



Decoding Monitor

User Manual

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Applicable Models

This manual is applicable to 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

- 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.
- If a power adapter is provided in the device package, use the provided adapter only. If no power adapter is provided, ensure the power adapter or other power supply complies with Limited Power Source. Refer to the product label for the power supply output parameters.

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Chapter 1 Introduction

1.1 Product Introduction

Decoding Monitor features an integrated network decoding engine, capable of decoding and displaying signals from network cameras and network video recorders (NVR) while supporting multi-screen split real-time display and video playback query. Its all-in-one design simplifies system architecture and enhances stability and operational efficiency. It is suitable for scenarios like fire control centers and commercial retail environments.

1.2 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
	• OSD page: Switch to the next page or the parameter of sub menu page. • Other pages: Show all signal sources on screen.
	• Main menu page: Previous/Next. • Sub menu page: Increase or decrease the value. • USB file page: Select the file. • USB audio and video playing page and other signal source page: Increase or decrease the volume.
	• OSD page: Confirm. • Other pages: Show the current input signal source.
	• OSD page: Short press to return to the previous page or exit the OSD page. • Signal Source page: Exit the signal source page. • File selection for USB playing: Play. • Other pages: Enter the OSD page.
	Power Switch. • Working state: – Short press to turn off the screen, short press again to restore

	the screen display. – Long press for 3s to turn off the device. ● Shutdown state: Short press to turn on the device.
	Power Indicator. ● When the device is in standby mode, the power indicator light is solid white. ● When the device is turned on or turned off, the power indicator light is off.

1.3 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
DC	DC power input interface	HDMI	HDMI digital signal input interface
USB	USB 2.0 interface	USB	USB2.0 interface
CONSOLE	Device debugging interface		3.5 mm audio output Interface
RJ45	Network interface	/	/

Note

The panel interfaces may vary with device model. For specific interfaces, please refer to the actual model of your device.

Chapter 2 Installation and Cable Connection

Note

The installation drawings are for reference only.

2.1 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.

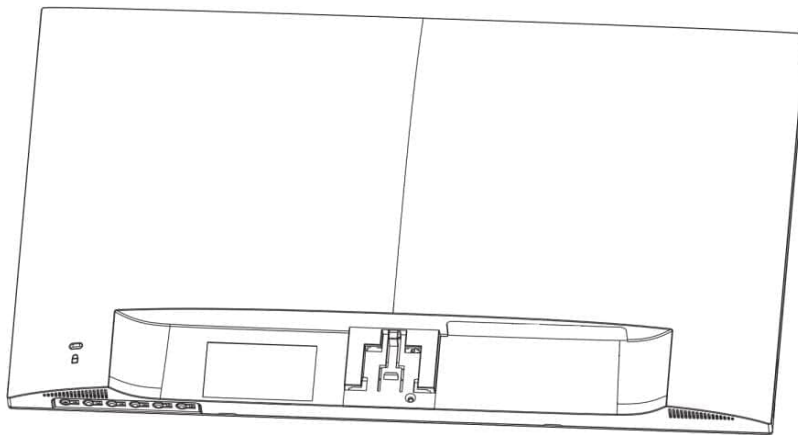


Figure 2-1 Place the Monitor

Step 2 Take out the bracket, cable ties, and base from the packing box. Align the cable ties with the holes in the bracket and insert the cable ties into the bracket. Then align the bracket with the buckle on the base and fix the bracket clockwise.

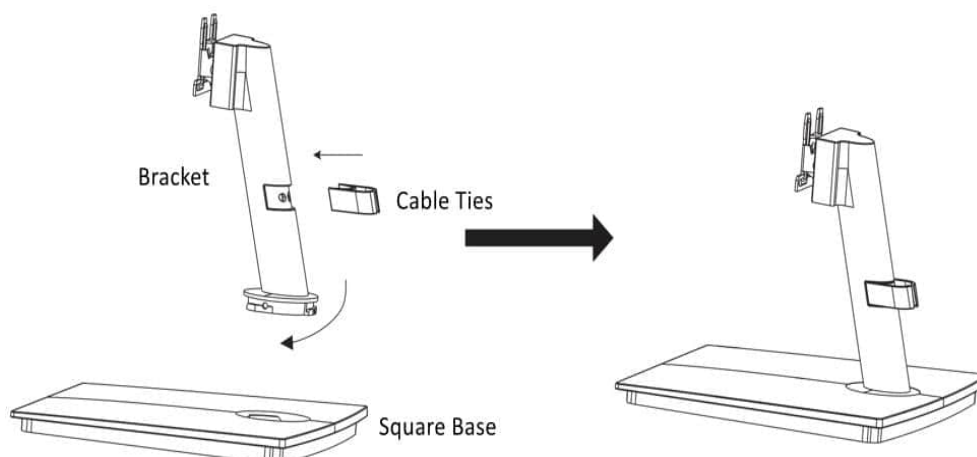


Figure 2-2 Fix the Bracket with the Base

Step 3 Align the metal parts on the bracket of square base with the slots at the back of the device and insert them.

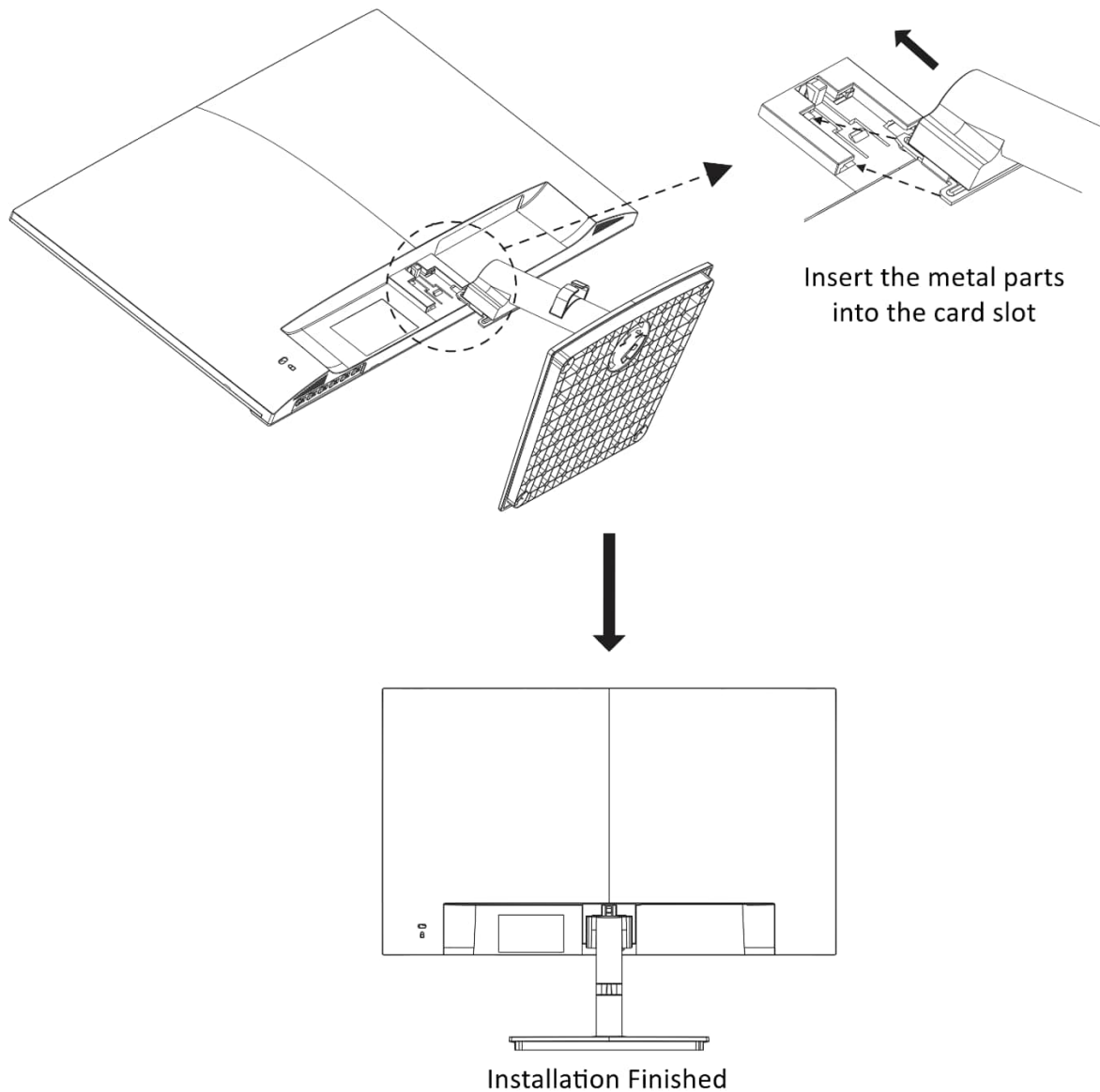


Figure 2-3 Fix the Bracket with the Device

Step 4 (Optional) To remove the square base, perform the following operations.

- 1) Press and hold the snapback on the back of the device, pan down and pull out the bracket.

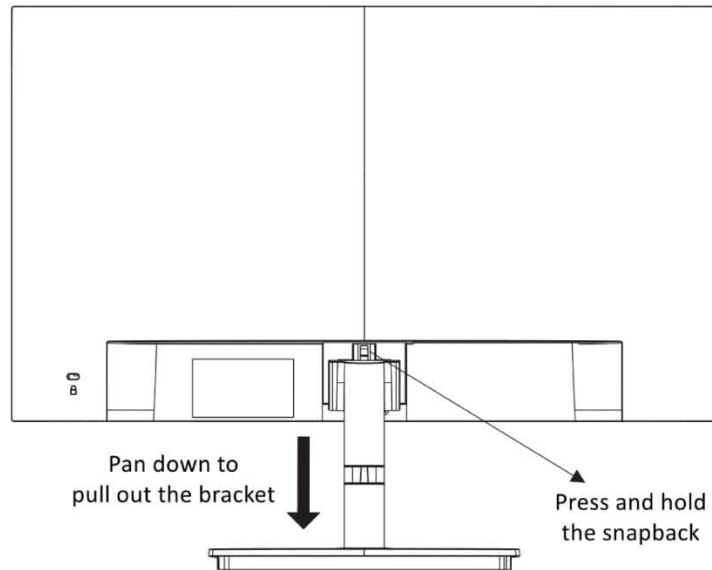


Figure 2-4 Remove the Device and Bracket

- 2) Fasten the buckle at the bottom of the base with your finger, and rotate the bracket in the direction indicated by OPEN to remove it from the base.

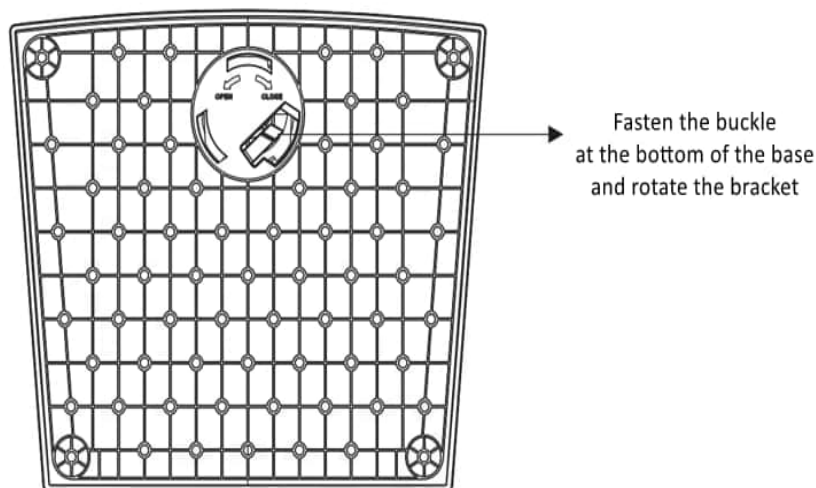


Figure 2-5 Remove the Bracket from the Base

2.2 Install the Herringbone Base

Step 1 Gently lift the device and 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.

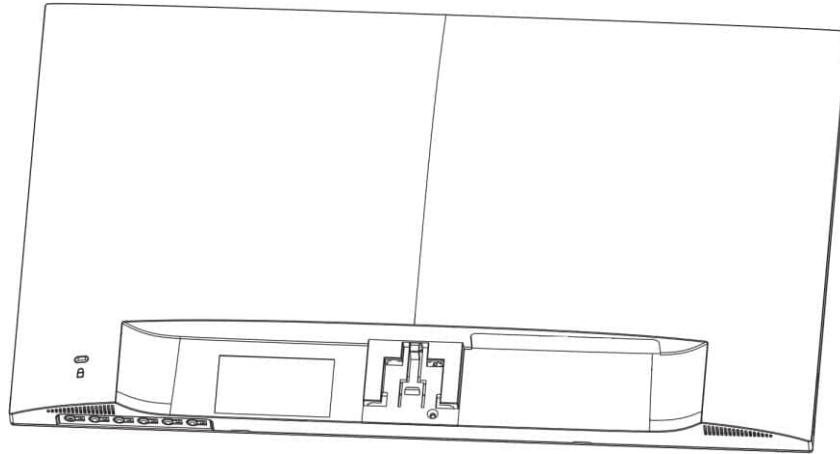


Figure 2-6 Place the Device Flatly

Step 2 Take out the bracket and the herringbone base from the packing box.

- Install Bracket and Base (Model A)

Insert the bracket downward into the grooves of the herringbone base. Tighten the screw at the bottom of the base to secure the bracket to the base. Install the bracket on the herringbone base.

