



4K Decoding Monitor

User Manual

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Applicable Models

This manual is applicable to 4K decoding monitor.

Symbol Conventions

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

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

Safety Instructions

Danger

- Caution: The device may generate radio interference in indoor environment. Necessary precautions may be required.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100 to 240 VAC or 12 VDC/2A according to the IEC60950-1 standard.
- If the device uses a 3-prong power supply plug, it must be connected to an earthed mains socket-outlet properly.
- For the device powered on and off only by power plug and socket-outlet, the socket-outlet shall be installed near the device and shall be easily accessible.
- Do not touch the bare components (such as the metal contacts of the inlets) and wait for at least 5 minutes, since electricity may still exist after the device is powered off.
- For the device with the sign  indicating hazardous live, the external wiring connected to the terminals requires installation by an instructed person.
- Never place the device in an unstable location. The device may fall, causing serious personal injury or death.

- If the device supports wall mounting or ceiling mounting, the mounting surface shall be able to withstand the additional force of three times the weight of the device but not less than 50 N. The device and its associated mounting means shall remain secure during the installation.
- If the device contains a coin/button cell battery:
 1. Do not ingest battery. Chemical Burn Hazard!
 2. This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
 3. Keep new and used batteries away from children.
 4. If the battery compartment does not close securely, stop using the product and keep it away from children.
 5. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
 6. CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
 7. Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
 8. Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
 9. Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
 10. Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
 11. Dispose of used batteries according to the instructions.
- ALWAYS use cabinets or stands or mounting methods recommended by the manufacturer of the device set.
- ALWAYS use furniture that can safely support the device set.
- ALWAYS ensure the device set is not overhanging the edge of the supporting furniture.
- ALWAYS route cords and cables connected to your device so they cannot be tripped over, pulled or grabbed.
- NEVER place a device set in an unstable location.
- NEVER place the device set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the device set to a suitable support.
- NEVER place the device set on cloth or other materials that may be located between the device set and supporting furniture.
- NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the device or furniture on which the device is placed.
- For the device with sound playing function, to prevent possible hearing damage, do not listen at high volume levels for long periods.



Caution

- If the ingress protection level is lower than IPx4, the device shall not be exposed to water dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the equipment.
- Provide a surge suppressor at the inlet opening of the device under special conditions such as the mountain top, iron tower, and forest.
- If the device is powered by terminals connected to the power cord, ensure correct voltage and wiring of the terminals for connection to mains supply.
- For the device with ventilation openings, the ventilation openings should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, and curtains. The openings shall never be blocked by placing the device on a bed, sofa, rug, or other similar surface.
- If the device has ventilation openings and distance requirements for heat dissipation, keep a proper distance around the device for sufficient ventilation.
- If the device installation is needed,
 1. Install the device according to the instructions in User Manual.
 2. To prevent injury, this device must be securely attached to the installation surface in accordance with the installation instructions.
- Keep vertical when moving or using the device.
- CAUTION: If the bracket is designed for a specific device model of our company, use the bracket with the corresponding device only. Use with other devices may result in instability and cause injury.
- CAUTION: If the device needs to be installed with a specific bracket of our company, use the corresponding bracket only. Use others (such as carts, stands, and carriers) may result in instability and cause injury. Refer to the device datasheet for bracket model details.
- The interface varies with the models. Please refer to the product datasheet for details.
- If the device is not released with a power adapter, and you need to wire the bare cables of the device:
- The device external wiring connected to the hazardous live terminals requires installation by an instructed person.
- Make sure that the power has been disconnected before you wire, install, or disassemble the device.
- The power supply or device must be connected to an earthed mains socket-outlet.
- High voltage for the power supply. Do not disassemble it.
- If smoke, odor, or noise arises from the power supply or device, immediately turn off the power, unplug the power cable, and contact the service center.
- If the device needs to be wired by yourself, select the corresponding wire to supply power according to the electric parameters labeled on the device. Strip off wire with a standard wire stripper at corresponding position. To avoid serious consequences, the length of stripped wire shall be appropriate, and conductors shall not be exposed.

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Chapter 1 Product Introduction

1.1 Front Panel

Buttons and power indicator on the front panel of the device are shown as follows.



Figure 1-1 Buttons and Power Indicator on the Front Panel

Table 1-1 Button and Power Indicator Description

Button/Power Indicator	Description
	• Show all the input signal sources. • All the menu pages: Switch to the next page or the parameter of sub menu page.
	• Main menu page: Previous/Next. • Sub menu page: Add or decrease the value. • USB file page: Select the file. • USB audio and video playing page and other signal source page: Volume up/down.
	• Show the current input signal sources. • All the menu pages: OK.
	• Main menu page: Enter or exit main menu page. • Signal source page: Exit signal source page. • File selection for USB playing: Play. • Other pages: Enter or exit main menu page.
	Power switch. • Working state: Short press to turn off the device, the device will enter off mode. • Shutdown state: Short press to turn on the device, the device will exit off mode.
	Power indicator. • When the device is in off mode and network standby mode, the power indicator light is solid white. • When the device is turned on, the power indicator light is off.

1.2 Rear Panel

The interfaces on the rear panel of the device are defined as follows.

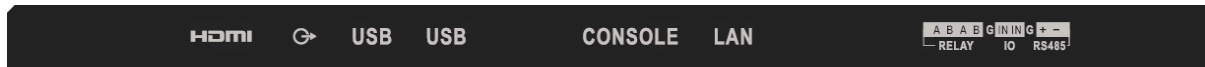


Figure 1-2 Interfaces on the Rear Panel

Table 1-2 Interfaces Description

Interface	Description	Interface	Description
HDMI	HDMI digital signal input interface		3.5 mm audio output Interface
USB	USB2.0 interface	USB	USB2.0 interface
CONSOLE	Device debugging interface	LAN	1000 Mbps network interface
RELAY	Alarm output interface	IO	Alarm input interface
RS485	Connects to the RS485 port of central control device		

Chapter 2 Remote Control

You can use the remote control to operate the OSD menu of the device. The buttons on the remote control are defined as follows.

Table 2-1 Remote Control Button Description

Appearance	Button	Description
		Power on/off. Short press to turn on or turn off the device.
		Mute/Unmute. Mute or unmute the device.
	FREEZE	Freeze the current display.
	MENU	- Enter the OSD page. - Back to the main menu page.
	SOURCE	Check or select a signal source.
	Direction Key	- Switch to the different menu pages or parameters. - Adjust the value of parameter.
	OK	Confirm or enter the sub menu page.
		Play/Pause. Play or pause the selected image or file.
		Stop. Stop playing the current file or image.
		Previous/Next
		Repeat
		Return

Aim at the infrared receiver to operate the remote control. The best distance to operate the remote control is no more than 5 meters.

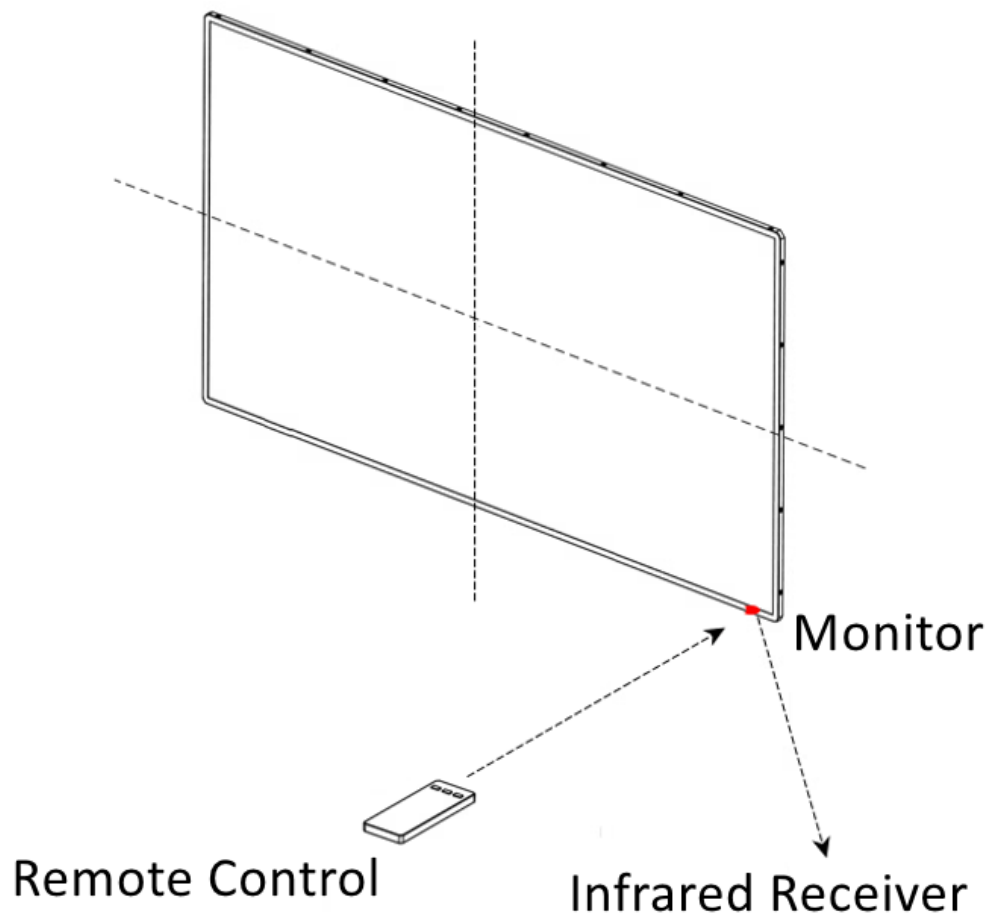


Figure 2-1 Aim at the Infrared Receiver

 Note

The remote control in the figure above is only for reference.

Chapter 3 Installation and Cable Connection

Note

The installation drawings are for reference only.

3.1 Install the Base

Step 1 Gently lift the device. Place the screen down on a stable surface covered with a thick soft cloth so that the bottom of the device is close to the edge of the surface for mounting the bracket.

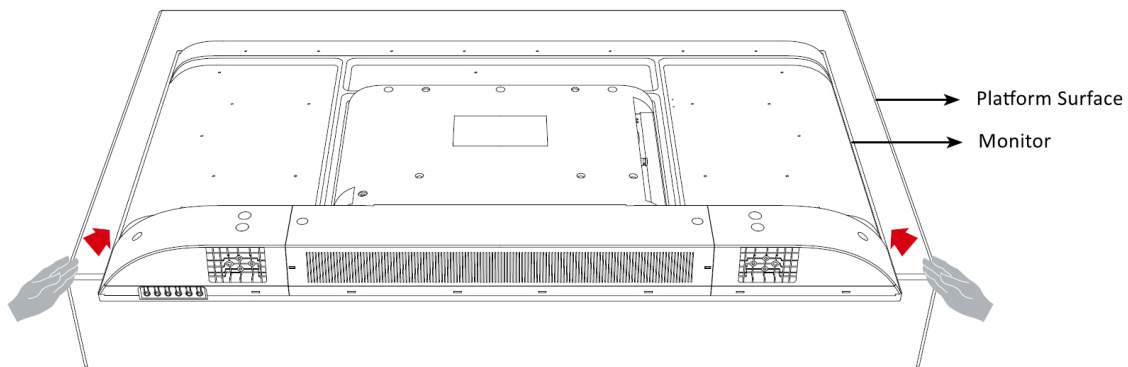


Figure 3-1 Place the Device

Step 2 Take out the bases and screws. Install the L-marked base on the bottom left side of the device and the R-marked base on the bottom right side of the device when facing the screen, as is shown in the figure below.

