list and then activate the searched devices.

- 1) Select the unactivated devices, and then click **Activate**.
- 2) Enter the device login password and confirm password, and then click **Save**.

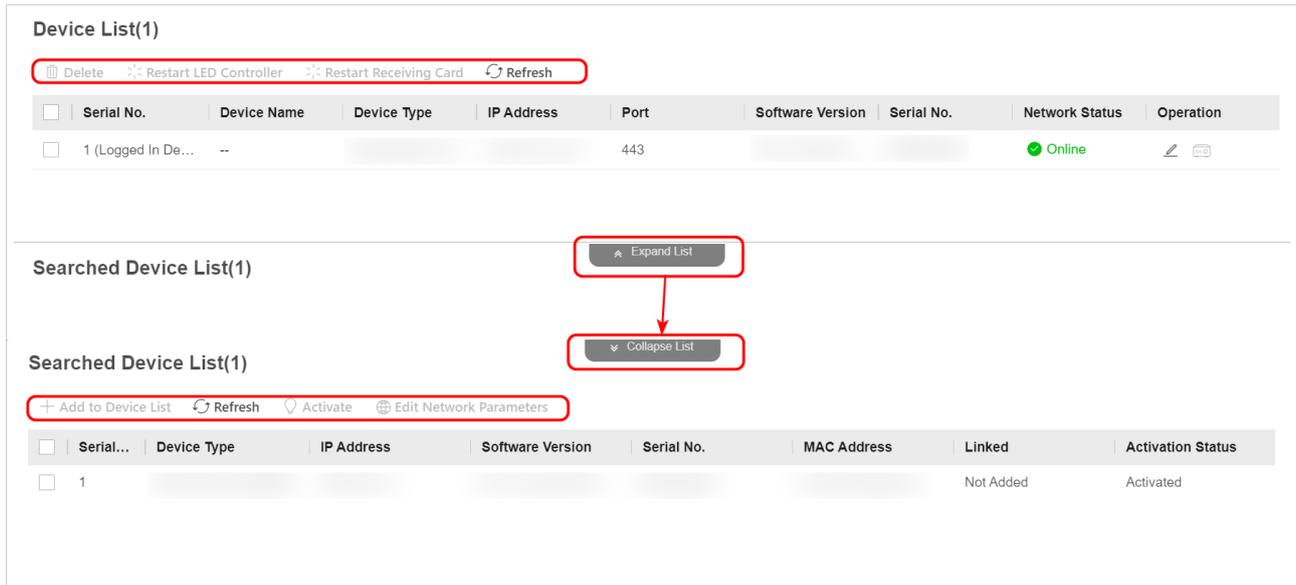


Figure 2-6 Device List Page

Step 4 Select one or multiple activated devices and then click **Add to Device List**. Then you can manage the newly added devices.

To batch add multiple activated devices, make sure the usernames and passwords of those devices are the same.

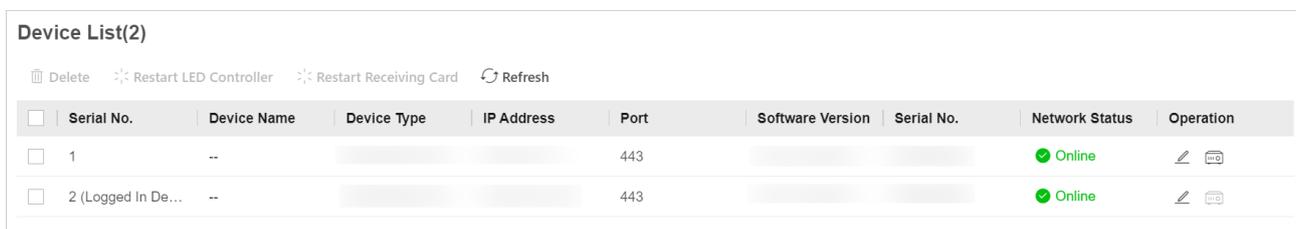


Figure 2-7 Manage Added Devices

Step 5 (Optional) You can perform the following operations as required:

- Select one or multiple activated devices and then click **Edit Network Parameters**.
- Click **Refresh** to refresh the device list or searched device list.
- Select one or multiple online devices and then click **Restart LED Controller**.
- Select one or multiple online devices and then click **Restart Receiving Card**.
- Click  of an online device to edit its device parameters. If you enable **Sync Device Time**, the device time will be synchronized with the computer time.
- Click  of an online device to access the web page of this device.
- Select one or multiple added device and click **Delete**.

## 2.3 Lighten the Display

- Lighten the display using the HUB receiving card:
  - 1) Import Receiving Card Parameters
  - 2) Construct the Cabinet
  - 3) Lighten the Screens
- Lighten the display using the AXS receiving card:
  - 1) Import Receiving Card Parameters
  - 2) Lighten the Screens
  - 3) Firstly Correct AXS Receiving Card

### Note

You can lighten the display by using the device web page, LED Tool client, or LED batch controller client. After lightening the display via the LED Tool client, you will see a prompt to reconfigure the display lightening parameters on the **Screen Lightening Configuration** page when you log in to the device web page. Please reconfigure the display lightening parameters on the web page.

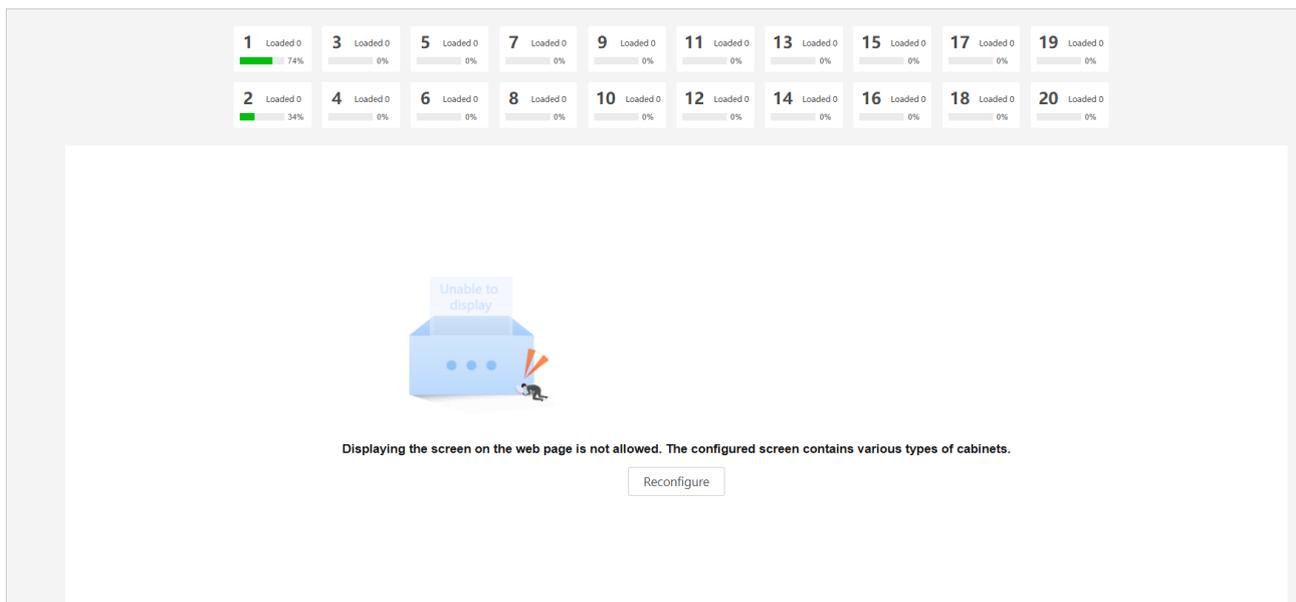


Figure 2-8 Reconfiguration Prompt on Screen Lightening Configuration Page

### 2.3.1 Import Receiving Card Parameters

Step 1 Go to **Screen Lightening Configuration**.

Step 2 (Optional) Select a single C or V device.

Step 3 Choose any of the following methods to import the receiving card parameters:

- Select **Load from Screen**, and click **Load**.
- Select **Import File**, click  to import a file, and then click **Load**.

- Select **Load From Cloud**, enter the serial number, click **Search** and then select a configuration file.

The screenshot shows two panels of the configuration interface. The top panel has 'Configuration Type' set to 'Load From Cloud'. It includes a 'Serial No.' input field, 'Search', and 'Reset' buttons. Below this is a table with columns 'Seri...', 'File Name', and 'File Type', which is currently empty with the text 'No data.' and a pagination control showing 'Total: 0 < 1 > Go 1'. The bottom panel has 'Configuration Type' set to 'Load From File' and an 'Import File' input field with a folder icon and a 'Load' button. A red 'Next' button is visible at the bottom of the interface.

Figure 2-9 Import Receiving Card Parameters

- Select **Copy from Other Screens**, select a source whose configuration meets the requirement, and then click **Load**. Only the C or V devices support copying from other screens, and the P devices do not support this function.

The screenshot shows the 'Copy from Other Screens' configuration interface. At the top, 'Configuration Type' is set to 'Copy from Other Screens' and there is a 'Source' dropdown menu and a 'Load' button. A message box states: 'The figure below shows the copy source configuration. Click Load to complete the copy.' Below the message, there are six progress indicators labeled 1 through 6, each showing 'Loaded' and '14%' progress. At the bottom, there is a 2x3 grid of blue squares, each containing a white circle with a number from 1 to 6. A red 'Next' button is located at the bottom center of the interface.

Figure 2-10 Copy Another Receiving Card Parameters

Step 4 Click **Next**.

## 2.3.2 Construct the Cabinet

Only the HUB receiving cards support constructing the cabinet and the AXS receiving cards do not support this function. When the displayed cabinet parameters do not match the actual cabinet parameters, construct the cabinet.

Step 1 Enable **Edit Display Unit Configuration Manually**.

Step 2 Edit the module layout as needed.

Step 3 Select a receiving card signal port and then click the module to establish the connection.

Step 4 Click **Next**.

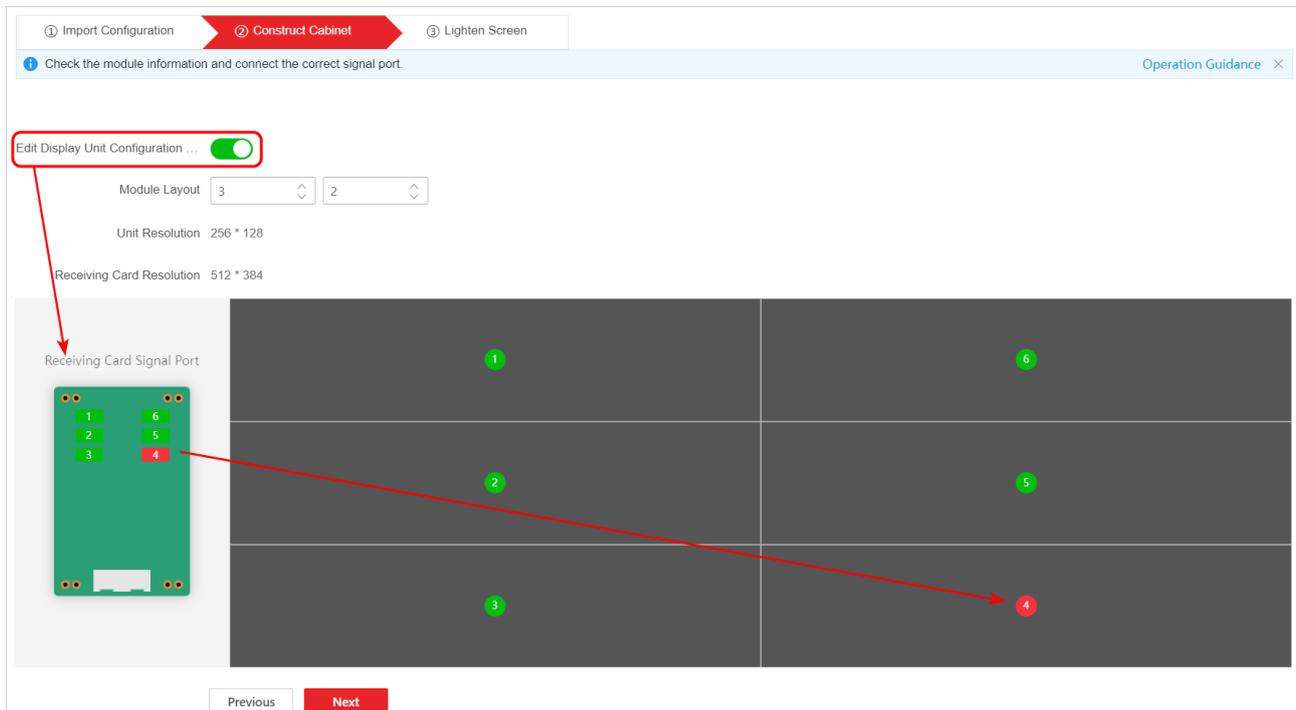


Figure 2-11 Construct the Cabinet

## 2.3.3 Lighten the Screens

Step 1 Enable **Show Connection No.**

### Note

The device supports showing the connection number only when the loaded resolutions of multiple receiving cards controlled by a single LED controller is consistent.

Step 2 Click **Edit** to set the screen size and resolution, and click **OK**.

- For a normal screen, set the screen size and resolution as follows:

- Set the screen size based on the receiving card quantity. Make sure that the product of the row value and column value is greater than or equal to the actual receiving card quantity. Each AXS cabinet contains one or two receiving cards.
- Set the resolution according to the actual screen resolution.
- For an ultra-long screen, calculate the screen size and resolution based on the actual screen resolution, cabinet resolution, and device load limitations.
  - Only P devices support configuring ultra-long screens.
  - The total loading resolution of a P device cannot exceed  $1920 \times 1200$  pixels, and the single-fold length cannot exceed 4094 pixels.

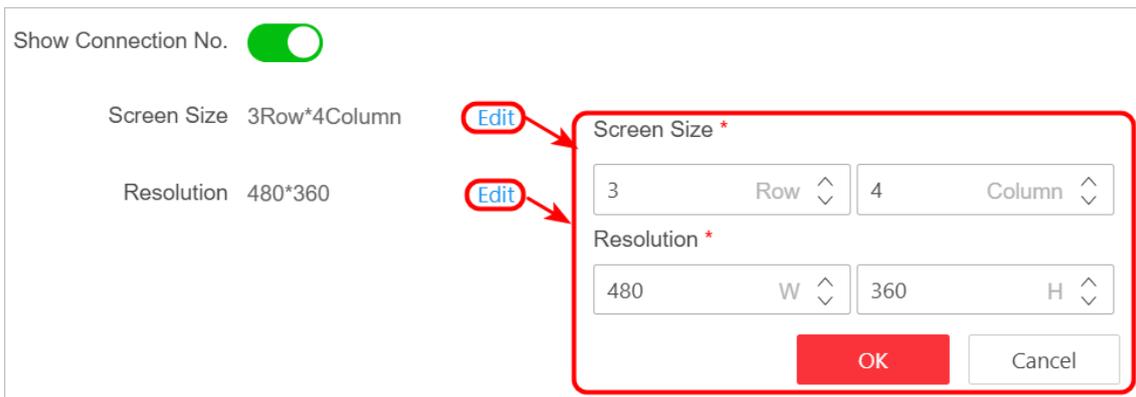


Figure 2-12 Edit Screen Size and Resolution

### Note

For example, if the actual screen width is 15360 pixels and the height is 135 pixels, and the cabinet width is 240 pixels and the height is 135 pixels, calculate the screen size and resolution as follows:

1. The actual screen resolution ( $15360 \times 135$  pixels) is smaller than the 2K device limited load ( $1920 \times 1200$  pixels), so a 2K device can meet the requirements.
2. The actual screen is extra-wide, so compare the cabinet width with 4094 to calculate the column value, rounding down.  $4094 \div 240 \approx 17$ .
3. Calculate the single-fold width = column value  $\times$  cabinet width =  $17 \times 240 = 4080$ . The single-fold width is smaller than 4094, so the column value is 17. If the single-fold width exceeds 4094, reduce the column value and recalculate the single-fold width.
4. Compare the actual screen width with 4096 to calculate the fold value, rounding up.  $15360 \div 4080 \approx 4$ .
5. The actual screen is extra-wide, so the fold value is equal to the row value. The row value is 4.
6. Calculate the resolution based on the screen size. Screen width = column value  $\times$  cabinet width =  $17 \times 240 = 4080$ , and screen height = row value  $\times$  cabinet height =  $4 \times 135 = 540$ .
7. In the end, the screen size is 4 row  $\times$  17 column and the resolution is  $4080 \times 540$ .

Step 3 According to the connection number shown on the screens, configure the signal connection of the device.

- 1) Select a network interface of the device.
- 2) Take either of the following methods to configure signal connection for the selected network interface:
  - Click to select screens and connect them in the order of operation. The connection can span different network interfaces of the device.
  - Click a screen to set as the start point of the connection and hold a screen to select the connection range. Batch connect screens in the order of operation. The connection can span different network interfaces of the device. If the start point and end point are not on the same row or column, the connection will be S-shaped in the order of operation.
- 3) (Optional) You can perform the following operations as required:
  - Click **Undo** to undo the previous operation.
  - Click **Restore** to restore the previous operation.
  - Click **Clear Current Sending Port Connection** to clear the signal connection of the current network interface.
  - Click **Clear All Sending Port Connection** to clear the signal connection of all network interfaces.
- 4) Use the same method to configure signal connection for other network interfaces.

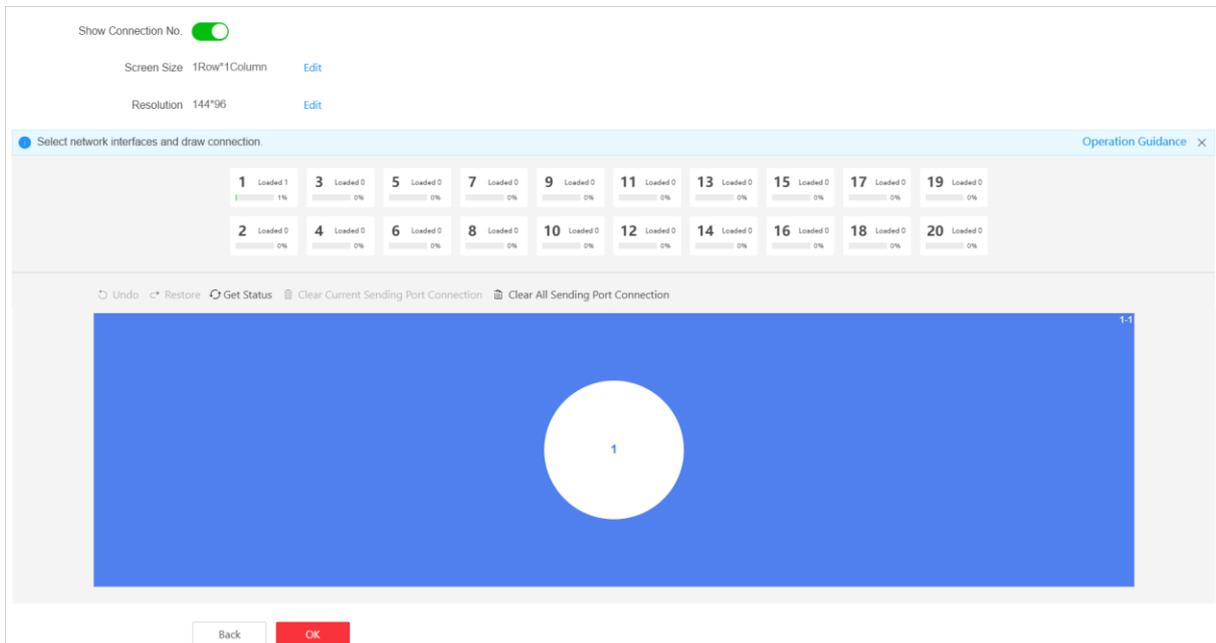


Figure 2-13 Lighten the Screen

Step 4 Complete the screen lightening configuration:

- For the HUB receiving cards, click **Finish**.
- For the AXS receiving cards, click **Next**.

### 2.3.4 Firstly Correct AXS Receiving Cards

For the AXS receiving cards, enable correction to load the lamp board data to the AXS receiving cards.

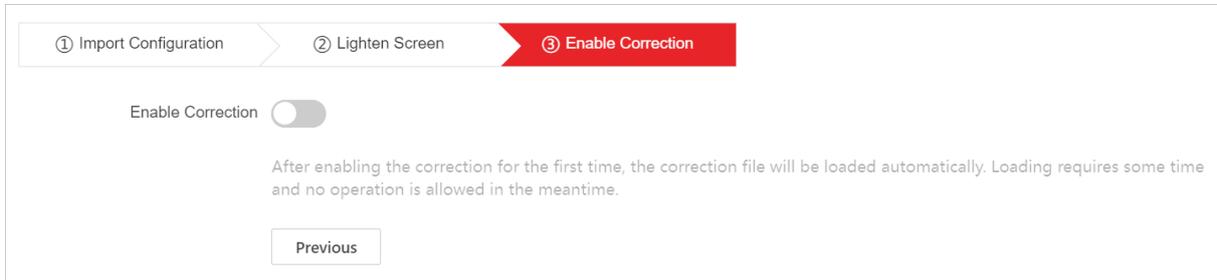


Figure 2-14 Firstly Correct AXS Receiving Cards

## Chapter 3 Screen Parameters Configuration

### 3.1 Correct Receiving Cards

Step 1 Go to **Configuration** → **Receiving Card Correction**.

Step 2 Select correction content based on device type:

- B/P device and single C/V device:
  - 1) Toggle the **Enable Correction** to the ON position. Thus, brightness chroma correction is enabled by default with no configuration required.
  - 2) If the lamp boards support low gray correction, check **Low Gray Correction** as required.
- Cascaded C/V devices:
  - 1) Click **Batch Correction (Configure All Devices)** is enabled by default).
  - 2) Select a device and toggle the **Enable Correction** switch to the ON position. (Brightness chroma correction is selected by default.)
  - 3) If the lamp boards support low gray correction, check **Low Gray Correction** as required (settings will automatically sync to all cascaded devices).

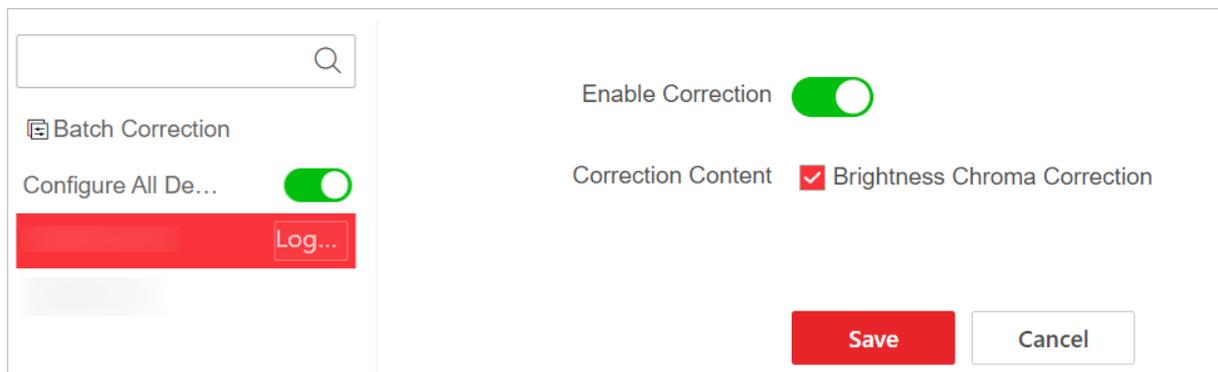


Figure 3-1 Select Correction Content (Cascaded C/V Devices)

Step 3 (Optional) If you cannot locate the faulty screen area easily, you can enable **Show Connections** to show the connection number of the receiving cards on the screens.

Step 4 Set the correction areas.

- Click  and select the areas to be corrected.
- Click  and enter the start coordinate and end coordinate.

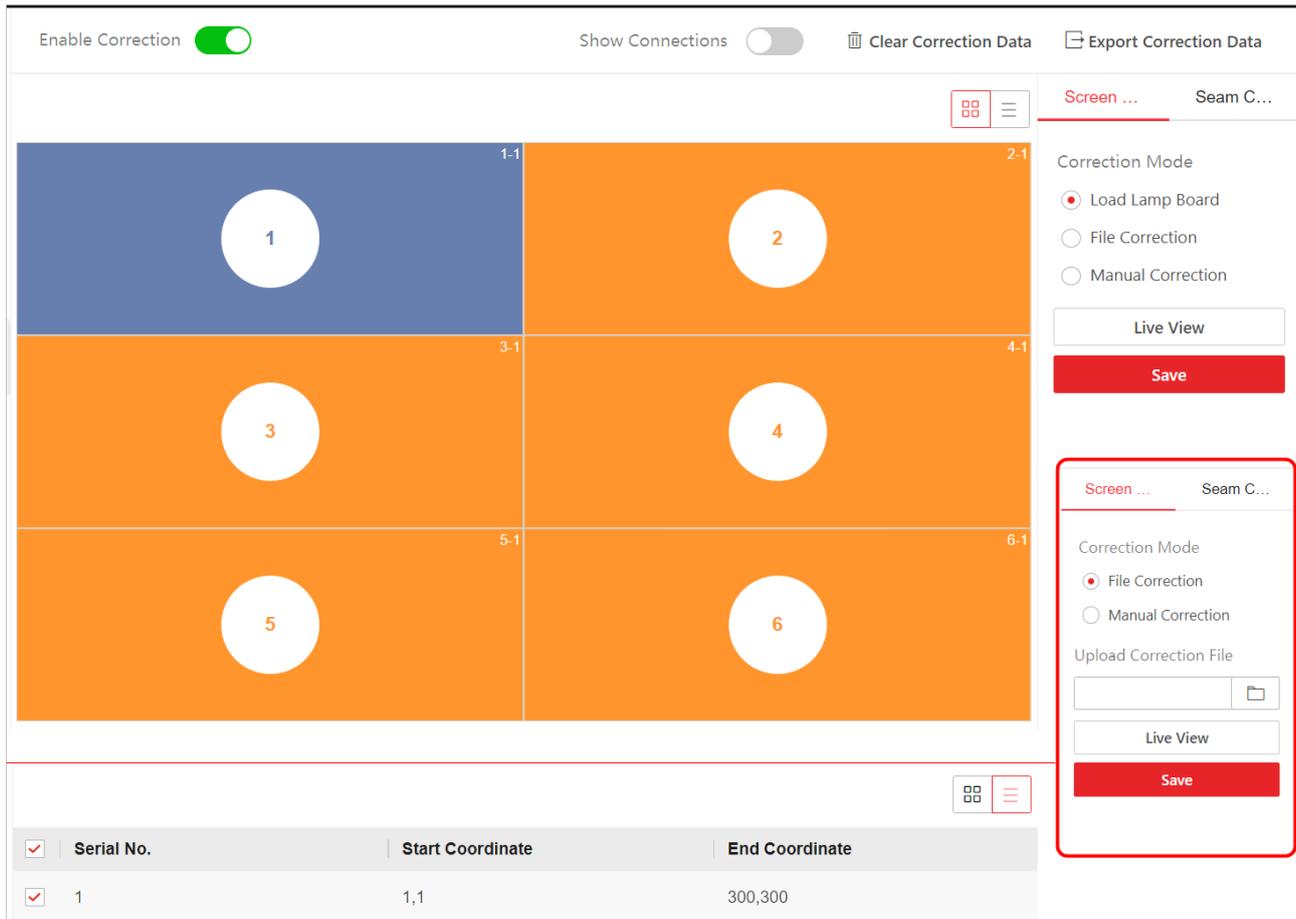


Figure 3-2 Set Correction Areas

#### Step 5 Correct the defective pixels:

- 1) For AXS receiving cards, select **Load Lamp Board** to load the lamp board data to the AXS receiving cards. The HUB receiving cards do not support loading the lamp board data.
- 2) If the display effect still does not meet the requirements, select **File Correction** to upload a locally saved correction file.
- 3) If the display effect still does not meet the requirements after loading the correction file, manually correct the screen area. Enable **Sync Adjustment** to synchronize the red, green, and blue percentages to the same value.
  - If the color difference exists, select **Manual Correction** and adjust the RGB values.
  - If bright or dark seams exist, select **Seam Correction**, set the seam direction and width, and adjust the RGB values.

The figure displays four panels of the LED Controller interface, each with a 'Screen ...' and 'Seam C...' header. The panels are as follows:

- Panel 1:** 'Correction Mode' with radio buttons for 'Load Lamp Board' (selected), 'File Correction', and 'Manual Correction'. It includes a 'Live View' button and a red 'Save' button.
- Panel 2:** 'Correction Mode' with radio buttons for 'Load Lamp Board', 'File Correction' (selected), and 'Manual Correction'. It includes an 'Upload Correction File' field with a folder icon, a 'Live View' button, and a red 'Save' button.
- Panel 3:** 'Correction Mode' with radio buttons for 'Load Lamp Board', 'File Correction', and 'Manual Correction' (selected). It includes a 'Sync Adjustment' toggle (off), sliders for 'Red', 'Green', and 'Blue' (all set to 1000), a 'Live View' button, and a red 'Save' button.
- Panel 4:** 'Correction Range' with radio buttons for 'All' (selected), 'Vertical', and 'Horizontal'. It includes a 'Seam Width (Pixel)' slider set to 1, a 'Sync Adjustment' toggle (off), sliders for 'Red', 'Green', and 'Blue' (all set to 1000), a 'Live View' button, and a red 'Save' button.

Figure 3-3 Correct AXS Receiving Cards

Step 6 Click **Live View** to preview the display effect.

Step 7 When the desired display effect is reached, click **Save**.

Step 8 (Optional) You can perform the following operations as required:

- If the correction effect does not meet the requirements, click **Clear Correction Data** and select the correction areas to clear the correction data of the selected areas.
- Click **Export Correction Data** and select the correction areas to export the correction data of the selected areas.