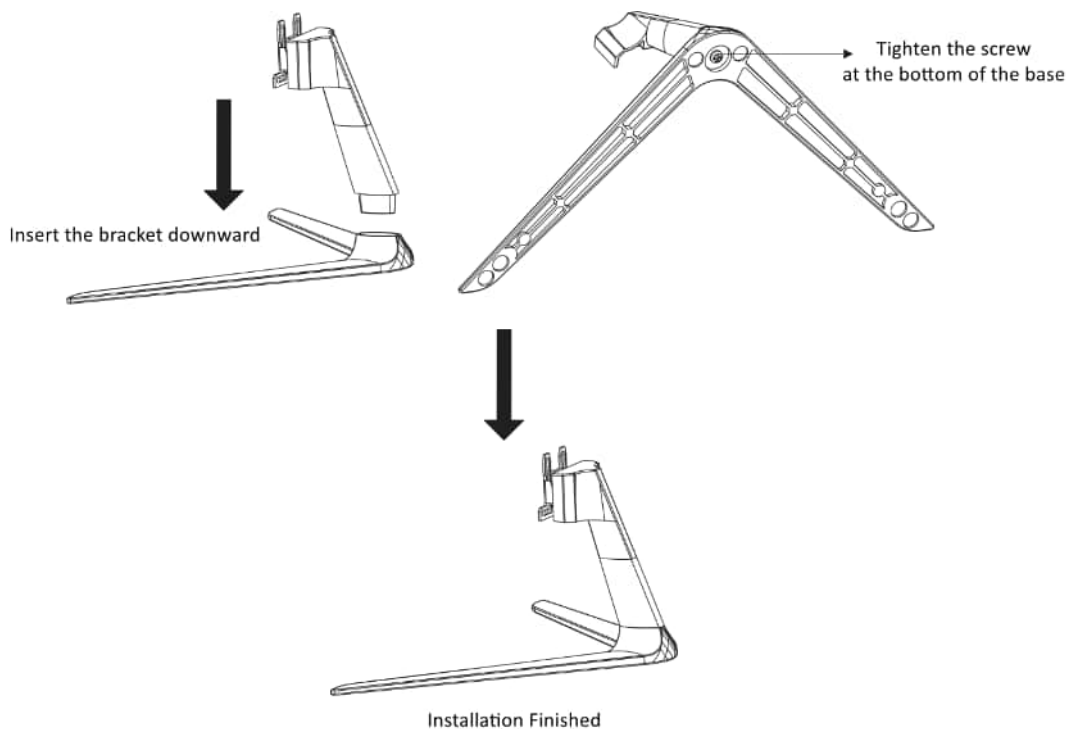


Figure 2-7 Install Bracket and Base (Model A)

- Install Bracket and Base (Model B)

Insert the bracket downward into the grooves of the herringbone base until you hear a click.

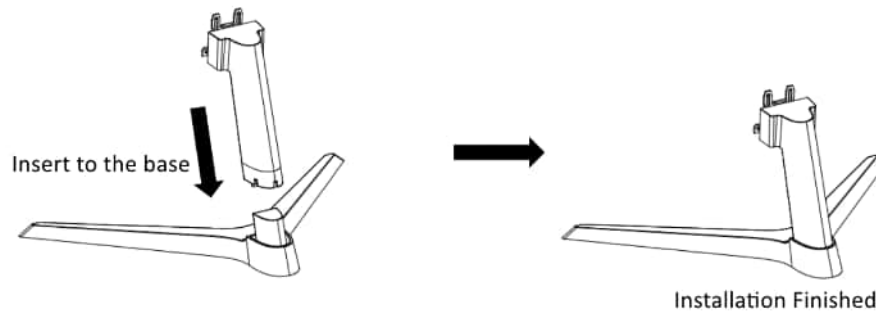


Figure 2-8 Install Bracket and Base (Model B)

Step 3 Fix the bracket with the device. For details about how to secure a square base, see “**2.1 Step 3**” in “**2.1 Install the Base**”.

Step 4 (Optional) If the herringbone base needs to be removed, remove the bracket and device in the same way as the square base. For details, see “**Step 4**” in “**2.1 Install the Base**”.

 Note

When removing the bracket and base, loosen the screw at the bottom of the herringbone base and lift out the bracket.

2.3 Connect the Power Cord and Signal Cable

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.

Step 3 Turn on the device.

 Caution

- 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.
 - Short press  on the rear panel of the device to enter standby mode. Short press  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 HDMI or VGA 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 HDMI or VGA signal source or short pressing , 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 3 OSD Operations

3.1 Select the Signal Source

Step 1 Press  to enter the signal source page.

Step 2 Press  to switch input sources, and press  to confirm.

Step 3 Press  to exit the signal source page.

3.2 Operate the OSD

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.

3.3 OSD Function

Table 3-1 OSD Function Description

Main Menu	Sub Menu	Description
Image Mode	Image Mode	● Standard: Suitable for a normal environment. It is the default picture mode. ● Movie: Suitable for playing the movie. ● Presentation: Suitable for playing materials like file and PPT. ● Monitoring: Suitable for surveillance video playback. ● User: Customize the brightness, contrast, color, or sharpness to adjust display effect.
	Brightness	0–100. The higher the value is, the brighter the image will be.
	Contrast	0–100. The higher the value is, the clearer the image will be.
	Color	0–100. The higher the value is, the more colorful the image will be.
	Sharpness	0–100. Rise the value up to make the image more vivid.
Picture 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.
	Eye Care Mode	Off/High/Middle/Low. After enabling, it can effectively reduce blue light radiation, alleviate eye fatigue, and protect vision.
	Aspect Mode	16:9/4:3/P-to-P. Adjust aspect ratio of the image.
ID Setting	Configuration Mode	● Auto: Configure total rows / total columns / auto config. ● Manual: Configure row/column.
	Row / Total Rows	1–15.
	Column / Total Columns	1–15.
	Auto Config	Auto configure.

Main Menu	Sub Menu	Description
Control Linkage	Control Linkage	Off/On.
	Videowall No.	1–100.
	Intelligent Scenes	Off/On.
Keypad	Keypad	Enable or disable the keypad as required.
Alarm Settings	Overheat Alarm	If the temperature exceeds the designated value, an alarm will be triggered.
	Alarm Temp(°C)	0–100. Set the alarm temperature.
USB Settings	USB Auto Play	Off/Photo/Movie. Supports video encoding: AVC (default bitrate mode CBR); MPEG-4 Visual XVID; VC-1 WMV3; FFDS FLV1; V_MPEGH/ISO/HEVC(H265), etc. Supports audio encoding: AAC, MPEG Audio MP3, MPEG Audio Layer 2, PCM, and MPEG Audio MP3 bitrate mode VBR, etc.
Audio Mode	Mute	Mute or unmute the device.
	Volumn	0–100. Adjust the volume of the device.
	Balance	0–100. Adjust the balance between the left and right speakers.
System Info.	Software Version	Software version of the device.
	Device ID	Device ID information.
	Current Temp(°C)	Current temperature of the device.
	Serial Number	Serial number of the device.
	Decoder Version	Decoder version of the device.
OSD Settings	Language	Set the OSD language.
	OSD Duration	Always On / 15 sec / 30 sec. Set the time for OSD menu occurrence when there is no operation.
	Auto Sleep	Off / 5 min / 10 min. Set the auto sleep time.
	No Signal	Blue/LOGO/Black. The background of the screen when there is no signal.
	Auto Input Source	Off/On.

Main Menu	Sub Menu	Description
Maintenance	Upgrade(USB)	Upgrade software version by inserting the USB flash drive.
	Restore Defaults	Restore to default settings.

Chapter 4 Local Device Operations

In the local device configuration page, you can configure device IP address, add signal sources/groups/scenes, edit window division, enable auto-play for all cameras/scenes, restore to factory settings, show/hide decoding parameters, etc.

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.

4.1 Local Activation and IP Address Settings

Step 1 Connect the mouse. After powering on and starting up the device for the first time, you will see the activation page.

Step 2 Set your activation password, and click **OK**.

Step 3 Enter the IPv4 address, or **Enable DHCP**.



Figure 4-1 Set IP Address

Step 4 Click **Next** to enter **Camera Operation**.



Figure 4-2 Camera Operation

4.2 Add Camera

Add the signal source to decode and display.

4.2.1 Add Online

Step 1 Click **Add Device**→**Add Online**, and the system will automatically scan cameras on the same LAN.

The screenshot shows the 'Add Camera' window with two main sections: 'Add Online' and 'Manually Add'.

Add Online: This section is highlighted with a blue border. It includes a description: 'Applicable if the device and the server or the client are on the same LAN.' Below the description is a blue icon of a Wi-Fi signal with a plus sign. To the right of this section, under the heading '1. Select the devices to add.', there is a 'Found device(s): 0' indicator, a 'Refresh' button, and a search bar. Below these are three columns: 'Device Name', 'IP Address', and 'Port No.', each with a corresponding input field.

Manually Add: This section is below 'Add Online'. It includes a description: 'Applicable if the IP address of a single device are provided.' Below the description is a blue icon of a document with a plus sign. To the right of this section, under the heading '2. Enter device information.', there are two input fields: 'User Name' (containing 'admin') and 'Password' (containing 'Please Enter...'). Below these is a toggle switch for 'Encrypted Stream' which is currently turned off.

At the bottom right of the window are three buttons: 'Add', 'Add and Continue', and 'Cancel'.

Figure 4-3 Check Online Cameras

Step 2 Select cameras and enter the login user name and password.

Step 3 Enable **Encrypted Stream** if needed, and click **Add**.

4.2.2 Manually Add

Click **Add Device**→**Manually Add** to add cameras by IP address or IP address range.

Add by IP Address

Enter the IP address of an existing camera to add it.

Step 1 Select **IP Address**, and enter the IP address, user name, password, port No., etc. of the camera to be added.

The screenshot shows the 'Add Camera' window with the 'Adding Mode' set to 'IP Address'. The 'Add Online' section is highlighted. The 'Manually Add' section is also visible. The configuration fields are as follows:

Field	Value
Adding Mode	IP Address (selected)
IP Address *	Please enter
User Name *	admin
Password *	Please enter
Device Manufacturer	HIKVISION
Stream Type	Main (selected)
Device Name	Please enter
Port No *	8000
Transmission Protocol	TCP
Encrypted Stream	Off

Buttons at the bottom: Add, Add and Continue, Cancel.

Figure 4-4 Add Camera by IP Address

Step 2 According to your actual needs, select **Stream Type**, and enable **Encrypted Stream**. Click **Add**, and the device will automatically decode and display the view of the camera.

Add by IP Range

If multiple cameras are in the same IP address range and have the same user name and password for logging in, you can add them in batch by entering the IP address range.

Step 3 Select **IP Range**, enter the first IP (e.g., 192.168.1.1) and last IP (e.g., 192.168.1.100) of the IP address range, as well as information such as user name, password, and port No.

The screenshot shows the 'Add Camera' window with the 'Adding Mode' set to 'IP Range'. The 'Add Online' section is highlighted. The 'Manually Add' section is also visible. The configuration fields are as follows:

Field	Value
Adding Mode	IP Range (selected)
IP Address *	Please enter
User Name *	admin
Password *	Please enter
Device Manufacturer	HIKVISION
Stream Type	Main (selected)
Device Name	Please enter
Port No *	8000
Transmission Protocol	TCP
Encrypted Stream	Off

Buttons at the bottom: Add, Add and Continue, Cancel.

Figure 4-5 Add Camera by IP Range

Step 4 According to your actual needs, select **Stream Type**, and enable **Encrypted Stream**. Click **Add**, and the device will automatically decode and display the view of the camera.

4.3 Camera Operations

Switch Layout

Click **Select Layout** to select the mode (1, 4, 6, 8, 9, or 16 screens, etc.).

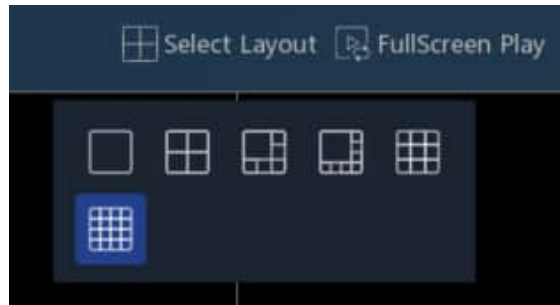


Figure 4-6 Select Layout

Play Camera

Drag the camera to the area on the live view to play.

Table 4-1 Icon Description

Icon	Description
	Stop playing.
	Zoom in the image.
	Play audio of the camera.
	Edit camera information in the list.
	Delete camera in the list.

4.4 Manage Groups

Manage cameras by adding them to different groups.

Add Group

Click **Group**→**Add Group**, enter the group name, set dwell time, and check the cameras to be added to this group. Click **OK**.