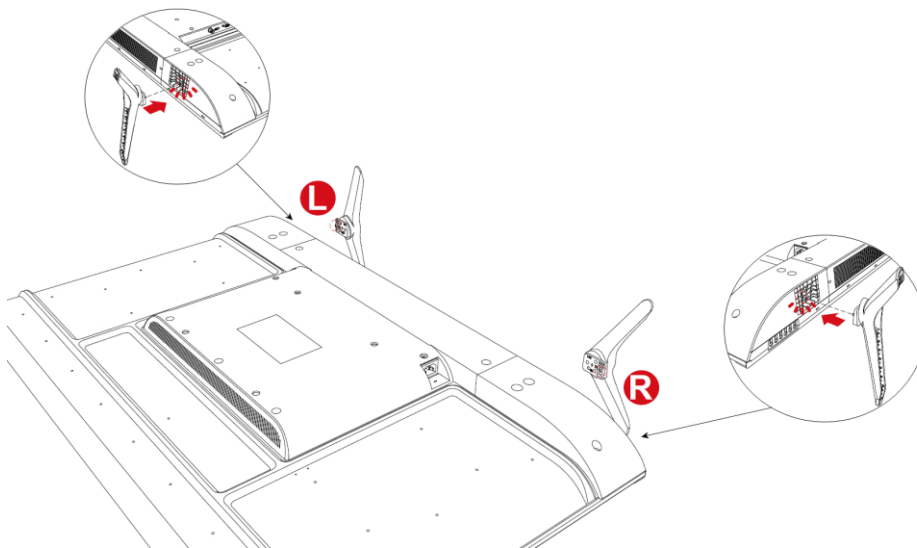


Figure 3-2 Install the Bases

Step 3 Secure left and right bases to the bottom of device with three M4 × 16 screws on each side.

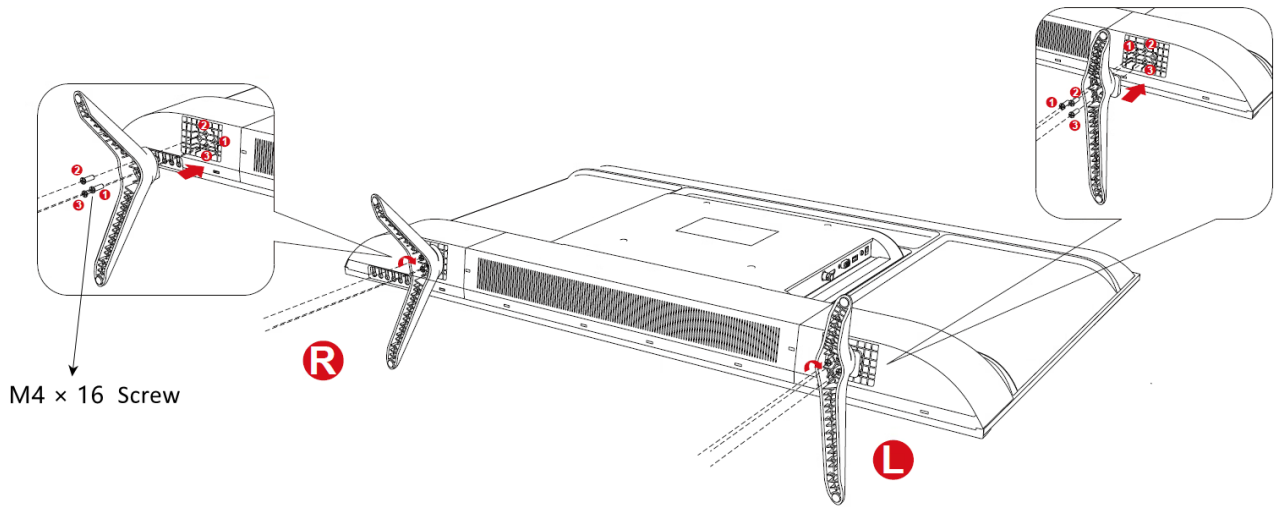


Figure 3-3 Secure the Bases to the Device

Step 4 After installation, place the device upright on the platform stably.

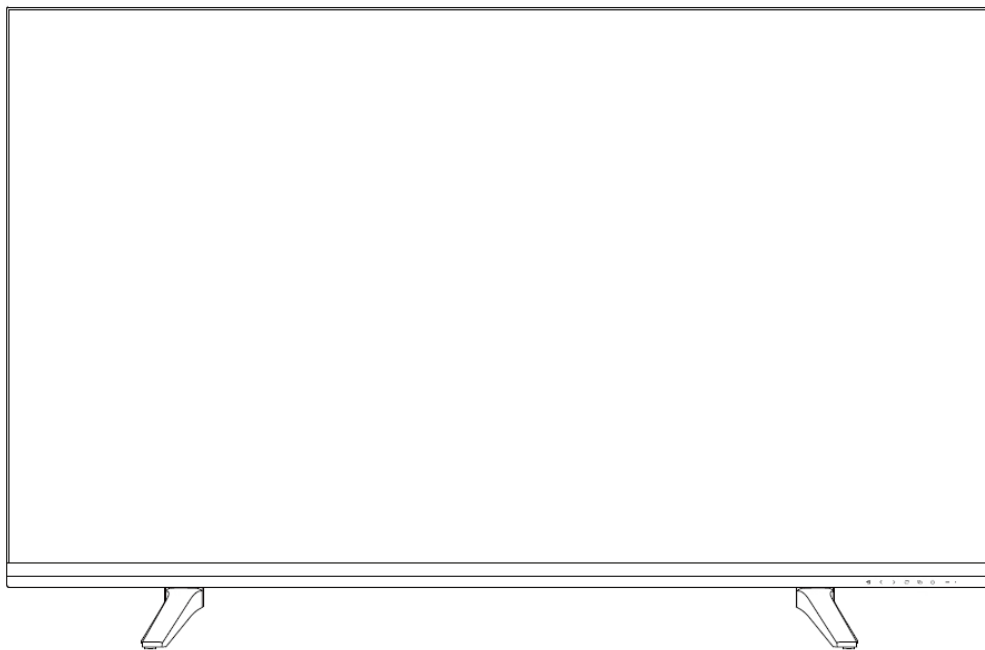


Figure 3-4 Bases Installed

3.2 Connect the Power Cord and Signal Cables

Step 1 Connect the device to an earthed mains socket-outlet with the power cord.

Step 2 Connect the input signal source device with HDMI signal cable or VGA signal cable.

Step 3 Turn on the device.



Caution

- Power Supply: AC 100 V to 240 V, 50/60 Hz. For detailed voltage and maximum current parameters, please refer to the product label on the device package.
 - Power off the device and disconnect the plug if it is not in use for a long time.
 - The device cannot be connected to DC power supply.
 - Short press  on the remote control or  on the front panel of the device to enter standby mode. Short press  or  again to exit the standby mode and wake up the screen.
 - Standby Power Consumption: no more than 0.5 W.
 - When the device is powered on and no signal is input, the screen will show a “No Signal” prompt and go to sleep mode in 10 minutes, that is, the device will enter network standby mode and run at the lowest power consumption. After receiving the signal source, or short pressing  or , the device will exit the network standby mode and the screen will be woken up.
 - Network Standby Power Consumption: no more than 2.0 W.
-

Chapter 4 Basic Operations

4.1 Select the Signal Source

Step 1 After connecting the signal cables or inserting the USB flash drive, power on the device.

Step 2 Short press  to enter the signal source page.

Step 3 Short press  to switch input sources, and short press  to confirm.

Step 4 Short press  to exit the signal source page.

4.2 Operate the USB Menu

Step 1 Insert the USB flash drive to the USB interface, and press **MENU** button on the remote control.

Step 2 Select USB in the signal source page to enter the USB menu.

Step 3 Press direction button to select the pictures, music, movies or files you want to play. Press **OK**.

Step 4 Press the direction button to select your desired file type for playing.

Step 5 Press **Play** to play the materials.

4.3 Operate the OSD Menu

Step 1 Short press  to enter the OSD page.

Step 2 View the main menu page.

- 1) Short press  or  to view the main menu page.
- 2) Short press  to switch to different main menu pages.

Step 3 View the sub-menu page.

- 1) Short press  to enter the sub-menu page.
- 2) Short press  to switch to different sub-menu pages.

Step 4 Adjust parameters.

- 1) Short press  or  to adjust the value of parameter.
- 2) Short press  to switch to different parameters.

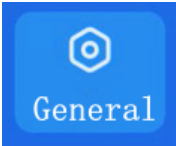
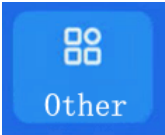
Step 5 After adjustment, short press  to return to the main menu page.

Step 6 Short press  again to exit the OSD page.

4.4 OSD Menu

Table 4-1 Menu Description

Main Menu	Sub Menu	Parameters	Description
	HDMI		HDMI digital signal input.
	Decoder		Decoding signal source input.
	TV USB		Play materials stored in the USB flash drive.
	Picture Mode	Picture Mode	● Standard: Suitable for a normal environment. It is the default picture mode. ● Movie: Suitable for playing the movie. ● Report: Suitable for playing materials like file and PPT. ● Security: Suitable for surveillance video playback. ● User: Customize the brightness, contrast, color sharpness or hue to adjust display effect.
		Color Temp.	Set the color temperature as required. As the color temperature increases, the color distribution becomes cooler. Alternatively, as the color temperature decreases, the color distribution becomes warmer.
		Brightness	The higher the value is, the brighter the image will be.
		Contrast	The higher the value is, the clearer the image will be.
		Color	The higher the value is, the more colorful the image will be.
		Sharpness	Rise the value up to make the image more vivid.
		Hue	It determines the contrast degree between the bright and dark.

Main Menu	Sub Menu	Parameters	Description
	Image Settings	Color Space	In Auto mode, the system will automatically adapt to the corresponding color space based on the color space of input signal source. Manual switch between 0~255 or 16~235 is also supported for proper adaptation when the color space identification of the signal source output does not match.
		Scaling Mode	Adjust the image scale: the ratio between the width and height of the image.
		EDID Switch	● EDID 1.4: Suitable for 1080p image. ● EDID 2.0: Suitable for 4K image.
		HDR	After enabling, it can show a wider range of colors and brightness, and more details in between the extremes.
		Eye Care Mode	After enabling, it can effectively reduce blue light radiation, alleviate eye fatigue, and protect vision.
		Auto Backlight	Adjust the screen backlight automatically when enabled with a light-sensing control panel.
 General	Source Settings	Auto Source	Get the signal source automatically.
	Device Lock	Keypad	Enable or disable the keypad as required.
 Other	Overheat Alarm	Overheat Alarm	If the temperature exceeds the designated value, an alarm will be triggered.
		Alarm Temp(°C)	Set the alarm temperature.
	Audio Settings	Volumn	Adjust the volume of the device.
		Balance	Adjust the balance between the left and right speakers.
		Mute	Mute or unmute the device.

Main Menu	Sub Menu	Parameters	Description
	Maintenance	Software Version	Software version of the device.
		Decoder Version	Decoder version of the device.
		Current Temp(°C)	Current temperature of the device.
		Serial Number	Serial number of the device.
	OSD Settings	OSD Language	Set the OSD language.
		OSD Duration	Set the time for OSD menu occurrence when there is no operation.
		Auto Sleep	Set the auto sleep time.
		Screensaver	The background color of the screen when there is no signal.
	Device Info	Upgrade(USB)	Upgrade software version by inserting the USB flash drive.
		User Restore	Restore to default settings.

