

Network Camera

User Manual



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1. Overview

1.1. About the Camera

The network camera is an intelligent video surveillance device based on network transmission, integrating high-definition image capture, audio and video processing, intelligent analytics, and remote management. Users can configure the device, monitor its status, and manage functions through a web browser or client software, enabling efficient and convenient intelligent video applications.

1.1.1. Basic Function

Live View

- Supports real-time live view of surveillance video.
- Supports multiple resolutions and stream modes.
- Supports shortcut menu functions such as recording, snapshot, digital zoom, and two-way audio.
- Supports PTZ control protocols, including 3D positioning, one-click focus, presets, patrol, etc.

Playback

- Supports searching and filtering recorded playback files.
- Supports fast forward, slow motion, pause, and other playback operations.
- Supports recording schedules and automatic recording based on the configured schedule.
- Supports downloading files to local storage or uploading to cloud servers.

Storage

- Supports local storage, including viewing and formatting disk.
- Supports configuration of disk full strategy and storage schedules.

Smart Event

- Supports intelligent detection features such as face capture, license plate recognition, intrusion, tripwire, etc.

Alarm

- Supports setting alarm input/output arming schedules and one-click arm/disarm.
- Supports event notification methods including alarm output, Audio Linkage, Record, Email.

System Configuration

- Supports daylight saving time, NTP time synchronization, and manual time setting.
- Supports log recording, query, and export functions.
- Supports create new user and manage the permission.
- Supports online device upgrade, configuration file backup, factory reset, and related maintenance functions.

Network Configuration

- Supports deployment of network protocols such as TCP/IP, PPPoE, DHCP, DNS, DDNS, and SNMP.
- Supports multiple browsers, including IE11 and later versions, Edge, Firefox, and Chrome.
- Supports remote device operation via APP.

1.2. About the Manual

Thank you for using this product. Due to product version upgrades, the contents of this document may be updated from time to time. Please download the latest version of the document in a timely manner to ensure accurate operation. This User Manual is intended to ensure that users can correctly use the product and prevent losses caused by improper operation. The contents, information, and recommendations contained herein do not constitute any form of guarantee. Please read this manual carefully before use. If you have any questions, please contact your dealer at any time.

1.2.1. Document Conventions

- This document applies to multiple product models. The functions and interface styles may vary depending on different versions and models. This manual will introduce the product based on the version with the most complete set of functions whenever possible.
- Unless otherwise specified, the terms "IP device", "camera", and "IPC" mentioned in this document refer to "network camera" such as IP cameras (IPC) or IP dome cameras (IP DOME).

Format	Instruction	Example
""	Names of labels, menus, buttons, and UI elements.	"System Configuration"

>	Used for multi-level menu navigation.	"Main Menu > Live View"
Note:	Provides tips and additional information related to the operation and the products.	
Steps:	Steps required to complete an operation, presented in numerical order.	
Caution:	Alerts to matters that requires attention during operation to prevent unnecessary losses.	

1.3. Revision History

Version	Content	Date
V2.0.0	Added "Thermal" related function.	2026.03
V1.0.0	First Release	2026.01

2. Initialization

When using the device for the first time or after restoring it to factory settings, initialization is required before normal operation.

2.1. Start Up

Before accessing the web interface, please confirm the following:

- Please ensure the device is powered on or connected PoE.
- Please ensure the device is connected to the network and resides within the same segment as your computer.
- It is recommend using Chrome, Firefox, Edge, or IE11 and above to open the web page.

i Note:

- The interface styles may vary depending on different versions and models. Please configure the settings based on your actual device.

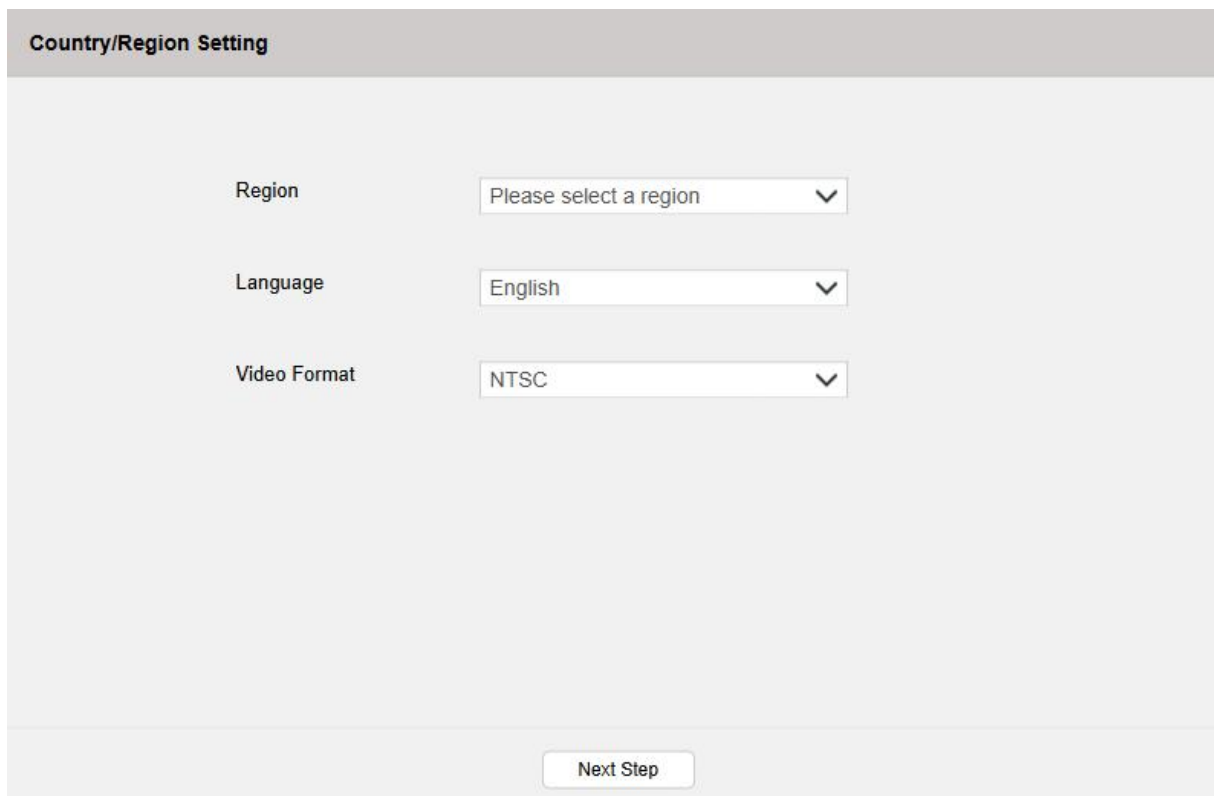
2.2. Initialization

Steps:

- 1) Open a web browser on your computer. Enter the device's IP address in the address bar. Then press the [Enter] key to access the web.
- 2) Set the region and language (Fig. 2-1). For later modification, please go to the "System > General > General". For details, refer to **7.8.1.1.General:**
 - Select country or region.
 - Select the system language from the "Language" dropdown menu.
 - Select video format, available options are NTSC or PAL.
 - Click "Next Step" to save the settings.
- 3) Configure the time zone (Fig. 2-2). For later modification, please go to the "System > General > Date&Time". For details, refer to **7.8.1.2.Date&Time:**
 - Set the date format.
 - Select the time zone from the "Time Zone" dropdown menu. The system time will synchronize and update based on the selected time zone.
 - The system time can be modified manually.
 - Click "Next Step" to save the settings.
- 4) Set the username and password (Fig. 2-3):
 - The default username for first-time registration is admin. To add additional users or groups, please go to "System > Account". For details, refer to

7.8.3.Account.

- Set Password and Confirm Password, password requirements: 8-16 characters, including at least two of the following: numbers, lowercase letters, uppercase letters, and special characters (` != ^ | ~ @ # \$ % * () _ + ? : " { } , . / ; ' [\] Space).
 - Click "Confirm" to save the settings.
- 5) Configure the password recovery method (Fig. 2-4):
- Set the security answer: Select 3 security questions and enter their answers. If you forget your password, you can reset it by answering these security questions.
 - Check "Recovery Email" and enter an email address. If you forget your password, you can reset it via email.
 - Click "Confirm" to save the settings.
- 6) After completing the initialization, the system will automatically redirect to the login page. You can then log in to the device using the configured username and password.



The image shows a web interface titled "Country/Region Setting". It contains three dropdown menus for configuration:

- Region:** A dropdown menu with the text "Please select a region" and a downward arrow.
- Language:** A dropdown menu with the text "English" and a downward arrow.
- Video Format:** A dropdown menu with the text "NTSC" and a downward arrow.

At the bottom of the form, there is a button labeled "Next Step".