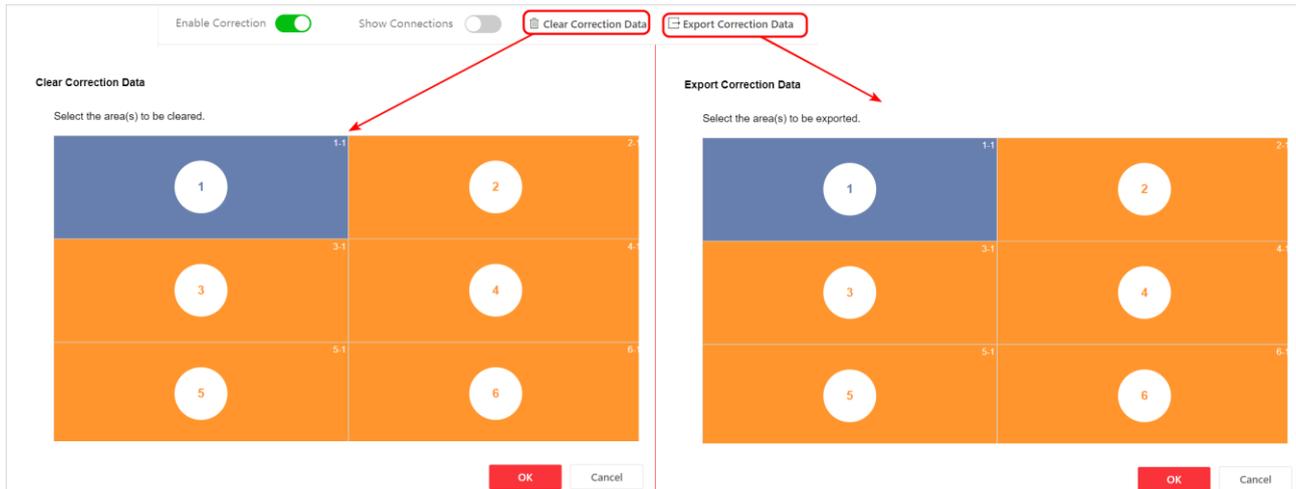


Figure 3-4 Clear/Export Correction Data

## 3.2 Configure Signal Source Parameters

By default, C and B devices support configuring both input and output signal parameters. V and P devices support different configurations depending on their working modes (see "3.9 Configure Working Mode for V/P Devices"):

- Video processing mode: Only supports output signal parameter configuration.
- Sync mode: Supports both input and output signal parameter configuration.

Step 1 Go to **Configuration** → **Signal Configuration**.

Step 2 (Optional) Select a single C or V device. (Configuring all devices is enabled by default.)

Step 3 Configure the input signal:

- 1) Select a signal source.
  - When the device has multiple signal sources, only the selected signal source can be output to the screens.
  - When AUTO is selected, the newly connected signal source will automatically output to the screen.
  - The AUTO function is unavailable on 2K C-type devices.
- 2) Set the resolution or enable **Resolution Self-Adaption**.
- 3) Enable **3D Video Processing**, and set the 3D delay and 3D processing mode.

Step 4 Configure the output signal:

- 1) (Optional) Select a zoom mode. Only C devices, B devices, and V/P devices in sync mode support zoom mode configuration.

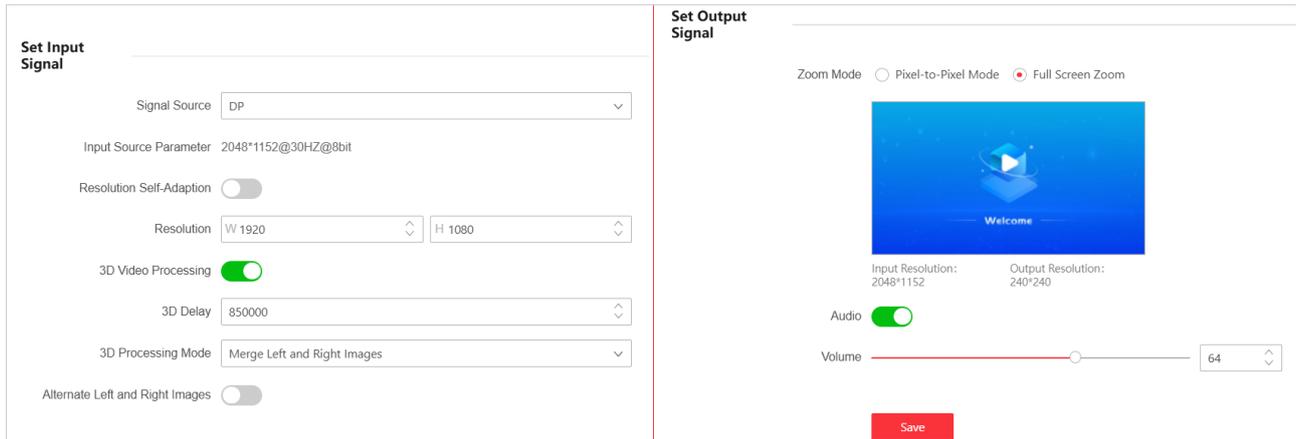


Figure 3-5 Configure Input/Output Signal

- 2) Adjust the device audio volume and turn off the audio as required.

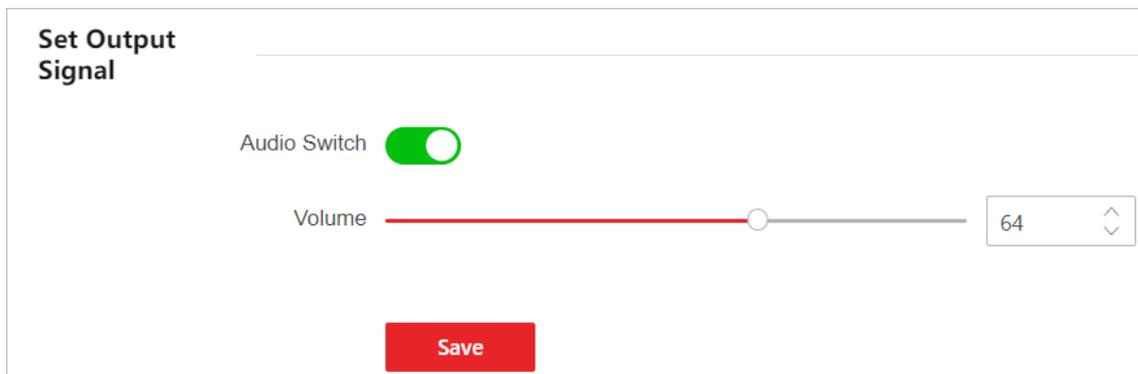


Figure 3-6 Configure Output Signal

Step 5 Click **Save**.

## 3.3 Configure Image Effect

### Configure Display Effect of Screens

Step 1 Go to **Configuration** → **Display Effect**.

Step 2 (Optional) Select a single C or V device. (Configuring all devices is enabled by default.)

Step 3 Select a preset mode.



Figure 3-7 Select a Preset Mode

Step 4 If the current preset mode parameters do not meet the requirements, edit the corresponding parameters and click **Save**.

- For prolonged screen use in low light condition, enable **Eye Protection Mode** to reduce harmful blue light emissions and adjust display color temperature to mitigate eye fatigue.
- Enable **Dynamic Energy Saving** to set the strength coefficient. This feature is supported by only some receiving cards.
- Set the color standard, color temperature, or contrast mode.
- Set the Gamma coefficient: A smaller Gamma coefficient makes the low gray areas brighter, while a larger Gamma coefficient makes the low gray areas darker.
- Set the ambient brightness: When the ambient light is brighter, set a higher ambient brightness value.
- When low gray effect is abnormal, adjust the initial brightness level.
- When the low gray effect is poor, increase the initial brightness value.
- Enable **Frame Rate Adaptation**. Only C and B devices support configuring frame rate adaption.
- Enable **Gray Scale Optimization** to make the screen gray display more uniformly. This feature is supported by only some receiving cards.

**Advanced Parameters**

Contrast Mode ⓘ  ▼

Gamma Coefficient ⓘ  2.8 ▲▼

Ambient Brightness ⓘ  16 ▲▼

Initial Brightness Level ⓘ  0 ▲▼

Initial Brightness ⓘ  0 ▲▼

Frame Rate Adaptation ⓘ

Gray Scale Optimization ⓘ

Figure 3-8 Configure Advanced Parameters of Display Effect

Step 5 (Optional) Click **Restore Preset** to restore the default parameters of the selected preset mode.

## Configure Startup Image

### Note

Only C and V devices support startup image configuration.

Step 1 Go to **Configuration** → **Customization** → **Startup Image**.

Step 2 (Optional) Select a single C or V device. (Configuring all devices is enabled by default.)

Step 3 Select an image as the startup image, and click **Save**.

- Current Image: The current image will be used as the startup image.
- Custom: You can click  to upload an image to function as the startup image.

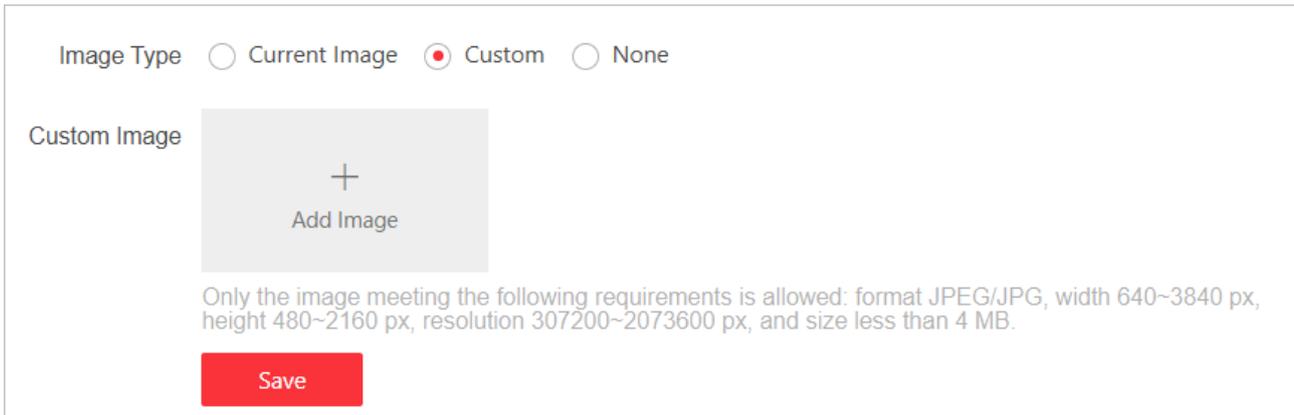
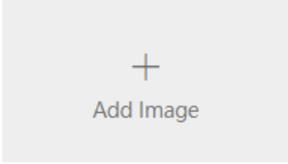


Image Type  Current Image  Custom  None

Custom Image 

Only the image meeting the following requirements is allowed: format JPEG/JPG, width 640~3840 px, height 480~2160 px, resolution 307200~2073600 px, and size less than 4 MB.

**Save**

Figure 3-9 Configure Startup Image

## Configure No Signal Images

No signal images vary with the device type. This chapter uses the C device as an example.

Step 1 Go to **Configuration** → **Customization** → **No Signal Image**.

Step 2 (Optional) For the C or V devices, select a device.

Configuring all devices is enabled by default. Thus, the parameter of the current device will synchronize to other online devices.

Step 3 Select images to display when the signal interruption occurs, and click **Save**.

- Last Frame: The last frame image will be displayed when the signal interruption occurs.
- Aging Mode: The display enters random solid color mode and flashes regularly when the signal interruption occurs.
- Custom Picture: Click  to upload an image to display when the signal interruption occurs.

LED Controller Signal Interruption  Last Frame  Screen Saver

Receiving Card Signal Interrupt...  Last Frame  Aging Mode  Black Screen

Screen Saver Without Input Sig...  Default  Custom Picture  Black Screen



**Save**

Figure 3-10 Configure No Signal Images of C Devices

## 3.4 Splice Video Wall

Only V devices support video wall splicing. When the driving capacity of a single V device is smaller than the driving capacity required by the display, you need to use multiple V devices and configure splicing.

### Before You Start

Use either of the following methods to connect multiple V devices:

- Connect the signal source to the first device, use an HDMI cable to connect the HDMI LOOP port of the first device with the HDMI IN port of the next device, and use the same method to connect the remaining devices.
- Connect the signal source to a video wall controller that has multiple HDMI OUT ports. Use HDMI cables to connect the HDMI IN port of each V device to the HDMI OUT ports of the video wall controller.

### Steps

Step 1 Go to **Configuration** → **Splicing by LED Controller**.

Step 2 Select a device.

Step 3 According to the actual screen quantity, set the row and column values.

Step 4 (Optional) If you use the V devices to splice the video wall, enable **Splicing by LED Controller**. If you use a video wall controller to splice the video wall, disable **Splicing by LED Controller**.

Only when a V device has 12 or 20 network ports, it has the HDMI LOOP ports. Thus, it can be used to splice the video wall.

Step 5 Click **Show ID on Screen**.

Step 6 According to the IDs on the screens, drag one online device from the device list to the video wall window. Repeat this operation to ensure all video wall windows are bound with devices.

Step 7 Click **Save**.

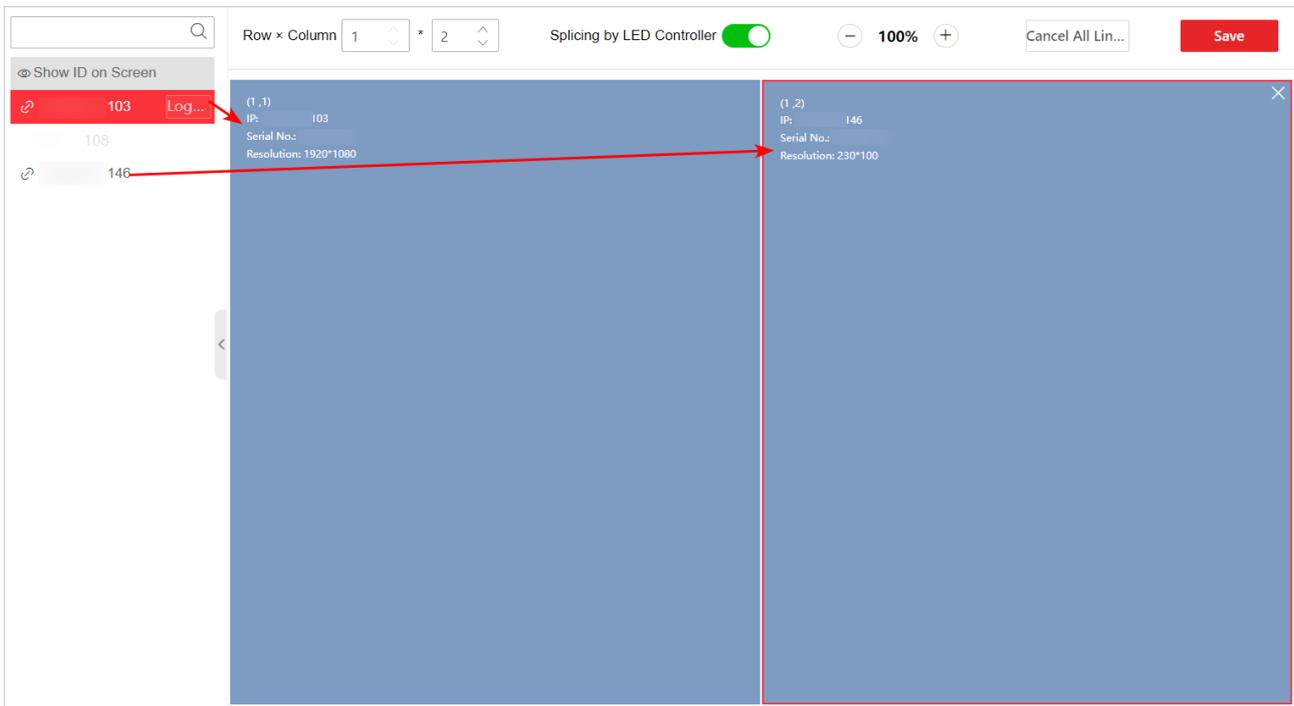


Figure 3-11 Splice the Video Wall

Step 8 (Optional) Click **Unbind All Linkage** to unbind all devices from the video wall.

## 3.5 Configure General Parameters

### Configure Time for C/V Devices

Step 1 Go to **Configuration** → **System** → **Time Settings**.

Step 2 (Optional) Select a single C or V device. (Configuring all devices is enabled by default.)

Step 3 Select a time zone.

Step 4 Set the time manually, or click **Sync with Computer Time** to make the device time consistent with the computer time.

Step 5 Enable **DST** and set the related parameters.

Step 6 Click **Save**.

Device Time 22:19:57

Time Zone (GMT+08:00) Beijing, Urumqi, Singapore, Perth

Time Sync Mode  Manual Time Sync

Set Time 22:19:48

**DST**

Enable

Start Time Jan First Sun 00:00

End Time Jan First Sun 00:00

Bias Time 30min

Figure 3-12 Configure Time for C/V Devices

### Configure Time for P Devices

Go to **Configuration** → **System** → **Time Settings** to configure the time parameters for the P devices:

- Select **NTP Sync**, enter the NTP server address, NTP port number, and interval.
- Select **Manual Time Sync**, and then set the time manually or click **Sync with Computer Time**.

Device Time 15:41:37

Time Zone (GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi

Time Sync Mode  NTP Sync  Manual Time Sync

Set Time 15:41:32

Figure 3-13 Configure Time for P Devices

## Configure Font for V Device

Step 1 Go to **Configuration** → **Customization** → **Font Settings**.

Step 2 Select a device.

Configuring all devices is enabled by default. Thus, the parameter of the current device will synchronize to other online devices.

Step 3 Click  to select a font file and click **Upload**.

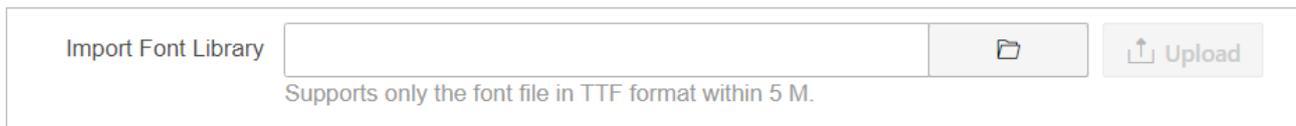


Figure 3-14 Configure Font

## Configure Hot Spare for C/V Device

Step 1 Go to **Configuration** → **Hot Spare Configuration** → **LED Controller Hot Spare**.

Step 2 When the device supports hot spare, select a device and drag it to the **Add Backup Card** area.

Step 3 (Optional) Click  to switch the main card and backup card.

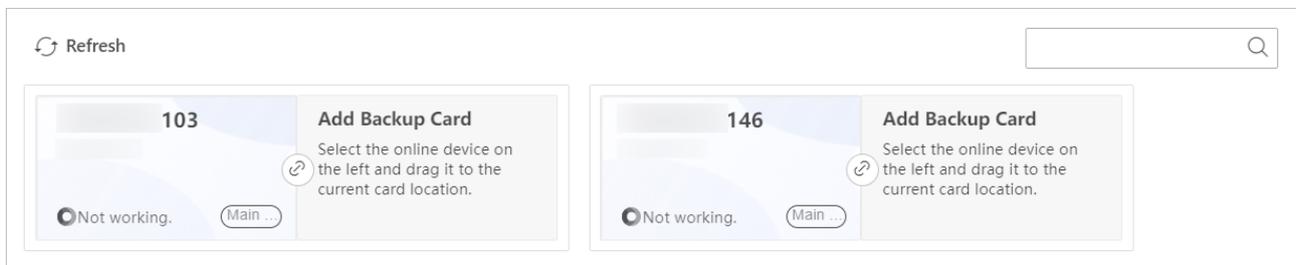


Figure 3-15 Configure LED Controller Hot Spare

## Configure Data Port Backup

Step 1 Go to **Configuration** → **Hot Spare Configuration** → **Data Port Hot Spare**.

Step 2 Enable **Data Port Backup**.

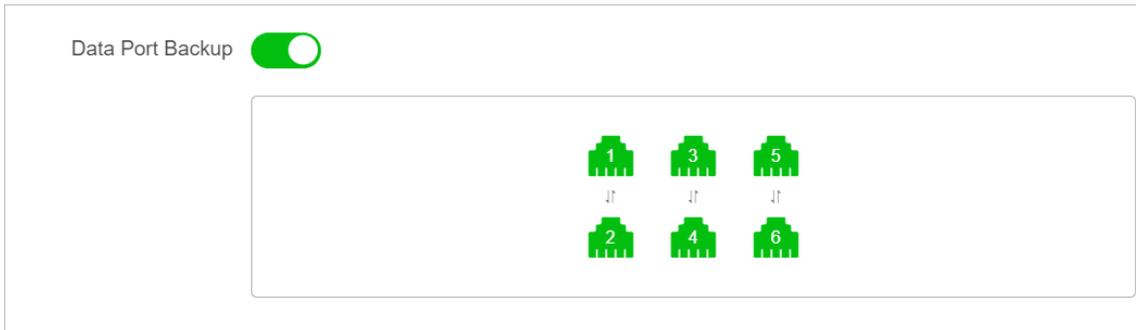


Figure 3-16 Configure Data Port Backup

## Configure Alarms

Go to **Configuration** → **Environment and Alarm**, monitor the following items as required and set the thresholds:

- When the threshold is exceeded, the alarm information and current value of the monitored item will be displayed on the display and the device web interface.
- After the receiving card connects to a temperature and humidity sensor, you can monitor the environmental temperature and humidity.

### Alarm Threshold

Cabinet Voltage Detection	<input checked="" type="checkbox"/>
Cabinet Voltage Low Threshold	3.6 V <input type="button" value="v"/>
Cabinet Voltage High Threshold	4.6 V <input type="button" value="v"/>
Cabinet Temperature Detection	<input checked="" type="checkbox"/>
Cabinet Temperature Threshold	76.0 °C <input type="button" value="c"/>
LED Controller Temperature De...	<input checked="" type="checkbox"/>
LED Controller Temperature Th...	70.0 °C <input type="button" value="c"/>
Ambient Temperature Detection	<input checked="" type="checkbox"/>
Ambient Temperature Threshold	50.2 °C <input type="button" value="c"/>
Ambient Humidity Detection	<input checked="" type="checkbox"/>
Ambient Humidity Threshold	80 %RH <input type="button" value="rh"/>

Figure 3-17 Configure Alarms

## Configure Timed Parameters

Step 1 Go to **Configuration** → **System** → **Schedule**.

Step 2 (Optional) Select a single C or V device. (Configuring all devices is enabled by default.)

Step 3 On the **Timed Screen On/Off** page, enable the function and set the screen on time and screen off time.

Step 4 Click **Timed Brightness Adjustment**, enable the function, and set the target brightness value and duration.

The image displays two screenshots of the LED Controller configuration interface, illustrating the steps to configure timed parameters.

**Top Screenshot: Timed Screen On/Off**

- Enable:** A green toggle switch is turned on.
- Screen On/Off Schedule:** A radio button labeled "Screen On" is selected.
- Screen On Time:** A time picker is set to 04:47.
- Screen Off Time:** A time picker is set to 11:00.
- Schedule Grid:** A grid shows the days of the week (Mon-Sun) and time slots (00, 02, 14, 16, 18, 20, 22, 24). A blue bar highlights the period from 04:47 to 11:00 on Wednesday.
- Buttons:** "OK" and "Delete" buttons are visible below the time pickers.
- Save:** A red "Save" button is at the bottom.

**Bottom Screenshot: Timed Brightness Adjustment**

- Enable:** A green toggle switch is turned on.
- Brightness Adjustment Schedule:** A radio button labeled "Brightness Adjustment" is selected.
- Target Brightness Value:** A slider is set to 1.
- Duration:** Two time pickers are set to 05:43 and 15:03.
- Schedule Grid:** A grid shows the days of the week (Mon-Sun) and time slots (00, 02, 04, 16, 18, 20, 22, 24). A blue bar highlights the period from 05:43 to 15:03 on Thursday, with the text "Brightness: 1%" displayed inside the bar.
- Buttons:** "OK" and "Delete" buttons are visible below the time pickers.
- Save:** A red "Save" button is at the bottom.

Figure 3-18 Configure Timed Parameters

## 3.6 Configure Network Parameters

C and V devices only support wired network address configuration, while B and P devices also support wireless network address configuration, Bluetooth, hotspot, OTAP service, and cloud service.

### Configure Wired Network Address

Step 1 Go to **Configuration** → **Network** → **Network Settings** → **TCP/IP**.

Step 2 Enable **Static IP Address**.

Step 3 Set the static wired IP address:

- If the device is directly connected to the computer, set an unused IP address from the local network as the wired network address of the device. Ensure that the device can still connect to the local network and remain on the same subnet as the computer.
- If the device is connected to the local network via an Ethernet cable, the device will automatically obtain an IP address. You can set the automatically obtained IP address as the wired network address of the device, or set an unused IP address from the local network as the wired network address of the device. Ensure that the device and computer are on the same subnet.

Step 4 Click **Save**.

Step 5 Enter the configured wired IP address of the device in the browser of the computer to log in to the device web page.

The image shows two side-by-side screenshots of a web-based network configuration interface. Both screens have a 'Static IP Address' toggle switch at the top, which is turned on. The left screen is for C/V devices and contains three input fields: '\* IP Address', '\* Subnet Mask', and '\* Gateway Address', each followed by a red 'Save' button. The right screen is for P devices and contains five input fields: '\* IP Address', '\* Subnet Mask', '\* Gateway Address', '\* DNS1', and '\* DNS2', followed by a 'MAC Address' field and a red 'Save' button. A vertical red line separates the two screens.

Figure 3-19 Configure Wired Network Address ( Left: C/V Devices, Right: P devices)

## Configure Wireless Network Address for P Devices

For initial device activation and login authentication, use an Ethernet cable to connect the device to the network. The device will automatically use the wired connection when both wired and wireless networks are available.

Step 1 Connect a Wi-Fi antenna to the WIFI STA port of the device.

Step 2 Go to **Configuration** → **Network** → **Network Settings** → **Wi-Fi** and enable Wi-Fi.

Step 3 Select an available Wi-Fi network and click **Connect**.

Step 4 Click **Network Status** to view the IP address automatically obtained by the device after the device connects to the wireless network.

Step 5 Enable **Static IP Address**.

Step 6 Set the static wireless IP address:

- Set the automatically obtained IP address as the wireless network address of the device.
- Set an unused IP address from the local network as the wireless network address of the device. Ensure that the device and computer are on the same subnet.

Step 7 Click **Save**.

Step 8 When the wired network is unavailable or the Ethernet cable is removed, enter the configured wireless IP address of the device in the browser of the computer to log in to the device web page.

The screenshot shows the 'Wi-Fi List' interface with an 'Enable' toggle checked. Below the list, a 'Network Status' dialog box is open, showing the 'Static IP Address' toggle checked and various configuration fields. A red box highlights the 'Disconnect Network' link in the table, with a red arrow pointing to the dialog box.

Serial ...	Wi-Fi Name	Security Mode	Signal ...	Connection St...	Operation
9		WPA2(WPA/WPA2)	Strong	Disconnected	Connect
10		WPA2(WPA/WPA2)	Strong	Connected	Disconnect Network
11		WPA2(WPA/WPA2)	Strong	Disconnected	Connect
12		WPA2(WPA/WPA2)	Strong	Disconnected	Connect
13		WPA2(WPA/WPA2)	Medium	Disconnected	Connect
14		WPA2(WPA/WPA2)	Medium	Disconnected	Connect
15		WPA2(WPA/WPA2)	Strong	Disconnected	Connect
16		WPA2(WPA/WPA2)	Strong	Disconnected	Connect
17		WPA2(WPA/WPA2)	Strong	Disconnected	Connect
18		WPA2(WPA/WPA2)	Medium	Disconnected	Connect

The 'Network Status' dialog box contains the following fields:

- Static IP Address:
- IP Address \*
- Subnet Mask \*
- Gateway Address \*
- DNS1 \*
- DNS2 \* (0.0.0.0)
- Buttons: Save, Cancel

Figure 3-20 Configure Wireless Network Address

## Configure Bluetooth for P Devices

Step 1 Connect a Wi-Fi antenna to the WIFI STA port of the device.

Step 2 Go to **Configuration** → **Network** → **Network Settings** → **Bluetooth** and enable Bluetooth.

Step 3 Use Bluetooth to connect the device to other devices:

- Select a Bluetooth device, click **Pair**. The Bluetooth device is paired after the pairing is successful.
- Select Bluetooth peripheral device, click **Pair**. The Bluetooth device is paired after the pairing is successful. Click **Connect** to connect the Bluetooth peripheral device to the device. The Bluetooth peripheral device is connected after the connection is successful.

Step 4 Click **Save**.