Chapter 5 Web Configuration

5.1 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 (case insensitive), 4 or more continuously ascending or descending digits, or 4 or more consecutive repeated characters.

Activate the Device via HiTools Delivery

Step 1 Connect the device and computer to the same LAN, ensuring that the device and computer are on the same IP subnet.

Step 2 Install and launch the [HiTools Delivery client](#) on the computer.

Step 3 Go to **Device Management** → **Current Subnet**, and click **Refresh**.

Step 4 Select the inactive device(s), set the activation password, confirm the password, and click **Activation**.

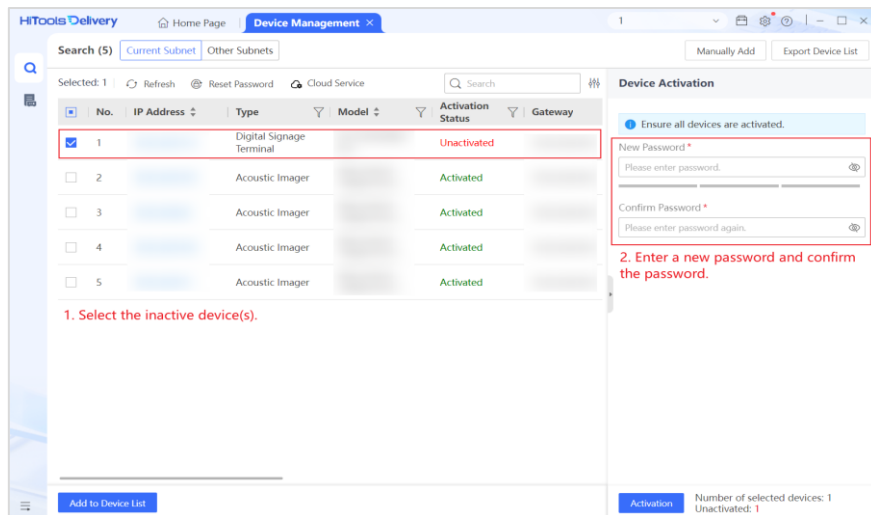


Figure 5-1 Activate the Device(s)

Step 5 Edit device IP addresses in bulk:

- 1) Check multiple activated devices.

- 2) Set the start IP address, port No., IPv4 subnet mask, IPv4 gateway, etc., and the selected devices will be automatically assigned to increasing IP addresses.
- 3) Enter the admin password and click **OK**.

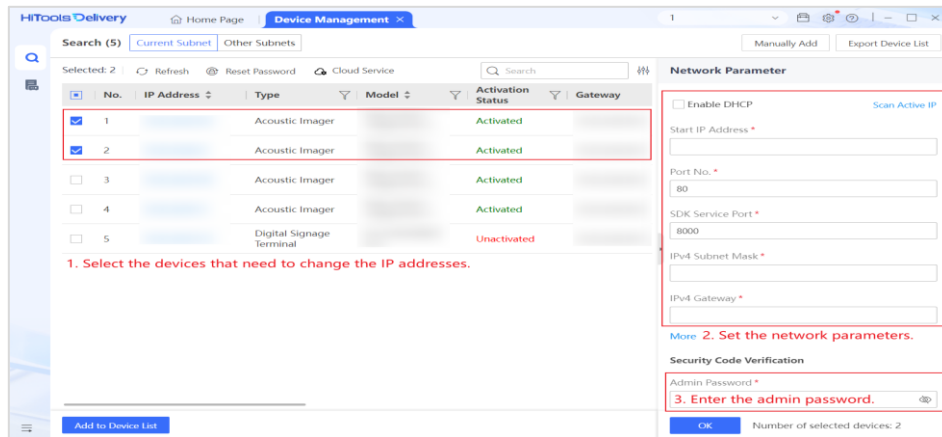


Figure 5-2 Batch Edit Device IP Addresses

Activate the Device via Web Browser

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**.

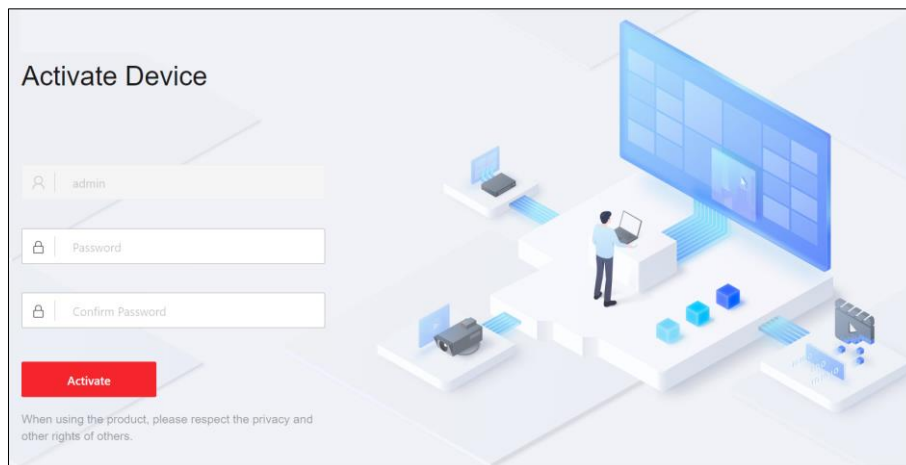


Figure 5-3 Activate the Device via Browser

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

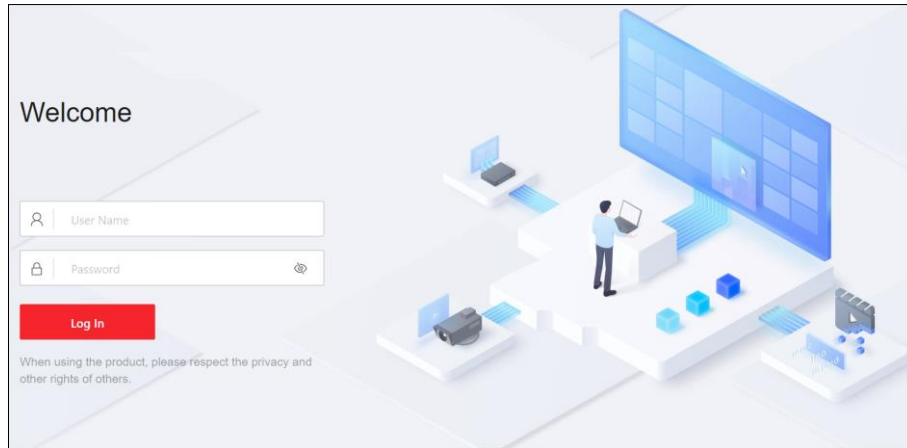


Figure 5-4 Login Page

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**.

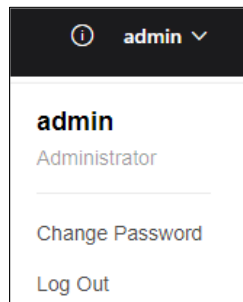


Figure 5-5 Change Password

5.2 Configure the Network Address

Configure TCP/IP

Before You Start

Make sure the device and the computer are in the same segment after the device connects to the on-site network.

Steps

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

Figure 5-6 Configure TCP/IP Parameters

Step 2 Set the IPv4 address, subnet mask, and default gateway.

Step 3 Set the preferred and alternative DNS server.

Step 4 Click **Save**.

Step 5 Remove the network cable that connects the device and computer, and use the network cable to connect the device to the on-site network.

Step 6 Enter the configured device IP address in the web browser of the computer to log in to the web page of the device.

5.3 Configure the Signal Source

5.3.1 Add a Network Signal Source

Add a Network Signal Source via IP Address

Step 1 Go to **Video Wall Operation** → **Source**, click , and select **IP Address**.

Step 2 Enter the signal source information and stream media information.

- (Optional) Enable **Encrypted Stream** and enter the secret key.
- Select an added group or click **Add Group** to create a new group.
- Click **More** to select the transmission protocol, stream type, encrypted stream, device manufacturer, and streaming media information.

After enabling **Get Stream via Streaming Server**, you can perform live view data forwarding through the streaming server to reduce network stress.

Step 3 Click **Save**.

The screenshot shows the 'Add Signal Source' dialog box with the 'IP Address' tab selected. The left panel contains fields for Device Name, IP Address, Port No., User Name, Password, and Group (with a dropdown showing '1'). The right panel, titled 'More', contains Transmission Protocol (TCP), Stream Type (Main Stream), Encrypted Stream (toggle), Device Manufacturer (HIKVISION), Get Stream via Streaming Server (toggle), Stream Media IP Address, and Port No. There are 'Save' and 'Cancel' buttons at the bottom.

Figure 5-7 Add a Network Signal Source via IP Address

Add a Network Signal Source via DDNS

Before you start

Before adding network signal sources via DDNS, you should configure DNS servers on the **TCP/IP** page.

Step 1 Go to **Screen Operation** → **Signal Source**, click , and select **DDNS**.

Step 2 Enter the signal source information and stream media information.

- (Optional) Enable **Encrypted Stream** and enter the secret key.
- Select an added group or click **Add Group** to create a new group.
- Click **More** to select the transmission protocol, stream type, device manufacturer, and streaming media information.

After enabling **Get Stream via Streaming Server**, you can perform live view data forwarding through the streaming server to reduce network stress.

Step 3 Click **Save**.

Figure 5-8 Add a Network Signal Source via DDNS

Add a Network Signal Source via URL

- Step 1 Go to **Screen Operation** → **Signal Source**, click , and select **URL**.
- Step 2 Enter the device name and the URL.
- Step 3 (Optional) Enable **Encrypted Stream** and enter the secret key.
- Step 4 Select an added group or click **Add Group** to create a new group.
- Step 5 Click **Save**.

Figure 5-9 Add a Network Signal Source via URL

5.3.2 Edit the Network Signal Source

Go to **Screen Operation**, hover over a network signal source and then click  to edit its parameters.

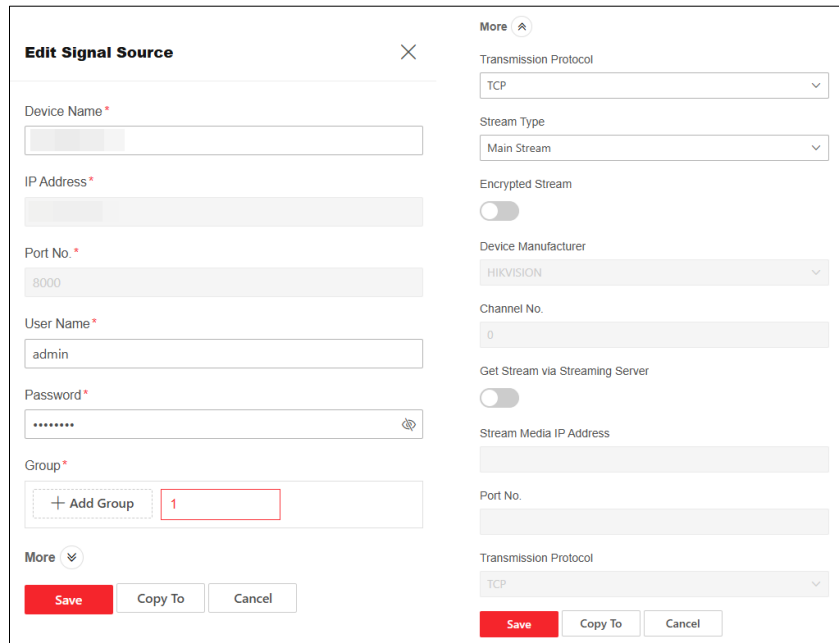


Figure 5-10 Edit the Network Signal Source

5.3.3 Batch Delete Network Signal Sources

To batch delete invalid network signal sources, you can select multiple network signal sources with Ctrl or Shift pressed and then click .