Fig. 2-1

Time Zone Setting

Date Format

Time Zone

System Time

It will be modified as 2025-12-24 15:32:26

Fig. 2-2

Activation

Username

Password

8-16 characters, only numbers, lowercase letters, uppercase letters, special characters (^ & <> ! = ~ ^ - @ # \$ % ^ * () _ + ? : " ' , . ; [] space) allowed 2 and above combinations

Confirm Pass...

Fig. 2-3

Activation

Security Question Configuration

Security Question 1

Answer

Security Question 2

Answer

Security Question 3

Answer

Recovery Email

E-mail Address

Fig. 2-4

3. Login

The product supports remote access to devices via WEB, enabling online preview, playback, alarm settings, intelligent search, system configuration, and other operations.

Once the device is connected to the network, enter its IP address in your PC browser's address bar to access it remotely.

3.1. Login

3.1.1. Plug-in Installation

When logging into the web interface for the first time, you will be prompted to install a plug-in to ensure full functionality. Please follow the on-screen instructions to complete the installation, restart your browser, and then revisit the page.

There are three methods to download the plugin on the web interface:

- (1) Download the plugin from the login page following the on-screen prompts.
- (2) After logging in, click "Download Plugin" in the system menu bar at the top right corner of the page (Fig. 3-1).

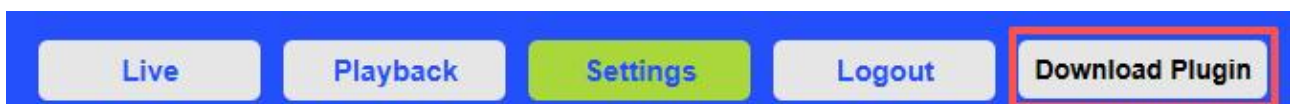


Fig. 3-1

- (3) After clicking "Settings > Information > Version," click "Please click here to download the plug-in." For details, refer to **7.9.1.Version**.

The following content only introduces the steps for installing the plugin during the first login to the web interface.

Steps:

- 1) Open a web browser on your computer. Enter the device's IP address in the address bar. Then press the [Enter] key to access the web.
- 2) Follow the prompts (Fig. 3-2) and click "OK" to download the plug-in.

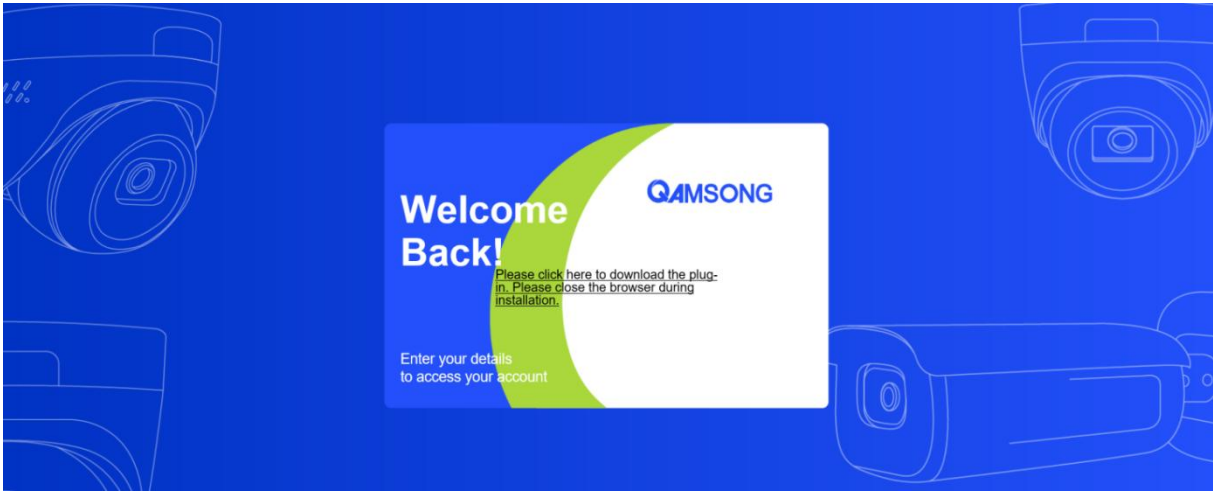


Fig. 3-2

- 3) Follow the prompts (Fig. 3-3) to complete the plugin installation, then close the wizard.

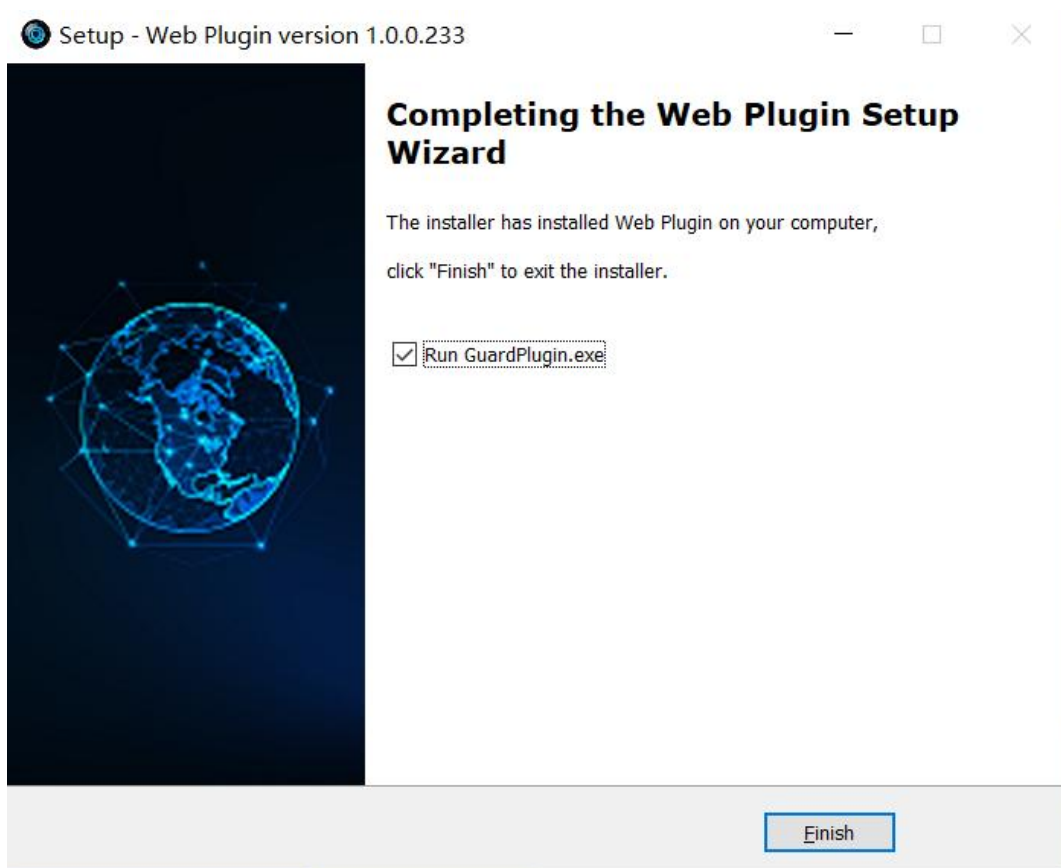


Fig. 3-3

- 4) Restart the browser, enter the IP address, and proceed with normal login.

(i) Note:

- Plugin versions may be updated periodically and may differ from the

information shown in the screenshots. Please download and install the corresponding plugin version as prompted on the page.

- If certain web interface functions remain inaccessible due to the plugin, try reinstalling the plugin and restarting your browser. Also verify that your network connection is functioning properly.

3.1.2. Login

Steps:

- 1) Enter username and password. Should match the credentials you set during device activation.
- 2) Click "Login" to log in. After a successful login, you will enter the Live View page.

Note:

- If you enter an incorrect password five times consecutively, the system will lock for 30 minutes.
- If you forget your password, click "Forgot Password?" on the login screen. Enter the email address or security question to reset it.

3.2. Forgot Password

Steps:

- 1) If you forget your password, click "Forgot password?" on the login page to access the verification page.
- 2) Select Reset Method: choose either security question verification or email verification. Enter the security answer or email address you set during device activation, then click "Next Step" to proceed to the password reset page.
- 3) Reset your password and confirm password. Password requirements: 8-16 characters, including at least two of the following: numbers, lowercase letters, uppercase letters, and special characters (^!:=^|~@#\$\$%*()_+?:"{}.,/;'[\]Space).
- 4) After resetting your password, jump to the login page to log in again.

3.3. Logout

Steps:

- 1) On the device's main interface, click “Logout” in the top-right corner to logout.

4. Live View

On the Live View page (Fig. 4-1), you can remotely view real-time monitoring scene from the device and perform basic operations such as PTZ control, snapshot, recording, and E-zoom.