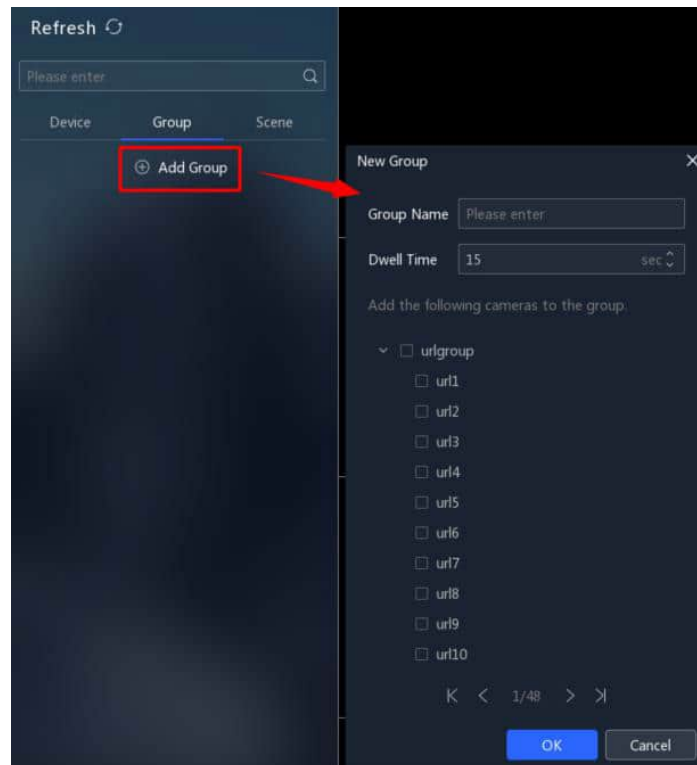


Figure 4-7 Add Group

Play Group

Drag the group to the camera playing area, set the dwell time, and click **Enter**. The system will automatically play videos from cameras in the group.

Table 4-2 Icon Description

Icon	Description
	Exit auto-switch.
	Edit group name, and dwell time. Add or remove cameras in the group.
	Delect group.

4.5 Manage Scenes

Save the current view layout as a new scene or replace an existing one for quick calling.

Save Scene

Click **Scene** → **Save Scene**, and enter the scene name. Click **OK**.

Table 4-3 Icon Description

Icon	Description
	Call the target scene.
	Edit scene name.
	Delect scene.

4.6 Play Camera/Scene

Full Screen Play

- Play Current Layout

Click **FullScreen Play**→**Play Current Layout** to play the current layout in full screen.

- Exit Full Screen

Move your mouse, and click  to exit full-screen playing after verifying the device login password.

- Sub-Window Full Screen Playing

In full-screen mode, you can double-click a window to view in full screen. Double-click again to exit full screen.

Play All Cameras

Click **FullScreen Play**→**Auto Play All Cameras**, and set the dwell time. Click **OK**.

Play Scene

Click **FullScreen Play**→**Auto Play Scenes**, check the scenes to be played, click , and set the dwell time. Click **OK**.

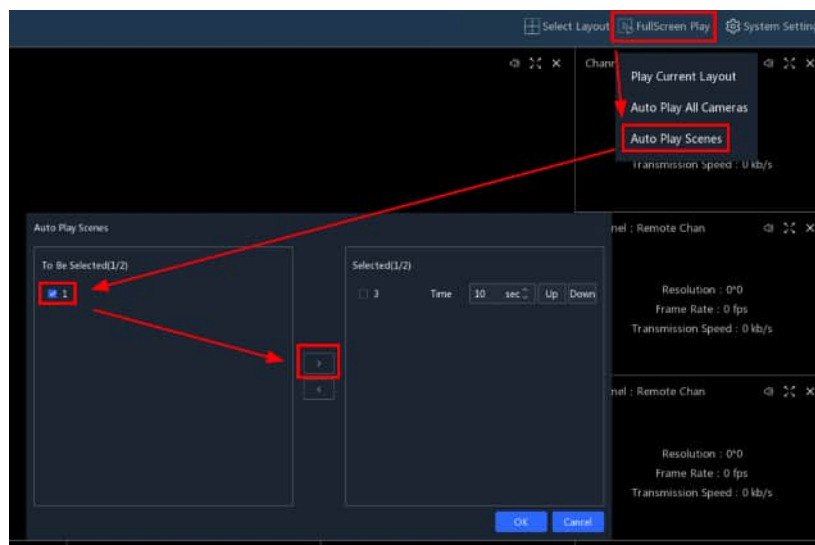


Figure 4-8 Play Scene

4.7 Playback Recordings

Two recording playback modes are supported: normal playback and time-split playback. The descriptions of the icons on the playback interface are shown below.

Table 4-4 Icon Description

Icon	Description	Icon	Description
	Close All: Close the playback window for a selected channel or all channels.		Number of Time Segments for Time-split Playback: 4, 9, or 16.
	Select Layout: Select the screen layout, including 1, 4, 6, 8, 9, or 16 splits.		Slow Playback: Supports decreasing playback speed to 1/2X, 1/4X, and 1/8X. Audio is disabled during speed playback.
	Human Detection Playback: During normal playback, search for video segments where people appear.		Playback Speed Type: Select the desired playback speed.
	Vehicle Detection Playback: During normal playback, search for video segments where vehicles appear.		Fast Playback: Supports increasing playback speed to 1X (default), 2X, 4X, and 8X. Audio is disabled during speed playback.
	Rewind 30 Seconds: Skip backward 30 seconds in the playback.		Play back the recording from the previous time period under a specific timeline type.
	Recording playback is paused. Click to start or resume playback.		Play back the recording from the next time period under a specific timeline type.

Icon	Description	Icon	Description
	Recording is playing. Click to pause playback.		Timeline Type: 24h (default), 8h, and 1h. • During normal playback, timeline settings apply to all playback windows simultaneously. • During time-split playback, timeline settings apply only to the selected playback window.
	Fast Forward 30 Seconds: Skip forward 30 seconds in the playback.		Asynchronous Playback (default mode): During playback, operations such as playback speed settings, pausing or playing recordings, dragging the progress bar, and fast-forwarding or slow-motion playback apply only to the selected playback window.
	Display Date and Time: Show the current playback date and time.		Synchronous Playback (only supported in Normal Playback): During playback, operations such as playback speed settings, pausing or playing recordings, dragging the progress bar, and fast-forwarding or slow-motion playback apply to all playback windows simultaneously.

Normal Playback

Playback video from one channel or multiple channels simultaneously for the same time period.

Step 1 Click **Playback** → **Normal**.

Step 2 (Optional) Select the playback layout.

Step 3 Click to select the playback date on the calendar. The current date is selected by default.

Step 4 Select the desired channel(s) and drag it or them into the playback window to play the video file for the selected date.

Note

- After dragging a channel into the playback window, a blue triangle indicator will appear on the upper-right corner of the date in the calendar at the bottom-left of the interface.
- If no recording is found for the selected date, a "No recording found" prompt will appear.

Step 5 (Optional) Configure playback mode, timeline type, playback speed, etc., as needed.

Step 6 (Optional) Click the  or  to view video segments where people or vehicles appear.

Note

- When people or vehicles appear, the timeline progress bar of the video segment will turn orange.
- The display quality of video segments of people and vehicles depends on the capacity and configuration of the video storage device.

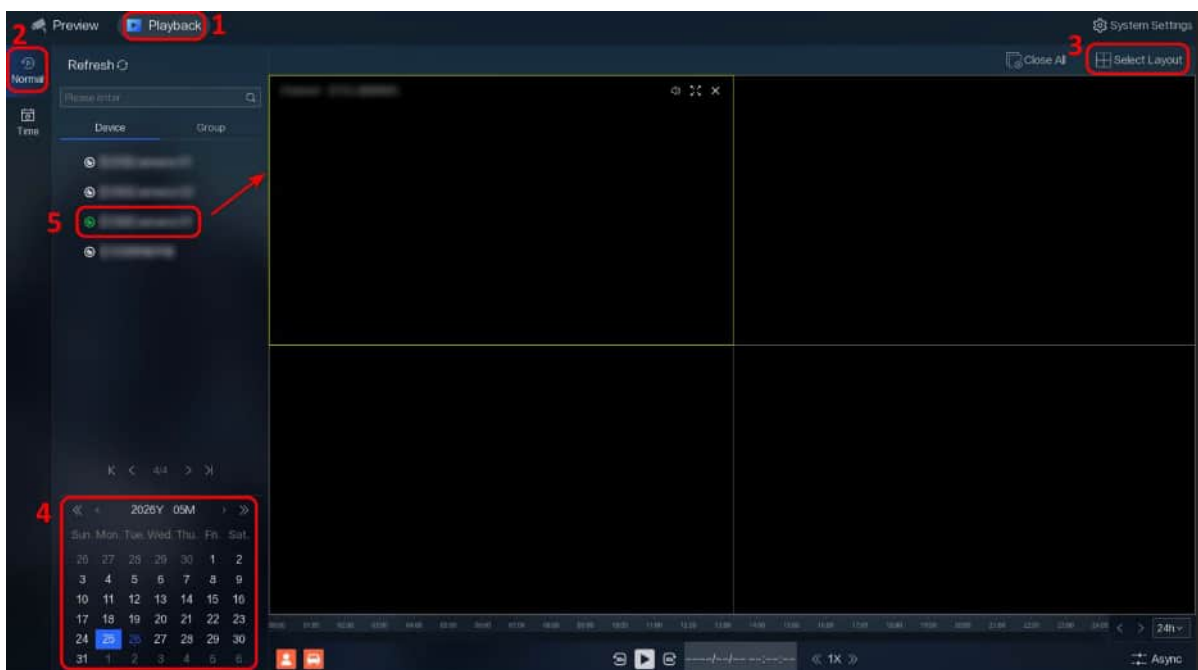


Figure 4-9 Normal Playback

Time-split Playback

Evenly distribute the video time of a channel within a specified time period across multiple windows according to the number of time splits for asynchronous playback.

Step 1 Click **Playback** → **Time**.

Step 2 Click to select the desired channel.

Step 3 Click to select the playback date and set the start and end time.

Step 4 Click **Start Playback** or directly drag the channel into the playback window to play the video file for the selected date.

Step 5 (Optional) Configure the number of time segments, playback speed type, and timeline type, etc. for the current device recording as needed, and then view the video.

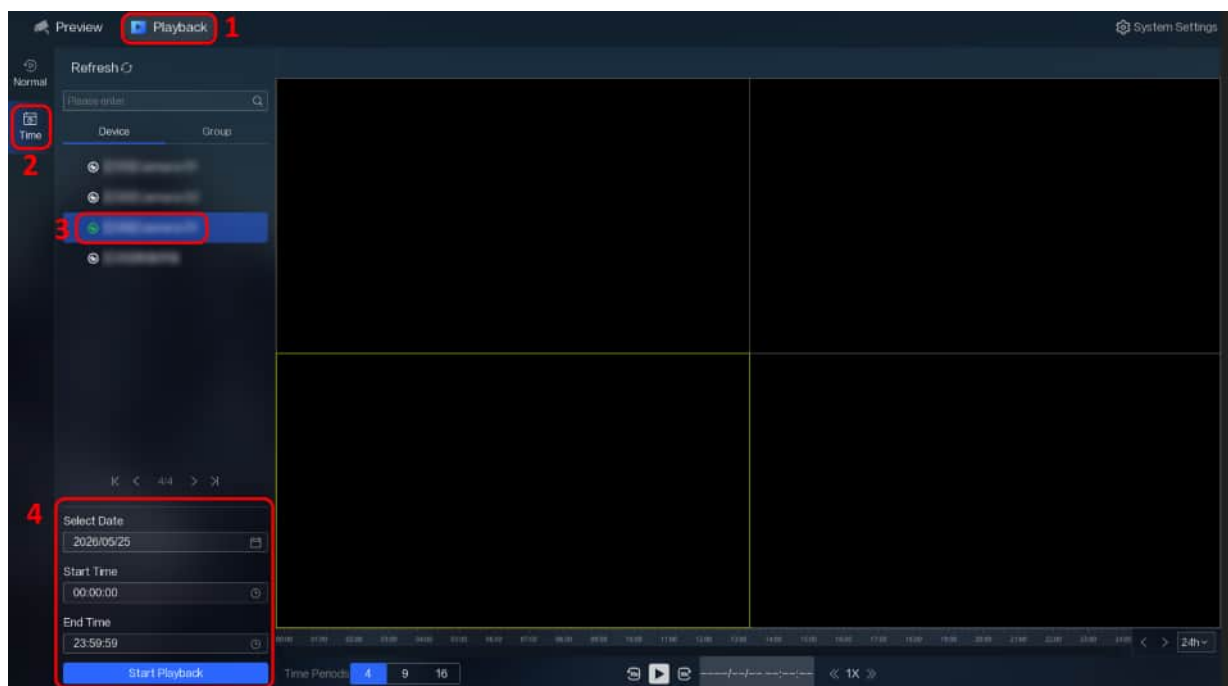


Figure 4-10 Time-split Playback

4.8 System Settings

Edit Device IP

Click **System Settings** → **Set Device IP Address** to edit the device IP address.



Figure 4-11 Edit Device IP

Restore to Factory

Go to **System Settings**→**Restore to Factory**→**OK**, and select **Simple Restore** or **Full Restore**. Enter the password you set when activating the device, and then click **OK**.

- **Simple Restore**

All parameters except network settings and user information will be restored to factory settings. Please operate with caution.

- **Full Restore**

All functions and parameters of the device will be restored to factory settings. Please operate with caution.

Show Parameters

Go to **System Settings**→**Show Parameters** to display the resolution and transmission speed on the screen.

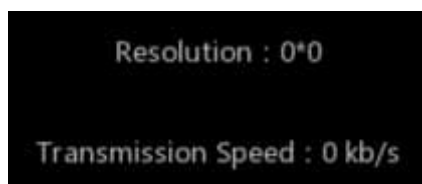


Figure 4-12 Show Parameters

Click **System Settings**→**Hide Parameters** to hide them.