5.3.4 Bind Network Signal Sources with the Video Wall

Take either of the following methods to bind signal sources with the video wall according to your real needs:

- Select a signal source and then drag it rightward to the video wall.
If you bind a signal source to the video wall, the signal source window fully covers a single screen by default.
- Choose either of the following methods to batch bind signal sources to the video wall:
 - Drag the default signal source group or a newly created network signal source group rightward to the video wall.
 - Press Ctrl or Shift to select multiple signal sources of the same group, and drag signal sources rightward to the video wall.

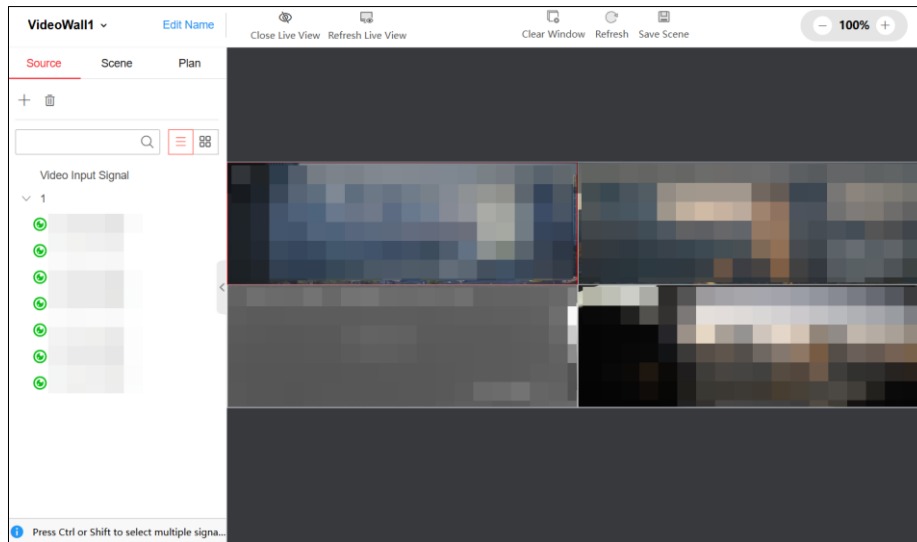


Figure 5-11 Batch Bind Signal Sources to Video Wall

5.4 Operate the Video Wall

Go to **Screen Operation** page, you can click **Edit Name** to change the video wall name.

5.4.1 Edit Signal Source Window Parameters

Edit a Signal Source Window

Select a signal source window and perform the following operations as required:

- Adjust the window position: Move the window directly or enter the specific X and Y values.
- Divide the window: Click a window division icon.
- Adjust the window size:
 - Drag the window edge to adjust its size.
 - Enter W and H values.
 - Click  in the upper right corner of the window to make it fully cover the occupied output ports and click  to restore the original size.
- Set the window to the bottom: Click .

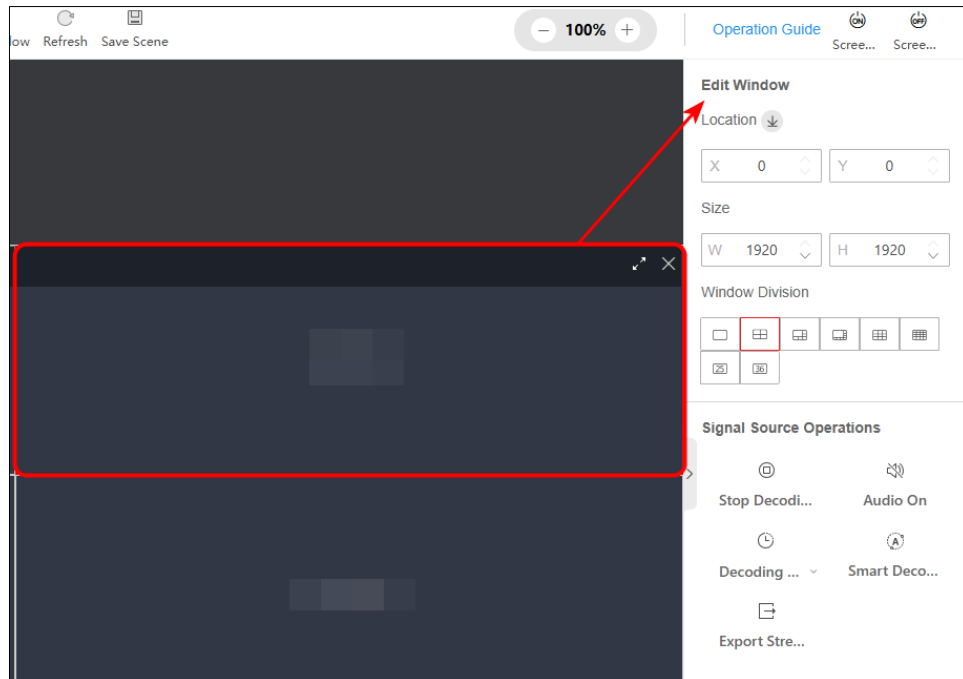


Figure 5-12 Edit a Signal Source Window

- Enable audio for a signal source window.
Select a signal source window and click **Audio On** to enable the audio for the signal source.

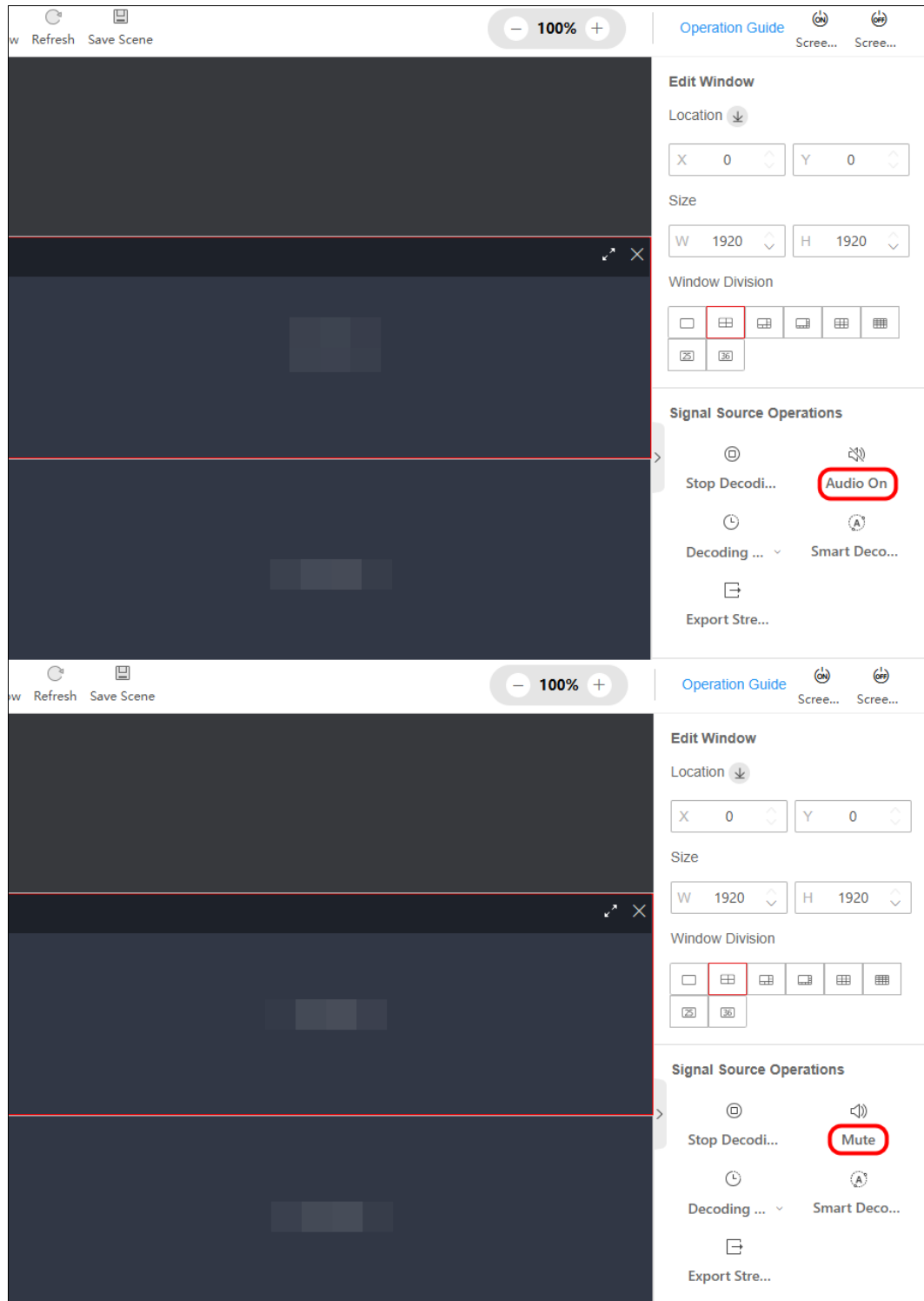


Figure 5-13 Configure Audio for the Signal Source

- Select a network signal source to configure its decoding status, audio status, decoding delay, smart decoding, and stream exporting.
 - Websocket is enabled by default on the device. To export the code stream, ensure Websocket is enabled and follow the steps below.

- 1) Go to **Maintenance and Security** → **Security Management** to confirm the Websocket is enabled. If not, enable the Websocket.
 - 2) Select a network signal source window and click Export Stream to export the stream.
- After you enable smart decoding, the device can decode the smart alarm events from the network cameras.
- Set the signal source group auto-switching: Click  in the upper right corner of the signal source window, select a signal source group, set the image interval, and then click **Start Auto-Switch**.

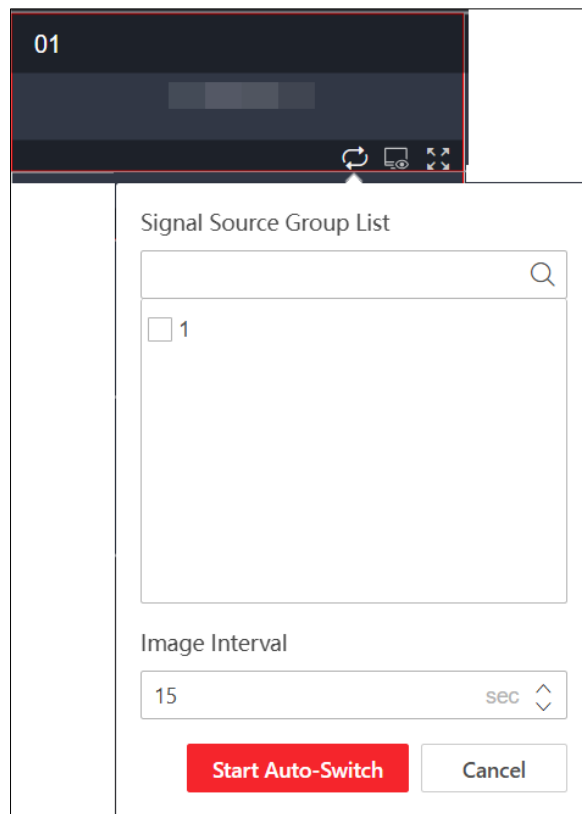


Figure 5-14 Set Signal Source Group Auto-Switching

- View the window status: You can click **Show All** to view the decoding status list.