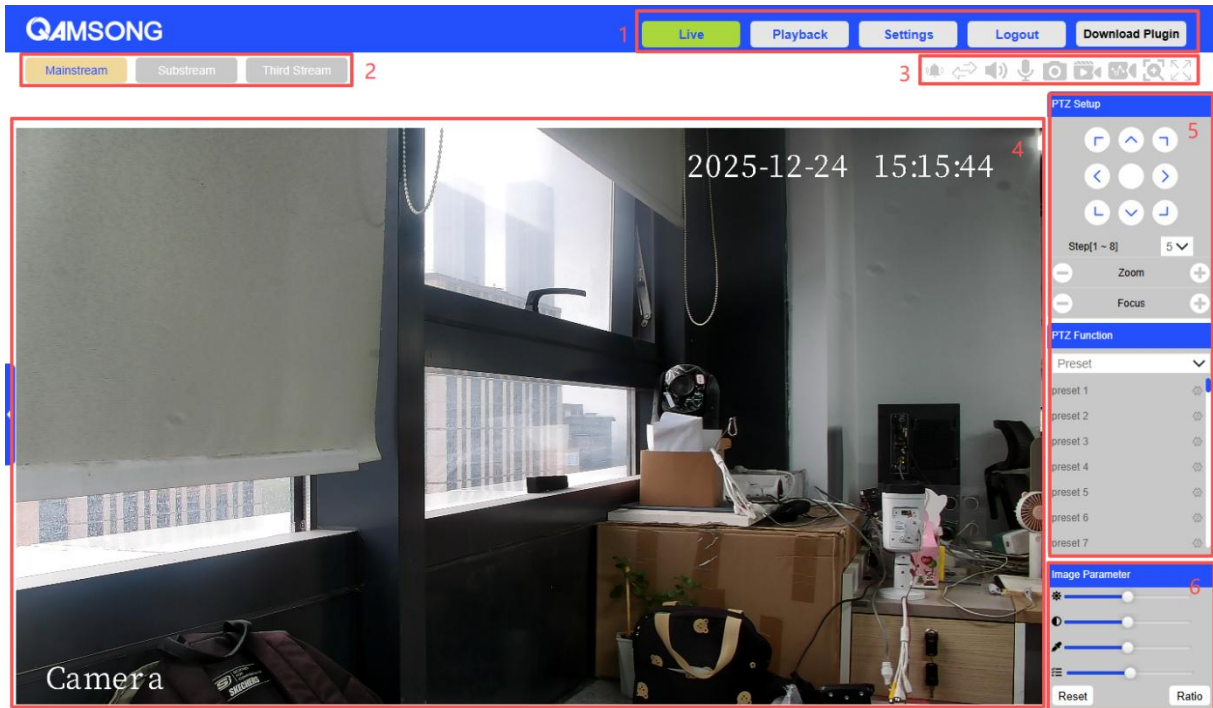


Fig. 4-1

No.	Name	Instruction
1	System Menu	Click the button to access corresponding function page.
2	Stream Configuration	Set up the stream type.
3	Preview Toolbar	Manage the preview through the toolbar.
4	Preview Window	View live monitoring video.
5	PTZ/Zoom Camera Configuration	<ul style="list-style-type: none"> Remotely adjust camera parameters such as angle, focus, and aperture. Set Preset, Patrol, Automatic Scanning, Mode Path, etc.
6	Image Parameter	Drag to adjust the parameters of Brightness, Contrast, Saturation, and Sharpness for the preview

		<p>image.</p> <p>Note: This setting only adjusts the preview effect and does not change the actual image parameters of the device.</p>
--	--	---

4.1. Start Preview

4.1.1. Stream Configuration









Set the preview stream type in the upper-left corner of the preview window:











- Mainstream: Highest resolution and best image quality, typically used for preview and storage.
- Substream: Lower resolution, smaller bit rate, and reduced bandwidth usage. Substream can be used for access when network bandwidth is insufficient.
- Third Stream: Intermediate between Mainstream and Substream, featuring a smaller bit rate and lower bandwidth consumption. Use as needed for specific requirements.

Note:

- Some devices may not support Third Stream. Please configure based on the actual device conditions.

4.1.2. Toolbar Instruction

Icon	Function Name	Instruction
	Alarm Sound	Click to enable/disable alarm sound.
	Alarm Out	Click to enable/disable alarm output.
	Audio	<ul style="list-style-type: none"> • Click  to enable audio. • Click  to disable audio.
	Talk	<ul style="list-style-type: none"> • Click to  activate two-way intercom between computer and device. • Click  to end intercom.

	Snapshot	Click to take a snapshot. You can find the picture on your local computer.
	Local Record	<ul style="list-style-type: none"> Click  to start local recording. Click  to stop recording. You can find the video on your local computer.
	Rule Info	Click to display rule information and target frame; click again to hide.
	Partial Enlargement	<ul style="list-style-type: none"> Click  to select the area you want to enlarge for zooming in. Click  to return to original size.
	Full Screen	Click to enter full-screen preview mode; press "Esc" to exit full-screen.
	Alarm Light	Click to enable the alarm light. When an alarm linkage event is triggered, the device's alarm light will flash. Click again to disable the alarm light flashing.


4.2. AI Panel

View real-time intelligent capture data here, including face, vehicle, non-motor vehicle, license plate, etc. Supports filtering by target type.

Note:

- Different models support varying types of intelligent functions, and the target types displayed in the AI Panel may differ accordingly. Please filter and view based on your device's actual capabilities.

Steps:

- 1) Click the  on the left side of the preview window to open the sidebar (Fig. 4-2).
- 2) Select the target types to display. You may choose one or multiple target types.
- 3) When the device detects a target, it will display the captured image and related attribute information in the AI Panel.

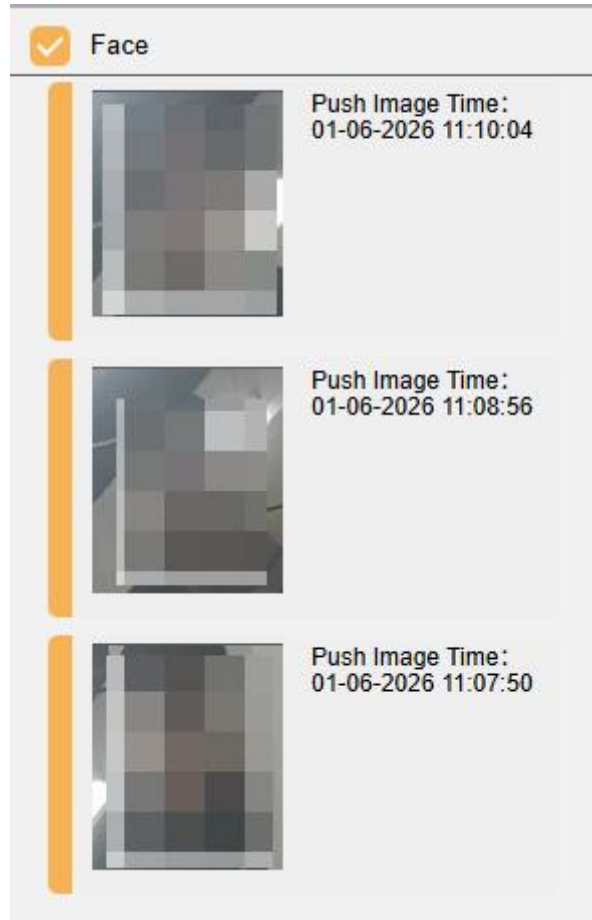
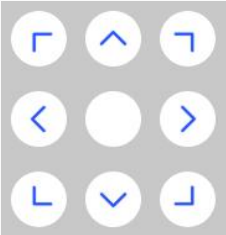


Fig. 4-2

4.3. PTZ

Through PTZ control, you can remotely adjust the camera's lens, angle, and aperture, as well as configure presets and patrols for efficient monitoring of designated areas.

4.3.1. Function Instruction

Icon	Function Name	Instruction
	Direction	Click or long-press the keys to control the camera's direction. The control panel supports rotation in eight directions.
Step[1 ~ 8] <input type="text" value="5"/>	Step	Control the PTZ speed, ranging from 1 to 8. Higher numbers indicate greater rotation speed.

	Zoom	Click to zoom in/out.
	Focus -	Click to adjust focus backward/forward.

4.3.2. Preset

By configuring presets, you can quickly direct the camera to a designated position.

Note:

- Each device can support up to 300 preset positions.

Steps:

- 1) In the PTZ Function menu, select "Preset" (Fig. 4-3).