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. You can use the SADP client or the device web page to activate the device. 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.

Use SADP Client and Web Page

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

Step 2 Download the [SADP client](#) from the Hikvision website and install it 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.

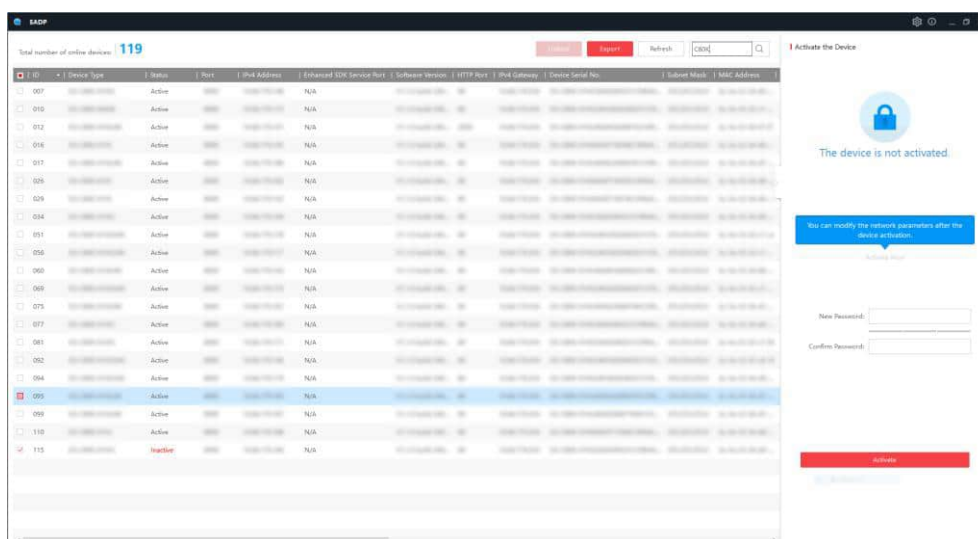


Figure 5-1 Activate the Device via SADP Client

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**.

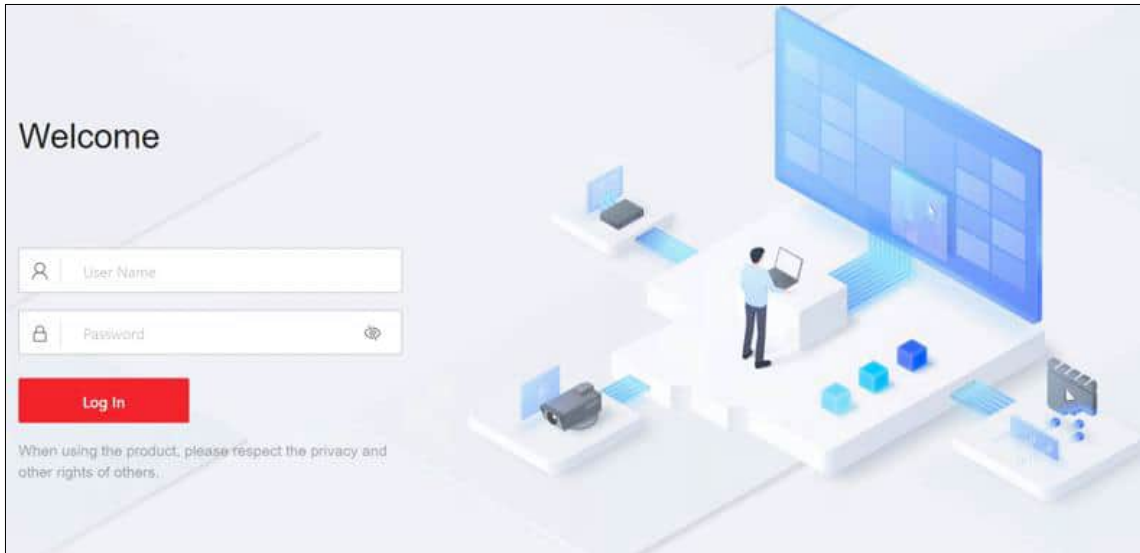


Figure 5-2 Login Page

Step 7 (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**.

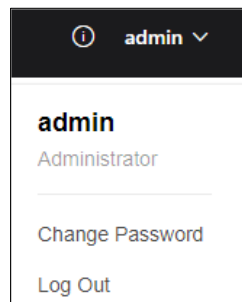


Figure 5-3 Change Password

Use Web Page

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**.

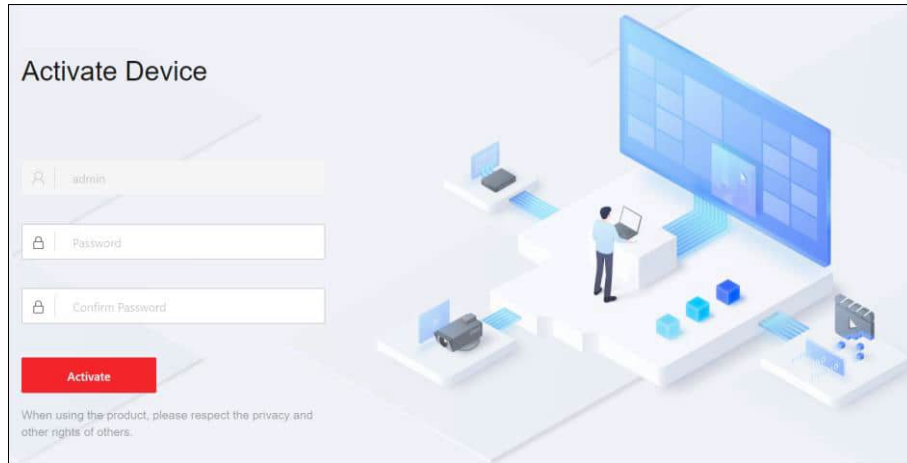


Figure 5-4 Activate the Device via Browser

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

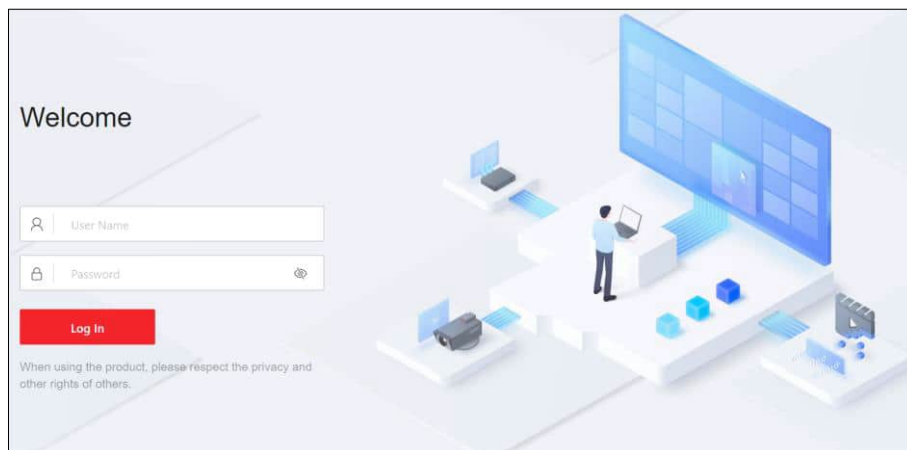


Figure 5-5 Login Page

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**.

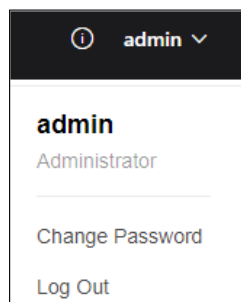


Figure 5-6 Change Password

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**.

TCP/IP

NIC Type/NIC 10/100/1000 Mbps Self-Adaption

* IPv4 Address

* IPv4 Subnet Mask

* IPv4 Default Gateway

DNS Server Settings

* Preferred DNS Server

* Alternative DNS Server

Save

Figure 5-7 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

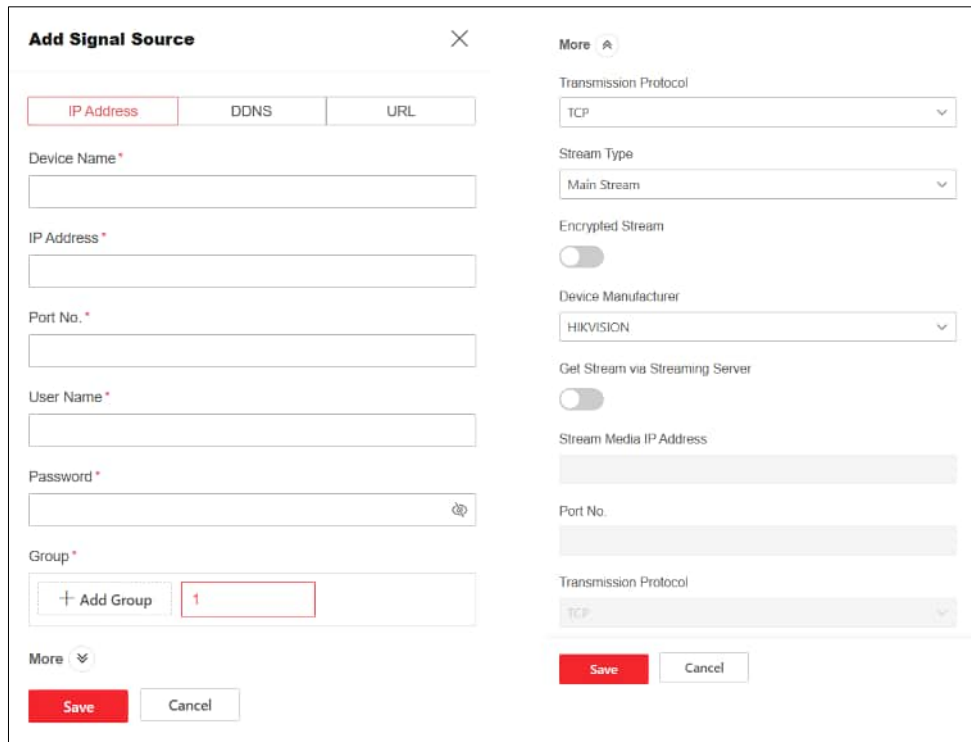
Step 1 Go to **Video Wall Operation** → **Source**, click , and select **IP Address**.

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**.



Add Signal Source

IP Address DDNS URL

Device Name *

IP Address *

Port No. *

User Name *

Password *

Group *

+ Add Group 1

More

Transmission Protocol
TCP

Stream Type
Main Stream

Encrypted Stream
☐

Device Manufacturer
HIKVISION

Get Stream via Streaming Server
☐

Stream Media IP Address

Port No.

Transmission Protocol
TCP

Save Cancel

Figure 5-8 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.

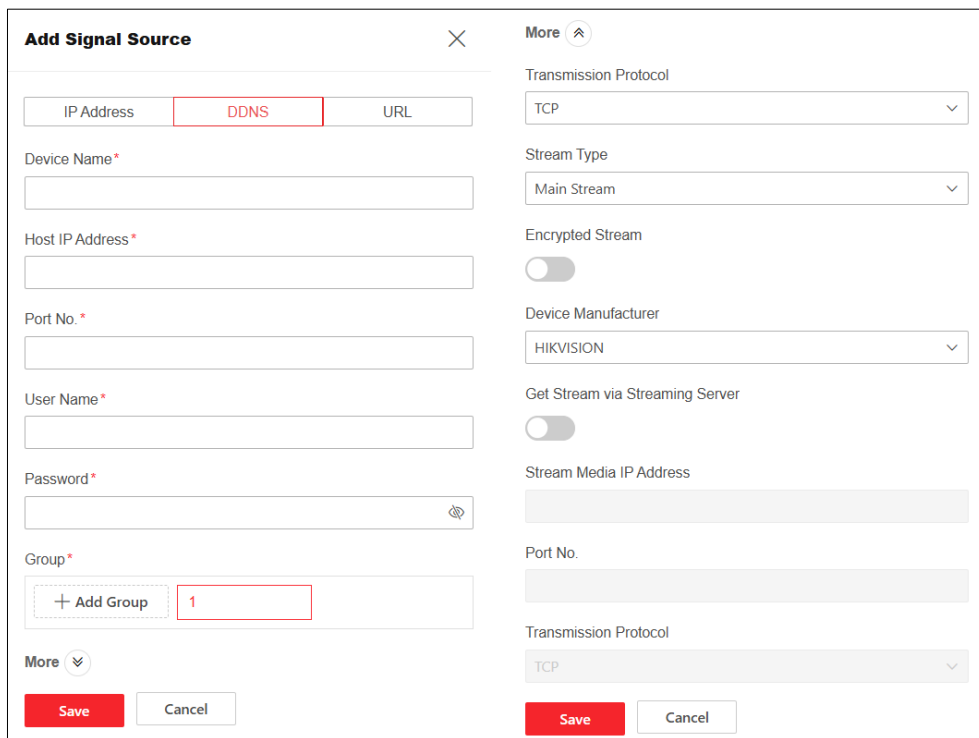
Step 1 Go to **Screen Operation** → **Signal Source**, click , and select **DDNS**.

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**.