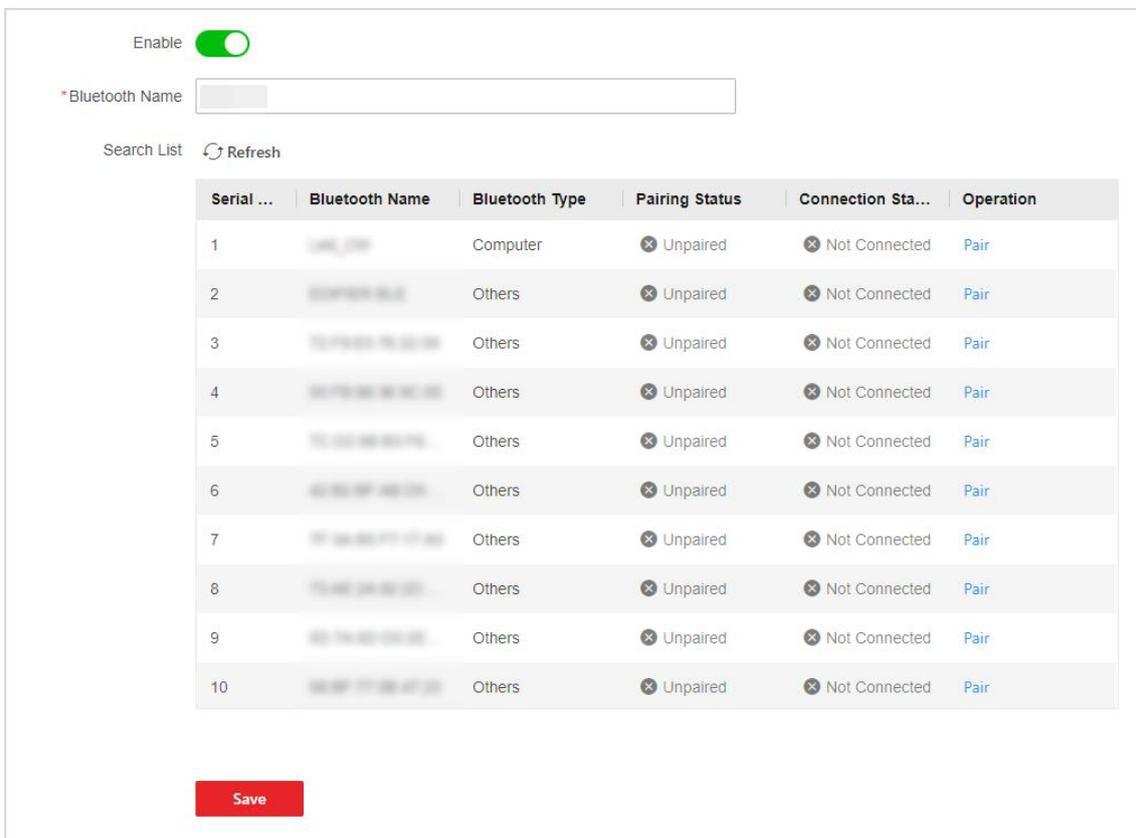


Figure 3-21 Enable Bluetooth

## Configure Hot Spot for P Devices

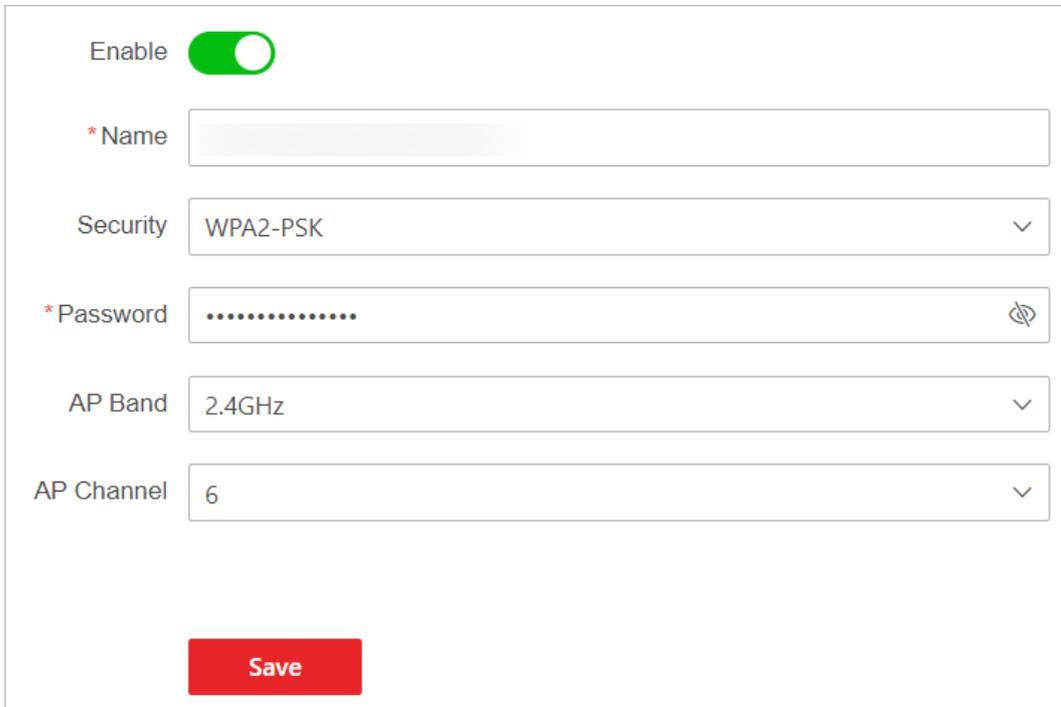
Step 1 Connect a Wi-Fi antenna to the WIFI AP port.

Step 2 Go to **Configuration** → **Network** → **Network Settings** → **Hot Spot** and enable hot spot.

Step 3 (Optional) Configure hot spot parameters as required:

- After hot spot is enabled, the default name and password are used. You can edit the hot spot name and password.
- Select the security, AP band, or AP channel.

Step 4 Click **Save**.



The screenshot shows a configuration form for a hot spot. At the top, there is an 'Enable' toggle switch that is turned on (green). Below it is a text input field for '\* Name'. The next field is 'Security', a dropdown menu currently showing 'WPA2-PSK'. Below that is a '\* Password' field with masked characters and a toggle for visibility. The 'AP Band' is a dropdown menu set to '2.4GHz'. The 'AP Channel' is a dropdown menu set to '6'. At the bottom of the form is a red button labeled 'Save'.

Figure 3-22 Configure Hot Spot

## Configure OTAP Service for P Devices

Step 1 Go to **Configuration** → **Network** → **Device Access** → **OTAP** and enable the OTAP service.

Step 2 Enter the target server address and port number, and customize the device ID and authentication code.

Step 3 Click **Save**.

Step 4 Go to the corresponding platform and add the device to the platform by using its authentication code.

After the device is successfully added to the platform, you can remotely configure the device, maintain the device, manage screen content, and monitor the device status through the platform.

Step 5 (Optional) Click **Refresh** to update the registration status.

When the device has been successfully added to the platform, its status will be **Registered**.

The screenshot displays the 'OTAP Cloud Service' configuration page. At the top left, 'OTAP' is highlighted in red. The page title is 'Cloud Service'. An 'Enable' toggle switch is currently turned on (green). Below this are four required input fields: '\* Server Address', '\* Port No.', '\* Device ID', and '\* Authentication Code'. At the bottom left, the 'Registration Status' is indicated as 'Registered' with a green checkmark icon, and a blue 'Refresh' link is provided. A red 'Save' button is positioned at the bottom center of the form.

Figure 3-23 Configure OTAP Service

## Configure Cloud Service for P Devices

Step 1 Go to **Configuration** → **Network** → **Device Access** → **Cloud Service** and set the server address by using either of the following methods:

- Use the default access server address.
- Enable **Custom** and manually enter the access server address.

Step 2 Enable the cloud service and click **Save**.

Step 3 Click **Refresh** to update the network connection status.

After registering with the cloud service, the device will show **Online** status.

Step 4 Add the device to the platform via any of the following methods:

- Open the mobile client of the corresponding platform and scan the QR code in the **Account Binding** section.
- Open the web client of the corresponding platform and enter the verification code in the **Account Binding** section.

### Note

- When the device has been successfully added to the platform, its status will be **Cloud Account Bound**.
- After the device is successfully added to the platform, you can remotely configure the device, maintain the device, manage screen content, and monitor the device status through the platform.

OTAP **Cloud Service**

Enable

\* Access Server Address

Custom

Network Connection Status  Offline Refresh

**Account Binding**

Device Serial No.

Account Binding Status  Cloud Account Unbound

Save

Figure 3-24 Configure Cloud Service

## 3.7 Configure Auto Dehumidification

Step 1 Go to **Configuration** → **Dehumidification**.

Step 2 (Optional) Select a single C or V device. (Configuring all devices is enabled by default.)

Step 3 Enable **Auto Dehumidification** and set the dehumidification parameters.

Step 4 Select the region according to the actual humidity condition of the device location. If you select **Custom**, set the time step, brightness step and duration.

- Time Step: The time interval between two consecutive brightness adjustments by the LED controller during a single dehumidification process. If the brightness is adjusted every 5 minutes, the time step is 5 minutes.
- Brightness Step: The minimum change in brightness for each adjustment by the LED controller during a single dehumidification process. If the brightness increases by 1 each time, the brightness step is 1.
- Duration: The total time of a single dehumidification process.
- Usage Rate: The usage rate of the device.

Step 5 Click **Save** or **Save and Start**.

Auto Dehumidification

Region Custom

High Humidity

Medium Humidity

Low Humidity

Custom

\* Time Step  min

\* Brightness Step 1

\* Duration  min

Usage 53%

Save Save and Start

Figure 3-25 Configure Auto Dehumidification

### 3.8 Configure Loading Mode

Go to **Configuration** → **Loading Mode** to select a mode:

- Self-adaption: If you select this mode, the device automatically switches between standard loading and mini loading based on the network port driving capacity.
- Standard loading: Select this mode when the device's single network port load exceeds 0.65 MP but does not exceed 2.925 MP. If you select this mode, the device will compress the images.
- Mini loading: Select this mode when the device's single network port load does not exceed 0.65 MP. If you select this mode, the device will not compress the images.

Loading Mode  Self-Adaption  Standard Loading  Mini Loading

Save

Figure 3-26 Configure Loading Mode

Table 3-1 Supported Loading Mode

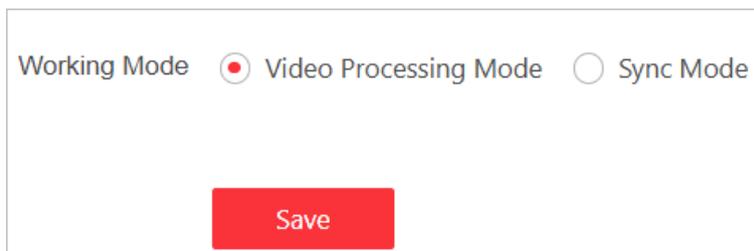
Device Type	Self-Adaption Mode	Standard Loading Mode	Mini Loading Mode
2K C-type devices		√ Any DATA OUT port of the device supports this mode. If you select this mode, make sure the total load of the device must be smaller than or equal to 2.925 MP.	√
2K V/P-type devices		√ Only DATA OUT ports 1 and 2 of the device support this mode. If you select this mode, make sure the total load of the device must be smaller than or equal to 2.925 MP.	√
4K C/V/P-type devices	√	√ Any DATA OUT port of the device supports this mode. If you select this mode, make sure the total load of the device must be smaller than or equal to 13 MP.	√

 **Note**

- Only 2K devices, 4K C-type devices, and some V/P-type devices support configuring loading mode.
- Loading mode does not support batch configuration.
- To use the standard loading mode, ensure that both the devices and the receiving cards support standard loading mode.
- Switching a 2K device to standard loading mode or mini loading mode will cause it to restart.

### 3.9 Configure Working Mode for V/P Devices

Only V and P devices support working mode configuration. Go to **Configuration** → **Working Mode**, select a working mode, and click **Save**. The device will restart to make the selected working mode effective. By default, the V and P devices use video processing mode.



Working Mode  Video Processing Mode  Sync Mode

Save

Figure 3-27 Configure Working Mode

## Chapter 4 Screen Content Configuration

### 4.1 Operate the Video Wall

#### Note

- Only V devices support video wall operation.
- The subtitle and picture/text areas support only JPEG images.
- The subtitle area supports up to 5 text subtitles and 3 picture subtitles.
- The picture/text area supports up to 5 text subtitles, 3 picture subtitles, 1 digital clock, and 1 dial clock.

Step 1 Go to **Video Wall Operation**.

Step 2 Select a template, set the layout, and then click **Save**.

- To edit the template, click **Layout Configuration** and then click **Edit Template**.
- Set the video area layout division, select the ratio of divided width and height, and set the subtitle area height and picture/text window width.

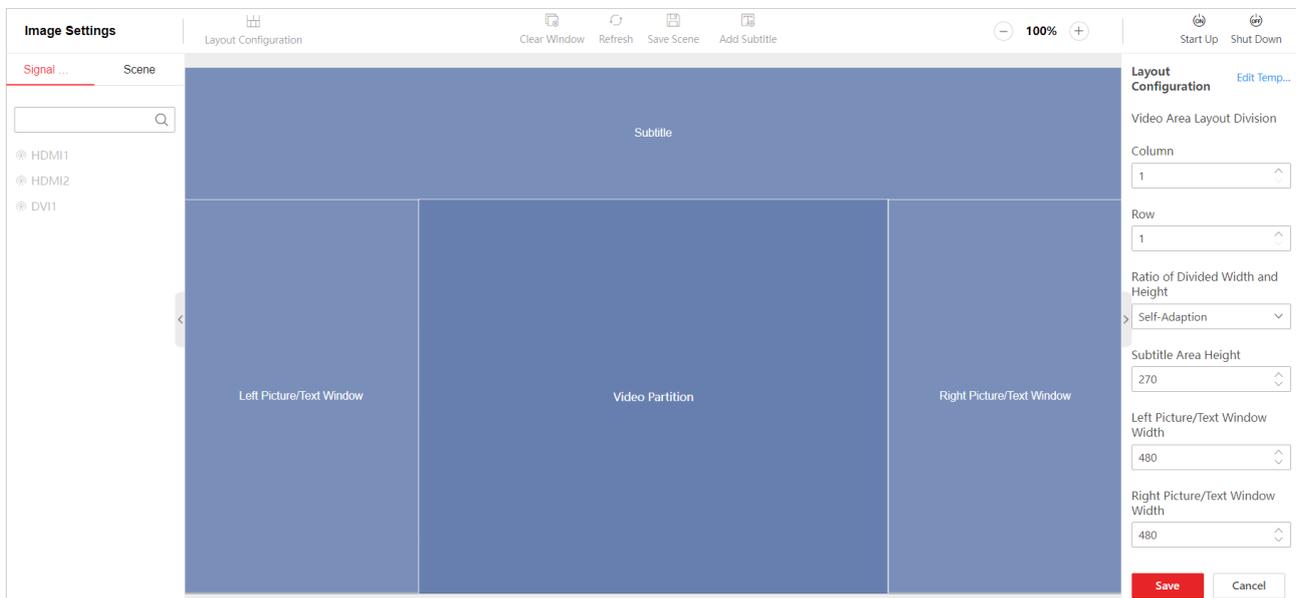


Figure 4-1 Select a Template

Step 3 Set the video area:

- 1) Click and hold the left mouse button to drag a signal source rightward to the video area. Repeat this operation to bind multiple signal sources with the video area.
- 2) Configure the signal source:
  - Directly move the window or enter the X and Y values to adjust the window location.

- Adjust window states by clicking corresponding icons: pin to top, send to bottom, bring forward, send backward, lock, unlock.
- Move the mouse to the window edge to adjust the window size or enter the W and H values.
- Select a signal source to switch the signal source.
- Set the resolution or enable resolution self-adaption.
- Enable the audio output of the current signal source. One video wall allows the output of only one audio. Make sure you have enabled audio on the Signal Configuration page.
- Click **Delete** or  to unbind the signal source from the video area.

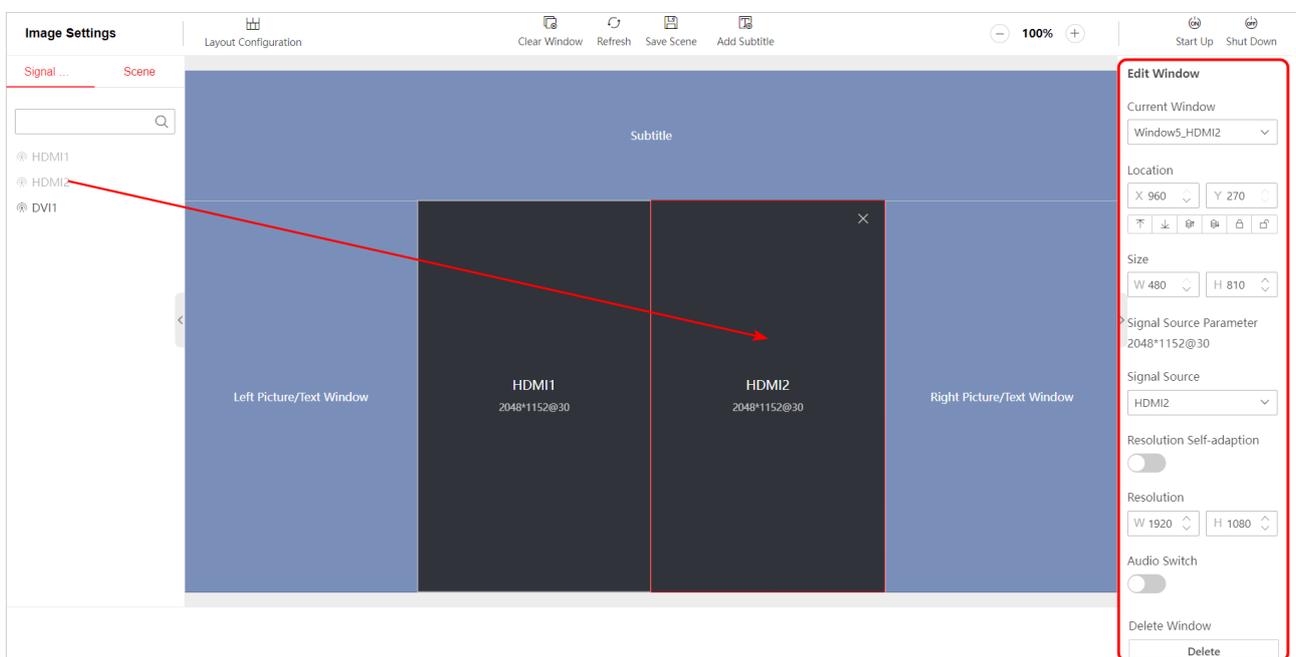


Figure 4-2 Configure Signal Source

Step 4 Configure the subtitle area:

- 1) Click the subtitle area and set the subtitle scrolling speed and direction.
- 2) Click **Add Subtitle** and then select a text or image subtitle.
- 3) Add the subtitle to the subtitle area:
  - Click on the subtitle area where you want to add the subtitle.
  - Drag the subtitle to the subtitle area and then draw the desired area.

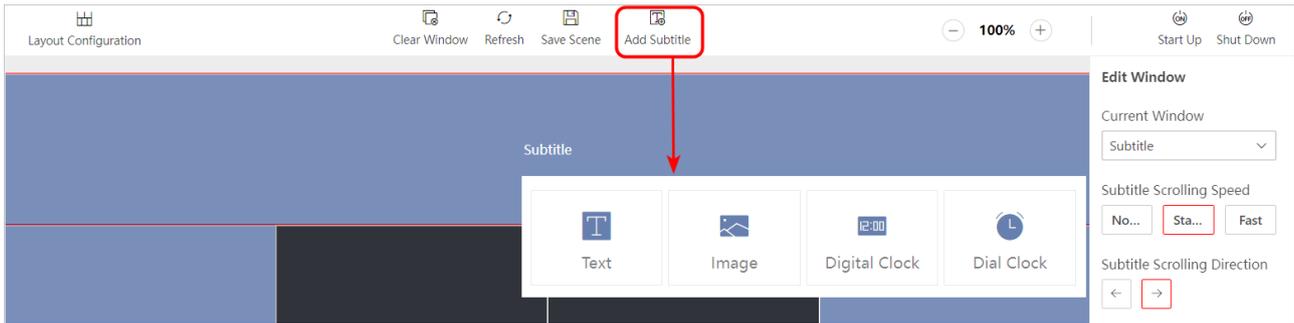


Figure 4-3 Select Subtitle Type

4) Edit the text or image subtitle window.

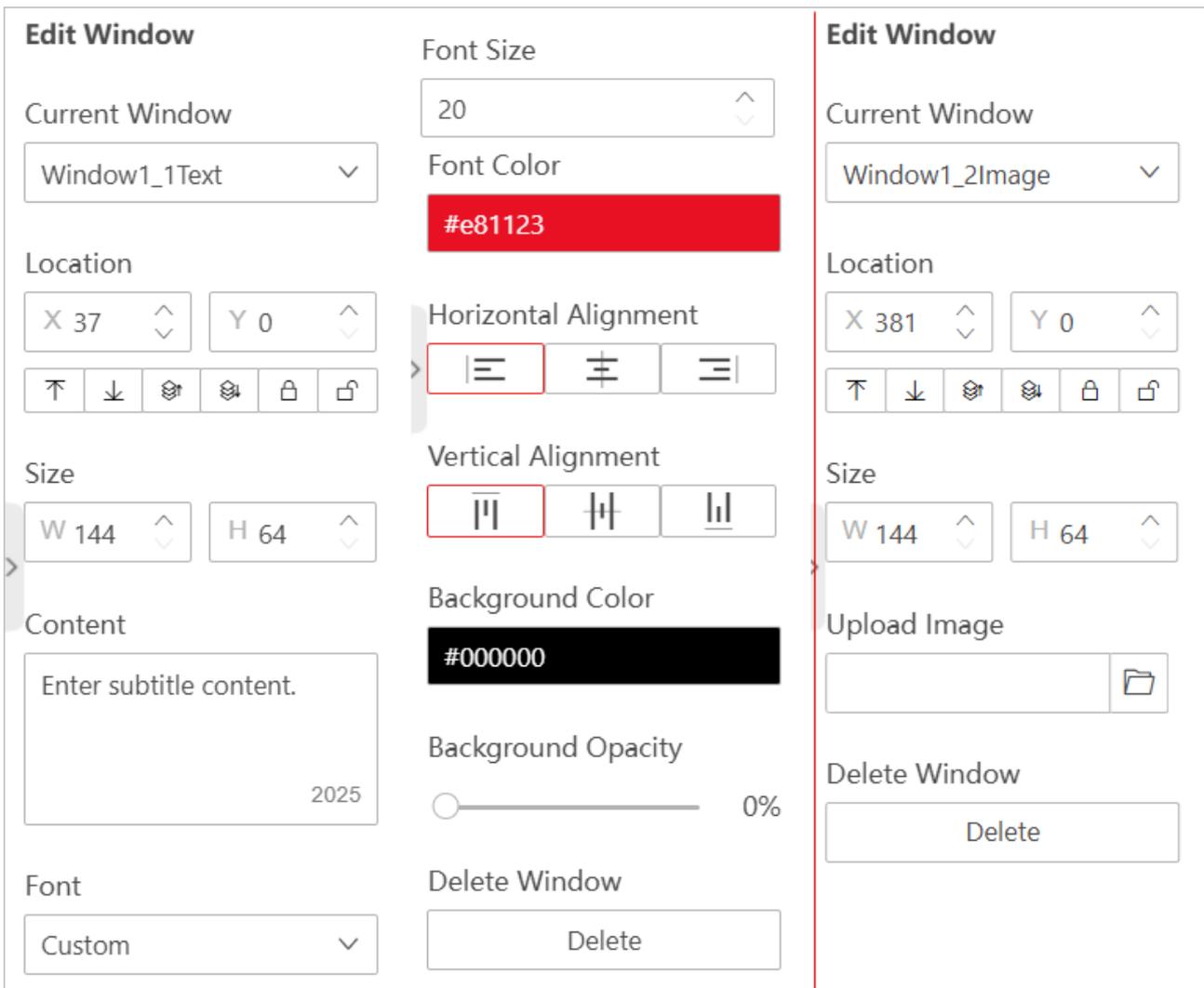


Figure 4-4 Edit Text or Image Subtitle

Step 5 Configure the picture/text area:

- 1) Click **Add Subtitle** and then select a text, image, digital clock, or dial clock subtitle.
- 2) Add the subtitle to the picture/text area:
  - Click on the picture/text area where you want to add the subtitle.

– Drag the subtitle to the picture/text area and then draw the desired area.

### 3) Edit the subtitle window.

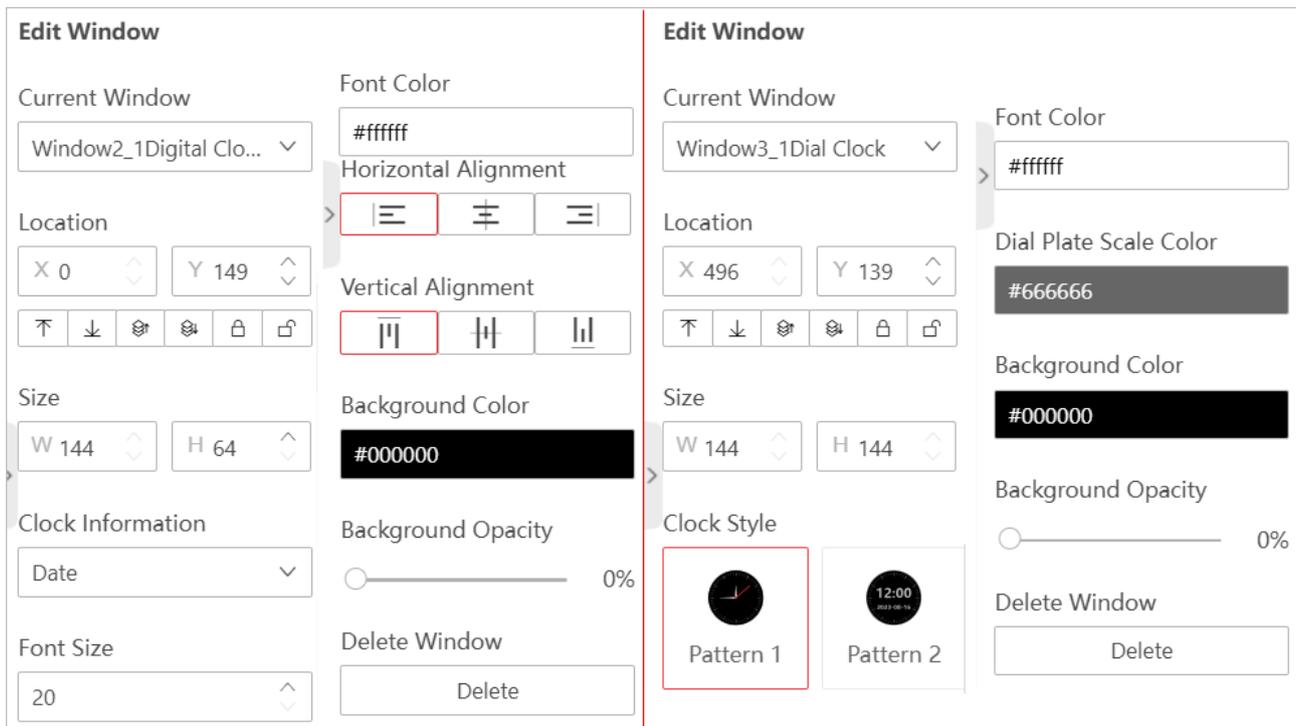


Figure 4-5 Edit Clock Subtitle

Step 6 (Optional) You can perform the following operations as required:

- Turn on or off the display.
- Click **Save Scene** to save the current video wall configuration as a new scene or overwrite the existing scene.

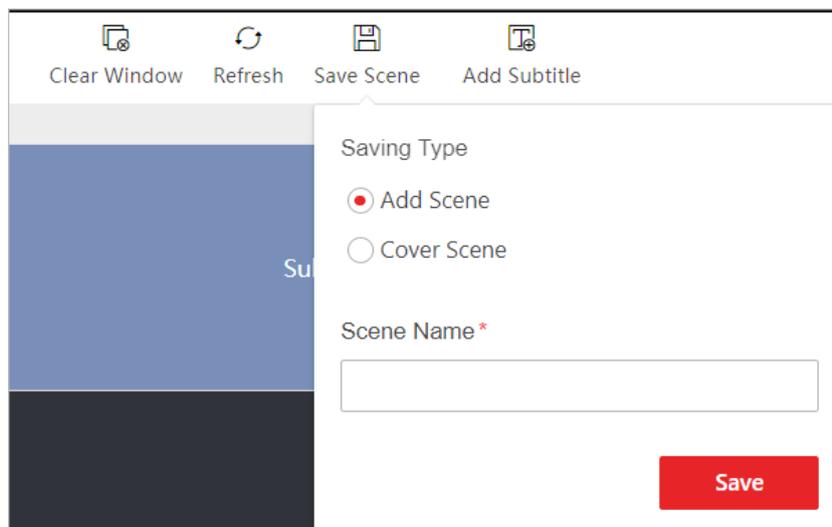


Figure 4-6 Save Scene

- Click **Scene**, click a scene and then click an icon to edit, call or delete the scene.

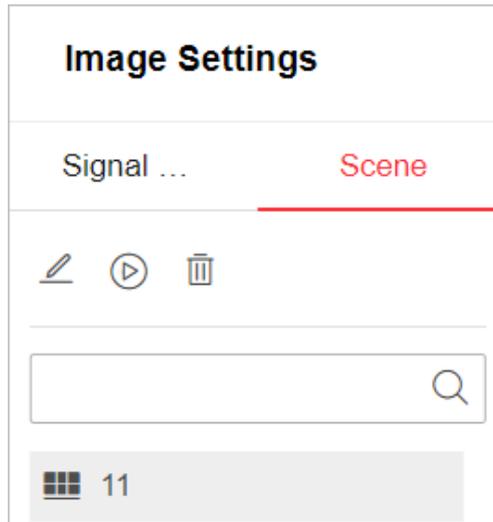


Figure 4-7 Manage Scenes

## 4.2 Create Programs

Only P devices support program configuration. You can create multiple programs to be played on the video wall. Each program can be bound to at least one material, and you can create a schedule to play the programs as planned.

### 4.2.1 Create and Play One Program

#### Create and Play One Normal Program

Step 1 Go to **Playing Control**.

Step 2 In the popped-up program creation window, select **Normal Program**, set the program name and program resolution, and select a template.