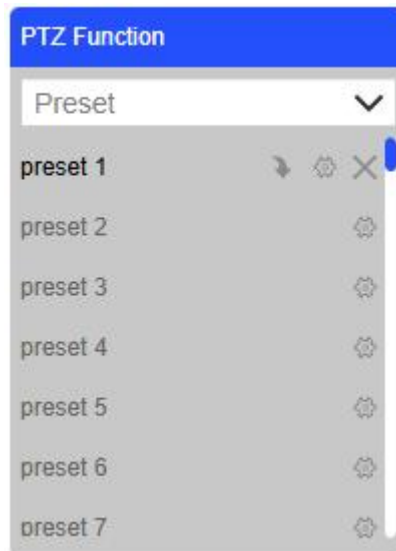





Fig. 4-3

- 2) Use the directional control buttons to adjust the camera lens to the desired position.
- 3) Click  to set a preset position
- 4) Select a preset and click , the camera will move to the corresponding preset position.
- 5) Click  to delete the original settings of the selected preset.

4.3.3. Patrol

You can set a Patrol to make the device patrol between several preset positions.

Note:

- Please set preset positions in advance on the "Preset" page to ensure the cruise task can be configured smoothly.

Steps:

1) In the PTZ Function menu, select "Patrol" (Fig. 4-4).

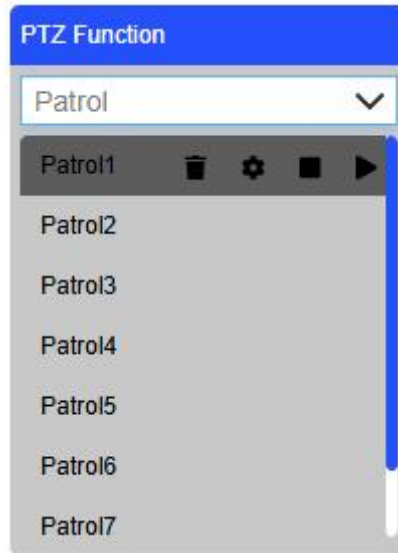



Fig. 4-4

2) Click  to enter the settings page (Fig. 4-5).

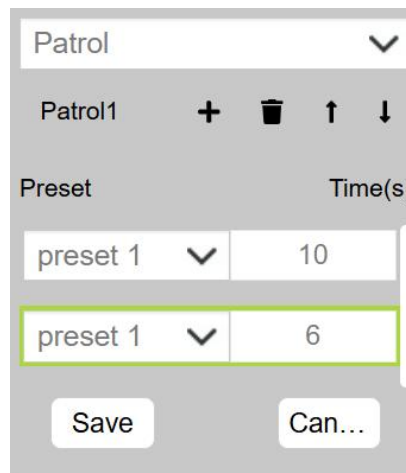









Fig. 4-5

- 3) Click  to add a cruise point and configure the settings.
- Select a preset from the drop-down list under the "Preset" column.
 - Set the stay time, ranging from 3 to 120 seconds.
 - Select the target row and click  to delete the selected row.

- Select the target row and click  to move the row up one position; click  to move the row down one position.
- 4) Click "Save" to save settings.
 - 5) Perform patrol operations:
 - Click  to start patrol.
 - Click  to stop patrol.
 - Click  to delete the selected patrol route.

4.3.4. Automatic Scanning

When the function is enabled, the PTZ can perform automatic scanning according to the configured mode:

- Single-Point Scan: After a scan point is configured, the PTZ continuously performs horizontal rotation scanning around the selected point.
- Two-Point Scan: After the start point and end point are configured, the PTZ performs continuous horizontal back-and-forth scanning between the two preset points.

 **Note:**

- Please set preset positions in advance on the "Preset" page to ensure the task can be configured smoothly.

Steps:






- 1) In the PTZ Function menu, select "Automatic Scanning" (Fig. 4-6).
- 2) Click  to enter the settings page
- 3) Click  to add preset point, and set the scan speed. The available range is 1-8.
- 4) Click "Save" to complete the configuration.
- 5) Click  to start automatic scanning.
- 6) Click  to stop automatic scanning.
- 7) Click  to delete the selected automatic scanning route.



Fig. 4-6

4.3.5. Mode Path

Records and repeats the PTZ's manual operation path.

Steps:

- 1) In the PTZ Function menu, select "Mode Path" (Fig. 4-7).

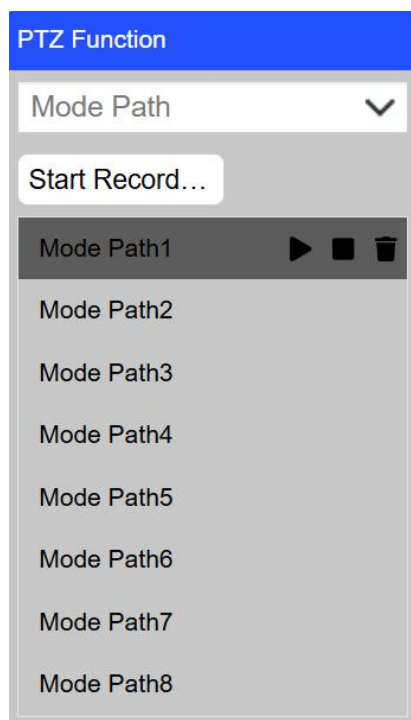





Fig. 4-7

- 2) Click the path name to be configured, and then click "Start Recording".
- 3) According to actual requirements, operate the PTZ by adjusting pan/tilt directions, focusing, and other actions.
- 4) Click "Stop Recording" to complete the mode path setup.
- 5) After configuration, the mode path can be operated as follows:

- Click  to start mode path.
- Click  to stop mode path.
- Click  to delete the selected mode path.

4.3.6. Other

Steps:

- 1) In the PTZ Function menu, select "Other".
- 2) Use the following PTZ functions according to your requirements:

Function	Instruction
Aux Focus	Click to perform automatic focus.
3D Positioning	Click to automatically adjust the PTZ position and zoom based on the point or area selected by the user.
Calibration	Click to recalibrate the pan/tilt direction and positioning accuracy of the PTZ.
PTZ Reset	Click to restore the PTZ to its initial state and default position.

4.4. Thermal Image Preview

Note:

- This function is only applicable to certain thermal devices. Please refer to the actual interface for availability.

4.4.1. Thermal Real-time Spot Temperature Measurement

Supports viewing the real-time temperature at any position in the thermal imaging channel.

Steps:

- 1) In the Live View interface, move the mouse cursor and click any position on

the thermal image (Fig. 4-8). The real-time temperature of that point will be displayed on the screen.

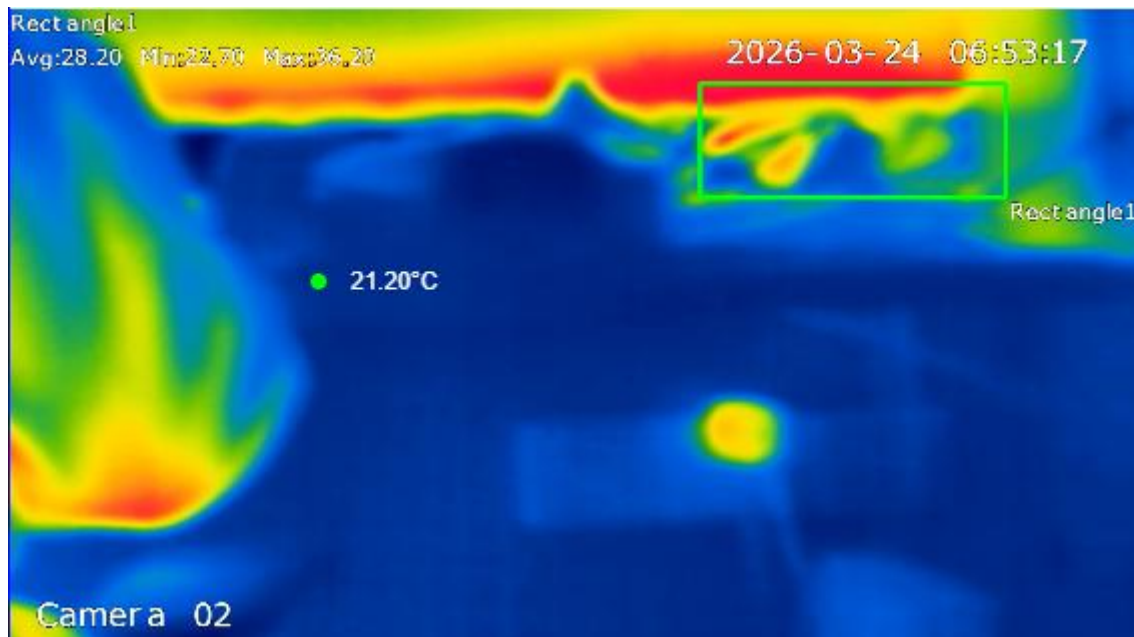


Fig. 4-8

4.4.2. Thermal Real-time Report

You can view the temperature variation of the selected area from the current time onward.