Edit Multiple Signal Source Windows

On the **Screen Operation** page, perform the following operations as required:

- Preview the signal sources:
 - Click  in the upper right corner of a signal source window to preview the signal source. Click  to cancel the live view.

- Click **Enable Live View** at the top of the **Video Wall** page to preview all signal sources on the video wall. Click **Close Live View** to stop previewing all signal sources on the video wall.
- Click **Refresh Live View** at the top of the **Video Wall** page to refresh the live view of all signal sources.
- Click **Refresh** at the top of **Video Wall** page to refresh all signal source windows and turn off the live view of all signal sources.

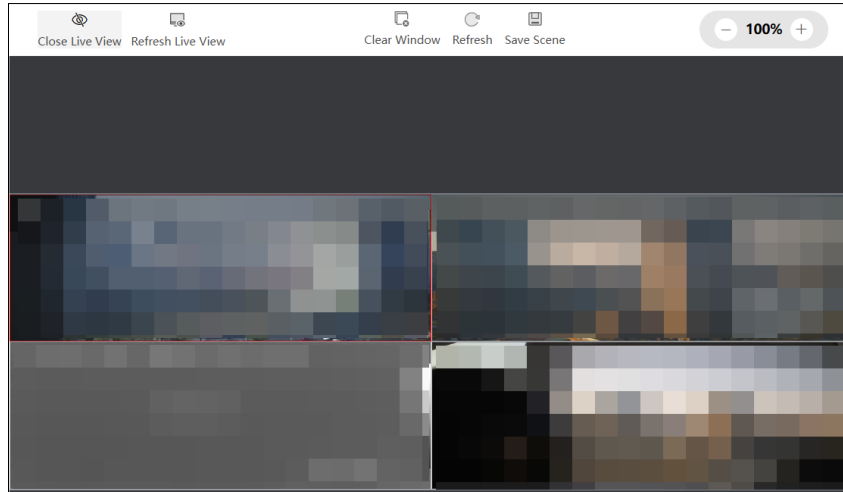


Figure 5-15 Preview the Signal Source

- Click **Clear Window** to clear all bounded signal source windows.

5.4.2 Manage Scenes

Up to 4 scenes are supported. Go to **Screen Operation** to manage scenes.

- Click **Save Scene** to save the configuration as a new scene or overwrite the existing scene.

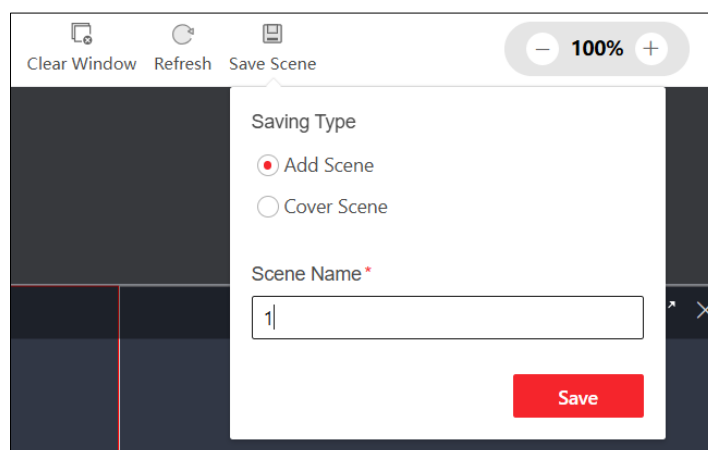


Figure 5-16 Save Scene

- Click **Scene** and hover over a scene name. Click  to call the scene.
- Click **Scene** and hover over a scene name. Click  to edit the scene name.

- Click **Scene** and hover over a scene name. Click  to delete the scene.

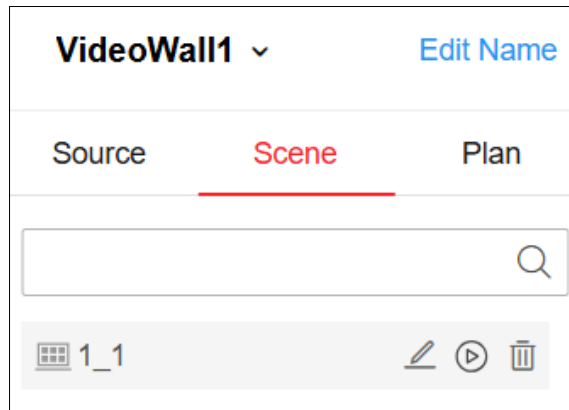


Figure 5-17 Manage Scene

5.4.3 Manage Plans

Call a single or multiple scenes according to the schedule automatically by setting plans.

Step 1 Go to **Screen Operation** to enter the video wall page. Click **Plan**.

Step 2 Click  to add a plan.

- Enter the plan name.
- Click **Add Task** to select a scene and set the interval.
- (Optional) Enable **Execute Plan Automatically** to set schedule as required.
- Click **Save**.

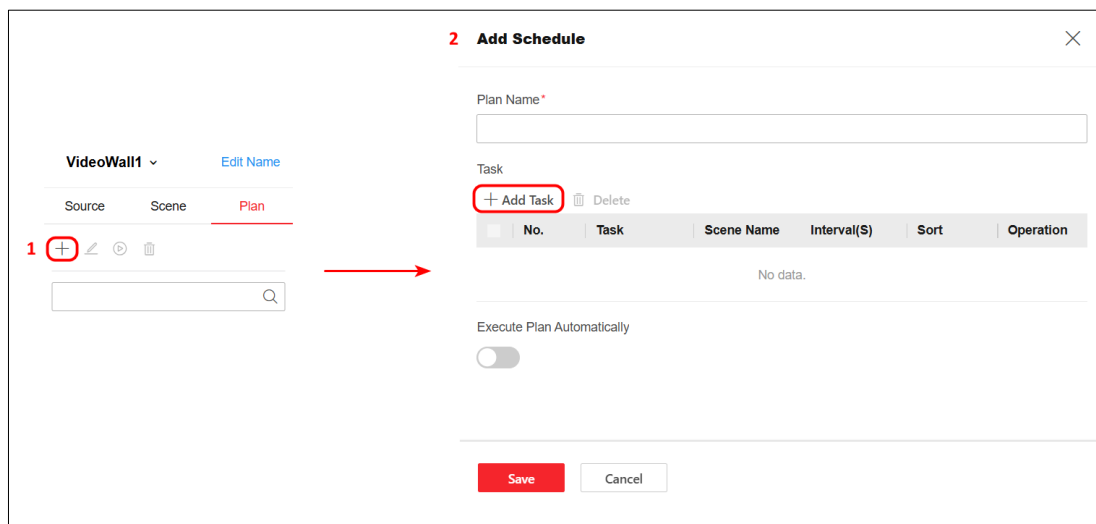


Figure 5-18 Add a Plan

Step 3 Optional:

- Select a plan to be edited. Click  to edit the plan parameters.
- Select a plan to be called. Click  to call the plan.

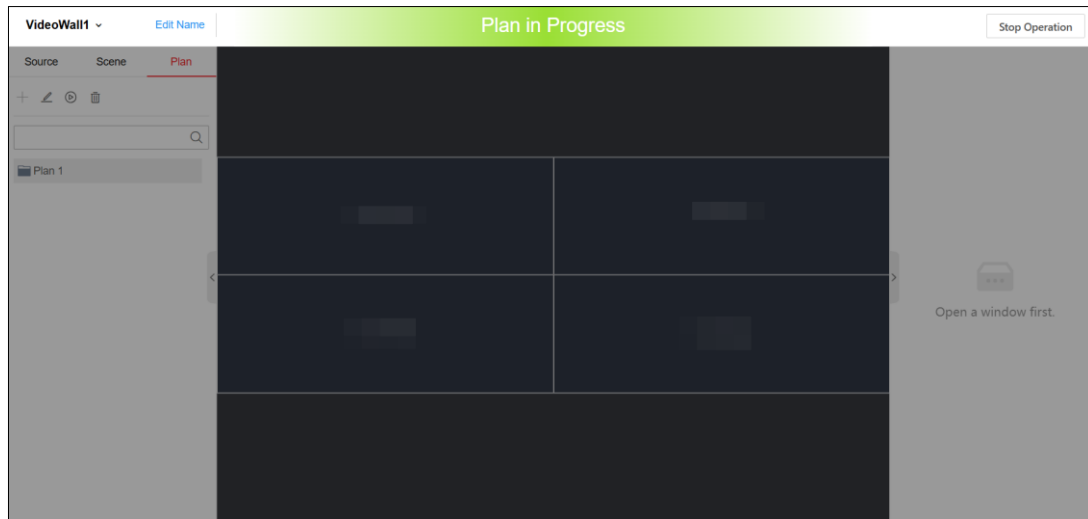


Figure 5-19 Call the Plan

- Select a plan to be deleted. Click  to delete the plan.

5.4.4 Maintain the Screen

Step 1 Go to **Screen Maintenance** to select the type of input signal source.

Step 2 Perform the following operations as required.

- Select an image mode.
- Adjust the backlight.
- Click **Screen On** or **Screen Off** to turn on or turn off the screen.
- Click **Show** to show the software version and work duration on the screen.

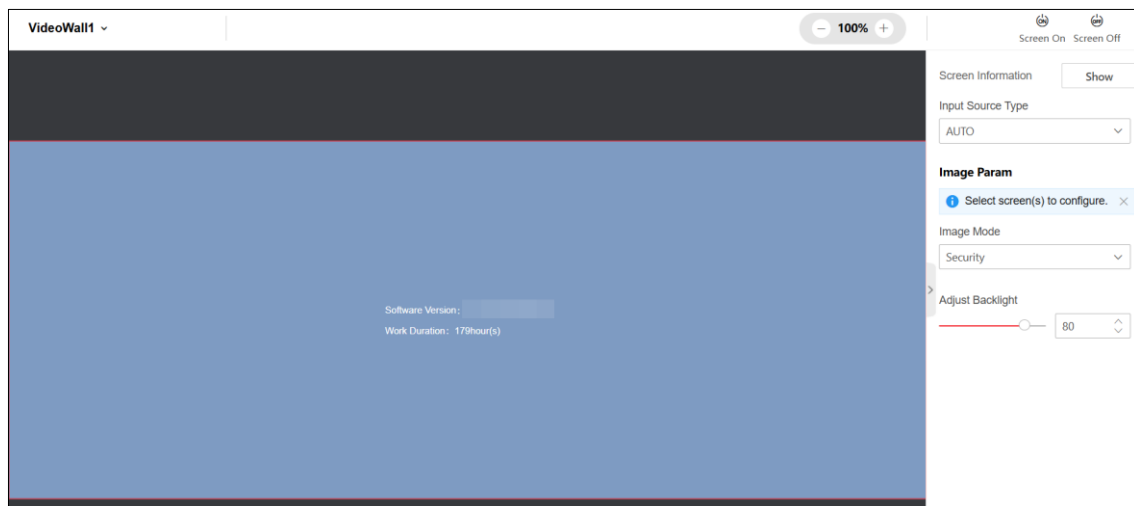


Figure 5-20 Screen Maintenance

5.5 Configure Image Effect on Screen

5.5.1 Configure Timed Screen On/Off Schedule

Step 1 Go to **Configuration** → **Timed Screen On/Off** to set the screen on and off schedule of the screen.

Step 2 On the page, set the screen on time and screen off time. Click **OK** → **Save**.