- After creating the program, you can click  on top of the page to change the program type, program name, program resolution, or template.
- If you click **Restore to Screen Size**, the actual size of the connected screen will be used as the program resolution.
- If you want to customize the layout, select **Blank Page**.

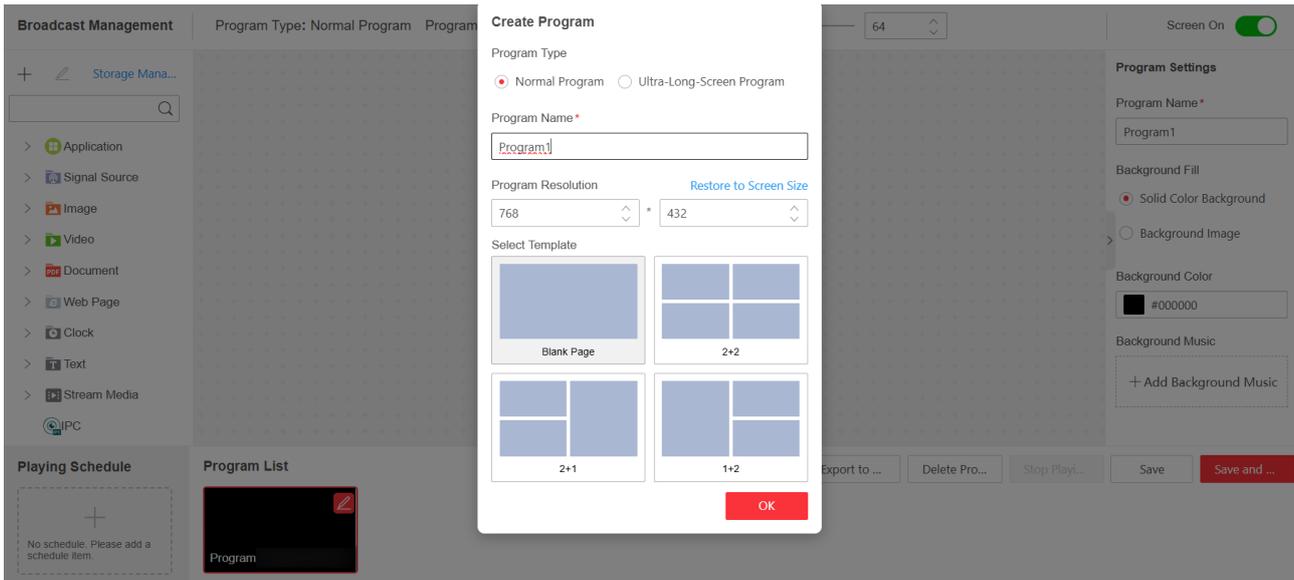


Figure 4-8 Create a Normal Program

Step 3 Click  to upload the locally saved materials or to add the material.

- Normal programs support application, signal source, image, video, document, web page, clock, text, stream media, and IPC materials. You need to click **Local Upload** to upload the locally saved images, videos, and documents. If you batch upload materials, make sure the total size of the uploaded materials does not exceed the remaining available storage space on the system.
  - Supported image formats: BMP, JPG, PNG, and GIF.
  - Supported video formats: ASF, AVI, MPG, 3GP, MOV, MKV, WMV, FLV, MP4, and RM.
  - Supported document formats: PDF and PPT.
- You need to add the web pages, stream media, and IPC material.
  - The supported web pages must use HTTP or HTTPS as the prefix.
  - The supported stream media must use RTSP as the prefix.

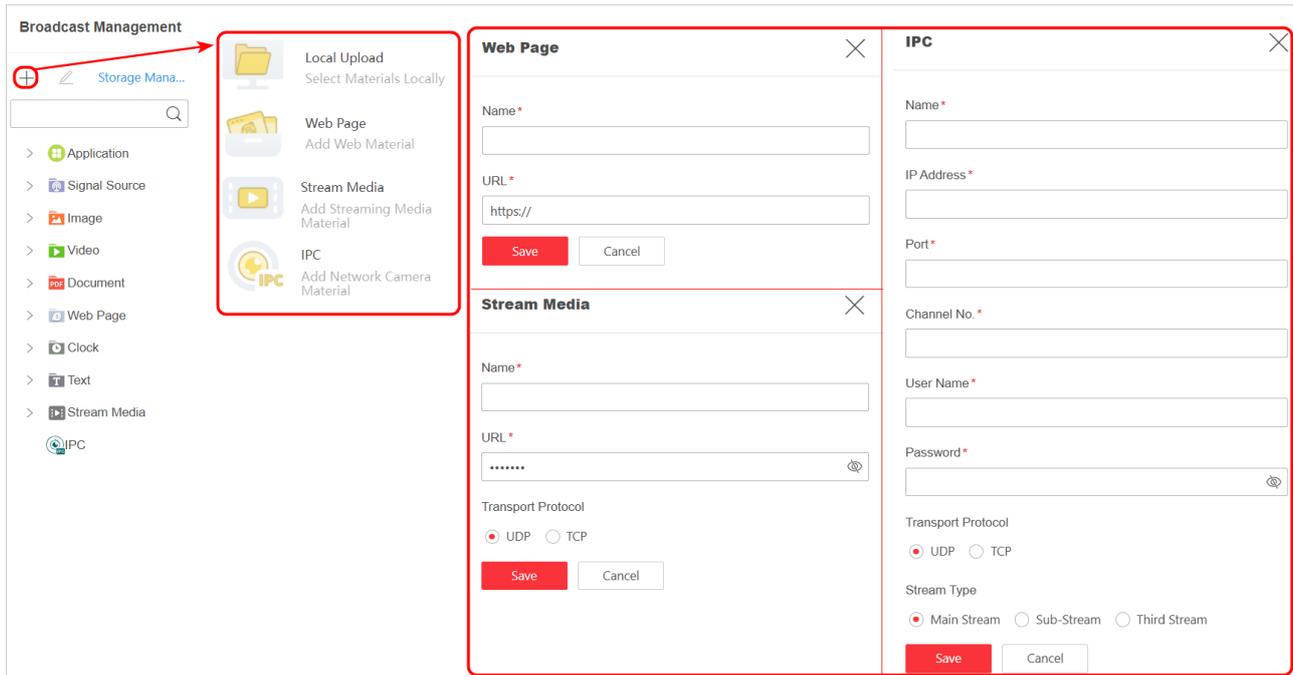


Figure 4-9 Add Materials for Normal Program

Step 4 Click and hold the left mouse button to drag a material to the program window. Repeat this operation to bind multiple materials with the program window.

- A program supports only one clock.
- Dragging a PPT file to the program window will clear all materials except the signal source and will make configuration of the background or music unavailable.
- Only P devices support signal sources and applications. Currently, only the WonderCast application is supported. Dragging the WonderCast application to the program window will clear all materials except the signal sources and will make configuration of the background or music unavailable.
- After you drag the WonderCast application to the program window and release the program, you can see the home page of the WonderCast application on the screen. Please follow the instructions on the home page of the WonderCast application to proceed.

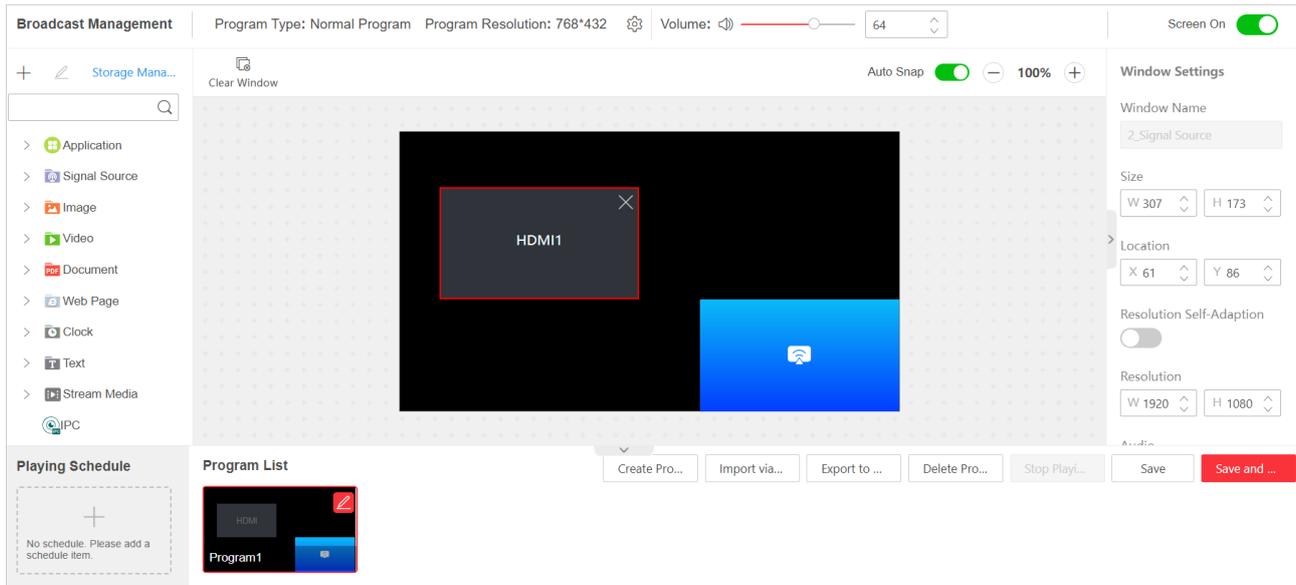


Figure 4-10 Bind Materials with Normal Program

### Note

- To clear all bounded materials, click **Clear Window**.
- To edit the material name, select a material and click .
- By default, **Auto Snap** and **Screen On** are enabled. It is recommended to keep the default settings.

### Step 5 Click **Save and Release**.

- : the program is playing.
- : the program is being edited.

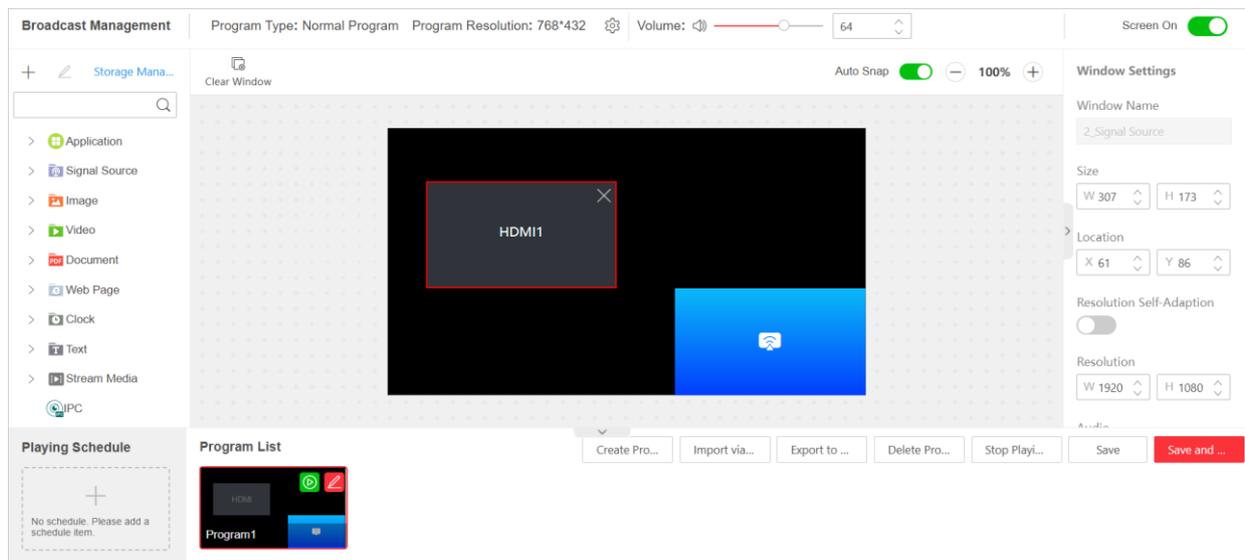


Figure 4-11 Release a Normal Program

## Create and Play One Ultra-Long-Screen Program

When the width or height of an actual screen exceeds 4096 pixels, it is recommended to create an ultra-long-screen program.

Step 1 Go to **Playing Control**.

Step 2 In the popped-up program creation window, select **Ultra-Long-Screen Program**, and set the program resolution based on the actual screen resolution.

- The device automatically sets the number of folds based on the program resolution. The maximum number of folds cannot exceed 8.
- The total resolution loaded by a P device cannot exceed 1920 × 1200 pixels, and the length of a single fold cannot exceed 4094 pixels.

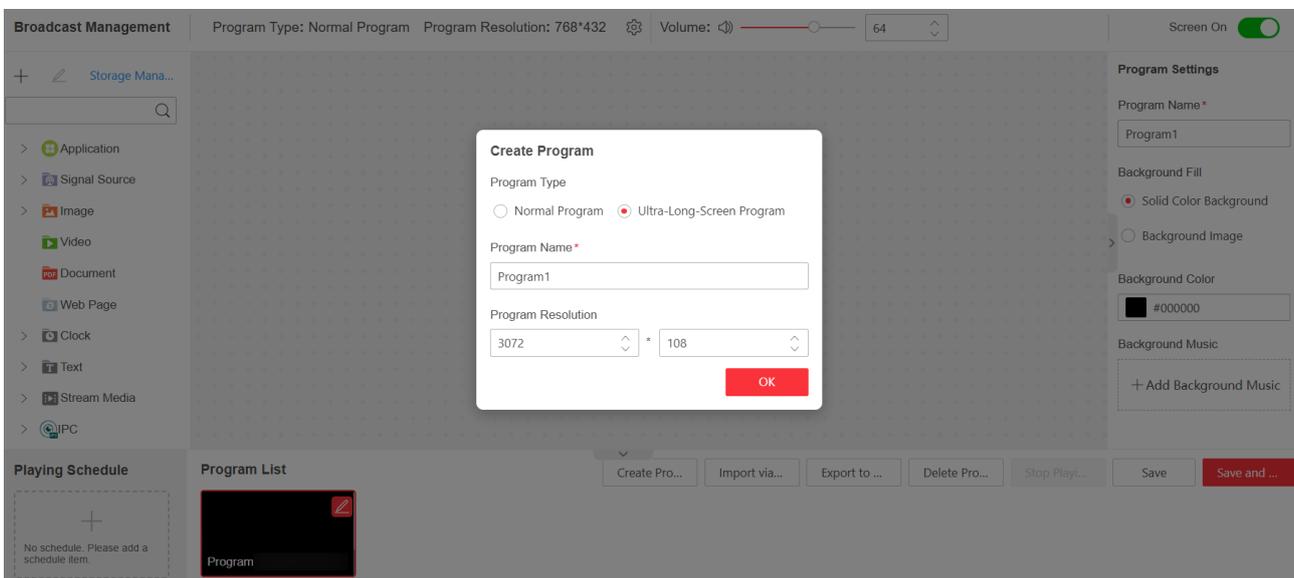


Figure 4-12 Create Ultra-Long-Screen Program

Step 3 Click **+** to upload the locally saved images. Supported image formats include BMP, JPG, PNG, and GIF.

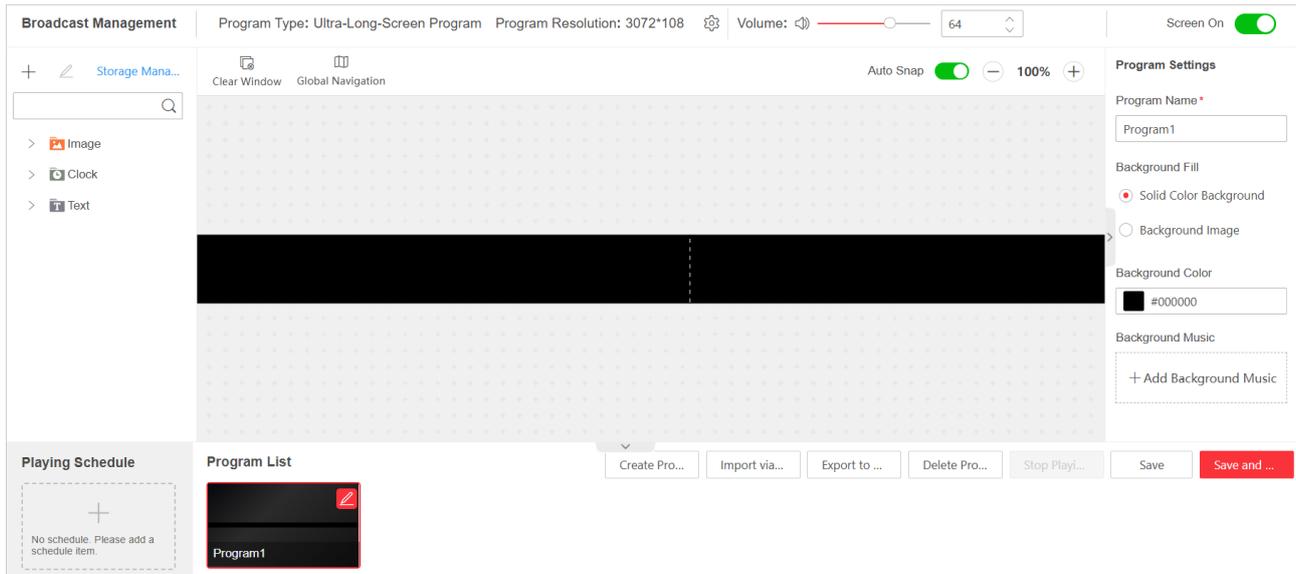


Figure 4-13 Add Materials for Ultra-Long-Screen Program

Step 4 Click and hold the left mouse button to drag a material to the program window. Repeat this operation to bind multiple materials with the program window.

- Each fold supports up to 8 materials.
- When a material crosses multiple folds, the maximum number of materials allowed in each fold decreases by 1.

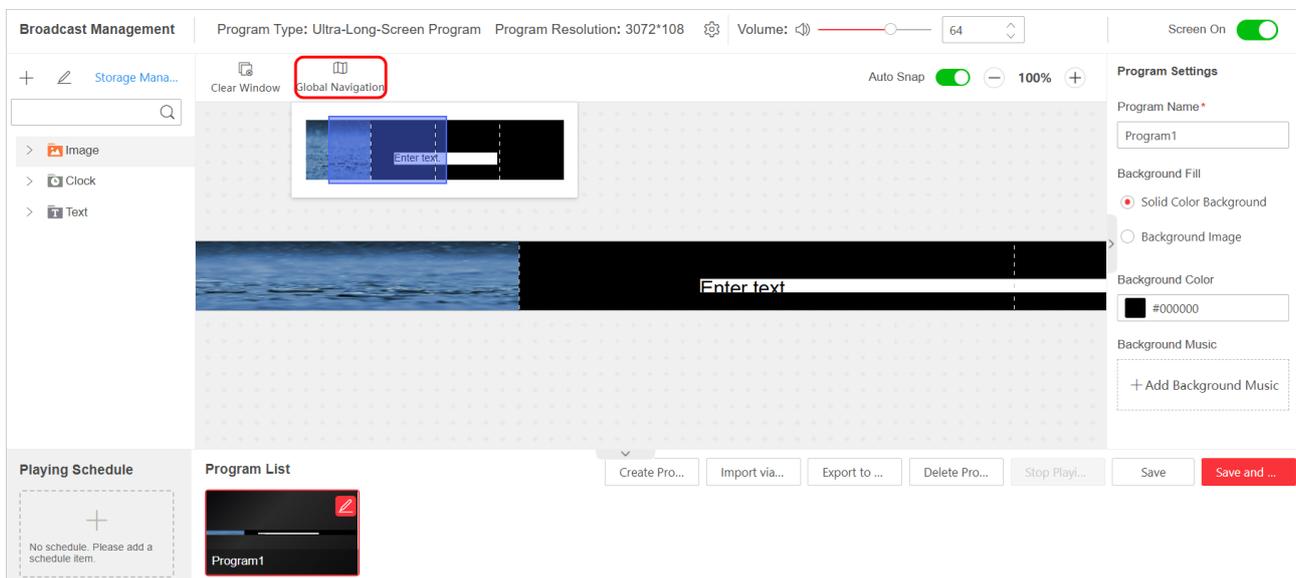


Figure 4-14 Bind Materials with Ultra-Long-Screen Program

## Note

- To clear all bounded materials, click **Clear Window**.
- To edit the material name, select a material and click .
- By default, **Auto Snap** and **Screen On** are enabled. It is recommended to keep the default settings.
- For ultra-long-screen program, you can click **Global Navigation** to view the materials bound with each fold.

### Step 5 Click **Save and Release**.

- : the program is playing.
- : the program is being edited.

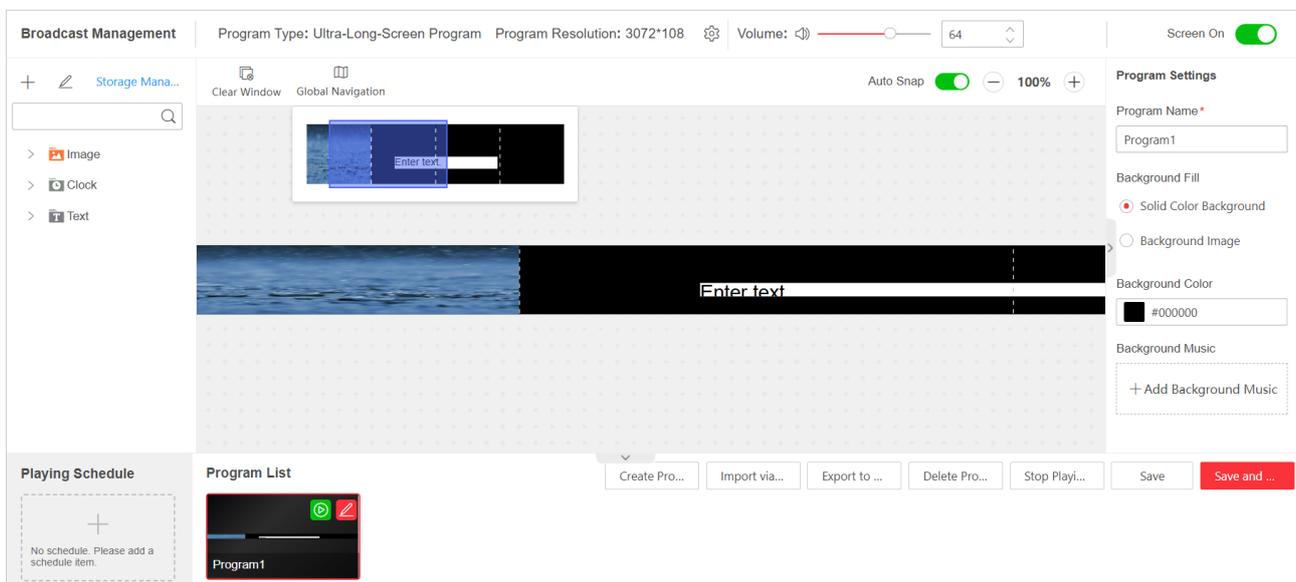


Figure 4-15 Release an Ultra-Long-Screen Program

## Set Other Program Parameters

On the **Playing Control** page, you can perform the following operations as required:

- Click the program to add the background color, background image, or background music. The music must be in the MP3, WAV, or WMA format.

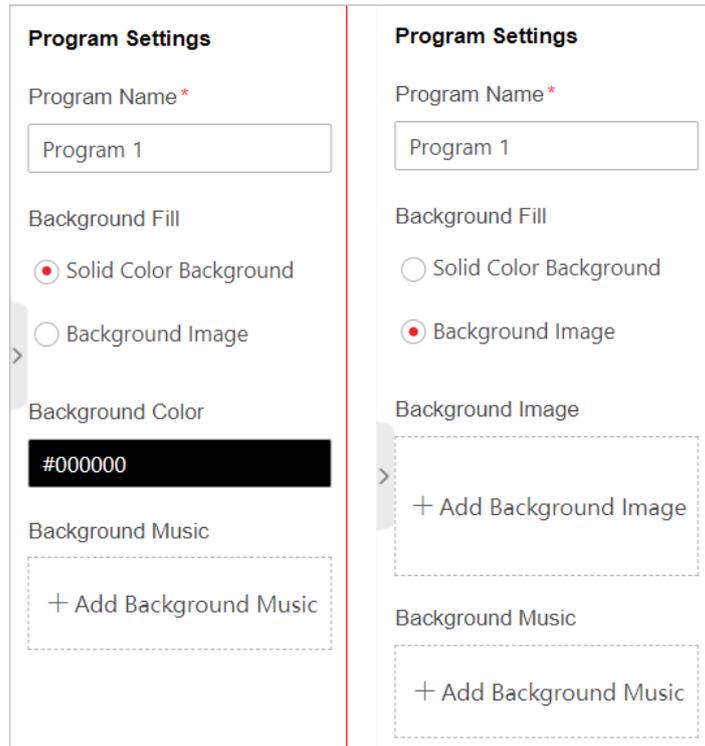


Figure 4-16 Add a Background

- Set the program status:
  - Click **Stop Playing**.
  - Click **Delete Program**.
  - Insert a USB flash drive into the device and click **Import via USB Flash Drive** to import the programs, materials and schedule in the USB flash drive to the device.
  - Insert a USB flash drive into the device and click **Export to USB Flash Drive** to export all programs, materials and schedule.
- Adjust the volume.
- Set the screen status:
  - If you enable **Screen On**, the screens exit the sleep mode.
  - If you do not enable **Screen On**, the screens enter the sleep mode.

## 4.2.2 Create and Play Multiple Programs

To play different programs at different times, you need to create multiple programs and create a schedule. The method for playing multiple normal programs or multiple ultra-long-screen programs is the same. The following will take normal programs as an example.

Step 1 Create one program and save it. For details, see 4.2.1 Create and Play One Program.

Step 2 Click **Create Program** and set the program parameters.

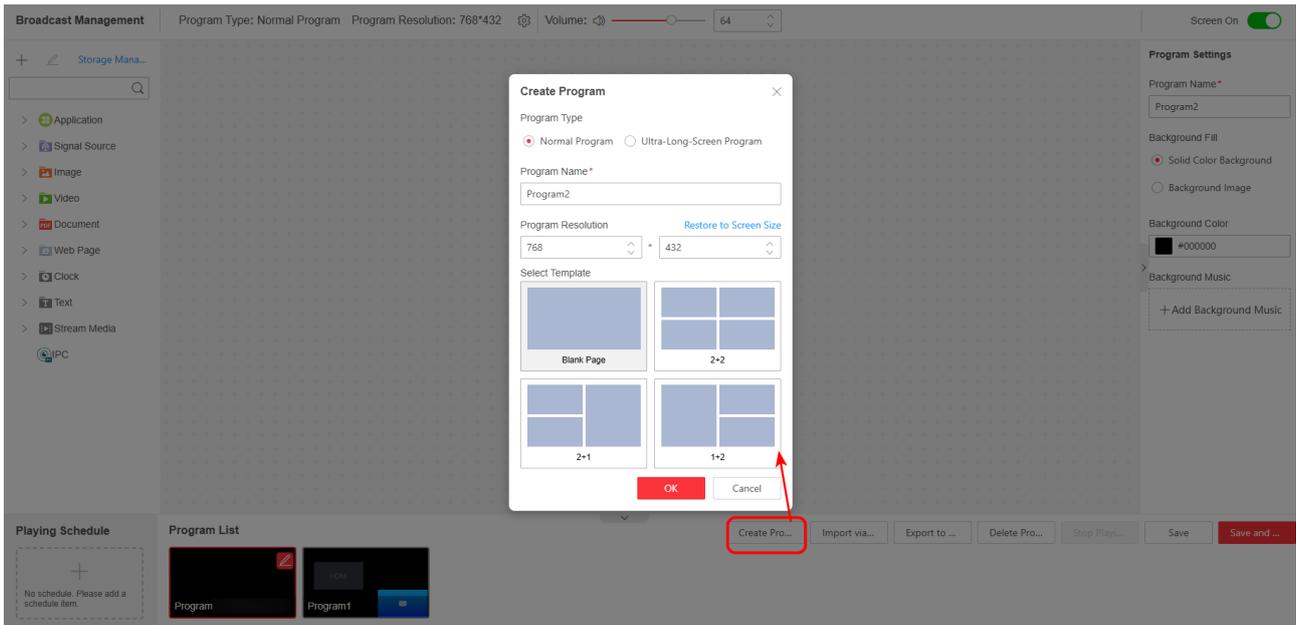


Figure 4-17 Create a New Normal Program

Step 3 Click  on the schedule area to create the schedule.