Note:

- This function requires temperature measurement rules to be configured in advance. For details, see **7.4.1 Rule Temperature Detection**.

Steps:

- 1) In the Live View interface, click "Real-time Report" at the bottom to open the report window(Fig. 4-9).
- 2) Select "All" or a specific rule to view the average temperature variation of that area.
- 3) Set the "Time period". The system will report temperature data based on the configured interval (unit: minutes).

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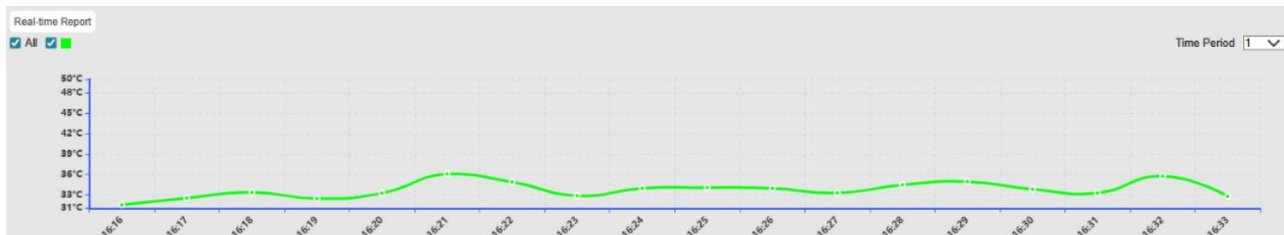


Fig. 4-9

5. Playback

Users can view recorded video files and images stored on the device's memory card within the playback interface. Supports file search, playback, and download records.

Note:

- Please set up your video and image storage schedule in advance under "Settings > Storage > Schedule". For details, refer to **7.6.1.Schedule**.
- Please ensure the disk is inserted into the device.
- Intelligent playback require device support.

Steps:

- 1) Click "Playback" in the system menu bar to enter the playback interface (Fig. 5-1).

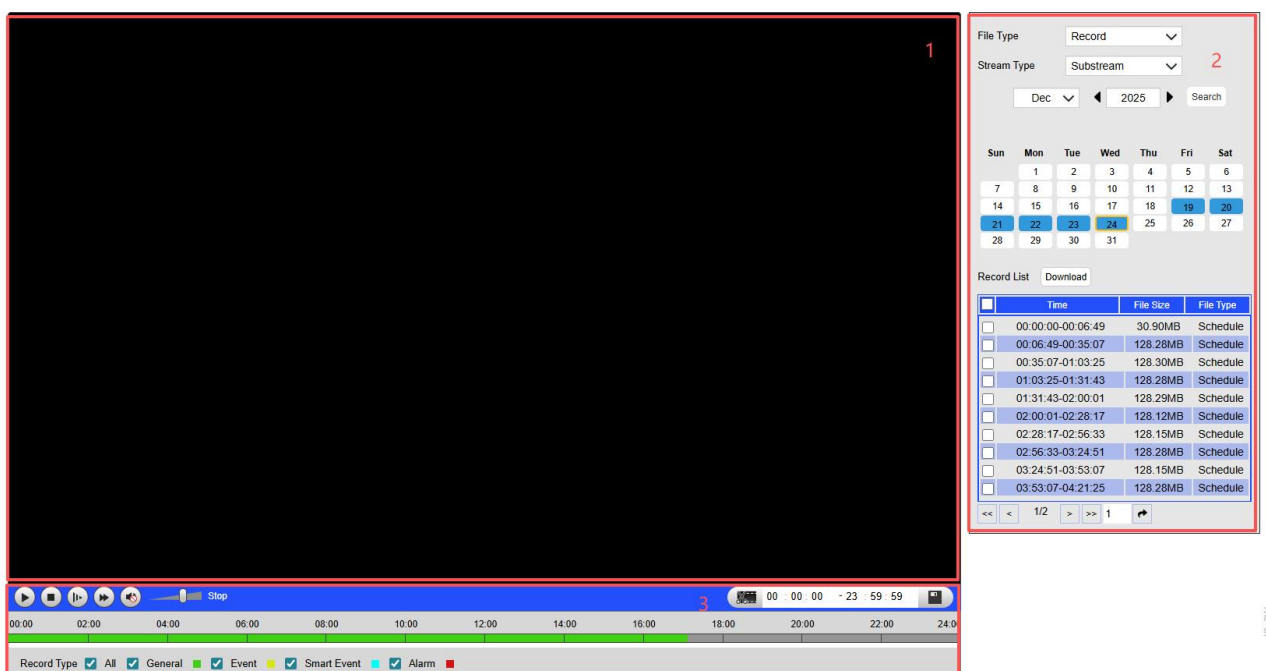


Fig. 5-1

No.	Name	Instruction
1	Playback Window	View playback videos or images here.
2	Search Box	You can search for recordings or images on devices based on record type, stream type, and time.
3	Playback Control Toolbar	Manage and control the playback progress of videos and images.

5.1. Search

Steps:

- 1) In the Search Box (Fig. 5-2), select File Type, Stream Type, and date, then click "Search" to begin retrieval.
- 2) You can view the dates when recordings were made on the calendar. Dates with playback files are highlighted in deep color.

The screenshot shows a search interface with the following elements:

- File Type:** Record
- Stream Type:** Substream
- Month:** Dec
- Year:** 2025
- Search Button:** Search
- Calendar:** A calendar for December 2025. Dates 19, 20, 21, 22, and 23 are highlighted in dark blue, indicating recordings. Date 24 is highlighted in yellow.
- Record List:** A table with columns for Time, File Size, and File Type. A Download button is present.
- Table Data:**


	Time	File Size	File Type
<input type="checkbox"/>	00:00:00-00:06:49	30.90MB	Schedule
<input type="checkbox"/>	00:06:49-00:35:07	128.28MB	Schedule
<input type="checkbox"/>	00:35:07-01:03:25	128.30MB	Schedule
<input type="checkbox"/>	01:03:25-01:31:43	128.28MB	Schedule
<input type="checkbox"/>	01:31:43-02:00:01	128.29MB	Schedule
<input type="checkbox"/>	02:00:01-02:28:17	128.12MB	Schedule
<input type="checkbox"/>	02:28:17-02:56:33	128.15MB	Schedule
<input type="checkbox"/>	02:56:33-03:24:51	128.28MB	Schedule
<input type="checkbox"/>	03:24:51-03:53:07	128.15MB	Schedule
<input type="checkbox"/>	03:53:07-04:21:25	128.28MB	Schedule
- Page Navigation:** << < 1/2 > >> 1 ↻

Fig. 5-2

5.2. View Playback

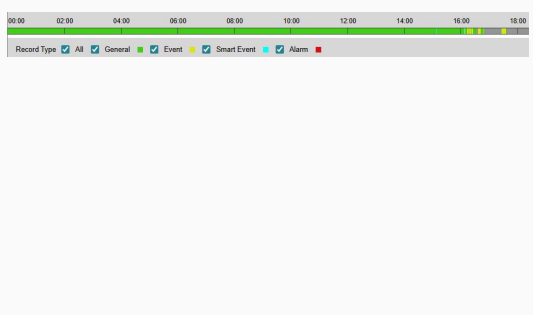






Steps:

- 1) Select the date containing recordings to view the full day's recording time frame on the timeline. Different colors on the timeline represent different recording types.

- Click  to start playback from the earliest recording of the day; or click a specific time on the timeline to start playback.

5.2.1. Playback Toolbar


When playing a video or image, you can control playback using the buttons in the toolbar:


Icon	Function Name	Description
	Timeline	<ul style="list-style-type: none"> Double-click a specific time on the timeline to jump to that point for playback. Different colors represent different recording types.
	Play	Click to start video playback.
	Pause	Click to pause video playback.
	Stop	Click to stop video playback.
	Slow	Playback speed decreases.
	Fast	Playback speed increases.
	Volume	Use the drop-down to adjust volume.

5.3. Download Files


5.3.1. Clip

Steps:

- Click to select the date containing the video file.
- Click a time point on the timeline to select the start time for the video clip.
Then click  to set the start time (Fig. 5-3).

- Click the time on the timeline again to select the end time, then click 

to set the end time.

- 4) Click  to download the edited file to your local device.

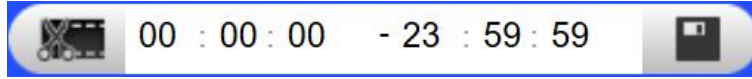


Fig. 5-3

5.3.2. Download

Steps:

- 1) In the Record List (Fig. 5-4), check the files you wish to download.
- 2) Click "Download" to download the selected files to your local computer.