The screenshot shows the 'Timed Screen On/Off' configuration interface. At the top, there's a title bar. Below it, the 'Enable' toggle is turned on. The 'Screen On/Off Schedule' section has a 'Screen On' button selected. A modal window is open showing 'Screen On Time' as 09:00 and 'Screen Off Time' as 12:00, with 'OK' and 'Delete' buttons. Below the modal is a calendar grid with days of the week (Mon. to Sun.) and time slots (00, 02, 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24). A blue bar is visible on Monday from 09:00 to 12:00. A 'Save' button is at the bottom.

Figure 5-21 Configure Timed Screen On/Off Schedule

Step 3 Optional:

- Click  to tick the date that is required to set schedule. Click **OK** → **Save** to copy the schedule to the selected date.

The screenshot shows the same 'Timed Screen On/Off' configuration interface as Figure 5-21, but with a 'Copy To' dialog box open. The dialog box has a 'Select All' checkbox and checkboxes for each day of the week (Mon., Tue., Wed., Thur., Fri., Sat., Sun.). 'Tue.' is checked. The 'Save' button is at the bottom.

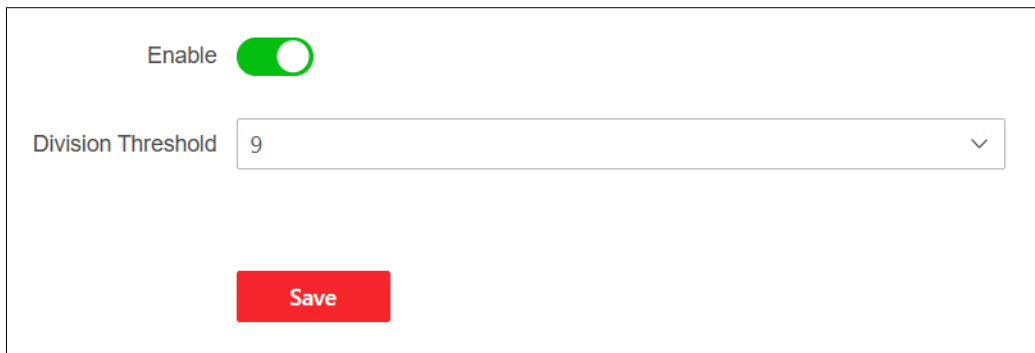
Figure 5-22 Copy the Screen On/Off Schedule

- Click **Clear** to delete all screen on/off schedule.

5.5.2 Configure Other Parameters

Go to **Configuration** → **Other Settings** to set the following parameters:

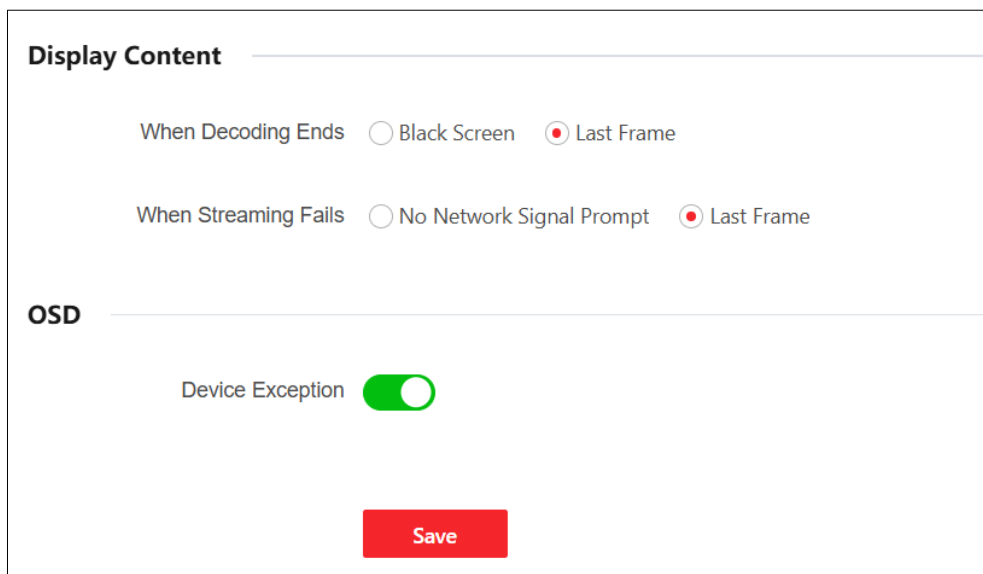
- Enable **Sub-Stream Auto-Switch** and set the window division threshold.
If the window division reaches the window division threshold, the device will automatically use sub-stream to get the images. In low bandwidth networks, you can use sub-stream to get relatively smooth images with a small bandwidth footprint.



The screenshot shows a configuration panel for 'Sub-Stream Auto-Switch'. At the top, there is a toggle switch labeled 'Enable' which is turned on (green). Below it, there is a dropdown menu labeled 'Division Threshold' with the value '9' selected. At the bottom of the panel is a red button labeled 'Save'.

Figure 5-23 Set Sub-Stream Auto-Switch

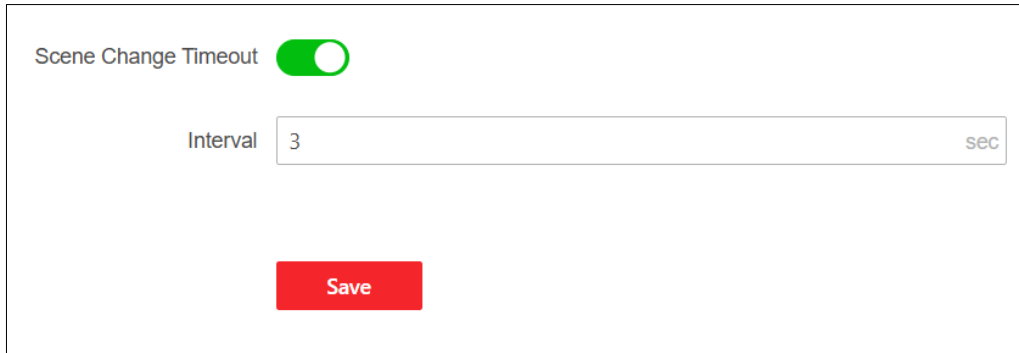
- Click **Display Settings** to configure the content displayed when decoding ends, when streaming fails, and when the decoding resource is insufficient.
 - If you select **No Network Signal Prompt**, a prompt will be displayed on the screen to indicate that there is no network signal.
 - If you enable the **Device Exception**, an OSD will be displayed on the screen when device exception occurred.



The screenshot shows the 'Display Settings' configuration panel. It is divided into two main sections: 'Display Content' and 'OSD'. Under 'Display Content', there are two rows of radio button options. The first row is 'When Decoding Ends' with options 'Black Screen' and 'Last Frame' (selected). The second row is 'When Streaming Fails' with options 'No Network Signal Prompt' and 'Last Frame' (selected). Under the 'OSD' section, there is a toggle switch labeled 'Device Exception' which is turned on (green). At the bottom of the panel is a red button labeled 'Save'.

Figure 5-24 Set Display Content

- Click **Scene Change** to set scene change timeout interval.



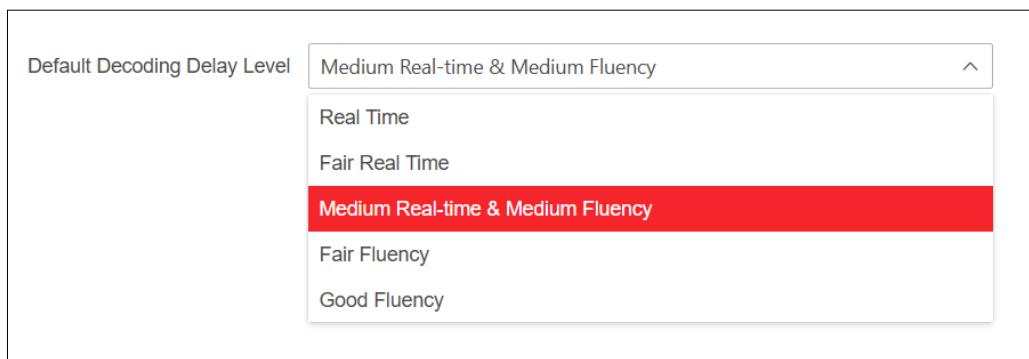
Scene Change Timeout ☒

Interval sec

Save

Figure 5-25 Set Scene Change Timeout Interval

- Click **Decoding Delay** and select a default decoding delay level of the device.



Default Decoding Delay Level

Medium Real-time & Medium Fluency

Real Time

Fair Real Time

Medium Real-time & Medium Fluency

Fair Fluency

Good Fluency

Figure 5-26 Set Decoding Delay Level

5.6 Device Maintenance

5.6.1 View Device Status

Click Overview to view the decoding resource status, network status, device status, and subsystem status.

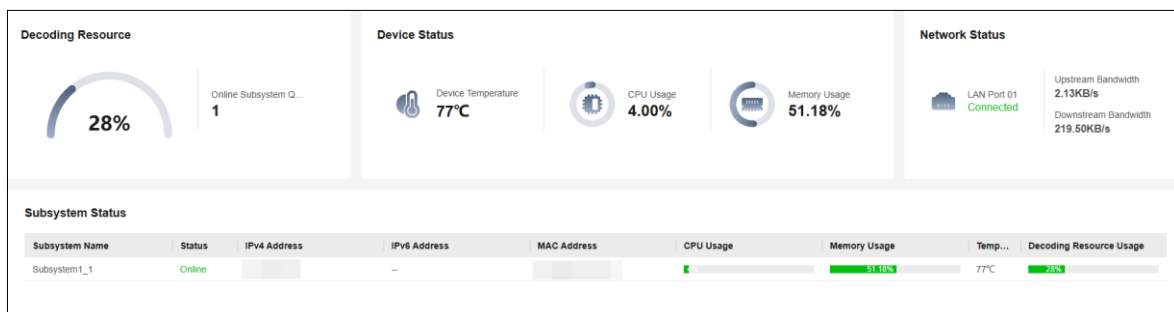


Figure 5-27 View Device Status

5.6.2 Configure System Parameters

Go to **Configuration** → **System** to configure the following parameters:

- Go to **System Settings** → **Basic Information** to view the device information and edit the device name as required. You can click **Upgrade** to go to the upgrade page for device upgrade.

Basic Information Time Settings

* Device Name IoT Monitor

MAC Address

Model

Device Serial No.

Device Version Upgrade

Decoder Version

Web Version

Save

Figure 5-28 View Basic Information

- Go to **System Settings** → **Time Settings**, if you select **NTP Sync**, the device clock synchronizes with the clock of the NTP server at the specified interval.
 - Set the address and port number of the NTP server.
 - Set the synchronization interval.