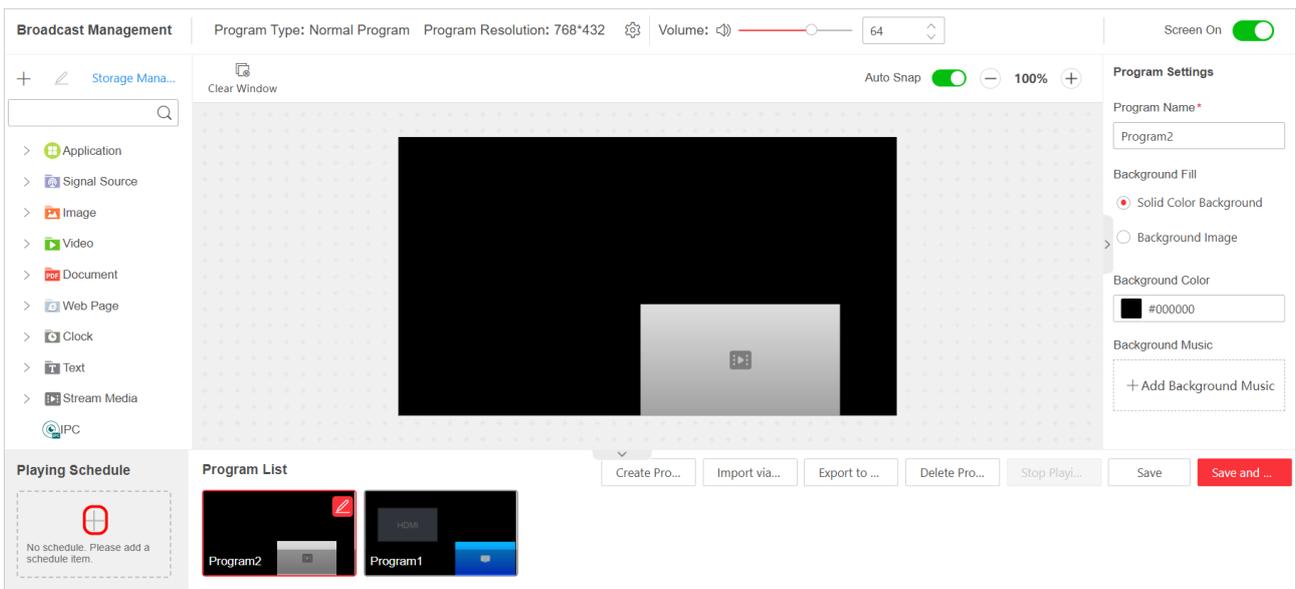


Figure 4-18 Create the Schedule

- Select **Auto-Switch**, drag programs to the playlist, and click **Save and Release**.
  - To clear all programs from the playlist, click **Clear**.
  - To save the auto-switch schedule without playing it immediately, click **Save**.

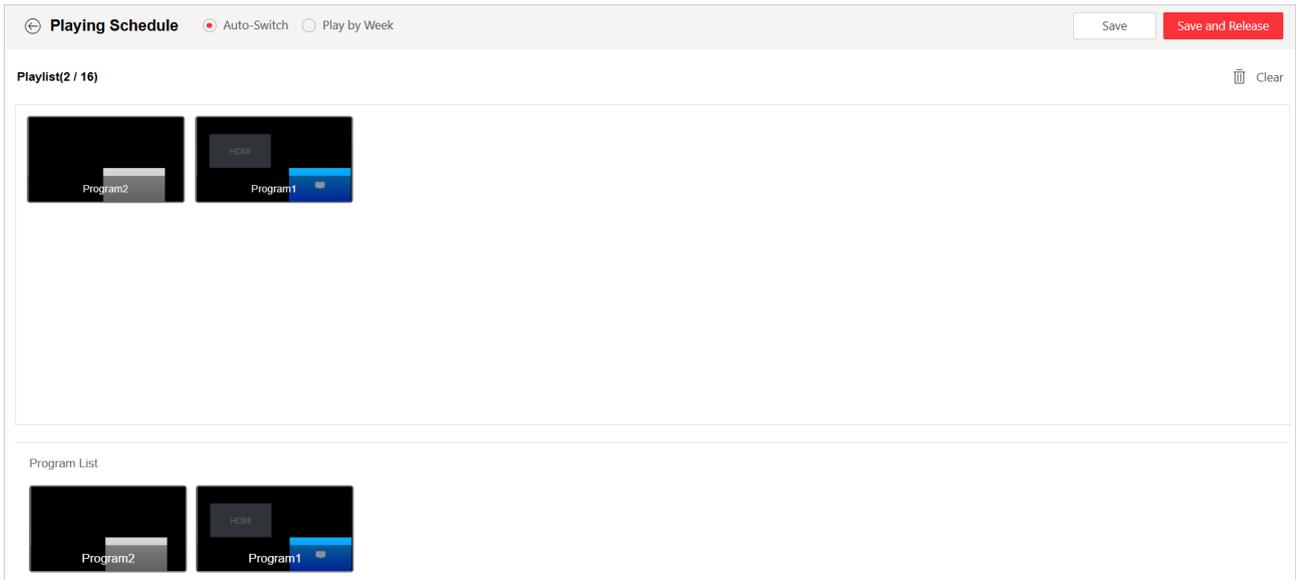


Figure 4-19 Set Auto-Switch Schedule

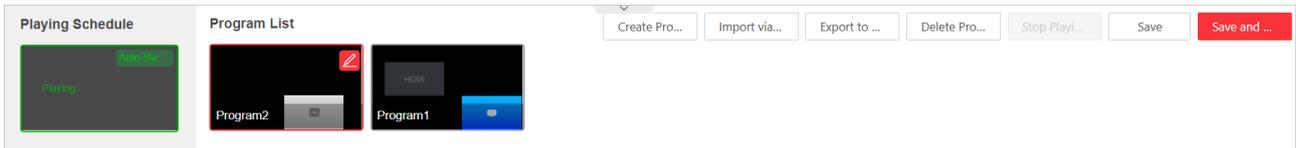


Figure 4-20 Auto Switch Normal Programs

- Select **Play by Week**, and set the programs and duration on the schedule.
- 1) On the schedule, left click the mouse to select the start time and hold the mouse to select the end time.
  - 2) Select a program and click **OK**.

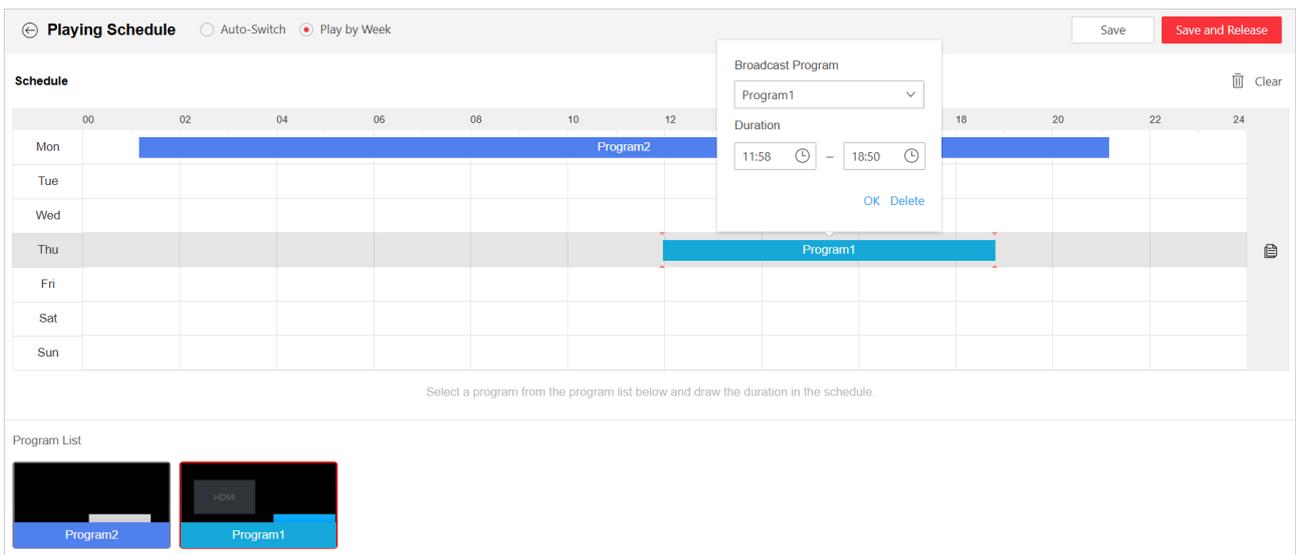


Figure 4-21 Configure the Schedule

- 3) Click **Save and Release**.
- 4) (Optional) You can perform the following operations as required:

- Click **Delete** to delete the current schedule item.
- Click  to copy the current schedule item settings to the selected weekdays and weekends.
- Click **Clear** to clear all schedule items.

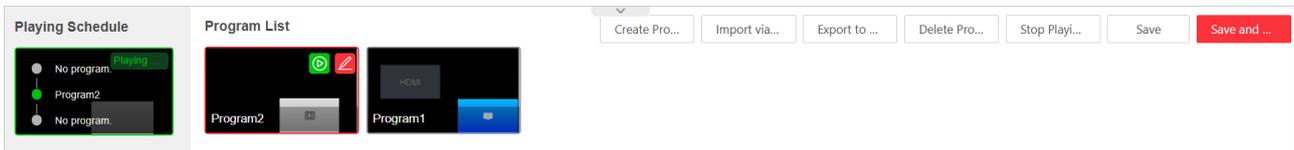


Figure 4-22 Play Normal Programs by Week

Step 4 (Optional) You can perform the following operations as required:

- Hover over the schedule and click  to edit the schedule.
- The program that is being edited is indicated by . To edit another program, hover over a program and click .
- Insert a USB flash drive into the device and click **Import via USB Flash Drive** to import the programs, materials and schedule in the USB flash drive to the device.
- Insert a USB flash drive into the device and click **Export to USB Flash Drive** to export all programs, materials and schedule.
- Insert a USB flash drive into the device, hover over a program that is not being edited, and then click  to export the program. You can enable auto program play after the insertion of USB flash drive.

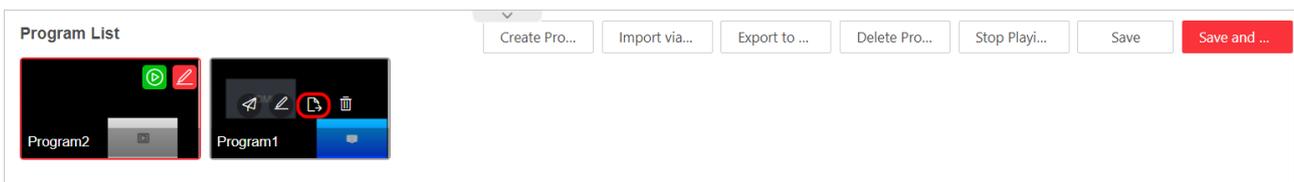


Figure 4-23 Export Single Normal Program

### 4.2.3 Manage Materials

Normal programs support application, signal source, image, video, document, web page, clock, text, stream media, and IPC materials, while the ultra-long-screen programs supports only image, text, and clock materials.

#### Configure Material Parameters

- For any type of material:
  - Adjust the window position: Select the media window, then drag with left mouse button or directly enter position coordinates.

- Adjust the window size: Drag window edges, enter width/height values, or double-click to fill the program sub-window (double-click again to restore original size).
- For the signal source material:
  - Manually set the resolution or enable **Resolution Self-Adaption**.
  - Enable audio. One program allows the audio output of only one signal source.

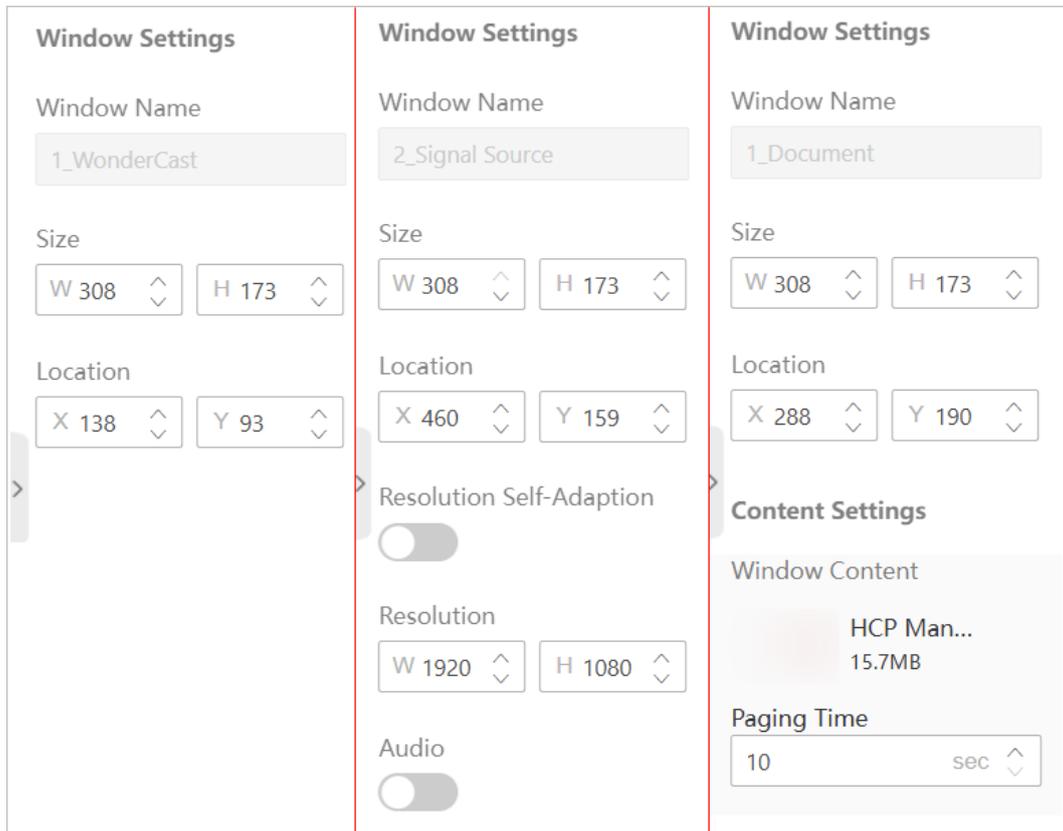


Figure 4-24 Configure Application/Signal Source/Document Material

- For the image or video material:
  - Click and hold  to adjust the playing order of the image or video.
  - Click **Add More Materials** to upload the locally saved images or videos, or to select the images or videos from the material library.
  - Set an interval for each image. When multiple images are bound with the same program sub-window, the system automatically change the displayed image according to the set interval.
  - One program allows the audio tracks of only one video. The audio tracks of the first video bound with the program window is enabled by default. To use the audio tracks of another video, click the target video and enable **Use Audio Tracks**.
  - Adjust the corner radius of the image window.
- For the PPT document and PDF document material: Set a paging time.

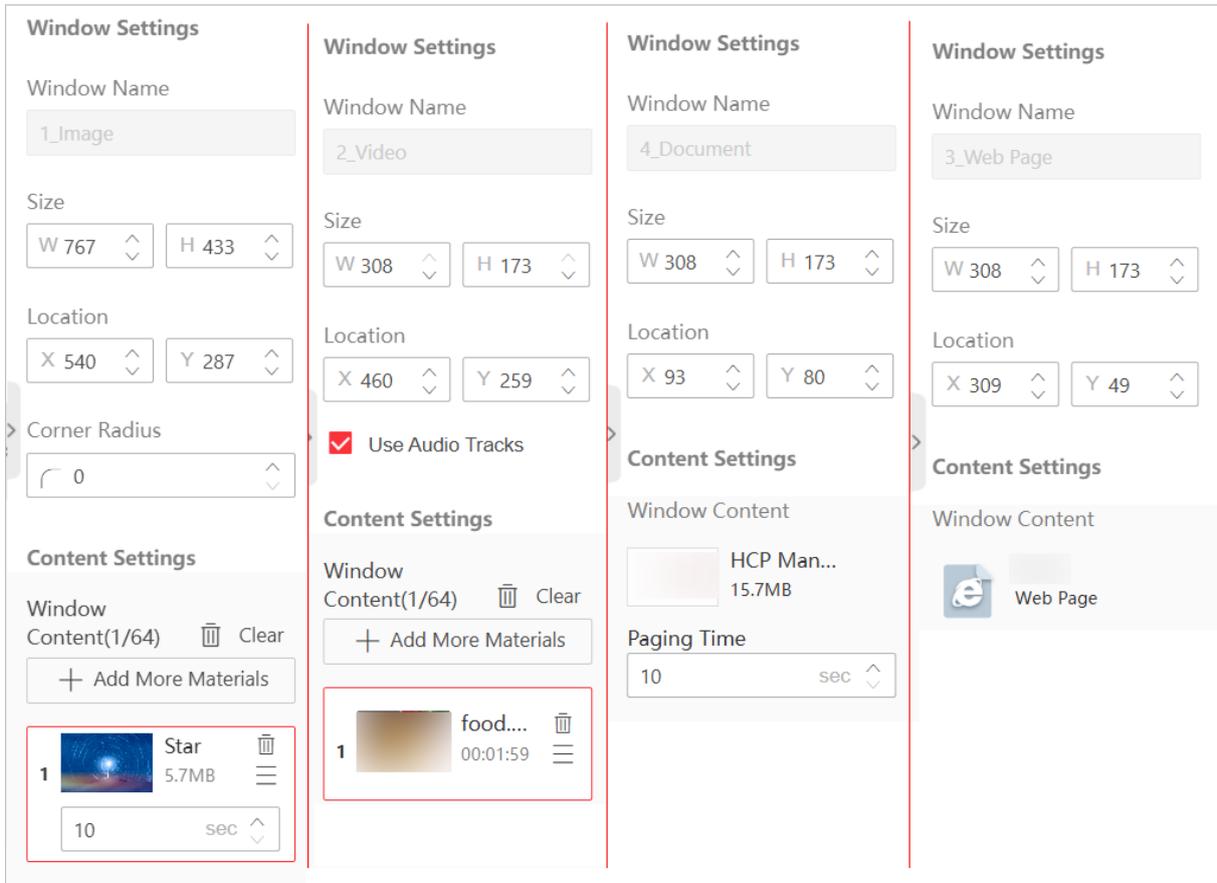


Figure 4-25 Configure Image/Video/Document/Web Page Material

- For the stream media or IPC material: One program allows the audio tracks of only one material. The audio tracks of the first video bound with the program window is enabled by default. To use the audio tracks of a stream media or IPC material, click the target material and enable **Use Audio Tracks**.

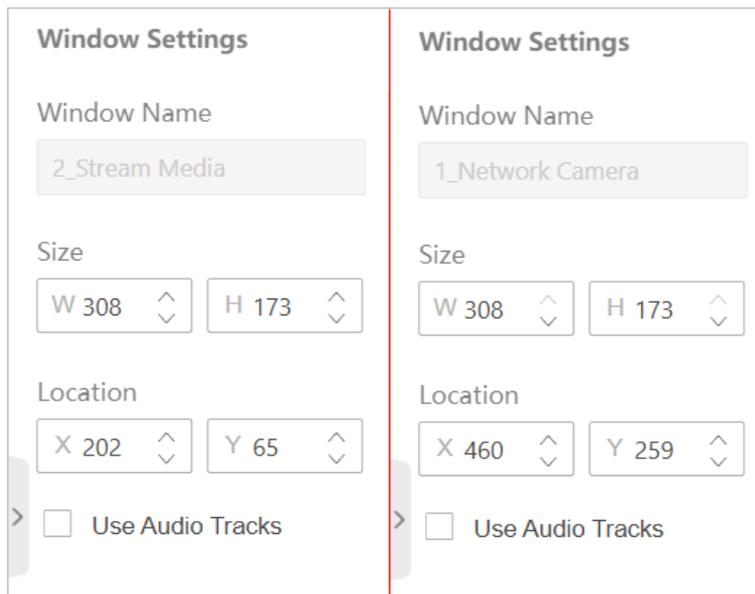


Figure 4-26 Configure Stream Media/Network Camera Material

- For the clock material:
  - Supports 7 types of clocks. One program allows only one clock.
  - The time are displayed by default. You can click  to hide the time.
  - Select the clock template.
  - Edit the font size and color.
- For the text material:
  - Enter the content, and set the text basic parameters, text outline, text shadow, and text background.
  - For the dynamic text material, set the scrolling direction and speed.

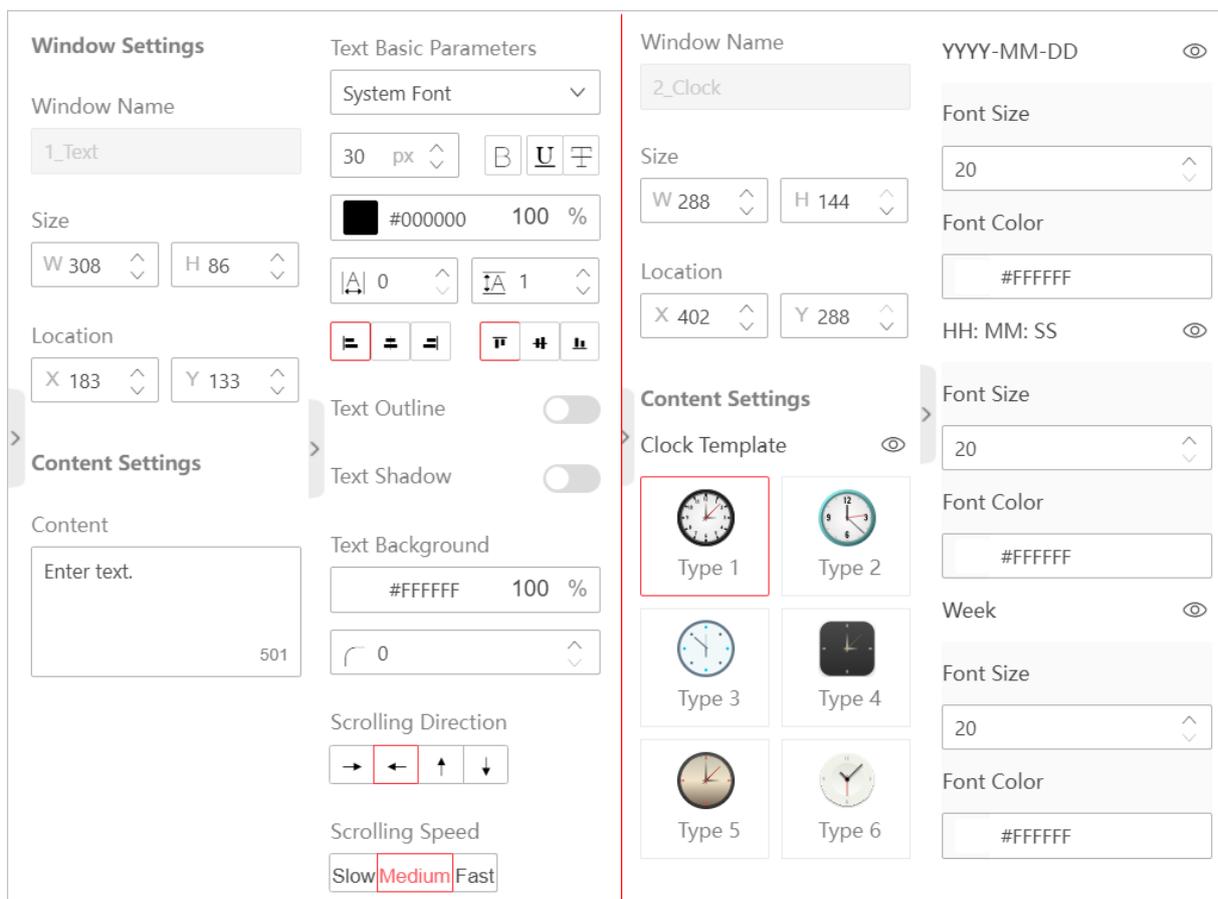


Figure 4-27 Configure Text/Clock

## Delete Materials

Click **Storage Management** to go to the **Storage Management** page, select the unused materials and then click **Delete**.

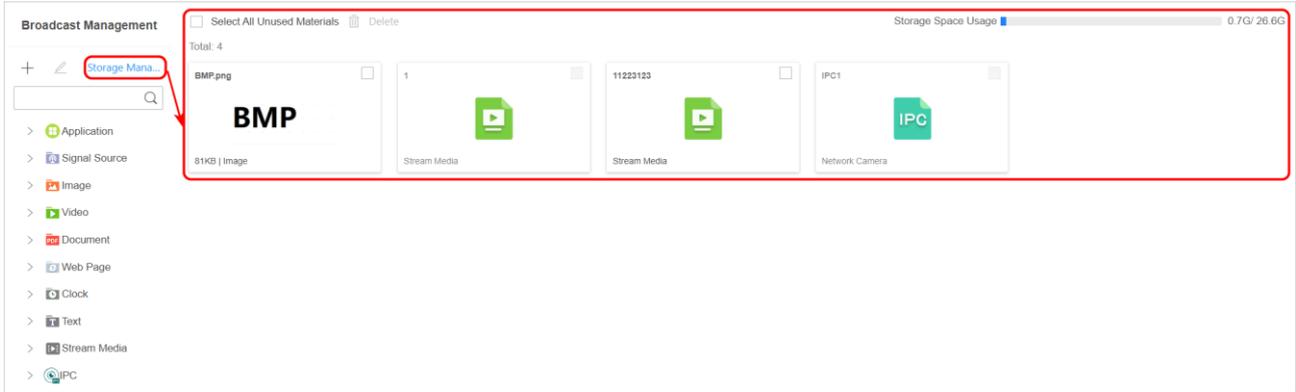


Figure 4-28 Storage Management Page

## Chapter 5 Display/Device Maintenance

### 5.1 View Device Status

Go to **Overview** or go to **Screen Maintenance** → **LED Controller Status** to view the following information:

- After you use multiple cascaded C or V devices to splice the video wall, you can view the basic information and status of the screens. Click **Details** of a screen to view the LED controller details, network port usage, and LED controller basic information.

Video Wall Information

The screenshot displays the 'Video Wall Information' interface. It features a dark background with two panels for different screen locations. Each panel includes a 'Details' link and a table of device information. Below the table are three icons representing temperature, network usage, and another status metric.

Screen Location	LED Controller IP Address	Device Serial No.	Resolution	Screen Status	Device Version	Temperature	Network Usage	Other Metric
Screen Location (1, 1)	105		480*810	Normal		39°C	1%	82%
Screen Location (2, 1)	7		1920*1080	Exception		36°C	5%	77%

Figure 5-1 View Spliced C/V Device Status

- When you control a single C or V device or when you do not use multiple cascaded C or V devices to splice the video wall, you can click a device to view its details, network port usage, and basic information.
  - You can identify the online and offline status of a receiving card: yellow indicates the offline status, and blue indicates the online status. Hover over a screen to view the resolution of an online receiving card.
  - Hover over a network port to view the network port usage.

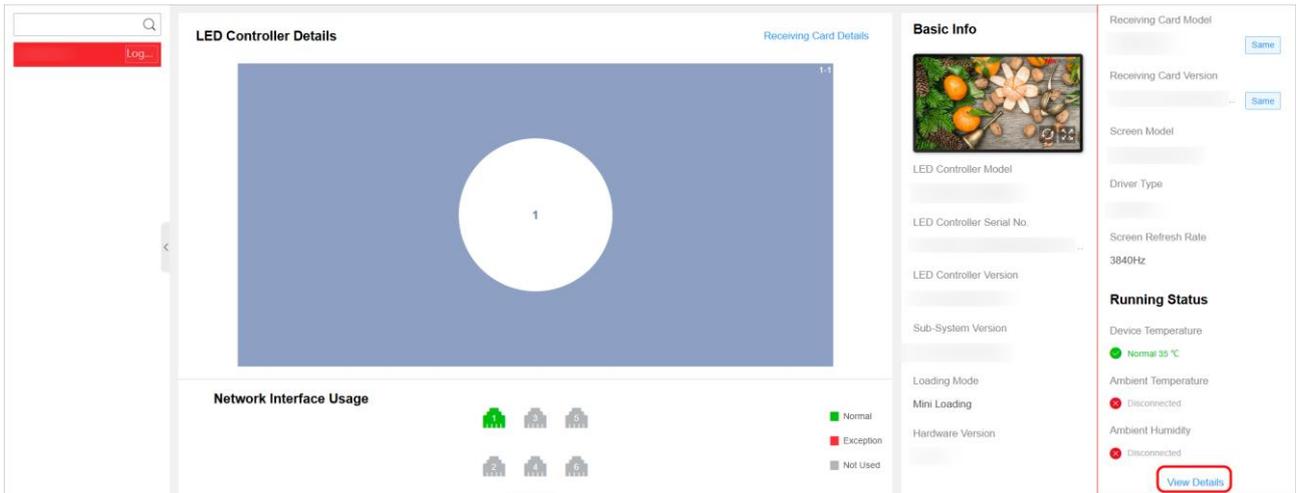


Figure 5-2 View Status of Single C/V Device

- When you control a P device, you can view its details, network port usage, and basic information.
  - You can identify the online and offline status of a receiving card: yellow indicates the offline status, and blue indicates the online status. Hover over a screen to view the resolution of an online receiving card.
  - Hover over a network port to view the network port usage.

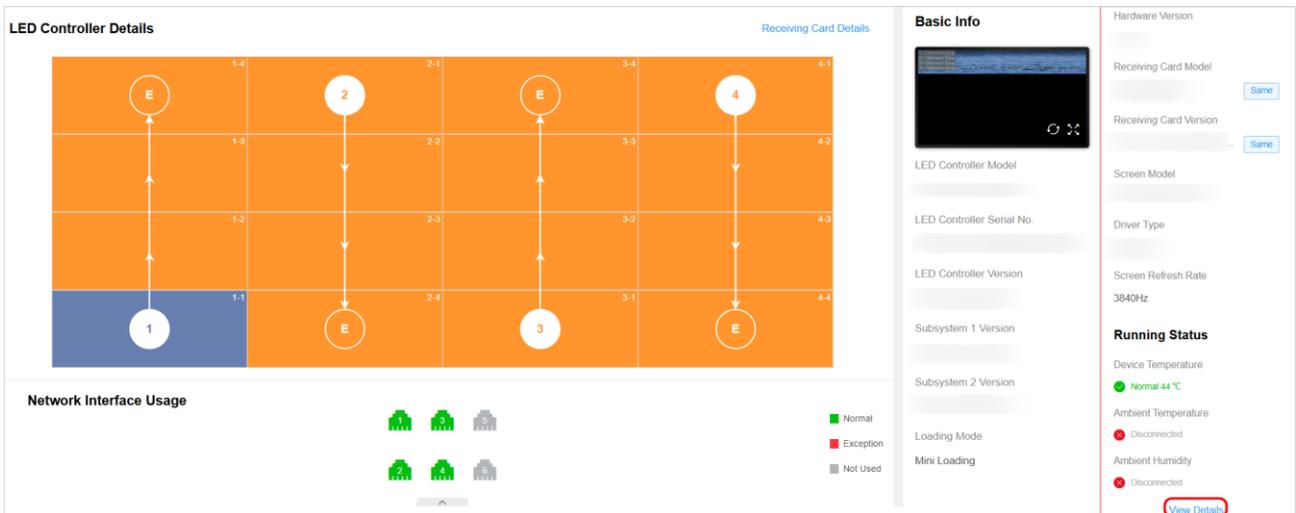


Figure 5-3 View P Device Status

- For any device in the C, V, or P series, you can click **Receiving Card Details** to view the receiving card details. For a HUB receiving cards, you can click  to view the signal port connection.