Record List		Download	
<input type="checkbox"/>	Time	File Size	File Type
<input type="checkbox"/>	00:00:00-00:06:49	30.90MB	Schedule
<input type="checkbox"/>	00:06:49-00:35:07	128.28MB	Schedule
<input type="checkbox"/>	00:35:07-01:03:25	128.30MB	Schedule
<input type="checkbox"/>	01:03:25-01:31:43	128.28MB	Schedule
<input type="checkbox"/>	01:31:43-02:00:01	128.29MB	Schedule
<input type="checkbox"/>	02:00:01-02:28:17	128.12MB	Schedule
<input type="checkbox"/>	02:28:17-02:56:33	128.15MB	Schedule
<input type="checkbox"/>	02:56:33-03:24:51	128.28MB	Schedule
<input type="checkbox"/>	03:24:51-03:53:07	128.15MB	Schedule
<input type="checkbox"/>	03:53:07-04:21:25	128.28MB	Schedule


<< < 1/2 > >> 1 

Fig. 5-4

6. Report

You can view historical temperature data on this page (Fig. 6-1).

Note:

- This function is only applicable to certain thermal devices. Please refer to the actual interface for availability.
- This function requires temperature measurement rules to be configured in advance. For details, see **7.4.1 Rule Temperature Detection**.
- Historical temperature data is stored on the SD card. Please ensure that an SD card is inserted in the device.

Steps:

- 1) Click "Report" in the system menu bar to enter the page.
- 2) Set the start time, end time, time interval, and the rule type, then click "Search" to query results.
- 3) The diagram on the right will display historical temperature data based on the selected criteria.

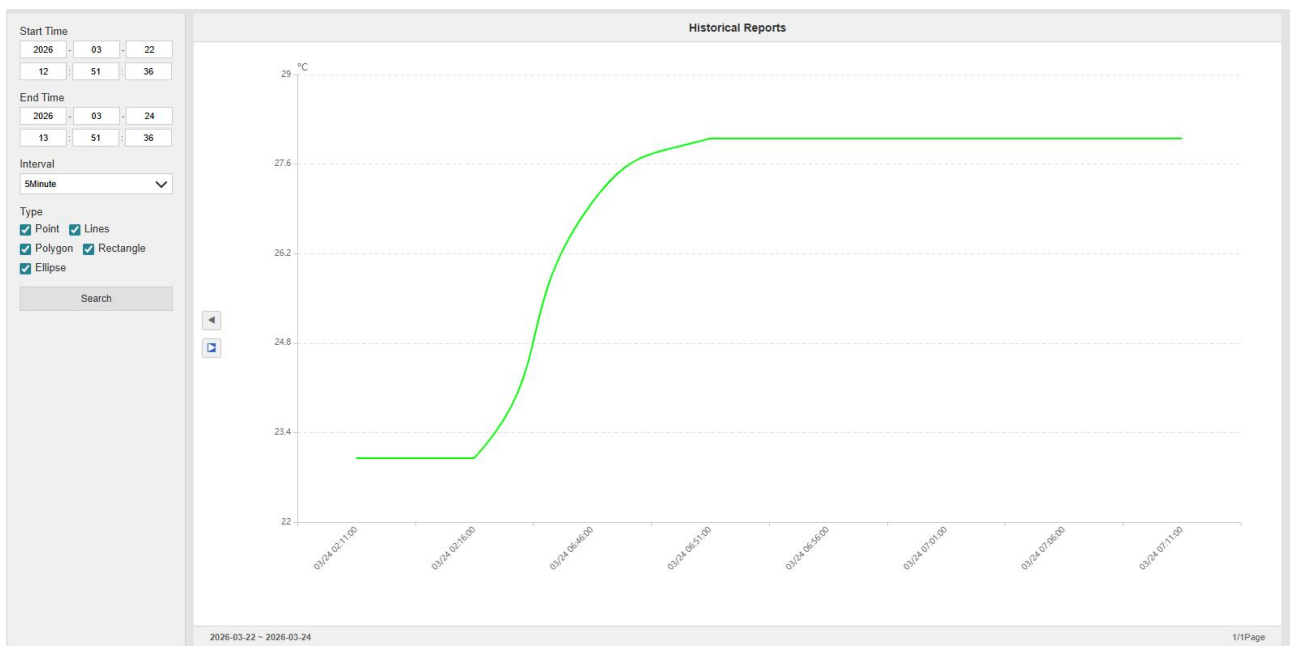


Fig. 6-1

7. System Configuration

Users can configure and manage device parameters on this page, including device, network, storage, user management, etc., to ensure stable operation of the camera.

Steps:

- 1) Click "Settings" in the system menu bar to enter the system configuration interface (Fig. 7-1).

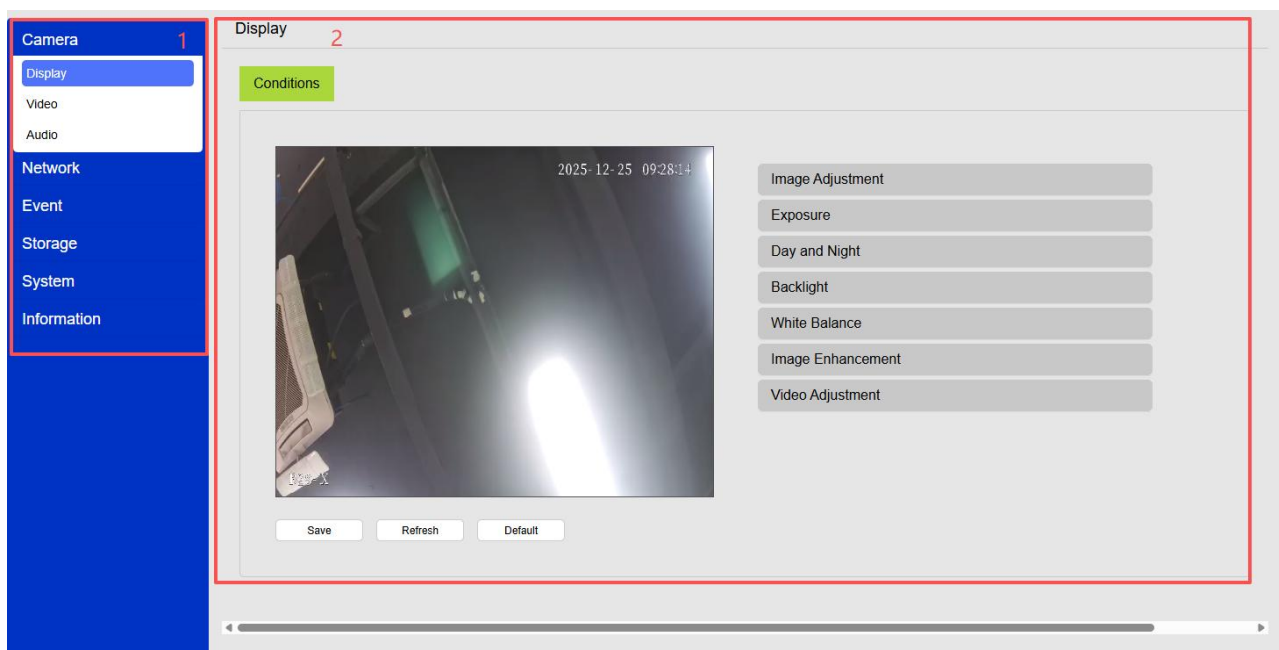


Fig. 7-1

No.	Name	Instruction
1	Configuration List	<p>Select the desired configuration types for setup, including Camera, Network, Event, Storage, PTZ Management, System, and Information.</p> <p>Note: The configuration list may vary depending on the capability of each device. Please configure the settings according to the actual devices.</p>
2	Configuration Page	Set up the corresponding parameters here.

7.1. Camera

Configure the display, video, and audio parameters for the camera.

7.1.1. Display

Set the device image parameters to suit different operating conditions.