Basic Information Time Settings

Device Time 19:28:15

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

Time Sync Mode ☒ NTP Sync ☐ Manual Time Sync

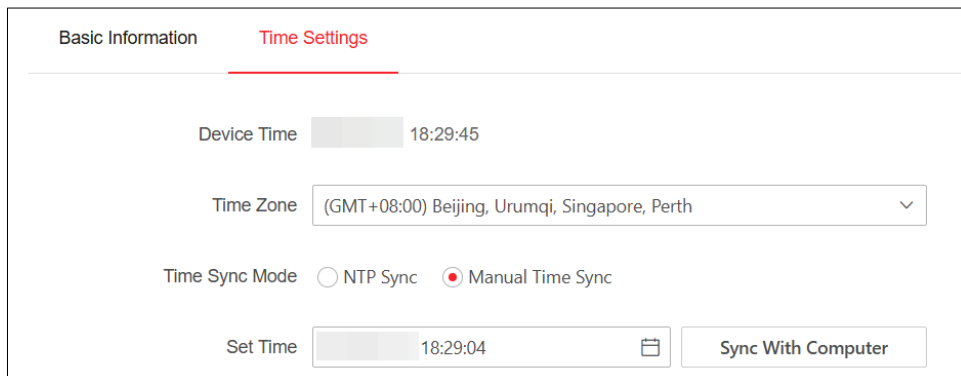
* Server Address

* NTP Port 123

* Interval 60 min

Figure 5-29 Select NTP Sync

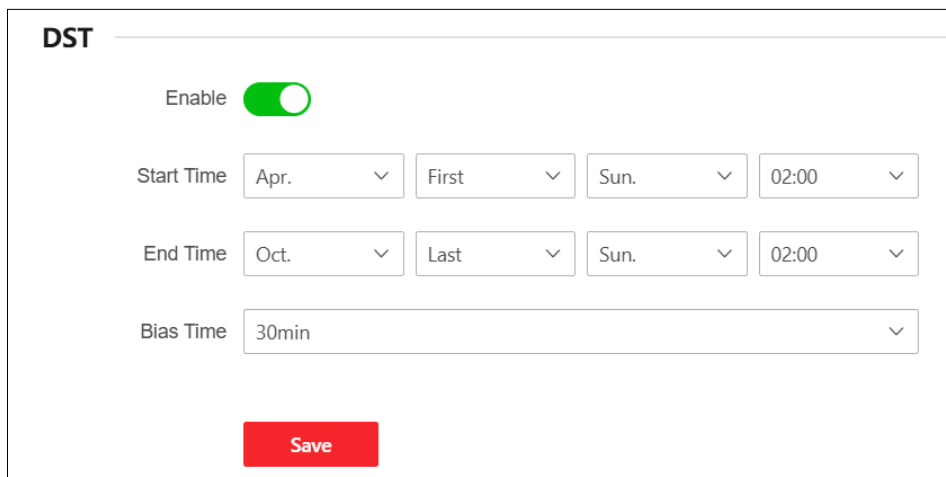
- On the **Time Settings** page, if you select **Manual Time Sync**, you can click **Sync with Computer** to make the device time same as the computer time.



The screenshot shows the 'Time Settings' tab in a web interface. It includes a 'Device Time' display showing 18:29:45, a 'Time Zone' dropdown menu set to '(GMT+08:00) Beijing, Urumqi, Singapore, Perth', and 'Time Sync Mode' with radio buttons for 'NTP Sync' and 'Manual Time Sync' (which is selected). At the bottom, there is a 'Set Time' field showing 18:29:04 and a 'Sync With Computer' button.

Figure 5-30 Select Manual Time Sync

- On the **Time Settings** page, if you enable DST (Daylight Saving Time), the device clock is set forward a specified time during the summer months.
 - Set the start time and end time.
 - Set the bias time.



The screenshot shows the 'DST' settings section. It features an 'Enable' toggle switch that is turned on. Below this are fields for 'Start Time' (Apr., First, Sun., 02:00) and 'End Time' (Oct., Last, Sun., 02:00). A 'Bias Time' dropdown menu is set to '30min'. A red 'Save' button is located at the bottom.

Figure 5-31 Enable DST

- Go to **User Management** → **User Management** to add users, edit the user name or password, or delete the users. When the user type is administrator, you cannot edit or delete it.

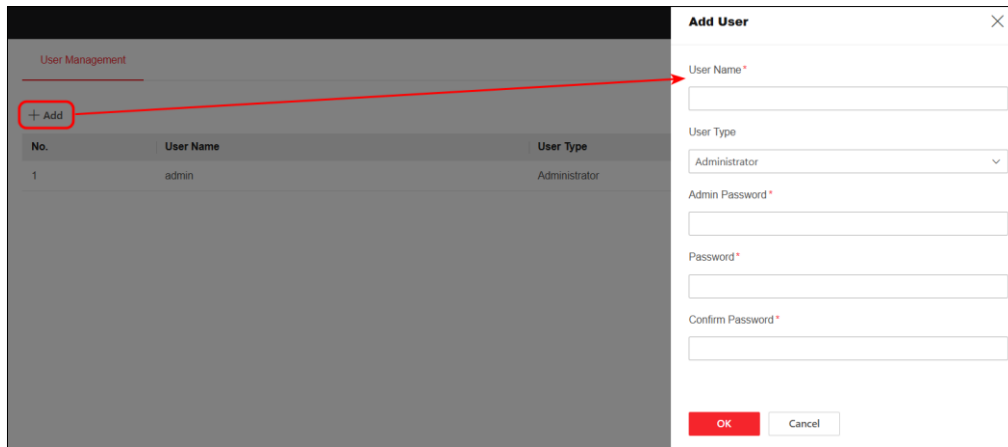


Figure 5-32 Manage Users

- Configure Serial Port: Go to **Serial Port Settings** → **Main Node Serial Port** to configure the serial port parameters

Main Node Serial Port

Select Serial Port

Serial Port Type ☒ RS485

Duplex Mode

Baud Rate

Data Bit

Stop Bit

Checking Type

Flow Control Type

Working Mode

Save

Figure 5-33 Configure Serial Port Parameters

5.6.3 Configure HTTP(S) Parameters

Step 1 Go to **Configuration** → **Network** → **Network Service** → **HTTP(S)**.

Step 2 Set the HTTP port number.

The port number can be either 80 or any value from 2000 to 65535. After editing the HTTP port, you need to enter HTTP://Device IP Address: Port in the browser to access the device.

Step 3 Enable HTTPS and then set the HTTPS port.

The default port number is 443. After editing the HTTPS port, you need to enter HTTPS://Device IP Address: Port in the browser to access the device.

Step 4 (Optional) Enable **Redirect to HTTPS Automatically**. Thus, accessing the device via HTTPS is used by default.

Step 5 Select digest algorithm type as required.

Step 6 Click **Save**.

HTTP(S)

HTTP

* HTTP Port 80

HTTPS

Enable ☒

* HTTPS Port 443

Redirect to HTTPS Automatically ☐

HTTP(S) Authentication

* Authentication Mode digest

* Digest Algorithm Type MD5/SHA256

MD5

SHA256

MD5/SHA256

Figure 5-34 Configure HTTP(S) Parameters

5.6.4 Configure Event

Go to **Configuration** → **Event**, set the highest and lowest temperature thresholds for the device, and set the audible warning and alarm reporting to the platform when the exceptional events occur.

The screenshot shows a configuration window with two sections. The first section, 'Device Exception Alarm', lists six events: IP Address Conflict, Invalid Access, Network Disconnected, Temperature Alarm, Decoding Device Exception, and Source Decoding Exception. Each event has two checkboxes: 'Trigger Audible Warning' and 'Report to the Platform'. The second section, 'Device Working Status Alarm', features a 'Temperature Alarm' slider. The slider has a red line with two circular handles. The left handle is at 0.0, labeled 'Below', and the right handle is at 90.0, labeled 'Above'. A red 'Save' button is located at the bottom center of the window.

Device Exception Alarm		
IP Address Conflict	☐ Trigger Audible Warning	☐ Report to the Platform
Invalid Access	☐ Trigger Audible Warning	☐ Report to the Platform
Network Disconnected	☐ Trigger Audible Warning	☐ Report to the Platform
Temperature Alarm	☐ Trigger Audible Warning	☐ Report to the Platform
Decoding Device Exception	☐ Trigger Audible Warning	☐ Report to the Platform
Source Decoding Exception	☐ Trigger Audible Warning	☐ Report to the Platform

Device Working Status Alarm		
Below	0.0	
Temperature Alarm		
	90.0	Above

Figure 5-35 Set Device Exception Alarm

5.6.5 Maintain the System

Go to **Maintenance and Security** → **System Maintenance** to configure the following parameters:

- On the **Restart** page, click **Restart** to restart the device.

The screenshot shows a horizontal menu with five tabs: 'Restart' (highlighted with a red underline), 'Upgrade', 'Backup and Reset', 'Log', and 'Device Debugging'. Below the 'Restart' tab, there is a 'Restart' label and a 'Restart' button.

Restart	Upgrade	Backup and Reset	Log	Device Debugging
Restart Restart				

Figure 5-36 Restart the Device

- On the **Upgrade** page, click  to select an upgrade file, and click **Upgrade**. You need to get the upgrade file in advance and save it locally.

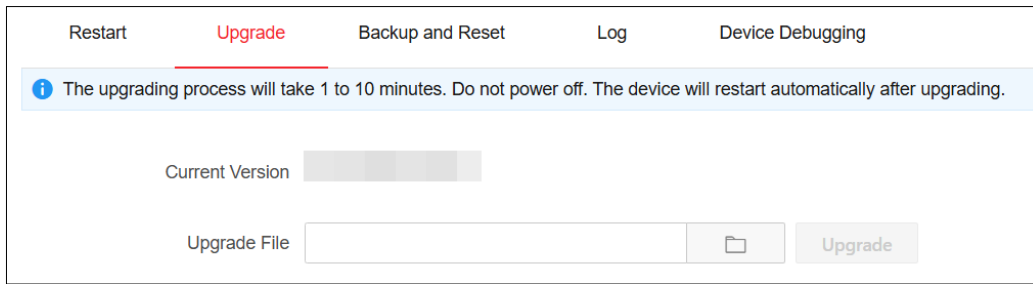


Figure 5-37 Upgrade the System

- On the **Backup and Reset** page, back up the device parameters and scene parameters.
 - Click **Export** and enter the encryption password to back up the device parameters.
 - Click **Export** to back up the scene parameters.