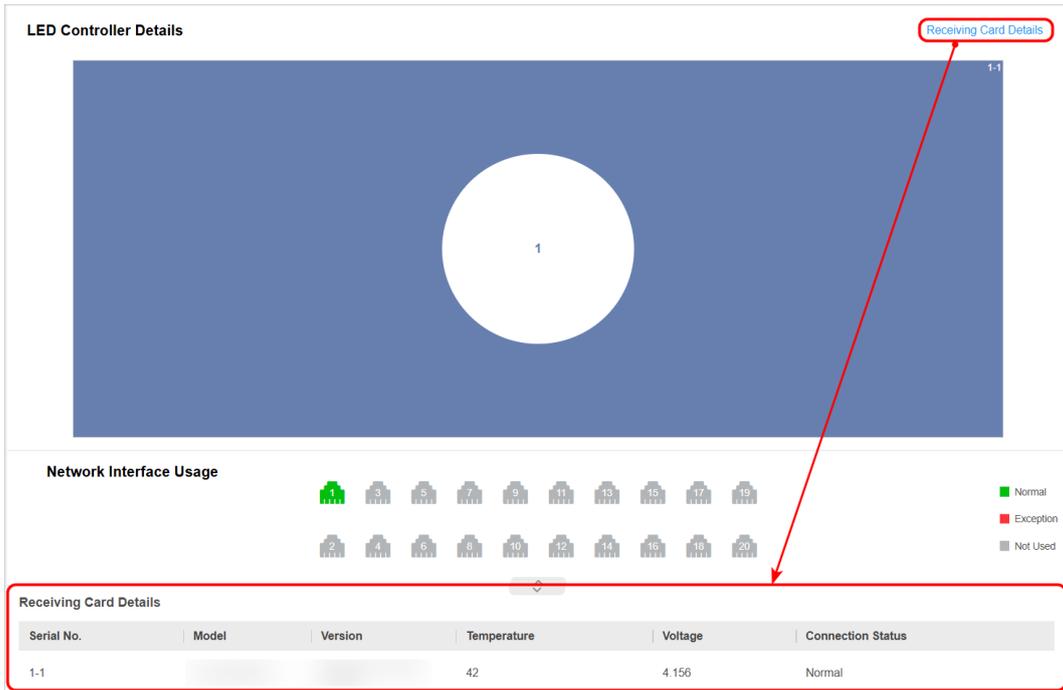


Figure 5-4 View Receiving Card Details

- For any device in the C, V, or P series, you can click **View Details** to go to **Configuration** → **System** → **Basic Information**.

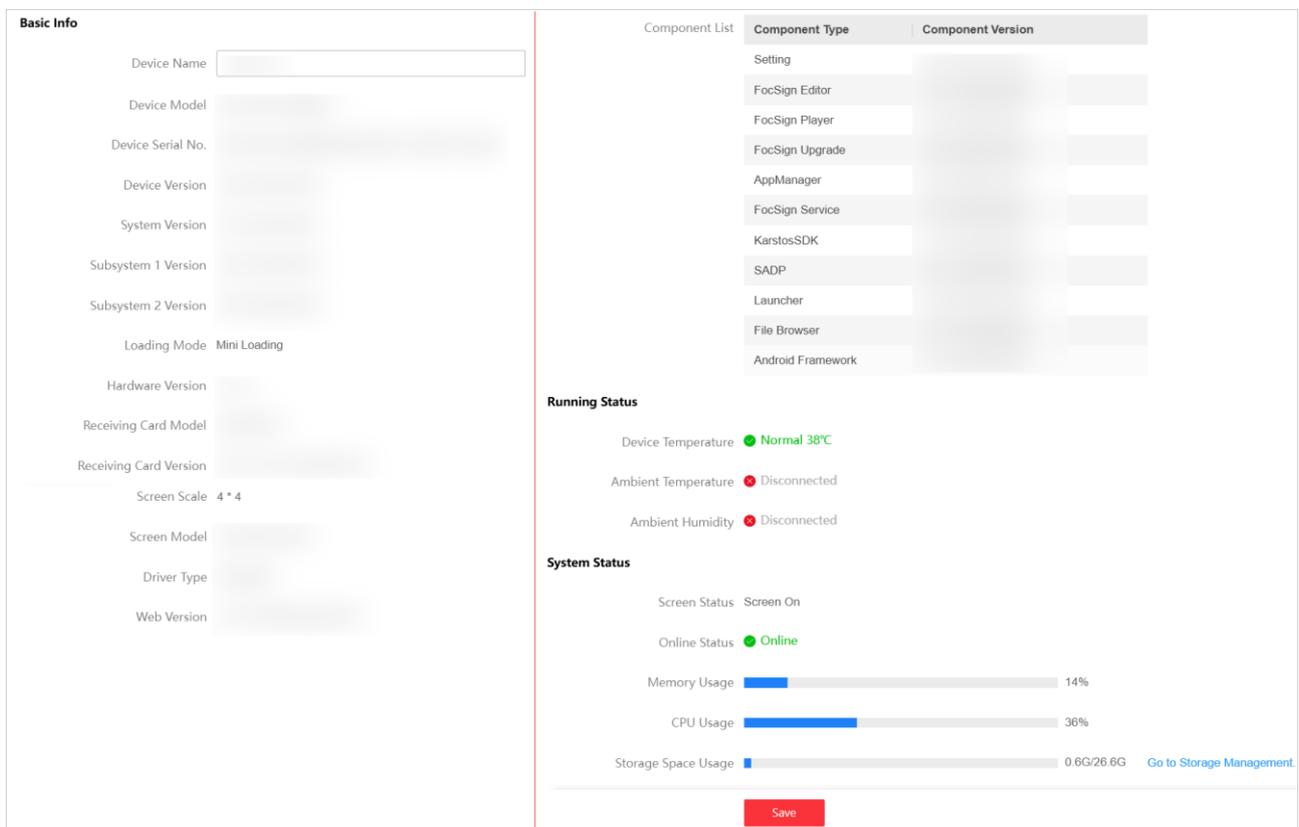


Figure 5-5 Basic Information Page of P Device

- After lightening the display via the LED Tool client, you will see a prompt to reconfigure the display lightening parameters on the **Overview** page when you log in to the web page of a C, V, or P device. Please reconfigure the display lightening parameters on the web page.

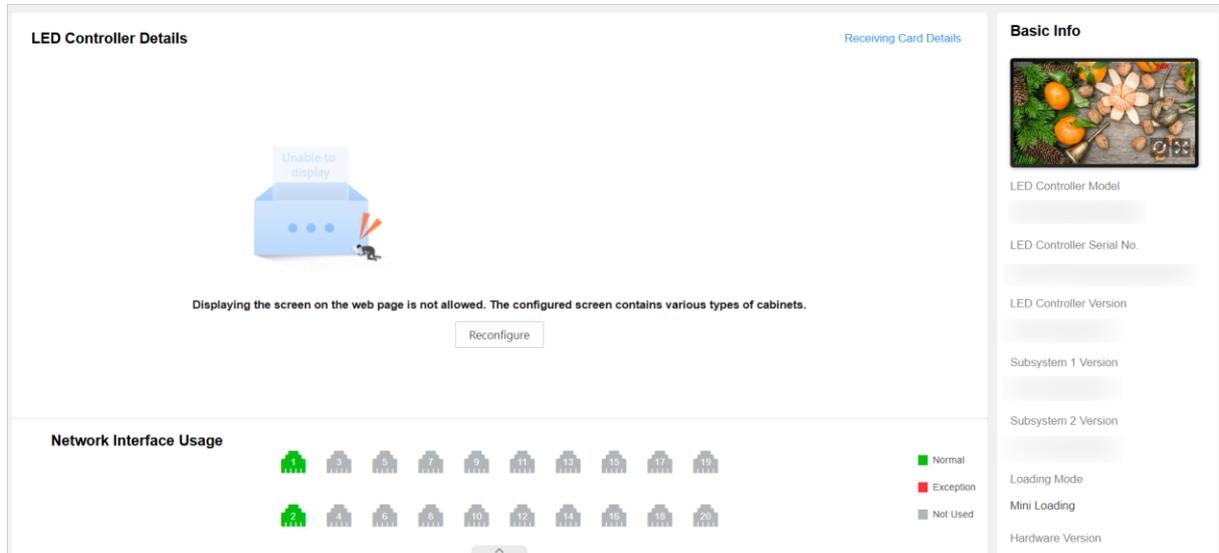


Figure 5-6 Reconfiguration Prompt on Overview Page

## 5.2 View Video Wall

### View V-Controller Video Wall

When multiple V devices are cascaded to form a video wall, you can go to **Overview** or **Screen Maintenance** → **LED Controller Status** to view basic screen information and status. Click **Details** of a screen to check LED controller configuration, network port usage, and other detailed parameters.

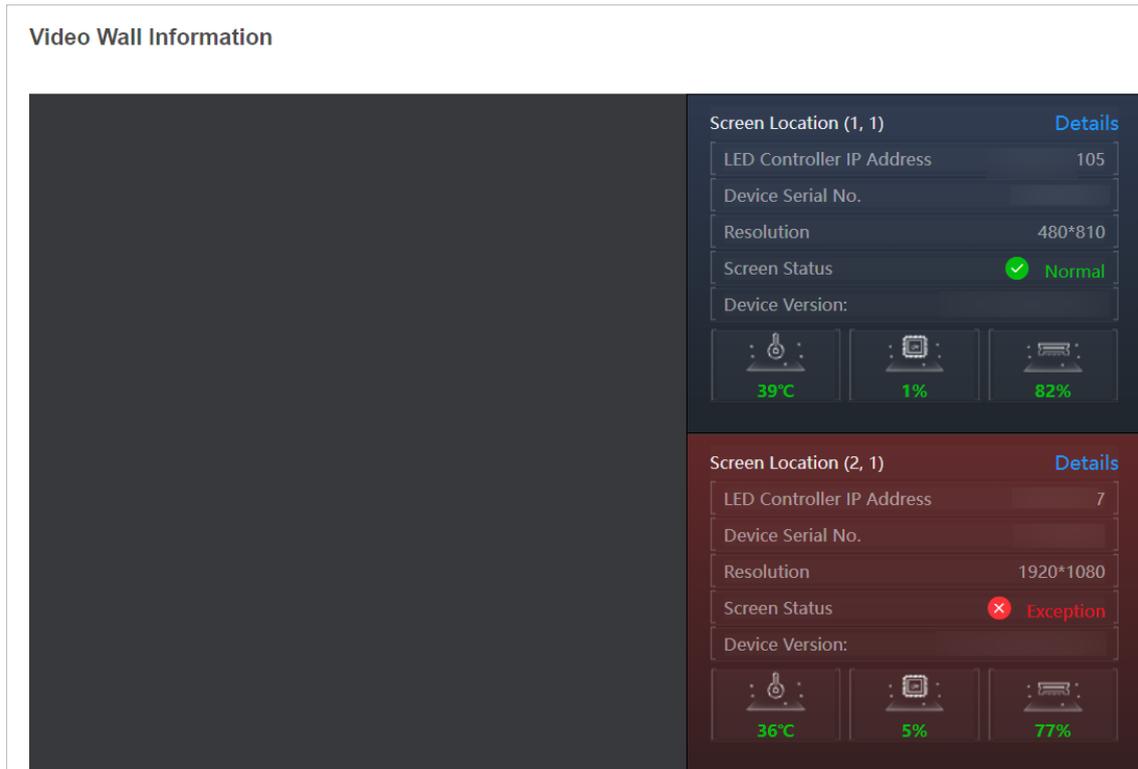


Figure 5-7 View V-Controller Video Wall

## View C-Controller Video Wall

- Step 1 When the display's driving capacity exceeds a single C device's limit, deploy multiple C devices with a video wall controller to splice a video wall. (C devices do not support splicing.)
- Step 2 Log in to the video wall controller's web page or open the HCP client, create a video wall, and bind the HDMI output ports that are connected with the C devices to the video wall.
- Step 3 On the C device's web page, synchronize the settings according to the video wall controller's configuration.
- 1) Go to **Video Wall Configuration** and select the C devices to be configured.
  - 2) Enter the video wall name, row value, and column value.
  - 3) Click **Show ID on Screen**.
  - 4) According to the IDs on the screens, drag online C devices from the left device list to the corresponding windows on the right. Repeat until all video wall windows are associated with devices.
  - 5) Click **Save**.

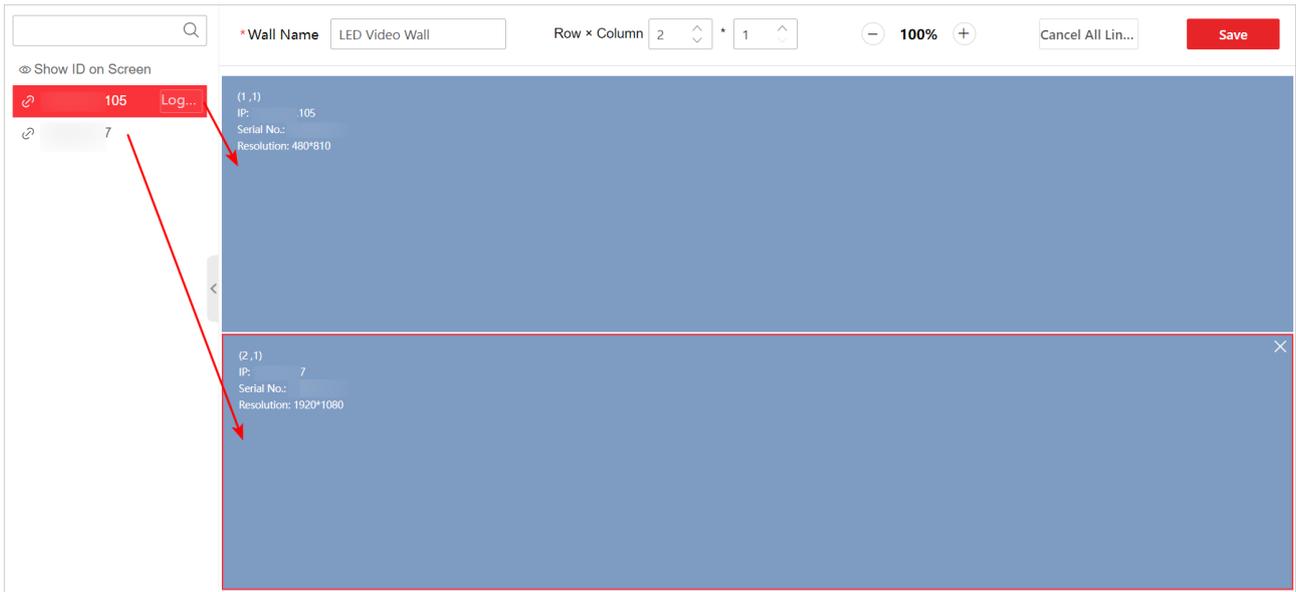


Figure 5-8 Splice the Video Wall

Step 4 Go to **Overview** or **Screen Maintenance** → **LED Controller Status** to view basic screen information and status. Click **Details** of a screen to check LED controller configuration, network port usage, and other detailed parameters.

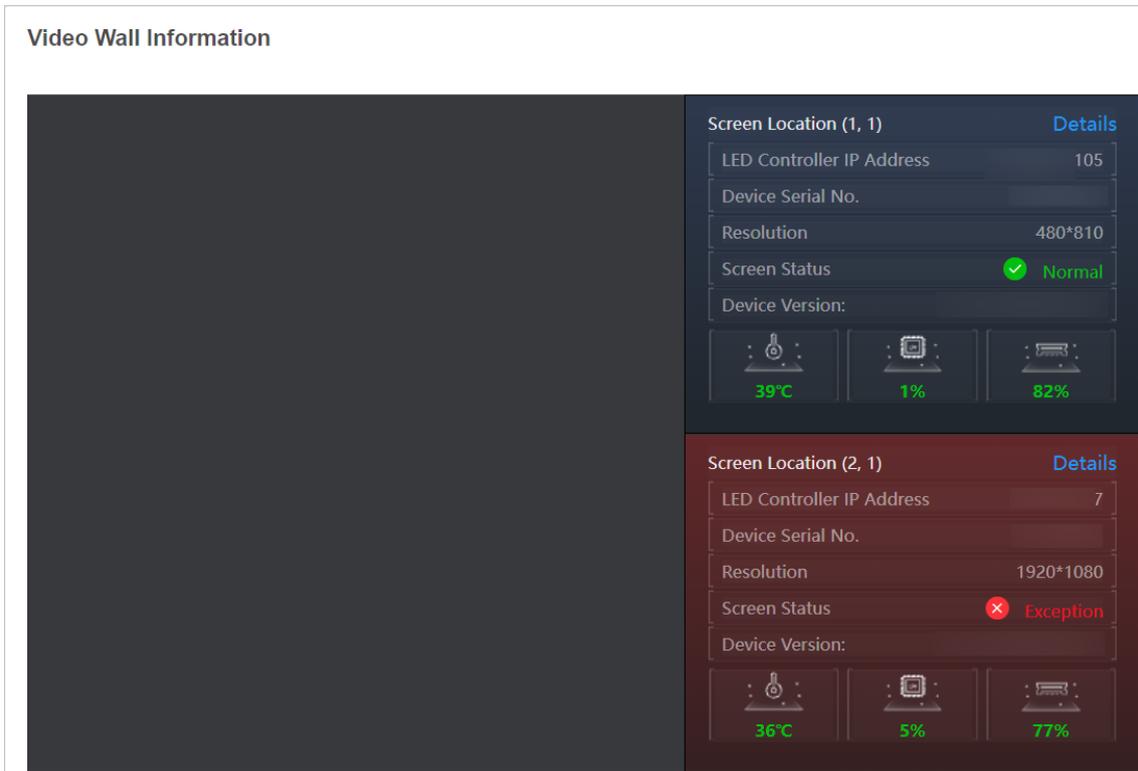


Figure 5-9 View C-Controller Video Wall

## 5.3 Quickly Maintain a Receiving Card

If the display is installed with a new receiving card, you can use this function to copy the configuration of the reference receiving card to the new receiving card. Make sure the newly installed receiving card is connected with the LED controller.

Step 1 Go to **Maintenance and Security** → **Receiving Card Quick Maintenance**.

Step 2 (Optional) Select a single C or V device.

Step 3 Select a receiving card and click **Set as Reference Card**. The configuration of the reference receiving card can be copied to the new receiving card.

Step 4 Select a receiving card and click **Set as New Card**.

Step 5 Click **Copy** to copy the configuration file of the reference card to the new card.

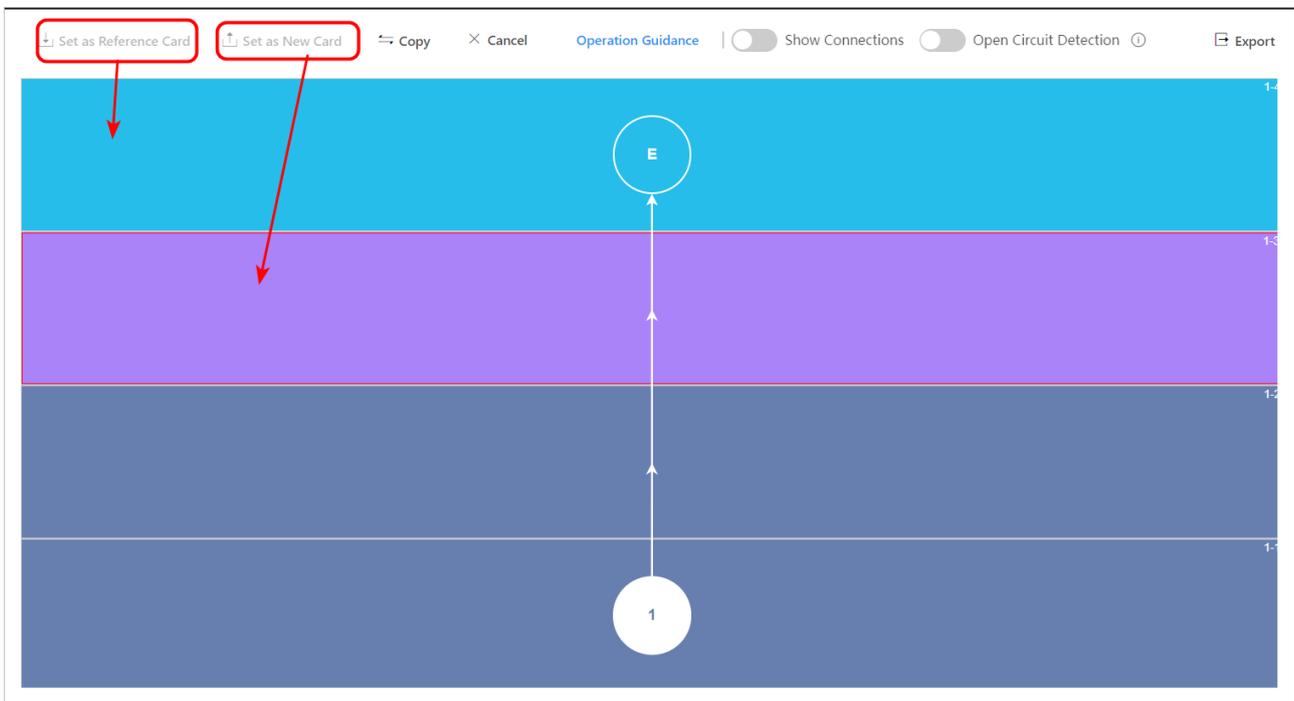


Figure 5-10 Quickly Maintain Receiving Cards

Step 6 (Optional) You can perform the following operations as required:

- Click **Export** to export the receiving card program file or receiving card configuration file.

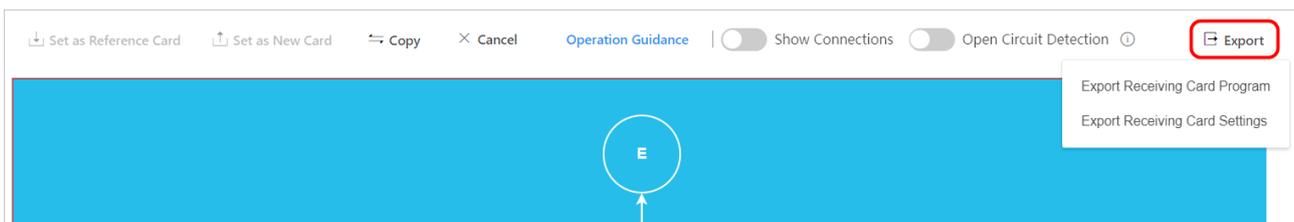


Figure 5-11 Export Receiving Card Parameters

- Click **Show Connections** to view the signal connection of the LED controller.

- Enable **Open Circuit Detection** to repair the cross phenomenon caused by damaged lamp beads. Before repairing the damaged lamp beads, disable open circuit detection.
- Click **Cancel** to cancel the copy operation.

## 5.4 Test Screen Condition

Use the color bars and waves to check whether the screen color is normal or whether the dead pixels exist.

Step 1 Go to **Maintenance and Security** → **Screen Test**.

Step 2 (Optional) Select a single C or V device. (Configuring all devices is enabled by default.)

Step 3 Enable the screen test.

Step 4 Select a pure color, gray scale, or line to check whether the screen color is normal or whether the dead pixels exist.

If the existing color does not meet the requirements, add a new color. You can edit the newly added color.

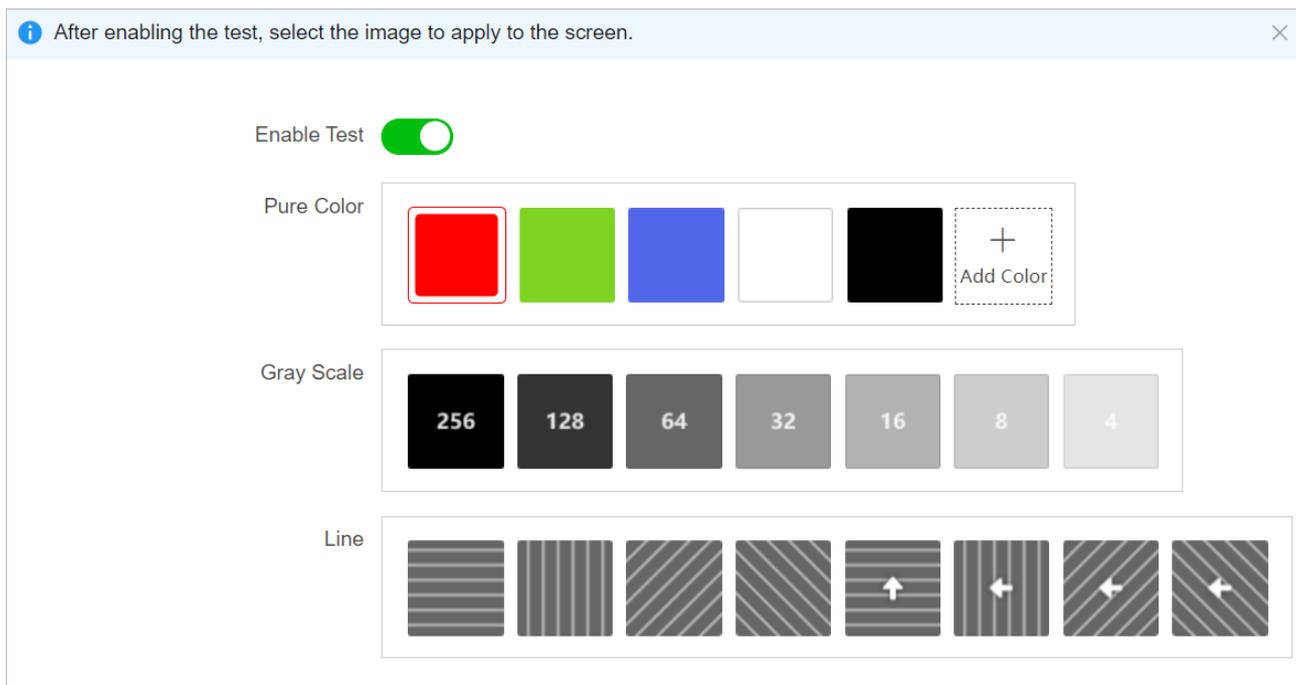


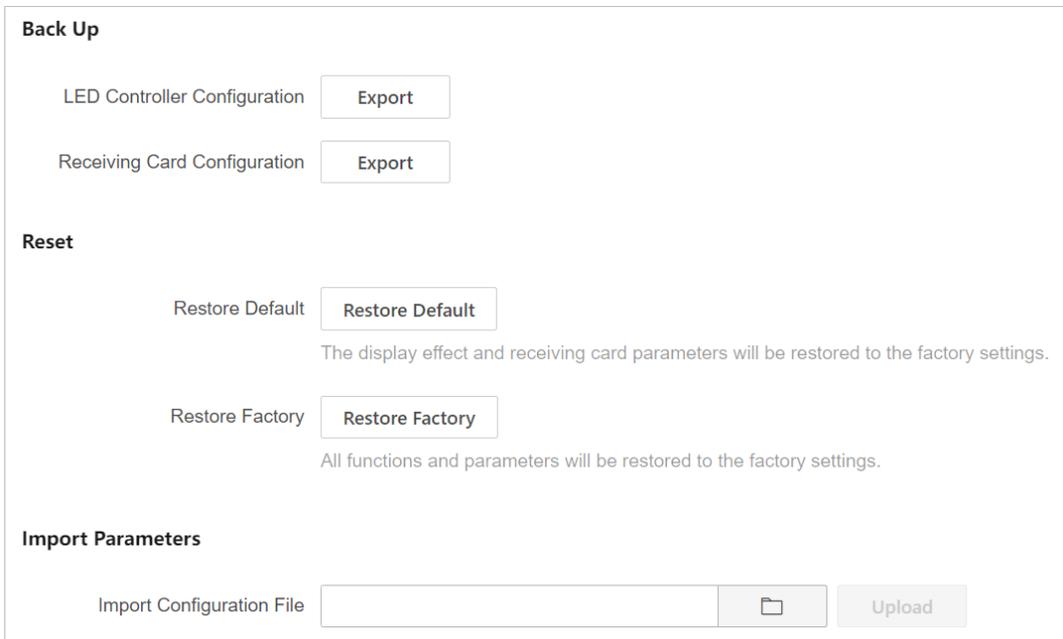
Figure 5-12 Test Screen Condition

## 5.5 Maintain the System

Go to **Maintenance and Security** → **System Maintenance** to perform the following operations as required:

- On the **Restart** page, restart the LED controller or receiving card.
- On the **Upgrade** page, click  to select a locally saved upgrade package and click **Upgrade**.

- Do not power off the device during the upgrade process.
- If the device cannot run normally due to the upgrade failure, contact the supplier timely.
- After the upgrade process is complete, the device restarts automatically.
- On the **Backup and Reset** page, export the configuration file of the LED controller or receiving card.
- On the **Backup and Reset** page, reset the device:
  - Click **Restore Default** to restore the display effect and receiving card parameters to the factory settings. Please use this function with caution.
  - Click **Restore Factory** to restore all functions and parameters to the factory settings. Please use this function with caution.
  - Click  to select a locally saved configuration file and click **Upload**.



**Back Up**

LED Controller Configuration

Receiving Card Configuration

**Reset**

Restore Default   
The display effect and receiving card parameters will be restored to the factory settings.