7.1.1.1. Parameter Instruction

Steps:

- 1) On the configuration page, click "Camera > Display" to enter the settings page.
- 2) Adjustable parameters include Image Adjust, Exposure, White Balance, Backlight, Day/Night, Video Adjustment, Image Enhancement, Focus:

Category	Name	Instruction
Mode	\	<p>Supports three modes: Automatic, Day and Night, and Custom:</p> <ul style="list-style-type: none"> • Automatic: The system automatically adjusts image parameters based on different environments. • Day and Night: Allows separate configuration of image parameters for daytime and nighttime scenes. • Custom: Users can set time schedules based on months. For details, see: <u>7.1.1.2.Configure Time Plan.</u>
Profile	\	<ul style="list-style-type: none"> • Image scenes include Day, Night, Backlight, Nightfall and Custom. You can select the scene according to actual requirements. Each image scene has its own configured image parameters. • Users can also manually adjust the configuration parameters for each scene. Once saved, scenes can be switched with one click according to environmental changes.
Image Adjustment	Brightness	Adjust the overall brightness of the image.
	Contrast	Control the contrast between bright and dark

		areas.
	Saturation	Adjust the color saturation of the image.
	Sharpness	Enhance or reduce the sharpness of image edges.
Exposure	Mode	Set the method for adjusting brightness according to ambient light: Auto, Manual, Shutter Priority, Gain Priority Mode.
	Anti-Flicker	Options: Off, 50Hz, 60Hz, to reduce flicker caused by specific power frequencies.
Focus	Focus Mode	Choose the lens focus mode: Auto, Semi-Auto, or Manual.
	Minimum Focusing Distance	Set the minimum focusing distance of the lens.
Day and Night	Mode	Automatically or manually switch between color and black-and-white modes based on lighting or time.
	Filtering Time	Set the required duration for conditions to be met before mode switching occurs.
	Sensitivity	Set the sensitivity for mode switching under low-light changes.
	Fill Light Mode	Select light source type: Infrared Fill Light, White Light Filling, Smart Light.
	Exposure Compensation	Reduce overexposure in excessively bright areas when enabled.
Backlight	BLC	Improve visibility of subjects in backlit conditions.
	HLC	Reduce glare caused by strong light sources in the image.
	WDR	Enhance recognition capability in high-contrast lighting conditions.
White Balance	Mode	Adjust image color according to light source color temperature for accurate color reproduction.
Image Enhancement	2D NR	Reduce noise by analyzing single frames.
	3D NR	Reduce noise by analyzing multiple frames.

	EIS	Reduce blur caused by minor camera shake.
	Defogging	Enhance image clarity in foggy or low-contrast scenes.
Video Adjustment	Video Format	Select the video output standard: PAL or NTSC.
	Video Rotation	Rotates the video image by the specified angle to match different installation orientations.
	Image Flip	Adjusts the image orientation, available options include Flip, Mirror, and Center.

3) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.1.1.2. Configure Time Plan

Steps:

1) On the configuration page, click "Camera > Display", select "Custom" in "Mode" field. You can find the time schedule table at the bottom of the page (Fig. 7-2).

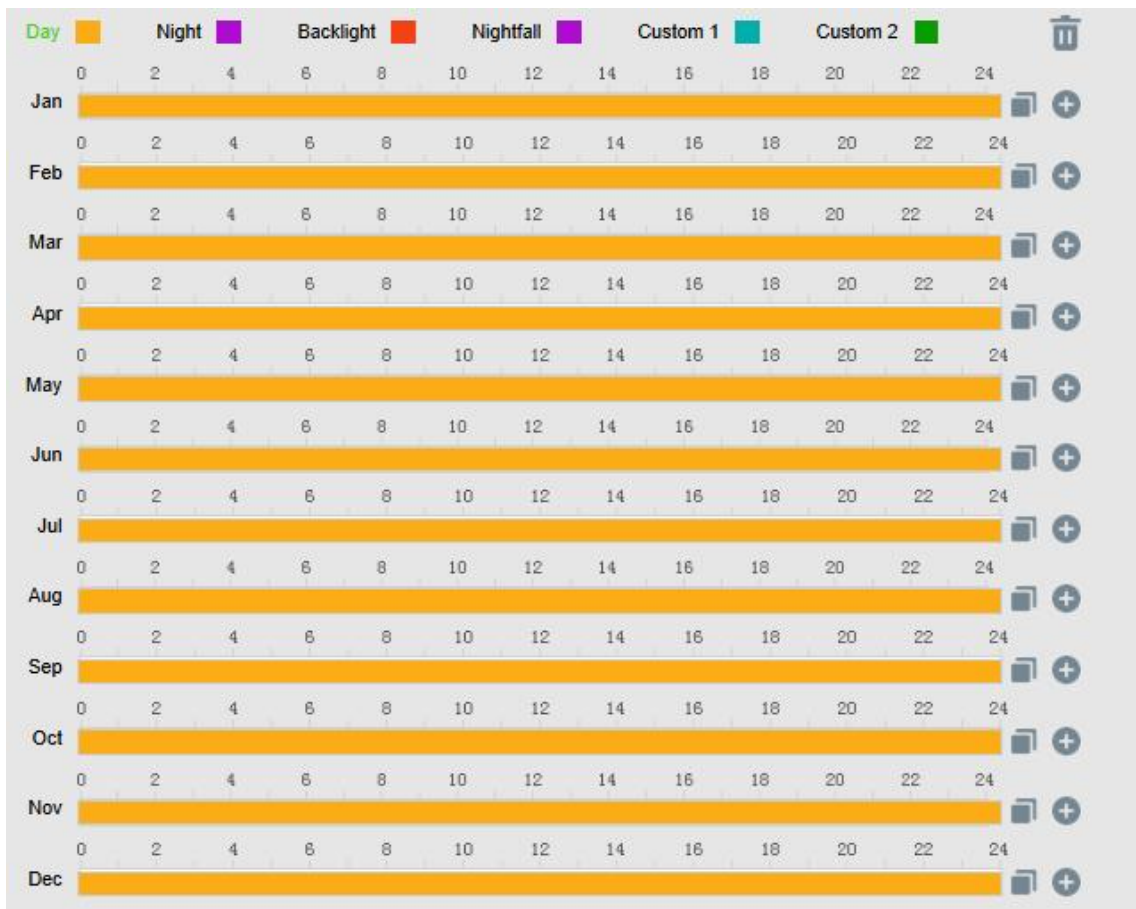


Fig. 7-2




- 2) Click  to clear the preset time schedule.
- 3) Click a scene type until the text turns green, then click and drag in the blank area of the timeline to create a new time block (Fig. 7-3).
- 4) Click  to add the same scene time period to the timeline. Hold and drag the left or right edge of the time period to adjust the start and end times.
- 5) Click  to copy the scheduled time plan from one month to another.
- 6) Click "Save" to save the settings, or click "Default" to restore the default settings.



Fig. 7-3

7.1.1.3. Configure Thermal Image

Thermal image parameters can be configured according to the actual on-site conditions.

Note:

- This function is only applicable to certain thermal devices. Please refer to the actual interface for availability.

Steps:

- 1) On the configuration page, click "Camera > Display", select the thermal imaging channel from the "Channel" drop-down list to enter the thermal imaging configuration page (Fig. 7-4).
- 2) Configure the thermal image parameters according to requirements:

Category	Name	Instruction
False Color	\	<ul style="list-style-type: none"> • Maps infrared temperature data to different colors to enhance thermal contrast and make targets easier to identify. • Supports color modes such as Rainbow Mode, Green Mode, Iron Mode, White Mode and Black Mode.
Basic Settings	Brightness	Adjust the overall brightness of the image.

	Contrast	Control the contrast between bright and dark areas.
	Sharpness	Enhance or reduce the sharpness of image edges.
	Histogram Equalization	Adjusts the grayscale distribution of the image to improve overall contrast and enhance details.
	Video Quality Enhancement	Optimizes image details to improve overall clarity.
Image Enhancement	Spatial Noise Reduction	Smooths random noise within a single frame to reduce graininess, but may slightly reduce details.
	Time Domain Noise Reduction	Reduces noise by analyzing multiple frames, making the image more stable, but may cause slight motion blur.
FFC Settings	FFC Mode	Sets the FFC mode to "Auto" or "Manual". When enabled, it helps eliminate temperature drift and fixed pattern noise.
	FFC Switch Cycle	When "FFC Mode" is set to be "Auto", you can set the time interval for automatic FFC (shutter correction).