The screenshot shows the 'Add Signal Source' dialog box with the 'DDNS' tab selected. The dialog is divided into two main sections. The left section contains fields for 'Device Name', 'Host IP Address', 'Port No.', 'User Name', 'Password', and 'Group'. The 'Group' field has a dropdown menu with '1' selected. The right section, titled 'More', contains a 'Transmission Protocol' dropdown (set to 'TCP'), a 'Stream Type' dropdown (set to 'Main Stream'), an 'Encrypted Stream' toggle (disabled), a 'Device Manufacturer' dropdown (set to 'HIKVISION'), a 'Get Stream via Streaming Server' toggle (disabled), a 'Stream Media IP Address' field, a 'Port No.' field, and another 'Transmission Protocol' dropdown (set to 'TCP'). At the bottom of each section are 'Save' and 'Cancel' buttons.

Figure 5-9 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**.

Add Signal Source

IP Address

DDNS

URL

Device Name *

URL *

Encrypted Stream

Group *

+ Add Group

1

Save

Cancel

Figure 5-10 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.

Edit Signal Source

Device Name *

IP Address *

Port No. *

User Name *

Password *

Group *

+ Add Group

1

More

Save

Copy To

Cancel

More

Transmission Protocol

TCP

Stream Type

Main Stream

Encrypted Stream

Device Manufacturer

HIKVISION

Channel No.

0

Get Stream via Streaming Server

Stream Media IP Address

Port No.

Transmission Protocol

TCP

Save

Copy To

Cancel

Figure 5-11 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.

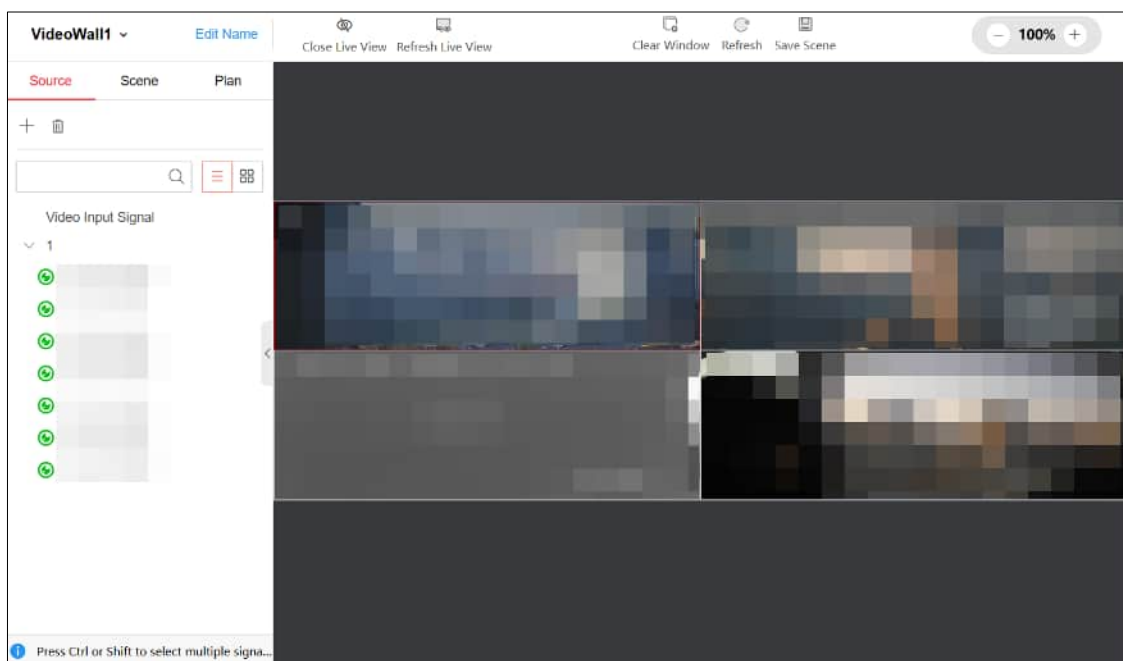


Figure 5-12 Batch Bind Signal Sources to Video Wall

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 .

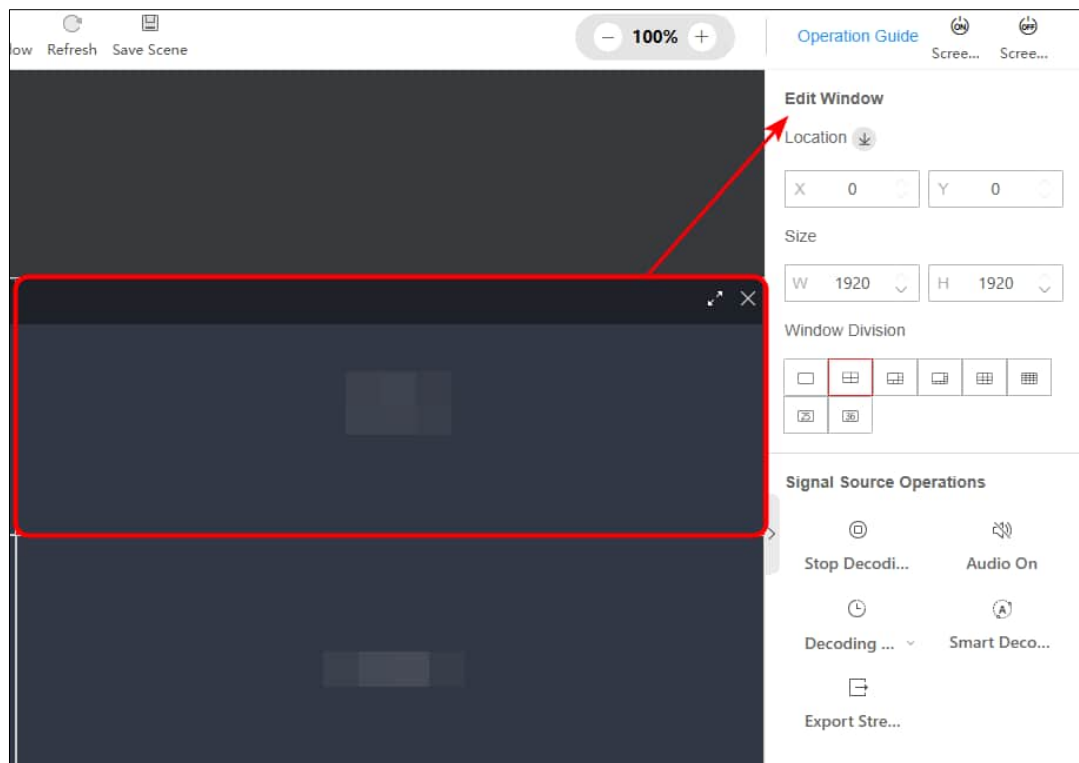


Figure 5-13 Edit a Signal Source Window

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

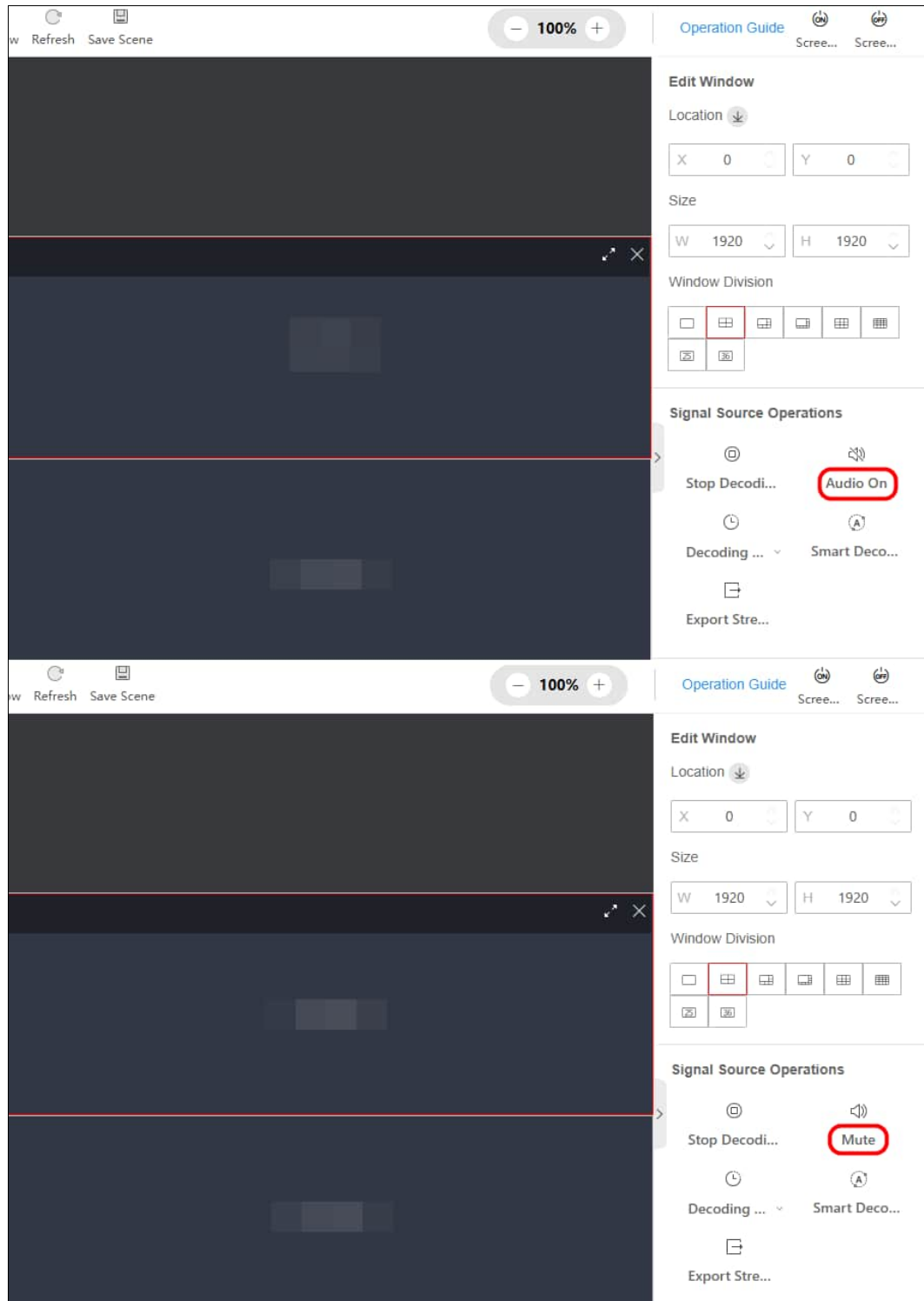


Figure 5-14 Configure Audio for the Signal Source

- 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**.

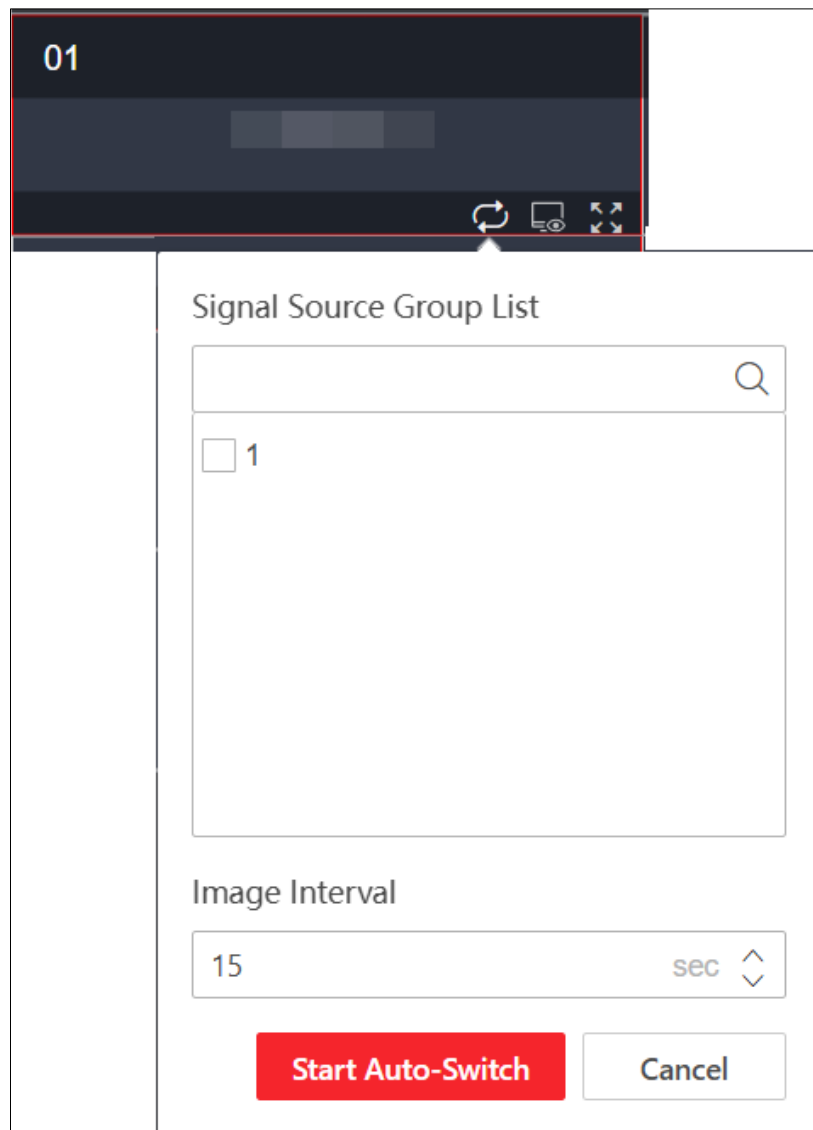


Figure 5-15 Set Signal Source Group Auto-Switching

- 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.