Restore Factory   
All functions and parameters will be restored to the factory settings.

**Import Parameters**

Import Configuration File

Figure 5-13 Back Up and Reset Device

- On the **Log** page, set the search condition and click **Search**. You can view the searched logs in the list below. You can click **Export** to export the logs.

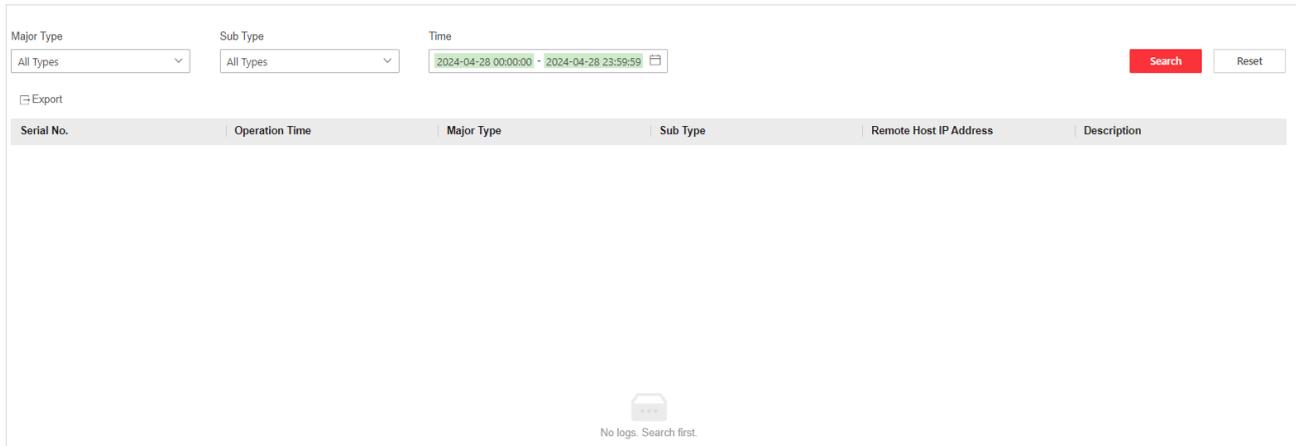


Figure 5-14 Search Logs

- On the **Device Debugging** page of the C or V device, enable the following functions as required:
  - Enable SSH (Secure Shell) as required. With SSH enabled, you can use a computer installed with the SSH client to access the device. If SSH is not needed, it is recommended to disable SSH to ensure network security.
  - If the device supporting dual power supply is installed with two power supplies, you can enable **Dual Power Supply**. When one power supply fails, you can view the relevant prompt on the device web page.

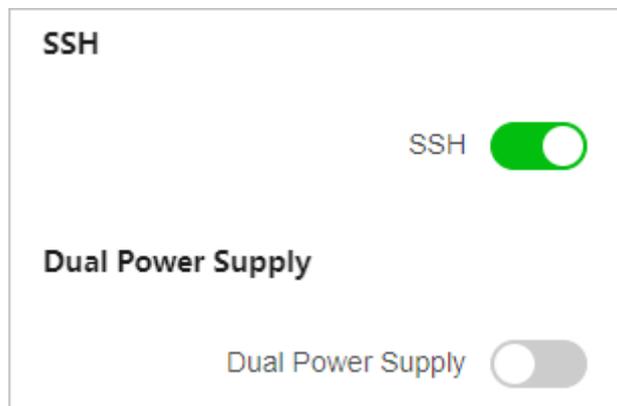


Figure 5-15 Debug C/V Device

- On the **Device Debugging** page of the P device, enable the following functions as required:
  - If the device supporting dual power supply is installed with two power supplies, you can enable **Dual Power Supply**. When one power supply fails, you can view the relevant prompt on the device web page.
  - Enable **Log Records** to record the maintenance logs of the Android system.
  - Click **Export** to export the ZIP file of the Android system maintenance logs.
  - Enable **ADB Debugging**, and then use the Android Debug Bridge (ADB) tool and the device activation password to maintain the device Android system.

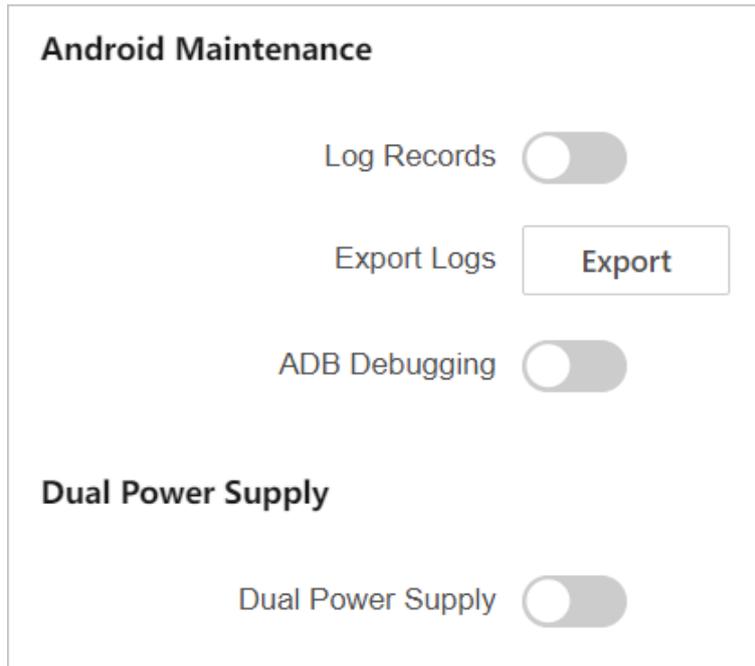


Figure 5-16 Debugging P Device

- On the **Permission Management** page, turn on or off the screens controlled by the device:
  - 1) Enable **Screen-Off**.
  - 2) Select a screen-off method.
  - 3) Set the screen-on code. When the screens are turned off, you can go to the **Permission Management** page and enter the screen-on code to turn on the screens.

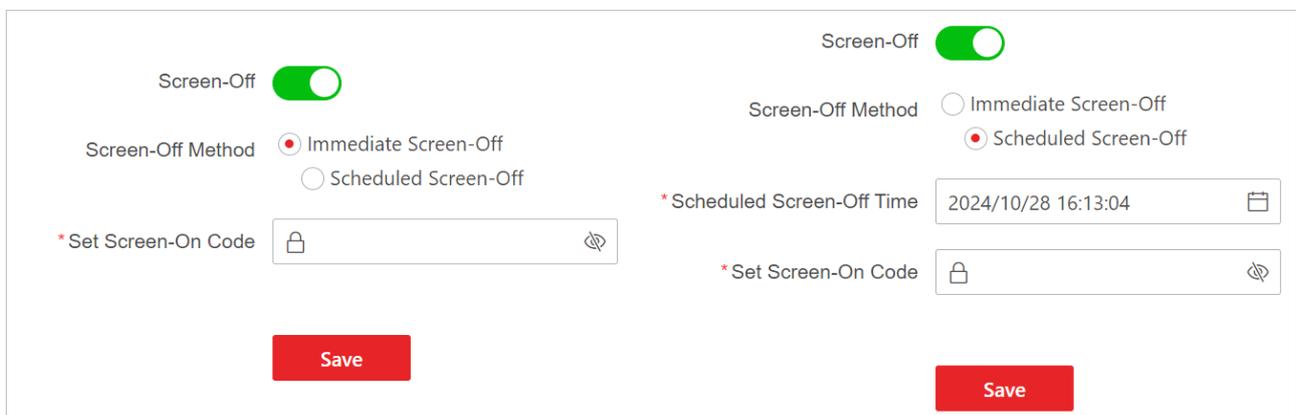


Figure 5-17 Permission Management Page

## Chapter 6 Screen Configuration (Other Pages)

### 6.1 Use the OSD Page

#### Before You Start

Make sure that you have lightened the display. For details, see “2.3 Lighten the Display”.

#### Steps

Step 1 Select a remote control and connect the selected remote control to the device.

- Insert the USB plug of RF remote control into the USB port of the device. The valid distance between RF remote control and device is about 15 m within 45° angle in the left and right.
- Insert the 3.5 mm plug of IR remote control into the IR IN port of the device. The valid distance between IR remote control and device is about 10 m within 45° angle in the left and right.

Step 2 Use the remote control to operate the OSD page of the device.

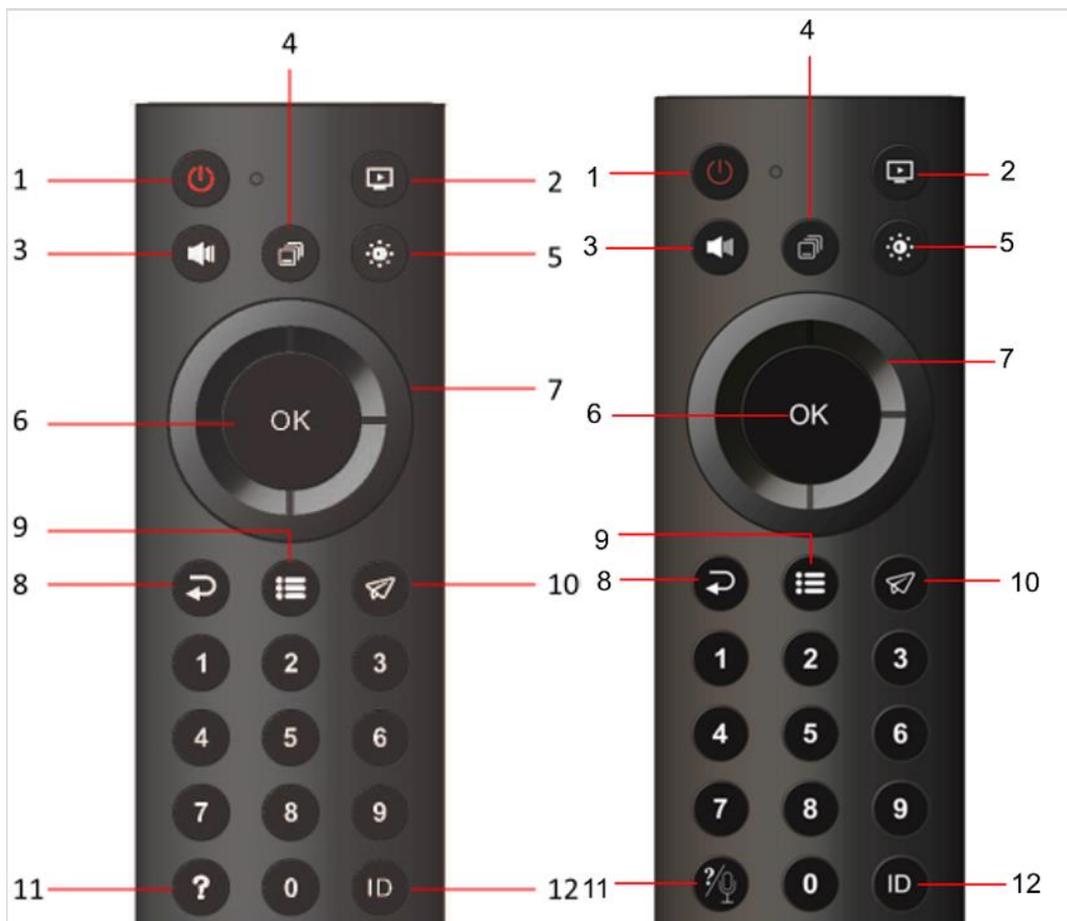


Figure 6-1 IR Remote Control (Left) and RF Remote Control (Right)

Table 6-1 Remote Control Button Description

No.	Name	Description
1	Power	<ul style="list-style-type: none"> <li>● If the display is on, pressing the button will make the display enter sleep mode.</li> <li>● If the display is in sleep mode, pressing the button will wake up the display.</li> </ul>
2	Signal source switchover	Press the button to call out the signal source channel page. Use the left and right direction buttons to switch the signal source channel, and press OK to confirm the channel selection.
3	Volume	Press the button to call out the volume adjustment page. Use the left and right buttons to adjust the volume.
4	Shortcut menu	<p>Press the button to enter the shortcut menu page.</p> <ul style="list-style-type: none"> <li>● After selecting <b>System Info</b>, you can view the LED controller information, receiving card information, and system monitoring information.</li> <li>● After selecting <b>Source Info</b>, you can press the button to call out the signal source information page to view the detailed signal source information.</li> <li>● After selecting <b>Choose Scene</b>, you can press the button to call out the scene switching page. Use the up and down direction buttons to switch scenes, and press OK to confirm the scene selection.</li> <li>● After selecting <b>Open Dehum</b>, you can enter the dehumidification page. Use the left and right direction buttons to enable or disable the immediate dehumidification function.</li> <li>● After selecting <b>Best EDID</b>, you can press OK to enable BEST EDID, and press OK again to disable it.</li> </ul>
5	Brightness adjustment	Press the button to call out the brightness adjustment page. Use the left and right direction buttons to adjust the brightness.
6	OK	Confirm the current configuration.
7	Direction	Control the upper, lower, left and right directions.
8	Exit	Exit the current page.
9	Menu	<p>Enter the main menu page.</p> <p>On the main menu page, you can configure input, output, display, and color parameters.</p>
10	Back	Return to the main menu page.

No.	Name	Description
11	Help	<p>Press the button to call out the remote control help instruction.</p> <p> <b>Note</b></p> <p>Voice control is not supported.</p>
12	ID	<ul style="list-style-type: none"> <li>• Press the button to show the device ID.</li> <li>• Press the button to show the device ID and enter the ID of the device you want to control. Ensure that you have enabled <b>Sending Card Network Cascade</b> on the <b>LED Settings</b> → <b>System Configuration</b> → <b>Sending Card Network Cascade</b> page of the LED batch controller client.</li> </ul>

## 6.2 Use GUI Page (P Device)

### 6.2.1 GUI Page Overview

Only P devices support the GUI page.

**Step 1** Connect the mouse and keyboard to the USB ports of the device, and connect the device to the display.

**Step 2** Lighten the display connected to a P device. For details, see “2.3 Lighten the Display”.

**Step 3** The FocSign Player page shows on the lightened display.

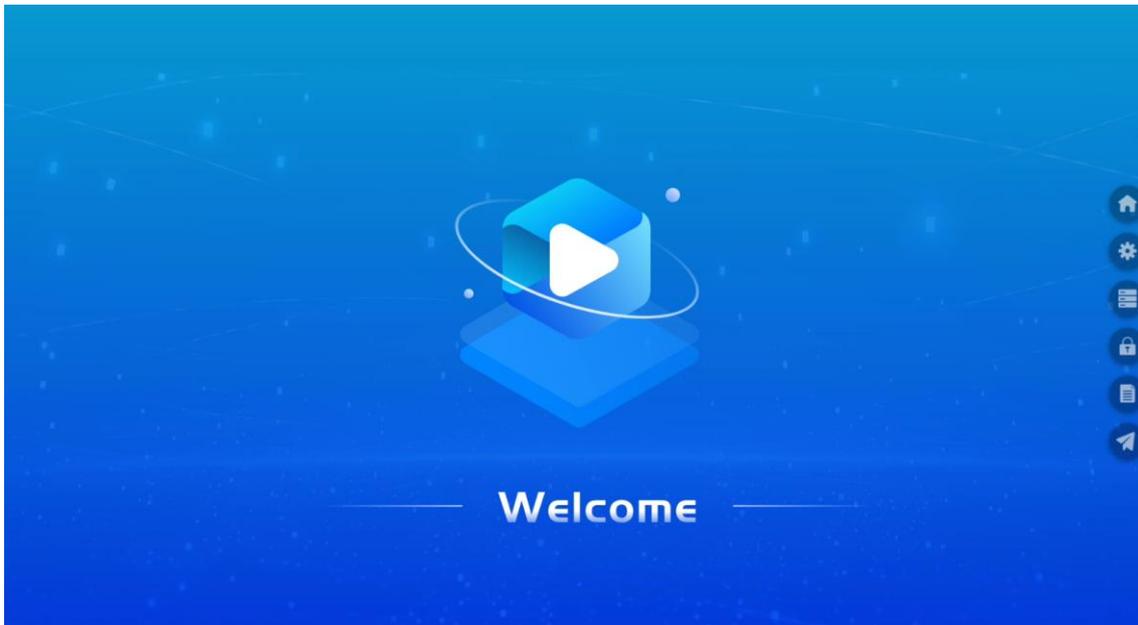


Figure 6-2 FocSign Player Page

- Click  to enter the main page.
  - Click **Setting** or click  in the lower right corner of the main page to enter the **Setting** page.
  - Click FocSign Player to enter the FocSign Player page.
  - Click  to view the notifications.
  - Right click the mouse to exit the current application or current page.



Figure 6-3 GUI Main Page

- Click  to open the **System Settings** window. You can set the terminal information and screen lock.

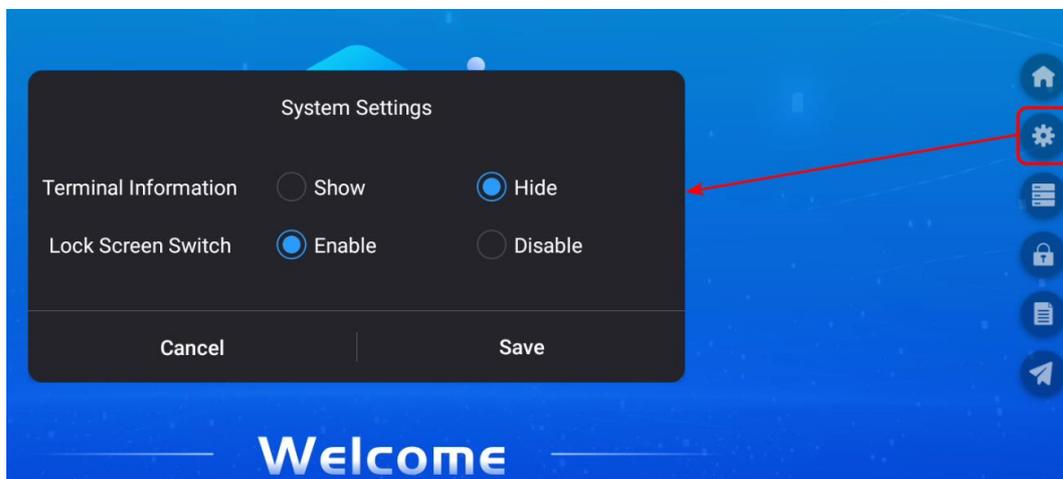


Figure 6-4 System Settings Window

- Click  to open the **Server Settings** Page. This function is not available.
- Click  to enable screen lock and click  to lock the screen. After the screen is locked, you need to enter the device activation password to unlock the screen.
- Click  to open the **Basic Information** page to view the basic information of the device.
- Click  to enter the **Playing Schedule** page.

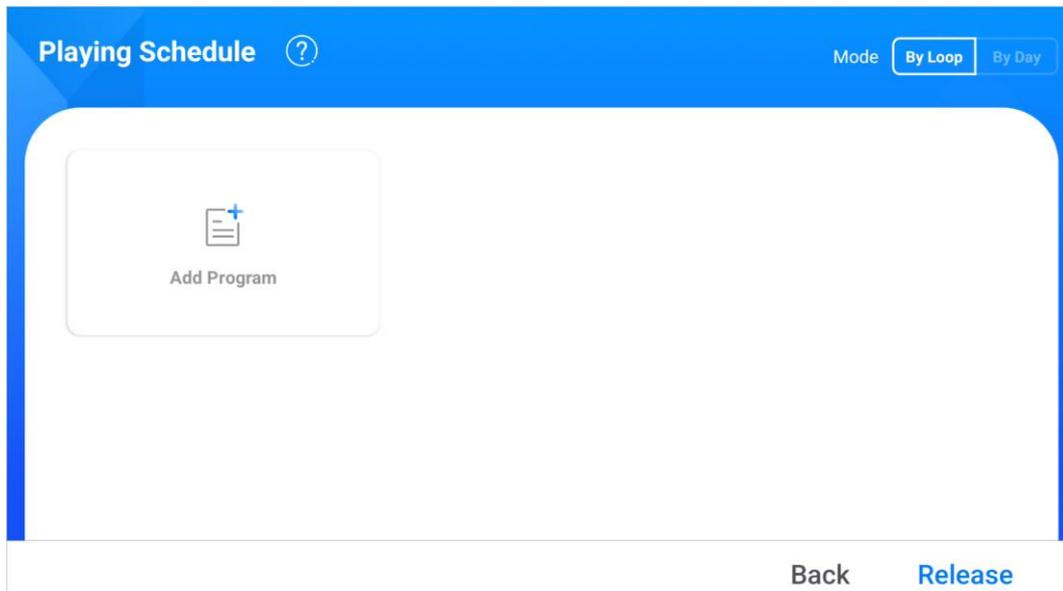


Figure 6-5 Playing Schedule Page

## 6.2.2 Set Playing Schedule

Step 1 On the FocSign Player page, click  to enter the **Playing Schedule** page.

Step 2 Select a mode:

- If you select **By Loop**, click **Add Program**, and select a template.
- If you select **By Day**, click **Add Time Period Program**, and select a time period and a template.

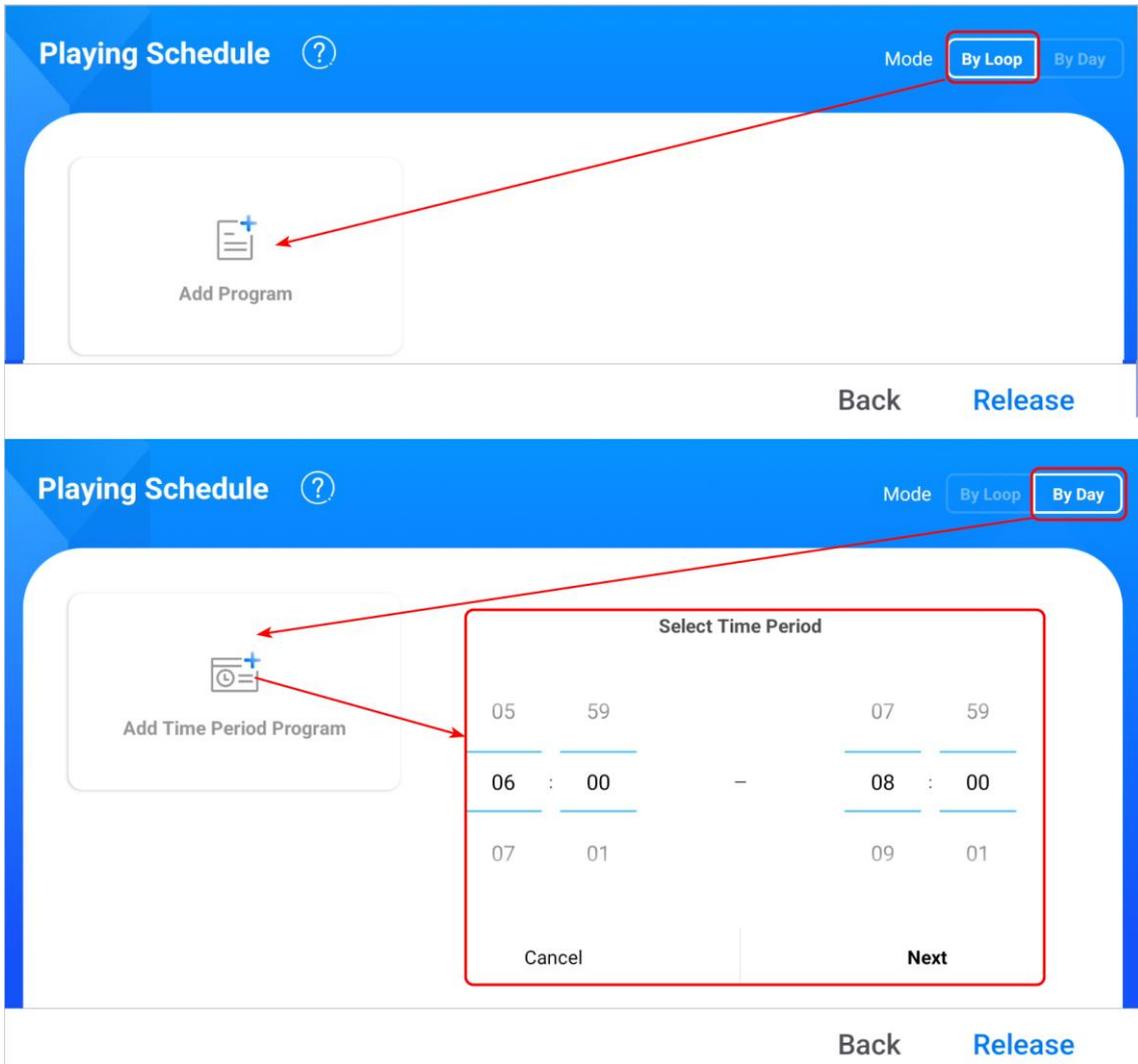


Figure 6-6 Select a Mode

Step 3 Add materials:

- 1) Click **Add Material**, and then select video or picture.

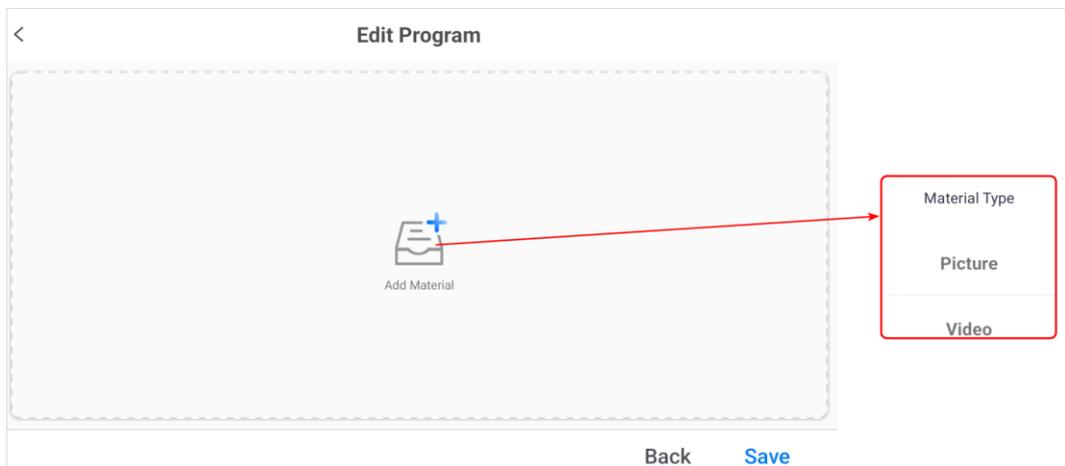


Figure 6-7 Select Material Type

- 2) Select materials from internal storage, set the duration of each material, and set the switching effect, click **OK**.

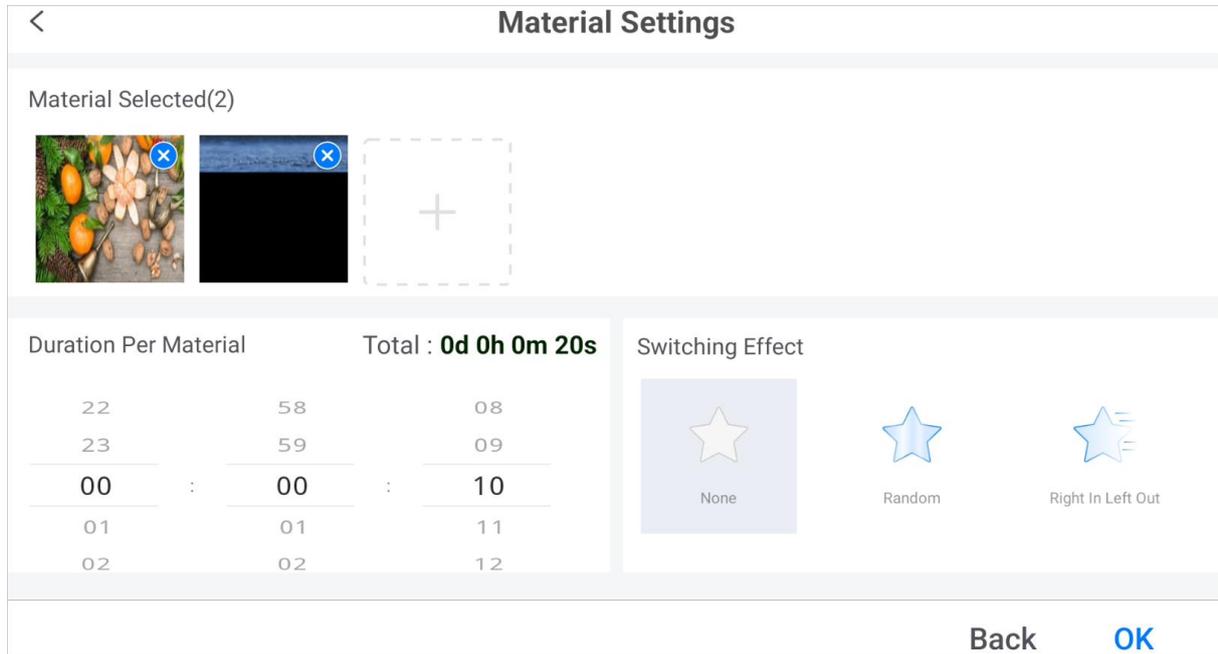


Figure 6-8 Add Materials

Step 4 Click **Save**.