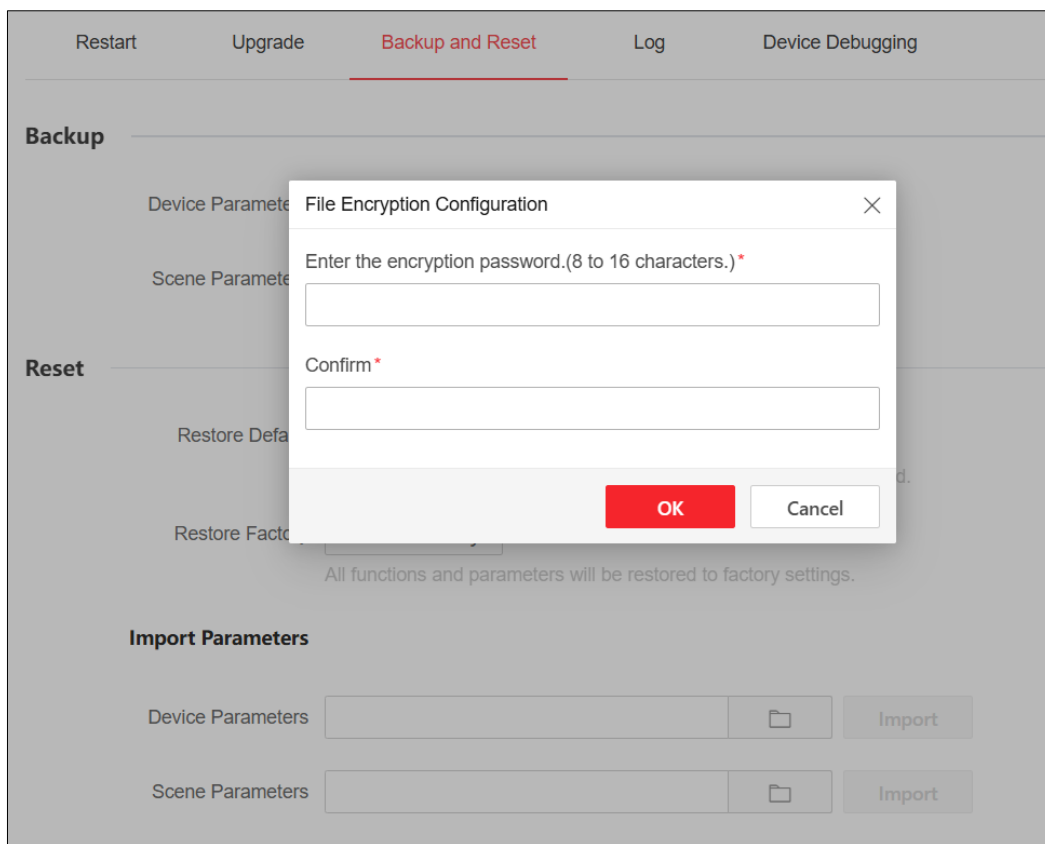
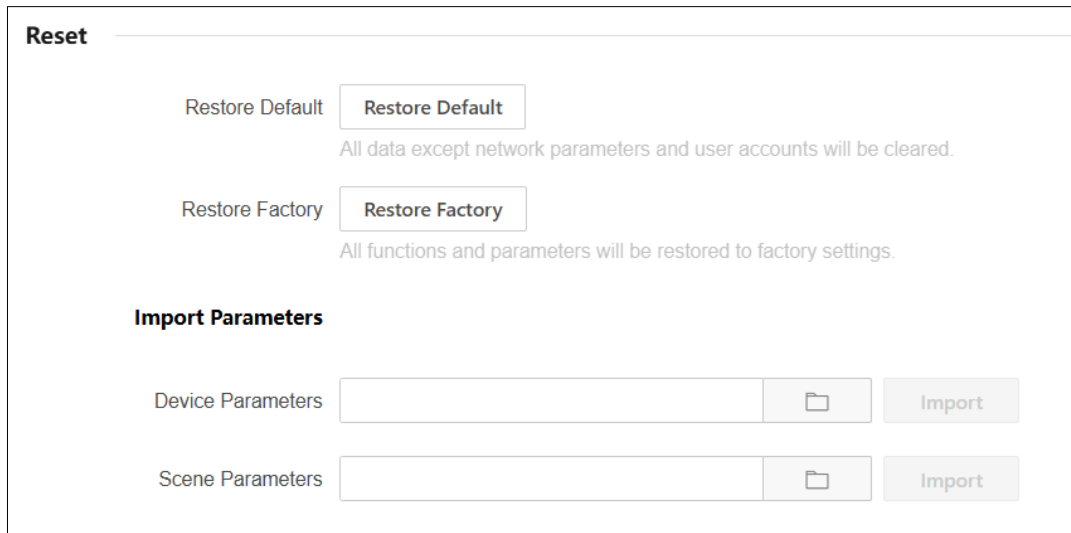


Figure 5-38 Backup Device Parameters

- On the **Backup and Reset** page, reset the device:
 - Click **Restore Default** to restore the parameters except for user information and network parameters to the default settings. Please use this function with caution.
 - Click **Restore Factory** to restore all functions and parameters of the device to the factory settings. Please use this function with caution.

- Click  to select a parameter file saved locally, and click **Import** to import device parameters. Enter the encryption password of exporting device parameters when importing device parameters.
- Click  to select a parameter file saved locally, and click **Import** to import scene parameters.



Reset

Restore Default **Restore Default**
All data except network parameters and user accounts will be cleared.

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

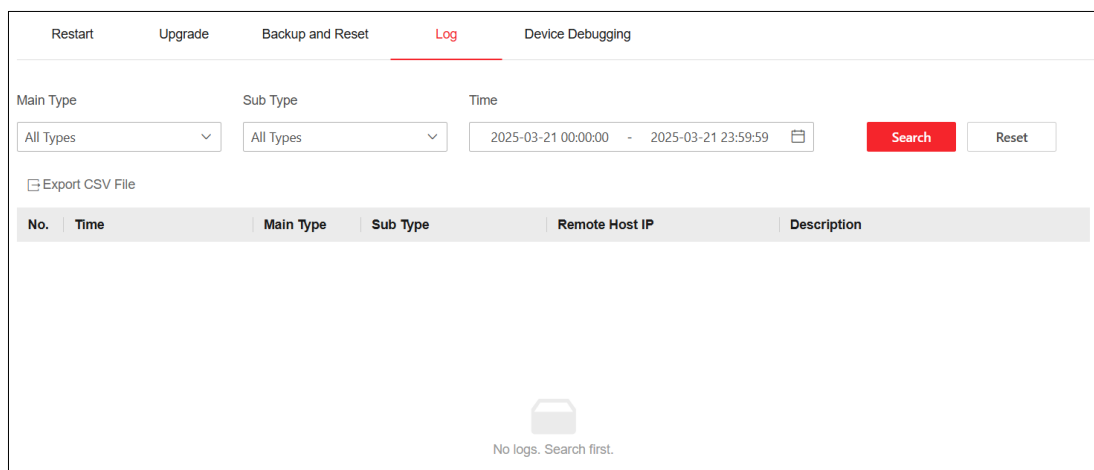
Import Parameters

Device Parameters  **Import**

Scene Parameters  **Import**

Figure 5-39 Reset the 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 CSV File** to export the found logs.



Restart Upgrade Backup and Reset **Log** Device Debugging

Main Type Sub Type Time
All Types All Types 2025-03-21 00:00:00 - 2025-03-21 23:59:59 **Search** Reset

[Export CSV File](#)

No.	Time	Main Type	Sub Type	Remote Host IP	Description
No logs. Search first.					

Figure 5-40 Search Logs

- On the **Device Debugging** page, configure the following parameters:
 - Enable SSH (Secure Shell) as required. After enable SSH, you need to set the port number. With SSH enabled, you can use a computer installed with the SSH client to access the device.
 - Click **Export** to export the debugging log file saved locally.

- Select a subsystem, click **Start Capturing** and then you can download the obtained packet capture file.

The screenshot displays the 'Device Debugging' tab in a web interface. At the top, there are navigation links: 'Restart', 'Upgrade', 'Backup and Reset', 'Log', and 'Device Debugging' (which is highlighted with a red underline). Below these links, the interface is divided into three main sections:

- SSH**: This section contains an 'Enable' toggle switch that is currently turned on (green). Below the toggle is a field for '* Port No.' with the value '22' and a 'Save' button.
- Export Debugging Log**: This section includes a 'Debug Log' label and an 'Export' button.
- Export Network Switching Packet**: This section features a 'Subsystem' dropdown menu with 'Board0_SubSys0' selected and a 'Start Capturing' button.

At the bottom of the interface, there is a 'Packet Capture File' section. It contains a large gray area with a file icon and the text 'Please click Start Capturing.'.

Figure 5-41 Debug the Device

5.6.6 Maintain Device Security

Go to **Maintenance and Security** → **Security Management** to configure the following parameters:

- Enable IP filtering control and configure the IP addresses that are allowed to or forbidden to access the device.

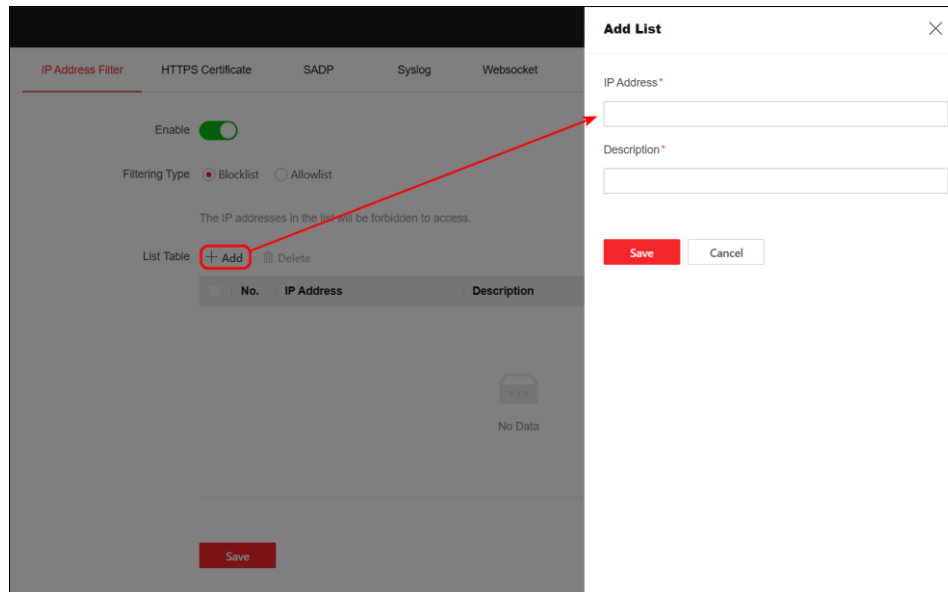


Figure 5-42 Configure IP Address Filter

- Import the locally saved HTTPS certificate and secret key.

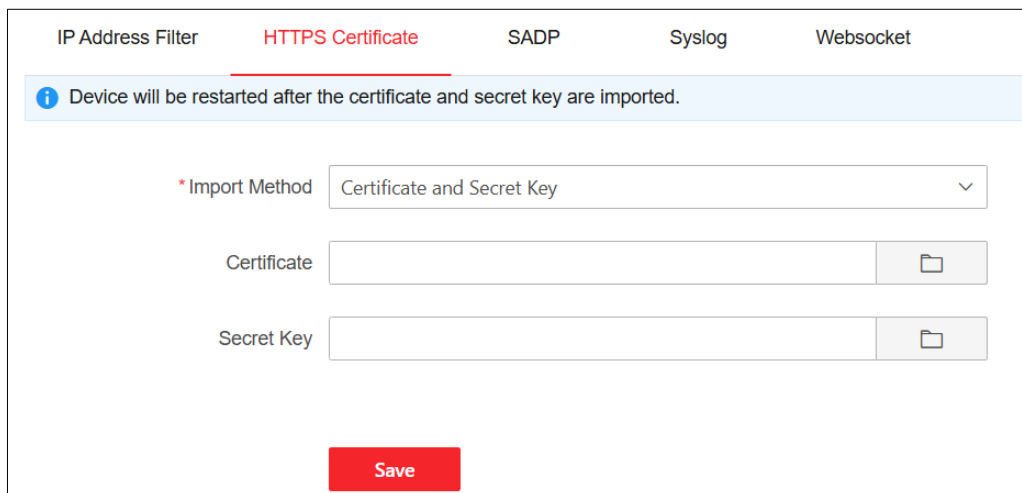


Figure 5-43 Import HTTPS Certificate and Secret Key

- Enable SADP as required. With SADP enabled, you can use the SADP software to search the device when it is in the same network segment with the computer.
- Enable Syslog as required. With Syslog enabled, the device logs can be uploaded to the Syslog server.

IP Address Filter HTTPS Certificate SADP **Syslog** Websocket

Enable ☒

* Server IP Address

* Port No.

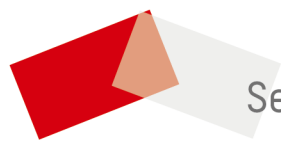
* Uploading Period h

* Protocol Type ▼

Save

Figure 5-44 Enable Syslog

- Enable Websocket as required. With Websocket enabled, you can export the stream of network signal source.



See Far, Go Further