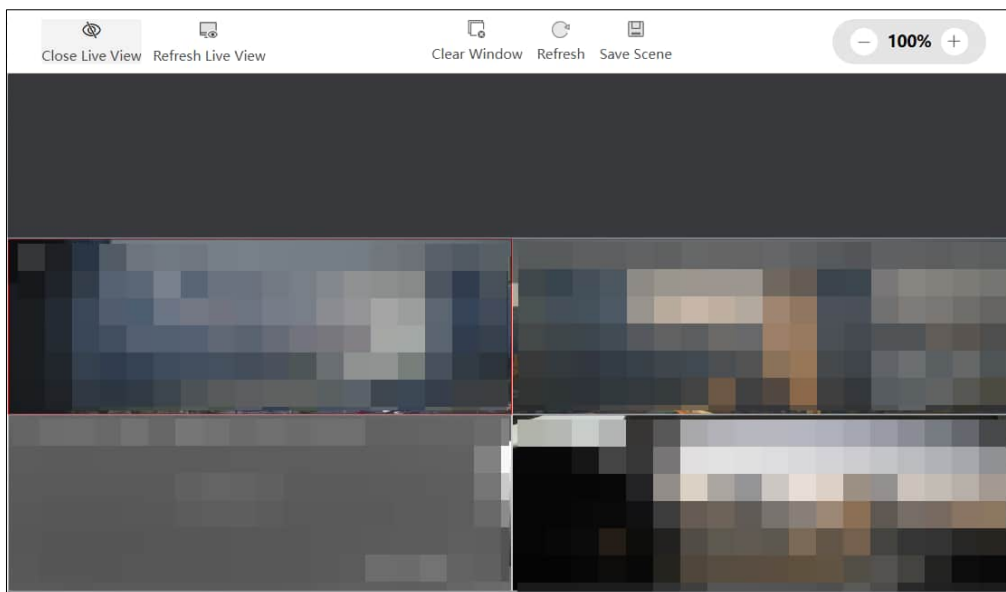


Figure 5-16 Preview the Signal Source

- 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.

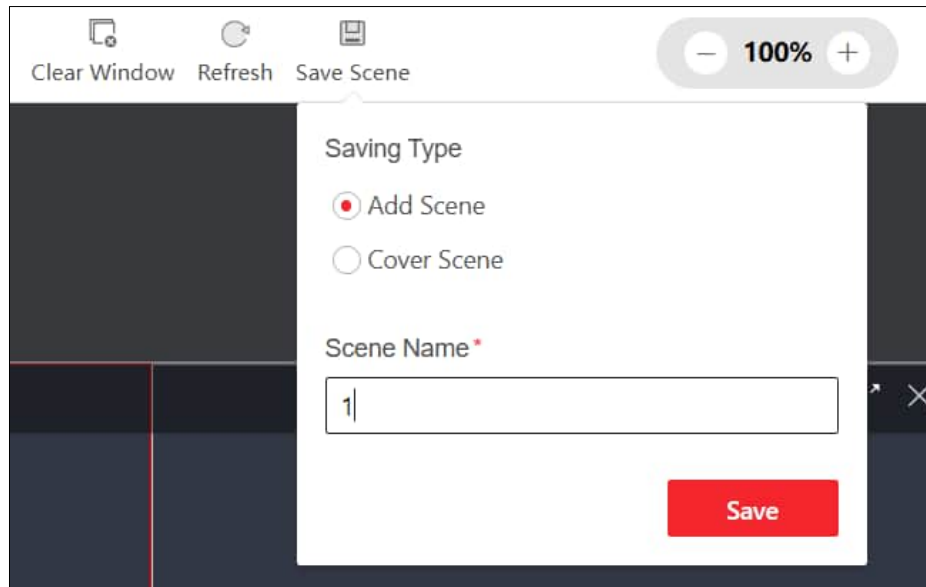


Figure 5-17 Save Scene

- 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.

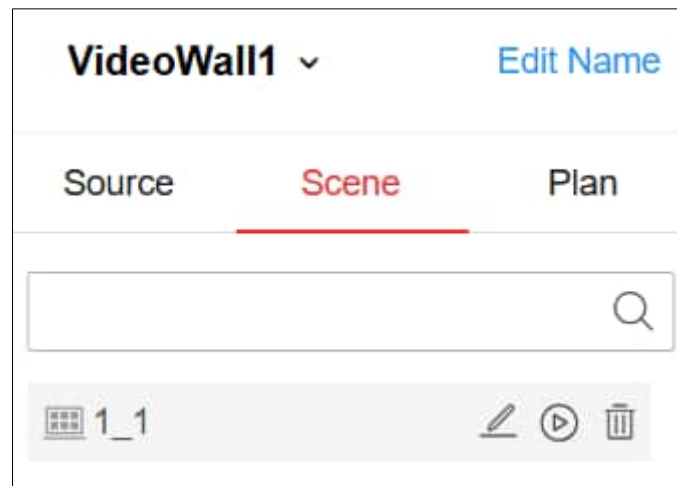


Figure 5-18 Manage Scene

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**.

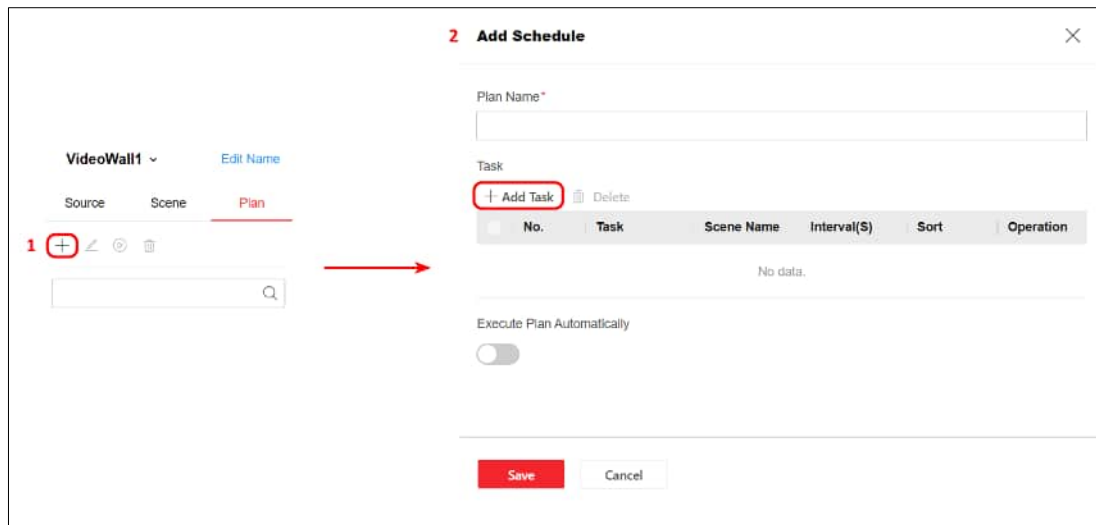


Figure 5-19 Add a Plan

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.

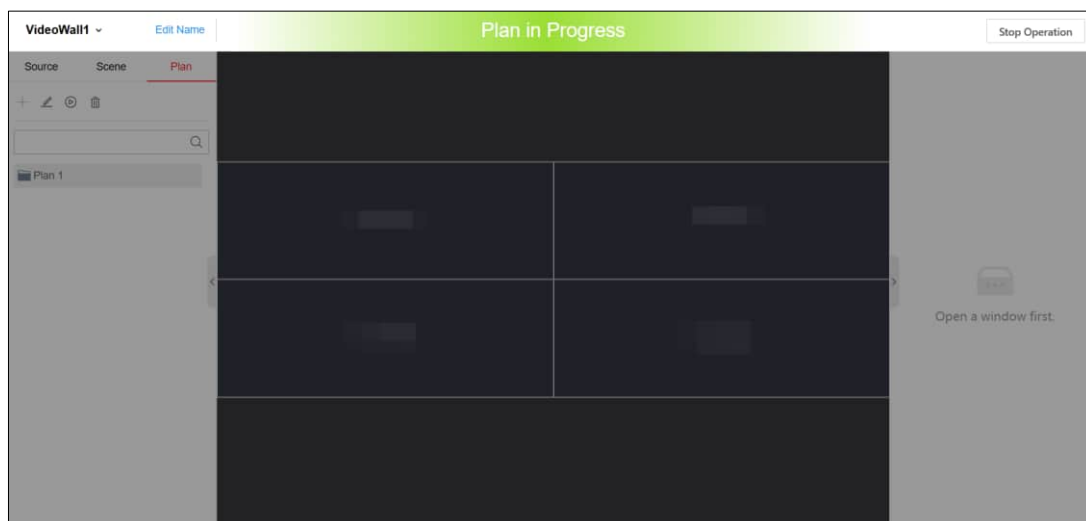


Figure 5-20 Call the Plan

- 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.

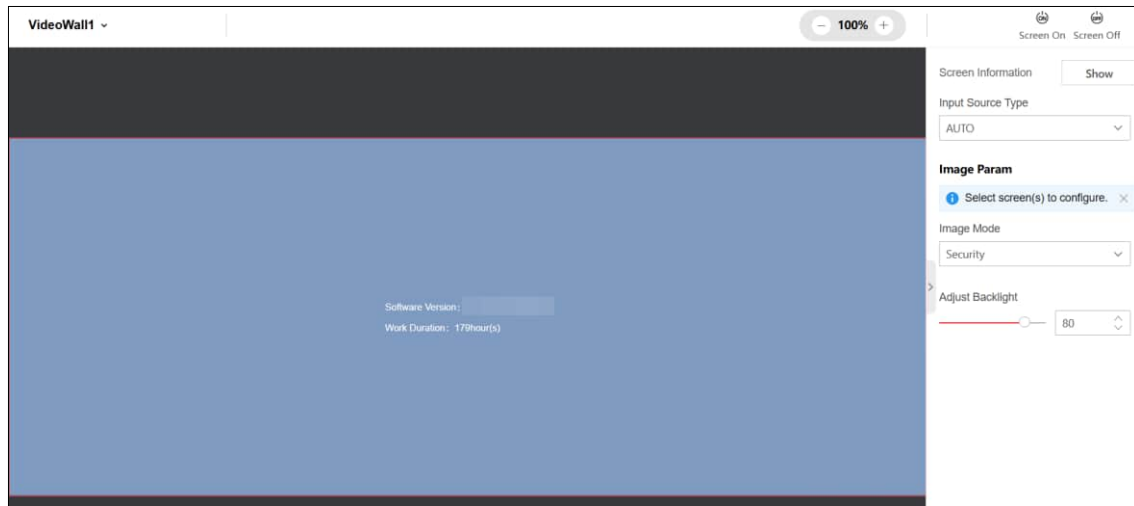


Figure 5-21 Screen Maintenance

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**.

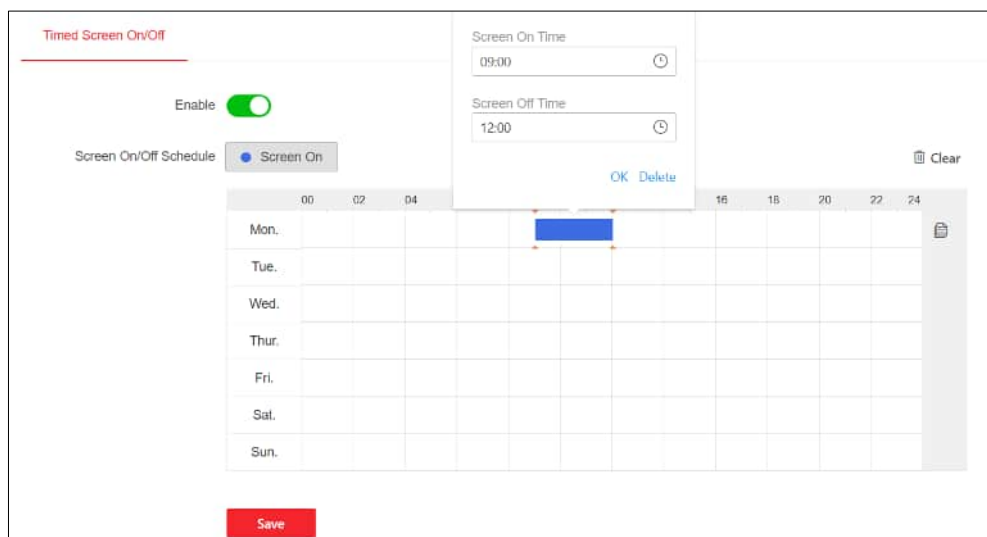


Figure 5-22 Configure Timed Screen On/Off Schedule

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.