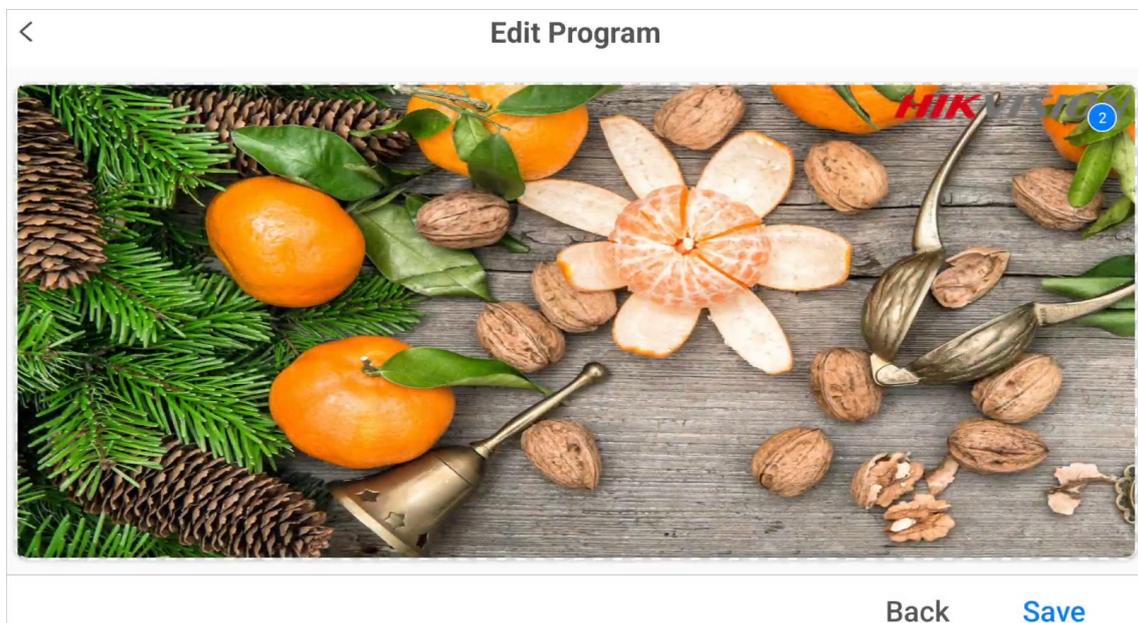


Figure 6-9 Save Program Configuration

Step 5 (Optional) You can perform the following operations as required:

- Repeat the above steps to create multiple programs.
- Click  in the upper right corner of a program to delete the program.
- Click a program to edit its material, duration or switching effect.

- For a program played by day, you can click  to edit the time period for the program.

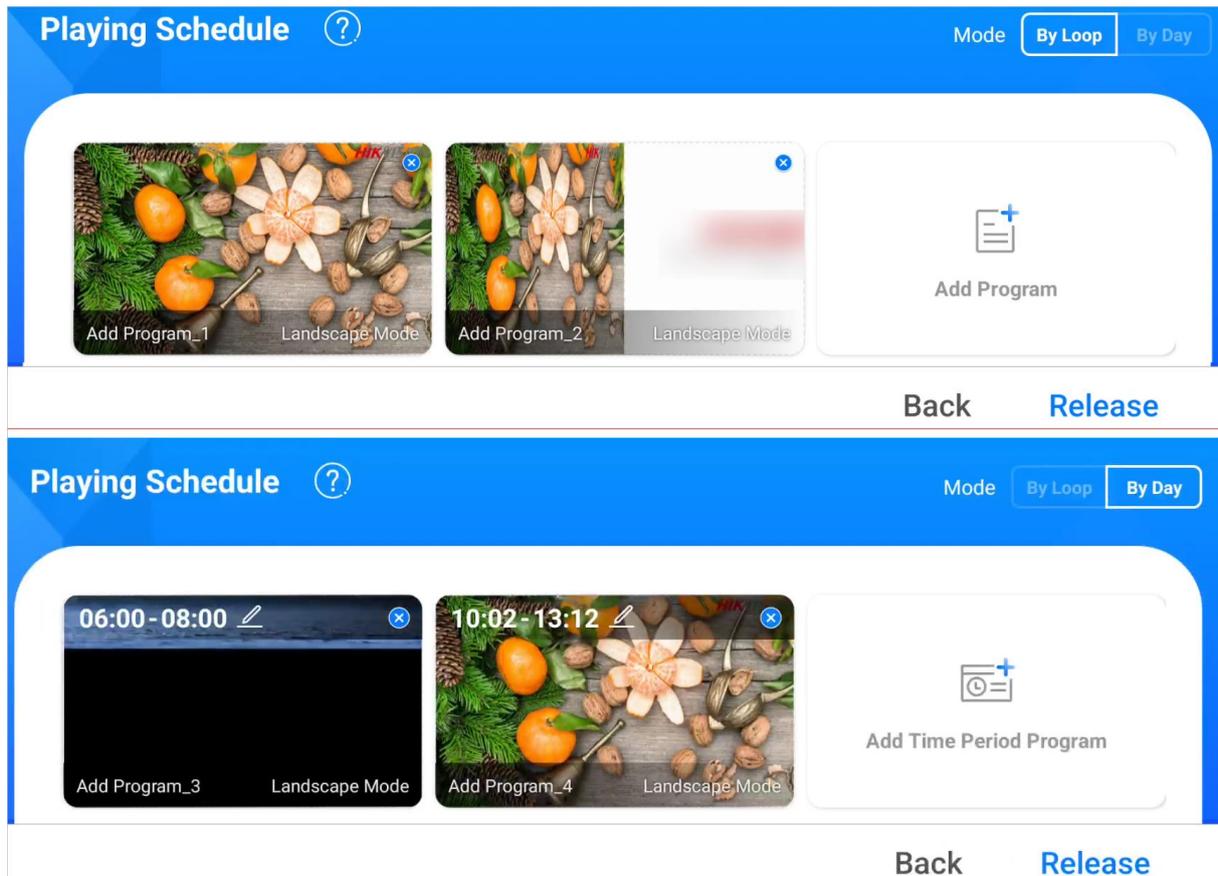


Figure 6-10 Manage Programs

Step 6 Click **Release**.

### 6.2.3 Edit Device Parameters

#### Note

- Click  to enter the parameter setting page.
- Right click the mouse to exit the current application or current page.

Click  on the FocSign Player page to enter the main page, and then click **Setting** or click  in the lower right corner of the main page to enter the **Setting** page. You can set the following device parameters as required:

- On the **Network** page, set the wired network, WLAN, hotspot, or Bluetooth. If the device is connected to both a wired and wireless network simultaneously, it will prioritize the wired network.

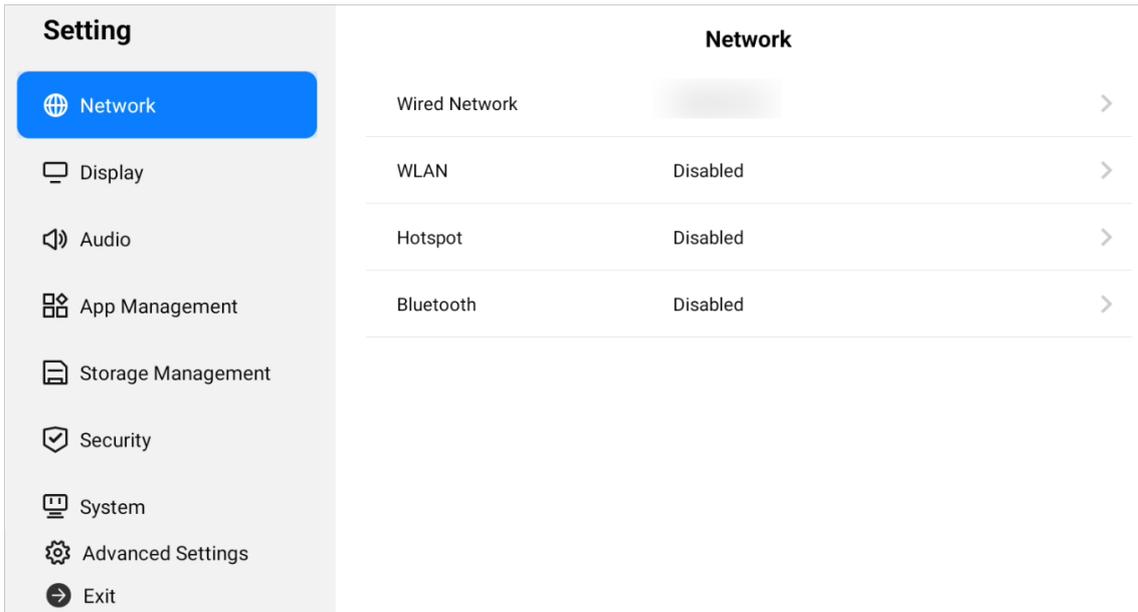


Figure 6-11 Set Network Parameters

- Click  of the wired network, enable static IP as required, and set the automatically obtained IP address or an unused IP address from the local network as the wired network address of the device.
- Click  of the WLAN, and enable WLAN. Click a wireless network, and enter the connection password to join the wireless network. Click  to view the wireless network address of the device. Click  and click **Clear Network** to disconnect the device from the wireless network.

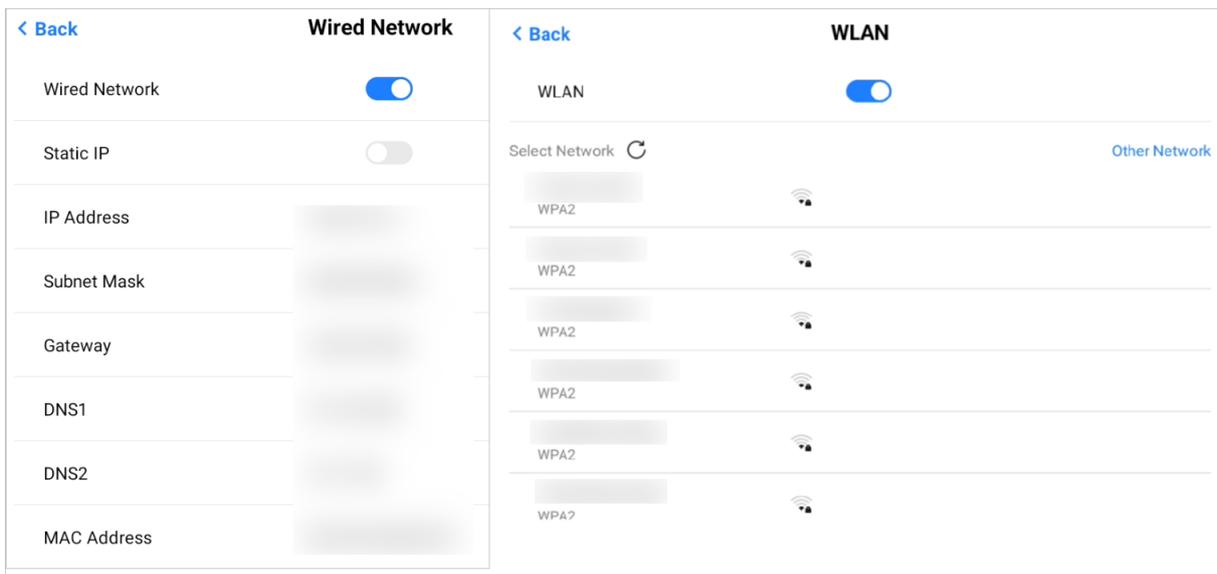


Figure 6-12 Set Wired and Wireless Network

- On the **Display** page, set HDMI output, screen rotation, font size, notification bar, navigation bar, or wallpaper.

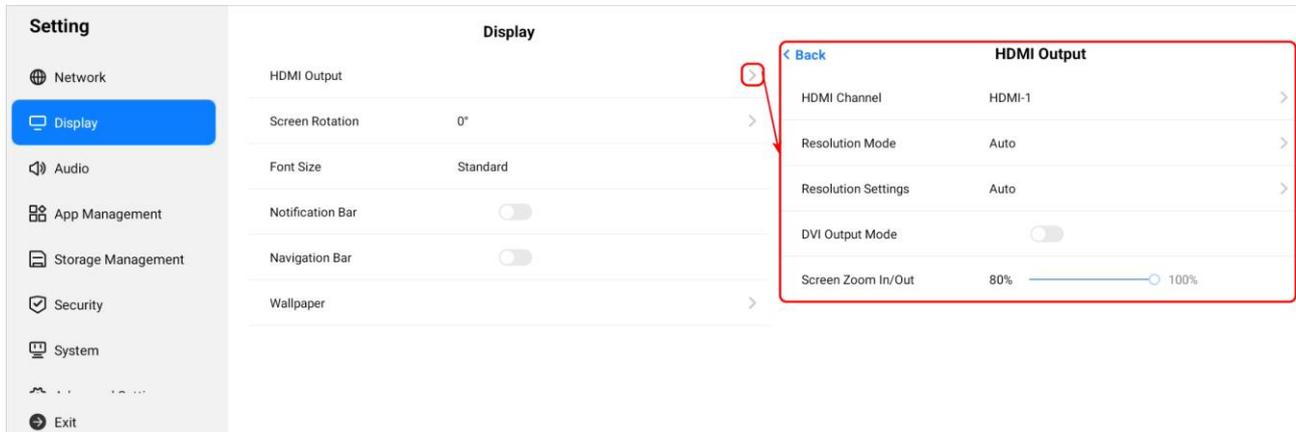


Figure 6-13 Set Display Parameters

- Click  of the HDMI output to set the HDMI channel, resolution mode, resolution settings, DVI output mode, or screen zoom in/out.
- After enabling navigation bar, you can click  to go back to previous menu, click  to return to the homepage application page, and click  to show the opened applications. You can click  to close the opened applications.

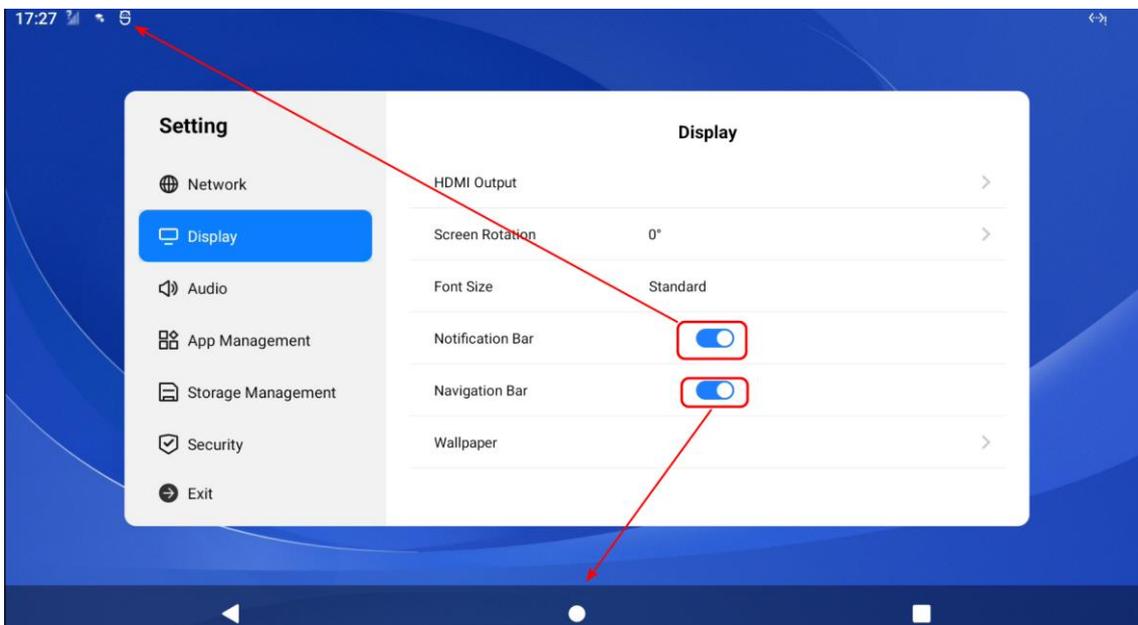


Figure 6-14 Set Notification Bar and Navigation Bar

- On the **Audio** page, set the volume.

- On the **App Management** page, enable run at startup, set default app, and show applications or system process.

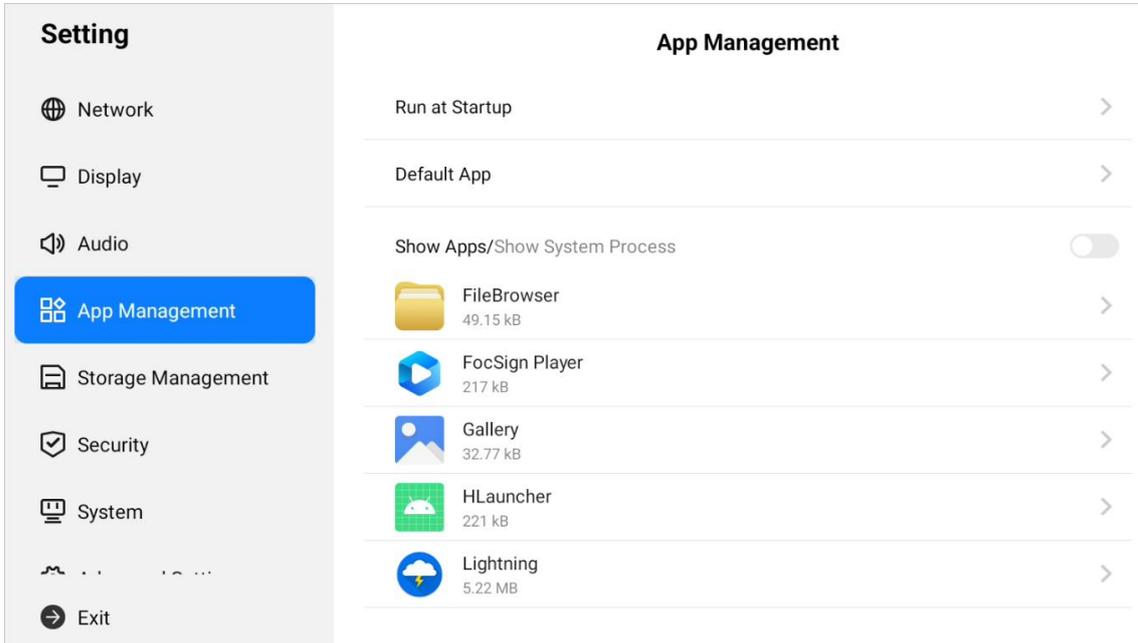


Figure 6-15 Manage Applications

- On the **Storage Management** page, view the internal shared storage, memory usage, and real-time memory usage. You can click **Release Space**.

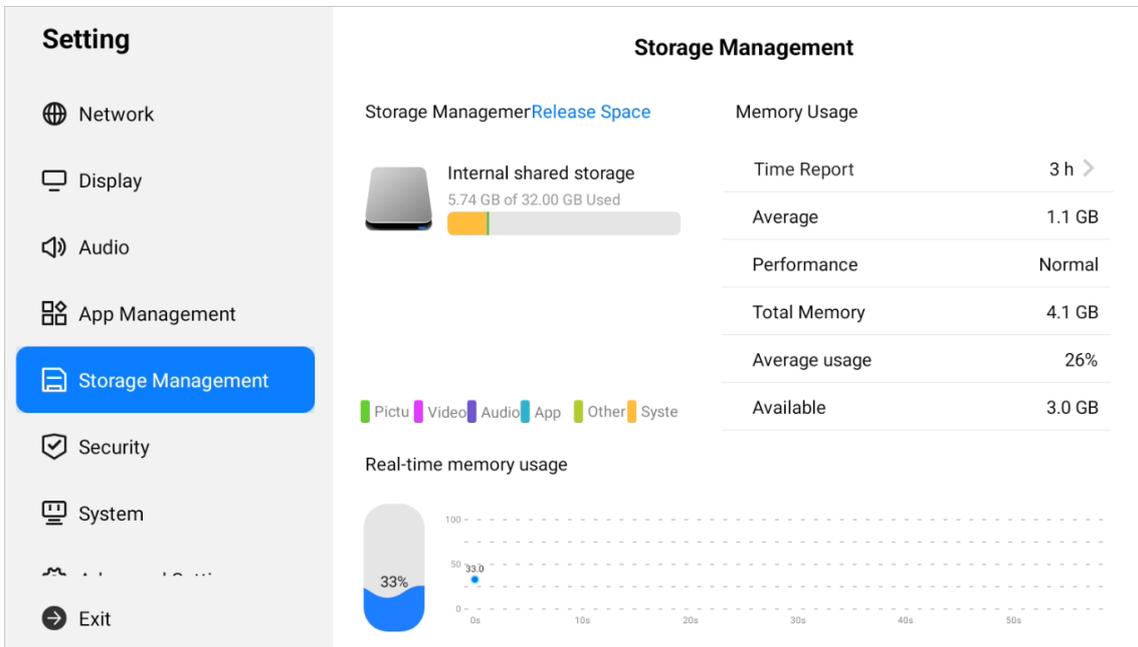


Figure 6-16 Manage Storage

- On the **Security** page, enable SADP and change the device activation status.

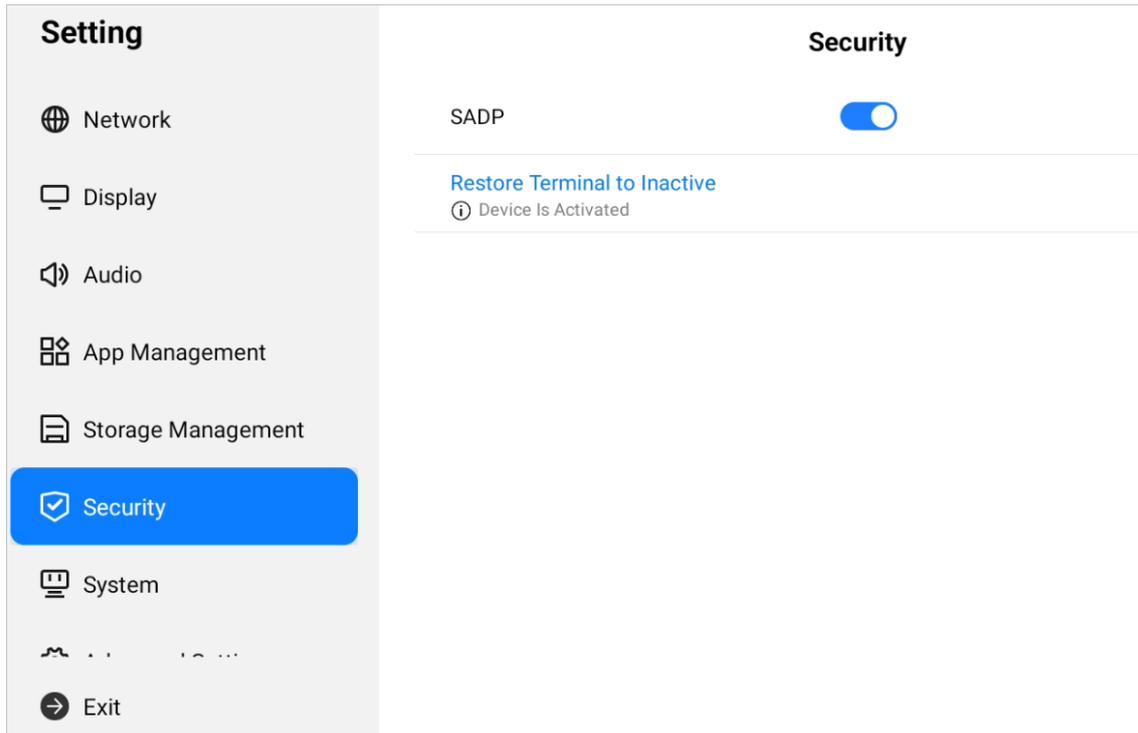


Figure 6-17 Set Security Parameters

- On the **System** page, view the basic system information, enable system debug, enable system log, restore the device to factory settings, or restart the device.

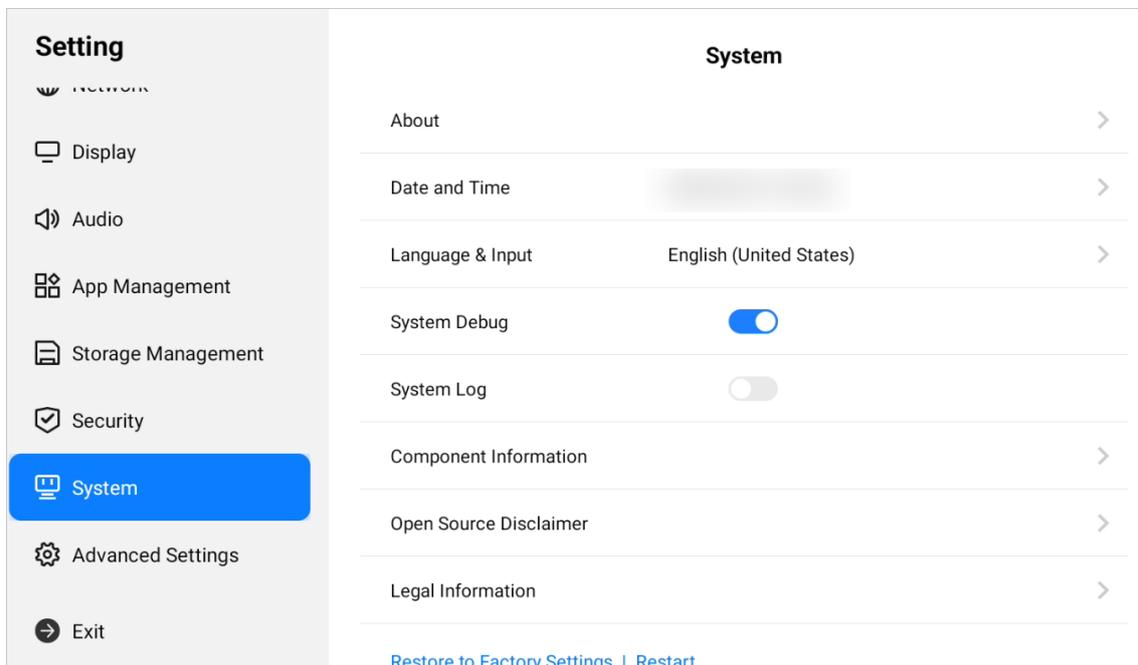


Figure 6-18 View System Parameters

- On the **Advanced Settings** page, set the scheduled startup.
  - 1) Enable scheduled startup.
  - 2) Click  of the startup/shutdown settings.

- 3) Set the startup time, shutdown time, and loop date, and click **OK**.
- 4) Enable the configured startup/shutdown schedule.

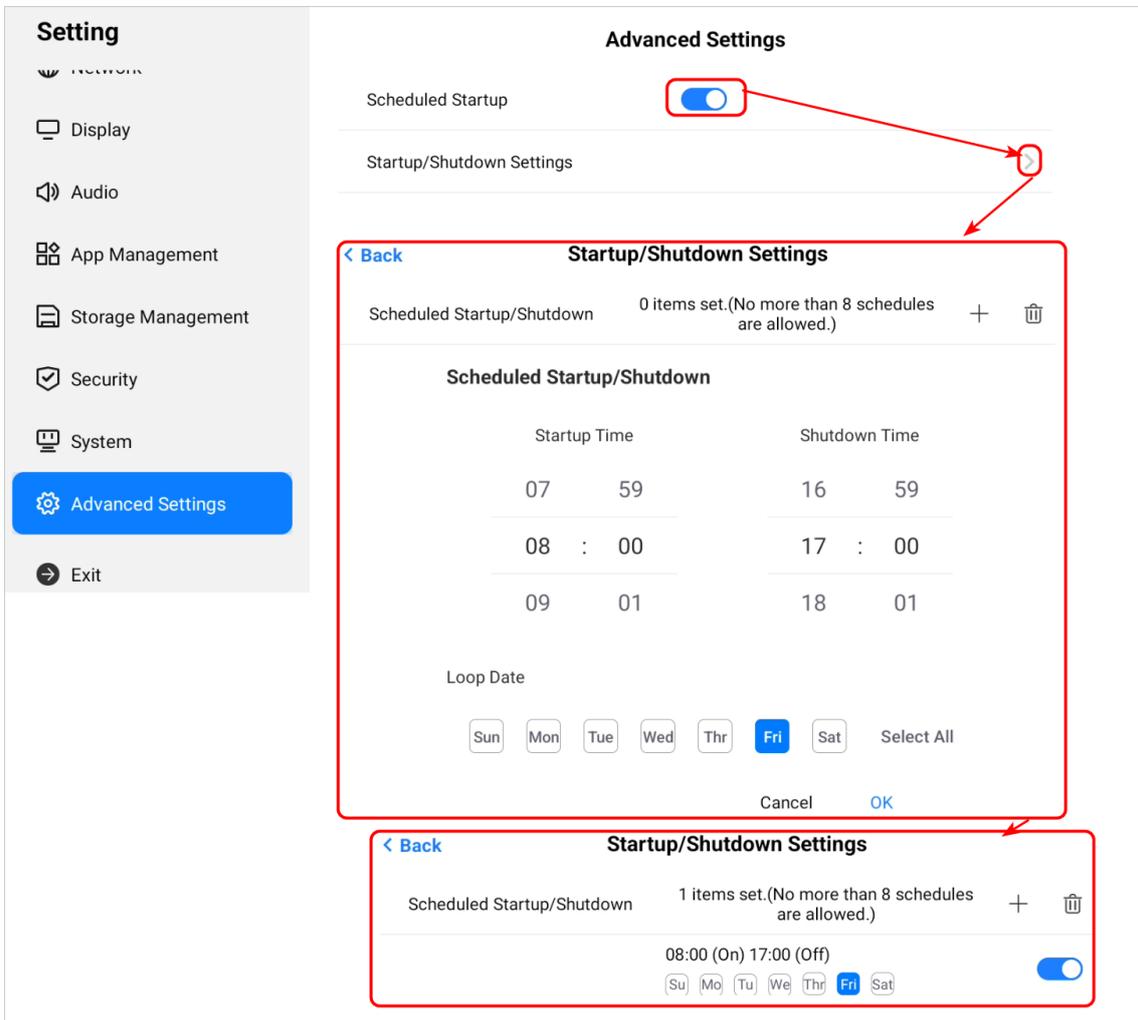


Figure 6-19 Set Scheduled Startup



See Far, Go Further