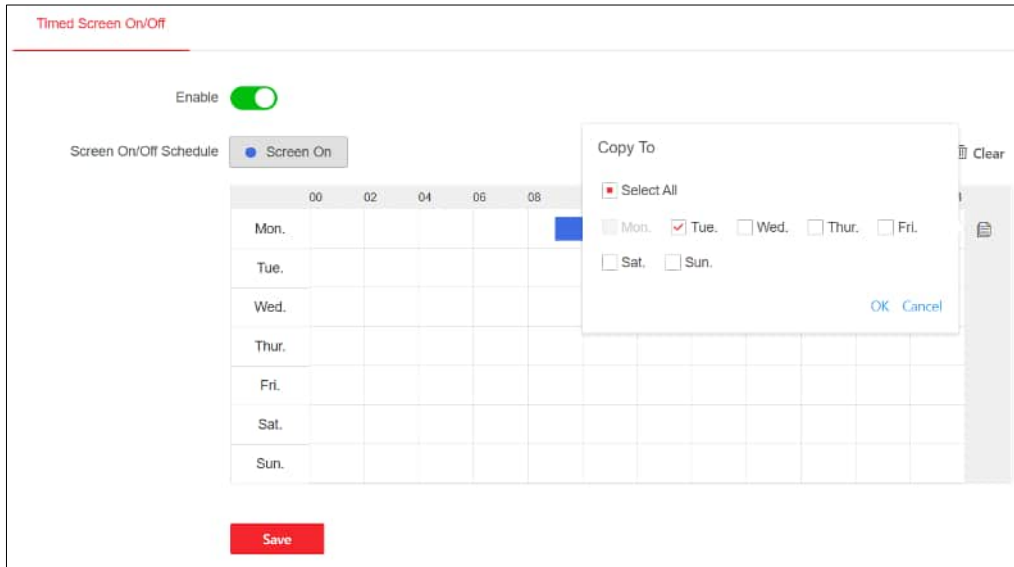


Figure 5-23 Copy the Screen On/Off Schedule

- 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.

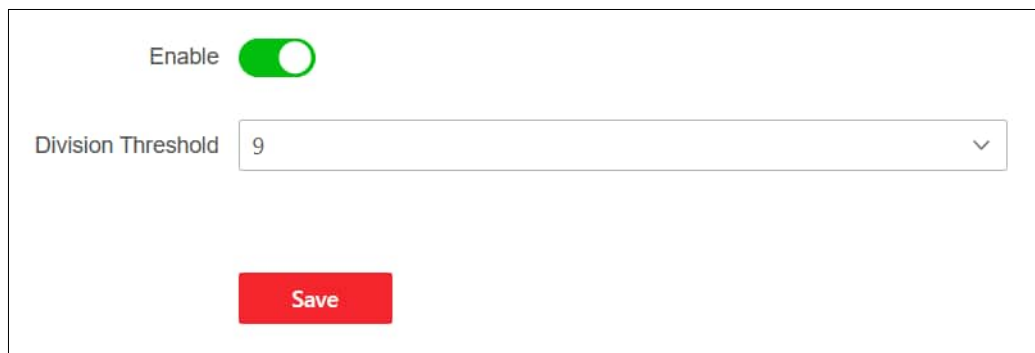
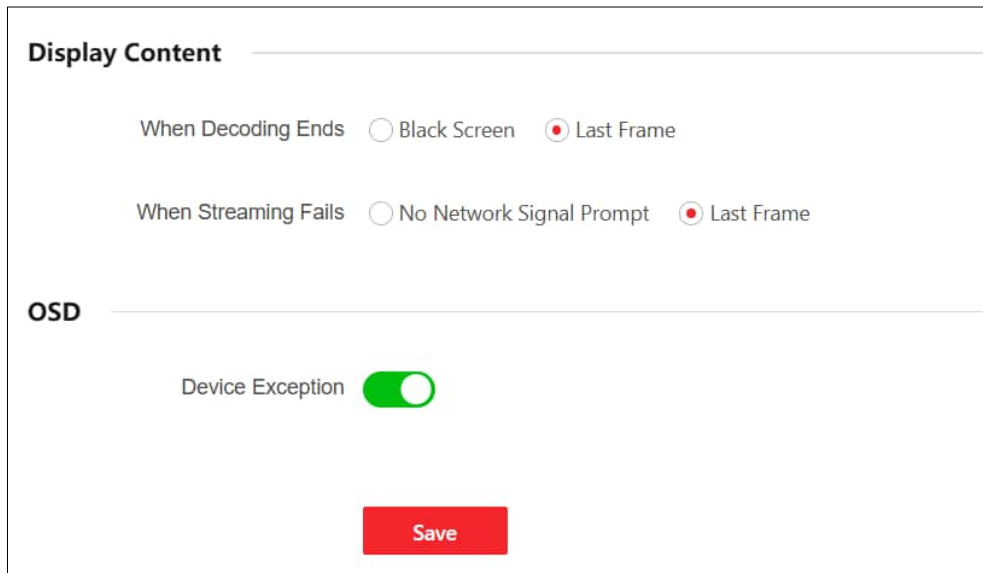


Figure 5-24 Set Sub-Stream Auto-Switch

- Click **Display Settings** to configure the content displayed when decoding ends, when streaming fails, and when the decoding resource is insufficient.

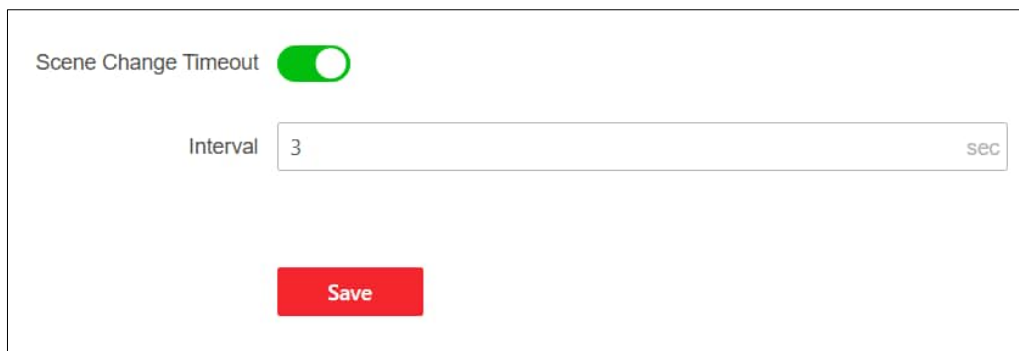
- If you select **No Network Signal Prompt**, a prompt will be displayed on the screen to indicate that there is no network signal.
- If you enable the **Device Exception**, an OSD will be displayed on the screen when device exception occurred.



The screenshot shows a settings window with 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). The 'OSD' section has a 'Device Exception' toggle switch that is turned on (green). At the bottom of the window is a red 'Save' button.

Figure 5-25 Set Display Content

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



The screenshot shows a settings window for 'Scene Change Timeout'. It features a toggle switch that is turned on (green). Below the toggle is an 'Interval' input field containing the number '3', with a 'sec' unit label to its right. At the bottom of the window is a red 'Save' button.

Figure 5-26 Set Scene Change Timeout Interval

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

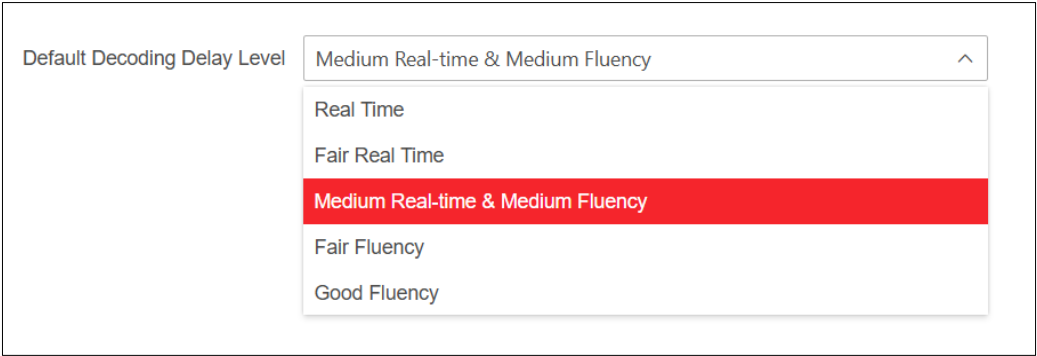


Figure 5-27 Set Decoding Delay Level

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.

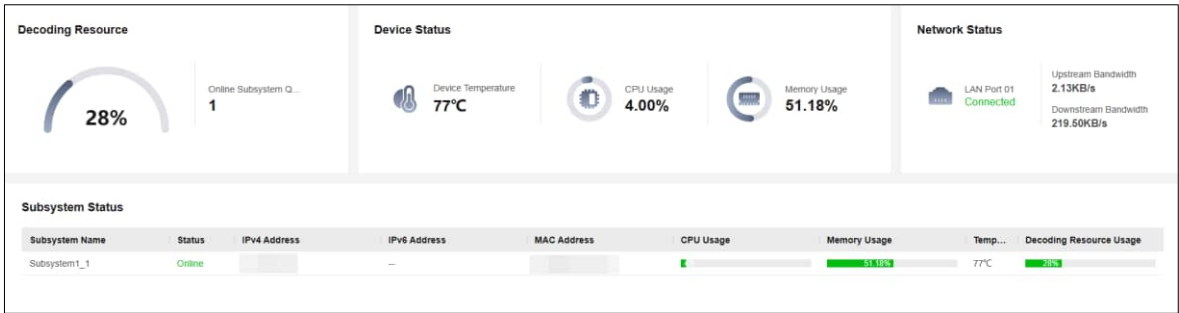


Figure 5-28 View Device Status

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.

The screenshot shows the 'Basic Information' tab selected. It contains several input fields for device details: Device Name (IoT Monitor), MAC Address, Model, Device Serial No., Device Version (with an Upgrade link), Decoder Version, and Web Version. A red Save button is at the bottom.

Field	Value
Device Name	IoT Monitor
MAC Address	[Redacted]
Model	[Redacted]
Device Serial No.	[Redacted]
Device Version	[Redacted] Upgrade
Decoder Version	[Redacted]
Web Version	[Redacted]

Figure 5-29 View Basic Information

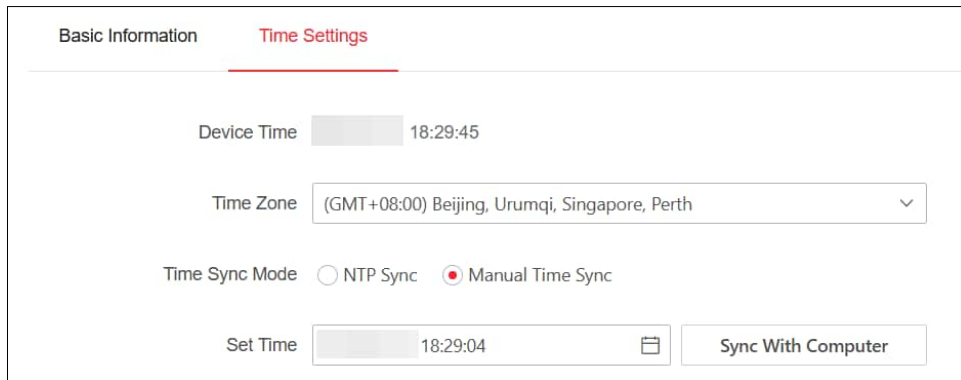
- Go to **System Settings** → **Time Settings**, if you select **NTP Sync**, the device clock synchronizes with the clock of the NTP server at the specified interval.
 - Set the address and port number of the NTP server.
 - Set the synchronization interval.

The screenshot shows the 'Time Settings' tab selected. It includes fields for Device Time (19:28:15), Time Zone (GMT+08:00 Beijing, Urumqi, Singapore, Perth), Time Sync Mode (NTP Sync selected), Server Address, NTP Port (123), and Interval (60 min).

Field	Value
Device Time	19:28:15
Time Zone	(GMT+08:00) Beijing, Urumqi, Singapore, Perth
Time Sync Mode	☒ NTP Sync ☐ Manual Time Sync
*Server Address	[Redacted]
*NTP Port	123
*Interval	60 min

Figure 5-30 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.



Basic Information **Time Settings**

Device Time 18:29:45

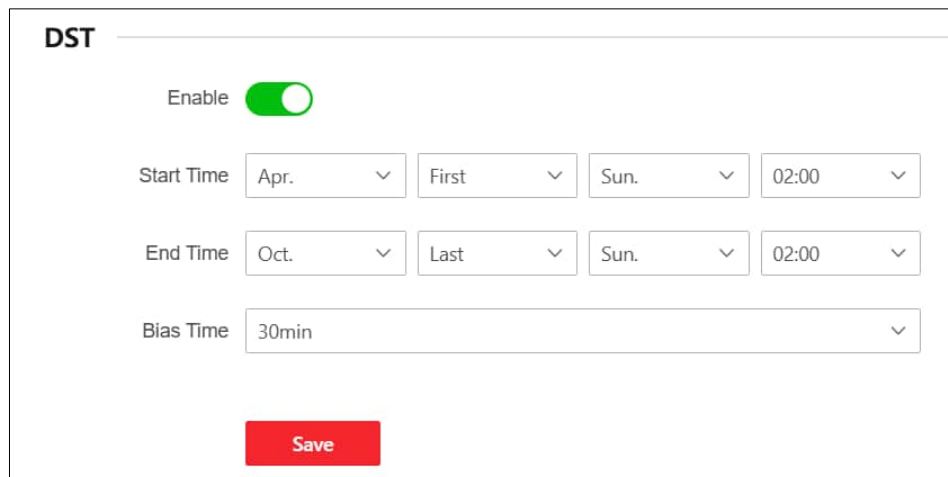
Time Zone (GMT+08:00) Beijing, Urumqi, Singapore, Perth

Time Sync Mode ☐ NTP Sync ☒ Manual Time Sync

Set Time 18:29:04

Figure 5-31 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.



DST

Enable ☒

Start Time Apr. First Sun. 02:00

End Time Oct. Last Sun. 02:00

Bias Time 30min

Figure 5-32 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.

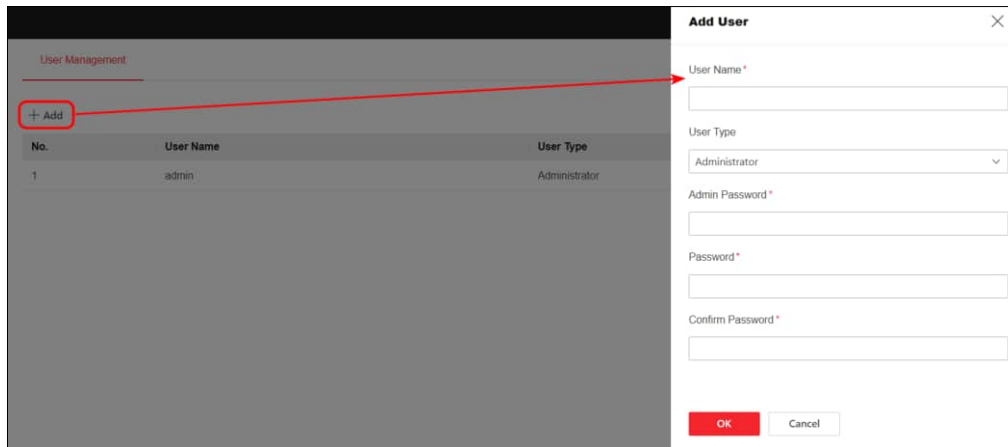


Figure 5-33 Manage Users

- 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 5-34 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 5-35 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 positioned at '0.0' with the label 'Below' to its left. The right handle is positioned at '90.0' with the label 'Above' to its right. Below the slider is a red 'Save' button.

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 Above

Temperature Alarm

Save

Figure 5-36 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 5-37 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.

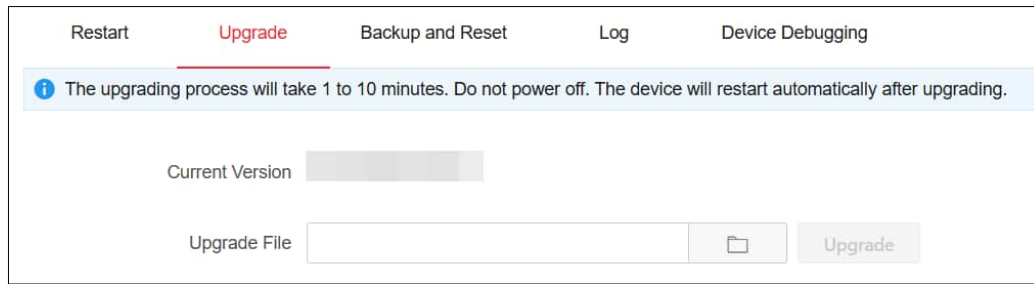


Figure 5-38 Upgrade the System

- 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.

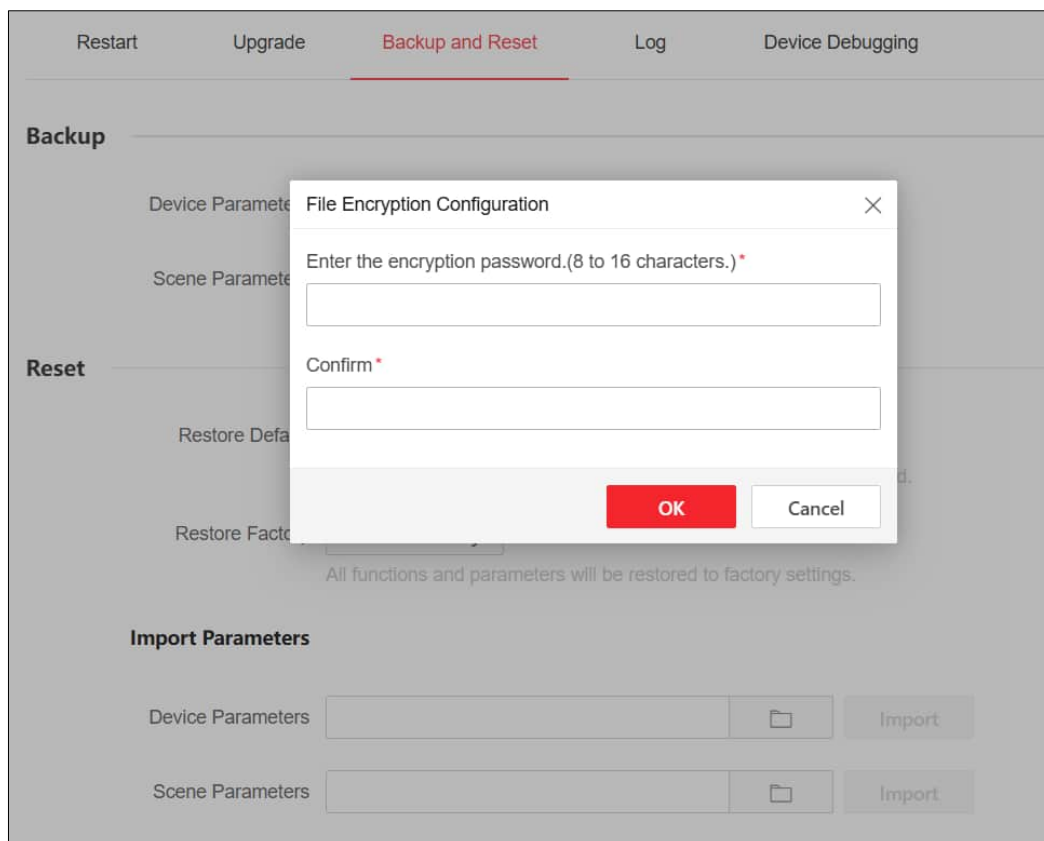


Figure 5-39 Backup Device Parameters

- 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.

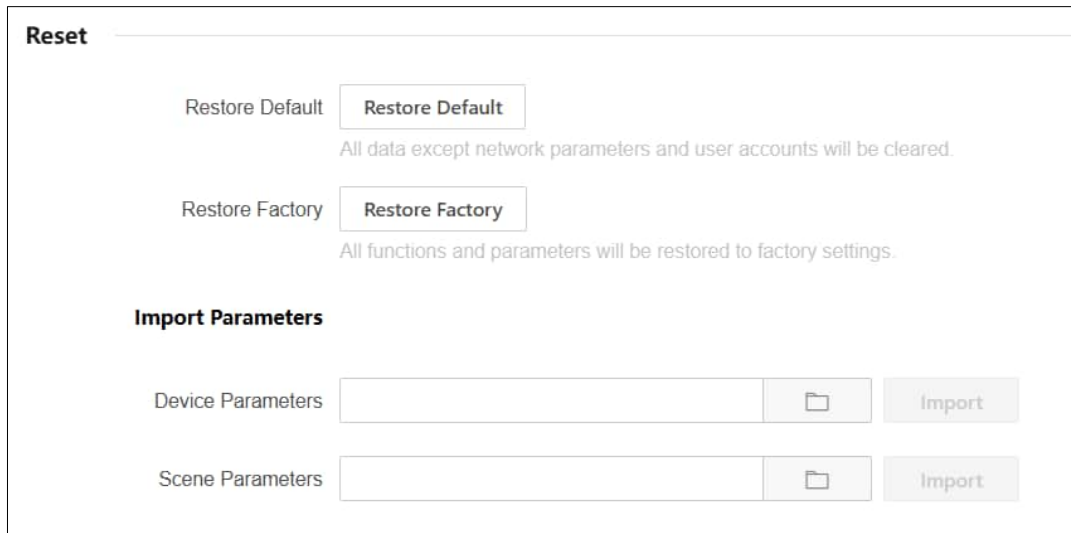


Figure 5-40 Reset the Device

- 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.

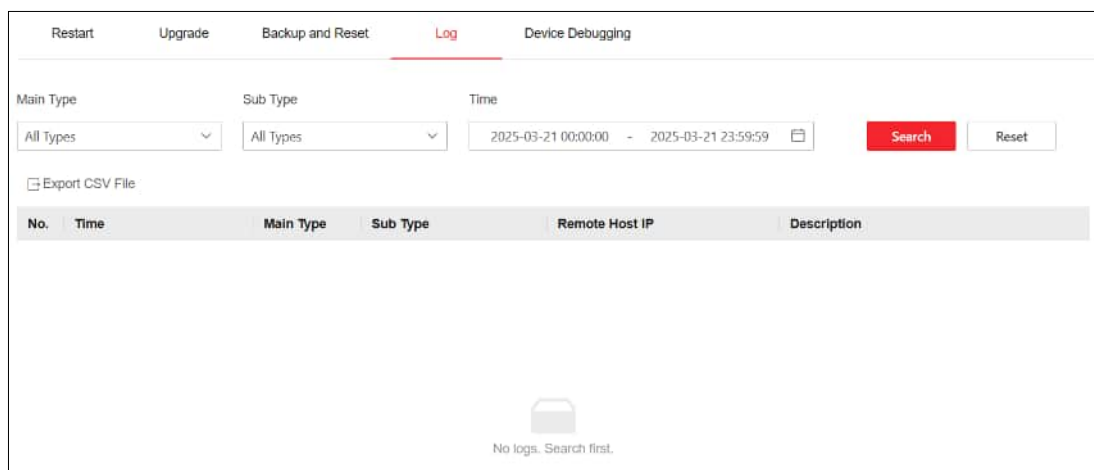


Figure 5-41 Search Logs

- 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, the 'SSH' section has an 'Enable' toggle switch that is turned on (green). Underneath, there is a field for '* Port No.' with the value '22' and a 'Save' button. The 'Export Debugging Log' section contains a 'Debug Log' label and an 'Export' button. The 'Export Network Switching Packet' section features a 'Subsystem' dropdown menu currently set to 'Board0_SubSys0' and a 'Start Capturing' button. Below this, a 'Packet Capture File' section shows a large grey area with a file icon and the text 'Please click Start Capturing.'

Figure 5-42 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.

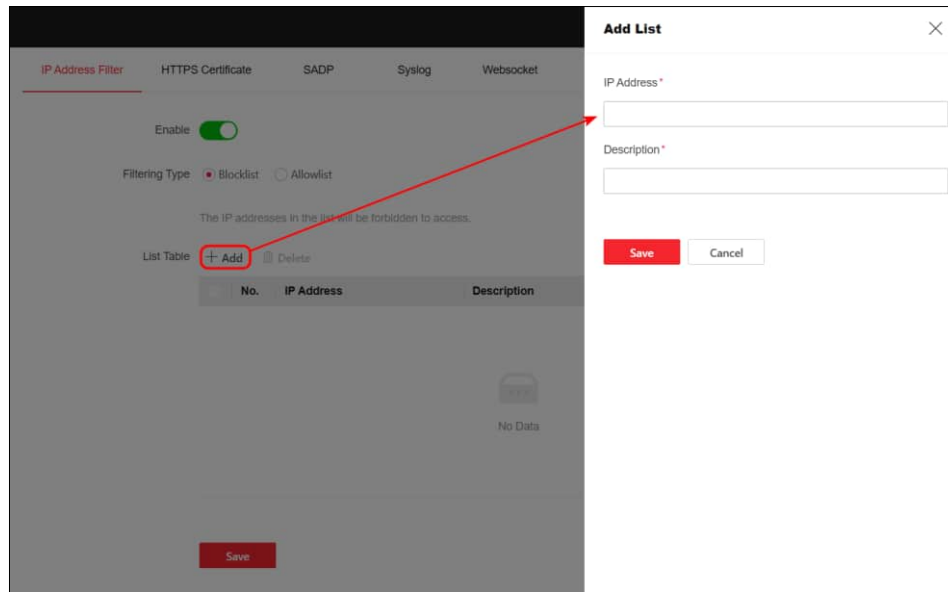


Figure 5-43 Configure IP Address Filter

- Import the locally saved HTTPS certificate and secret key.

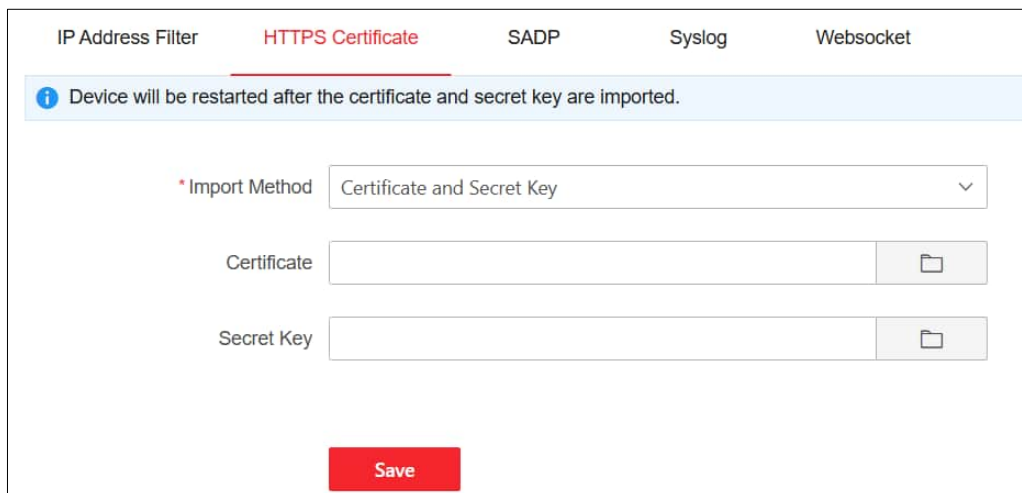


Figure 5-44 Import HTTPS Certificate and Secret Key

- 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 5-45 Enable Syslog

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



See Far, Go Further