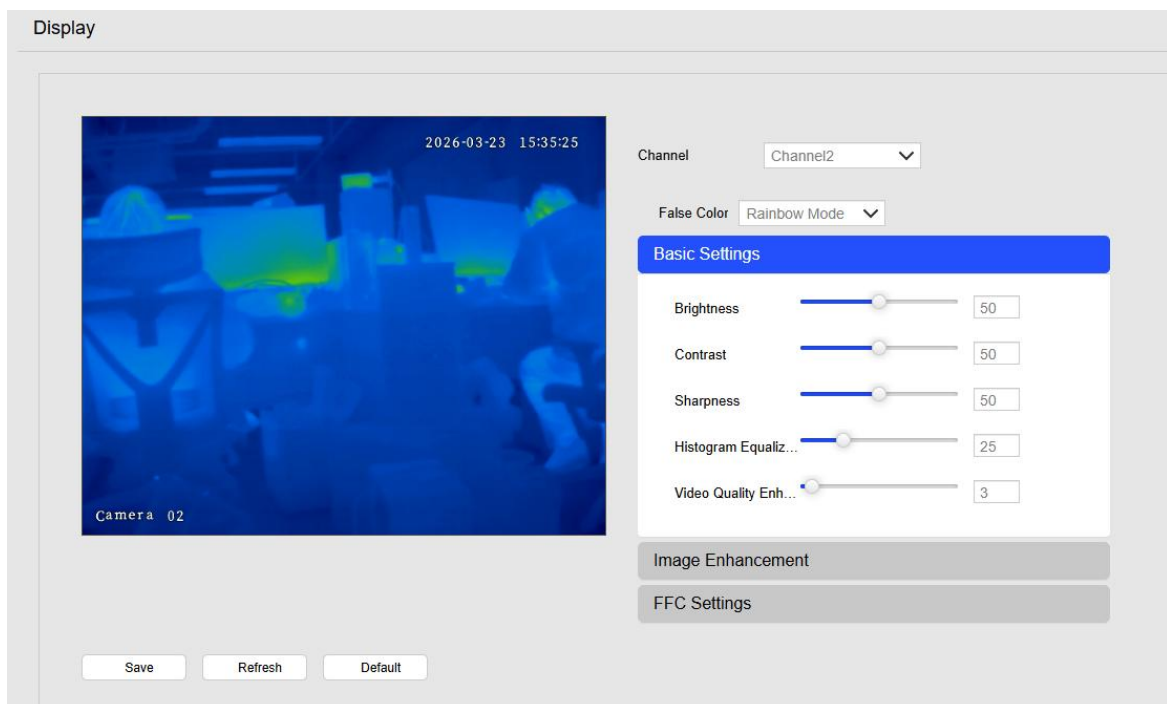


Fig. 7-4

- 3) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.1.2. Video

7.1.2.1. Video Stream

Configure video encoding parameters for remote devices to ensure optimal video quality and bandwidth utilization.

Steps:

- 1) On the configuration page, click "Camera > Video > Video Stream" to enter the settings page (Fig. 7-5).
- 2) Configure video encoding parameters according to requirements:

Parameter	Instruction
Stream Type	Set the video stream type output by the device: Main Stream or Sub Stream.
Encode Mode	Choose the video compression standard: H.264 or H.265.
Smart265	When enabled, the bitrate and storage usage are further reduced while maintaining image quality.
Profile	Select the encoding profile for the video stream.
Resolution	Set the video resolution, e.g., 8M, 6M, 4M, 1080P, etc.
Frame Rate	Set the frames per second (FPS). Higher FPS results in smoother video playback.
Bit Rate Type	Control the video output mode: CBR (Constant Bitrate) or VBR (Variable Bitrate).
Image Quality	Set the video quality. Higher values indicate better quality and clearer images, but require more storage space.
Bit Rate	Set the video stream's bit rate to control image quality and bandwidth usage. Higher values provide better image quality but require more bandwidth and storage.
I Frame Interval	Set the I-frame interval. Smaller values improve image stability but increase file size.
Audio	Enable or disable audio for the video stream.

- 3) Settings can be configured separately for Mainstream, Substream, and Third Stream.

- 4) Click "Save" to save the settings, or click "Default" to restore the default settings.

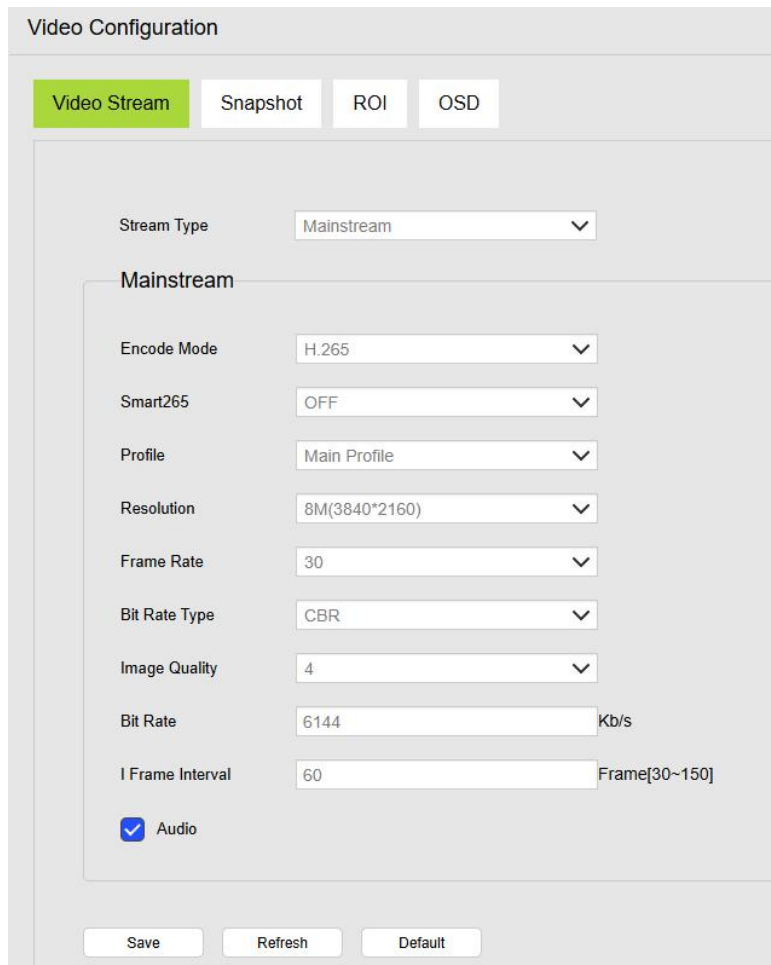


Fig. 7-5

7.1.2.2. Snapshot

Configure the format and quality for device snapshot images.

Steps:

- 1) On the configuration page, click "Camera > Video > Snapshot" to enter the settings page (Fig. 7-6).
- 2) Configure snapshot parameters according to requirements:

Parameter	Instruction
Encode Mode	Set the snapshot image format.
Resolution	Set the snapshot image resolution; available options are 1080P or 720P.
Image Quality	Set the snapshot image quality. Higher values indicate better quality.
OSD Overlay	When checked, the snapshot will include OSD

	content.
--	----------

- 3) Click "Save" to save the settings, or click "Default" to restore the default settings.

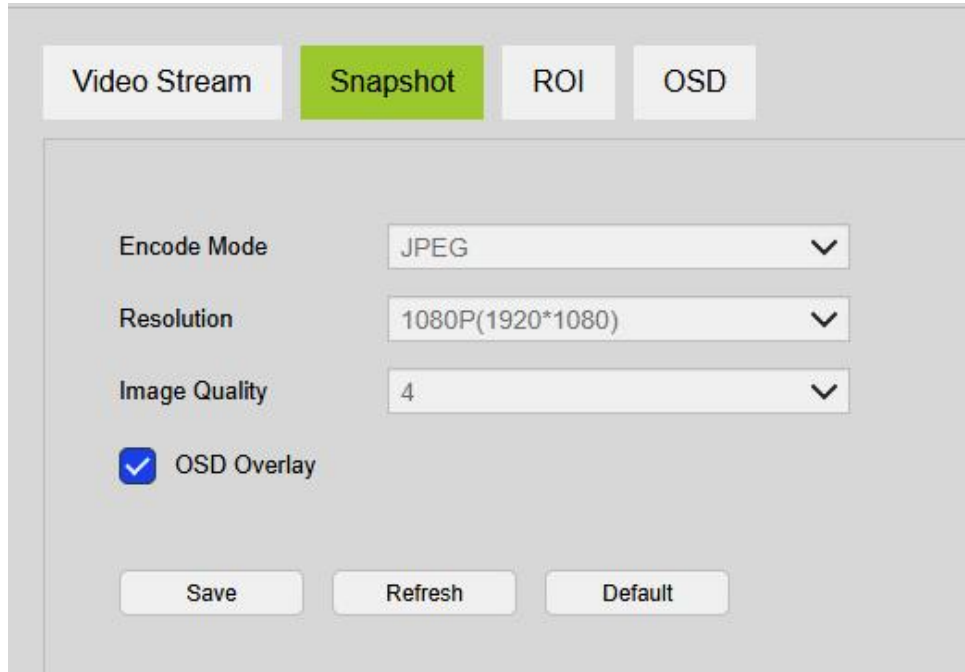


Fig. 7-6

7.1.2.3. ROI

Set the Region of Interest (ROI) within the frame and adjust the image quality for the ROI area to ensure optimal image quality in key regions.

Steps:

- 1) On the configuration page, click "Camera > Video > ROI" to enter the settings page (Fig. 7-7).
- 2) In the preview screen, long-press the mouse and drag to draw an area, or click "Add" and then adjust the size of the box.

Optional:

- Click "Clear" to remove all boxes from the screen.
 - Select a box by clicking it, then click "Delete" to remove that specific box.
- 3) Set the image quality within the frame area under "Image Quality"; higher values indicate better quality.
 - 4) Click "Save" to save the settings, or click "Default" to restore the default settings.

i Note:

- Supports adding up to 8 areas of ROI.

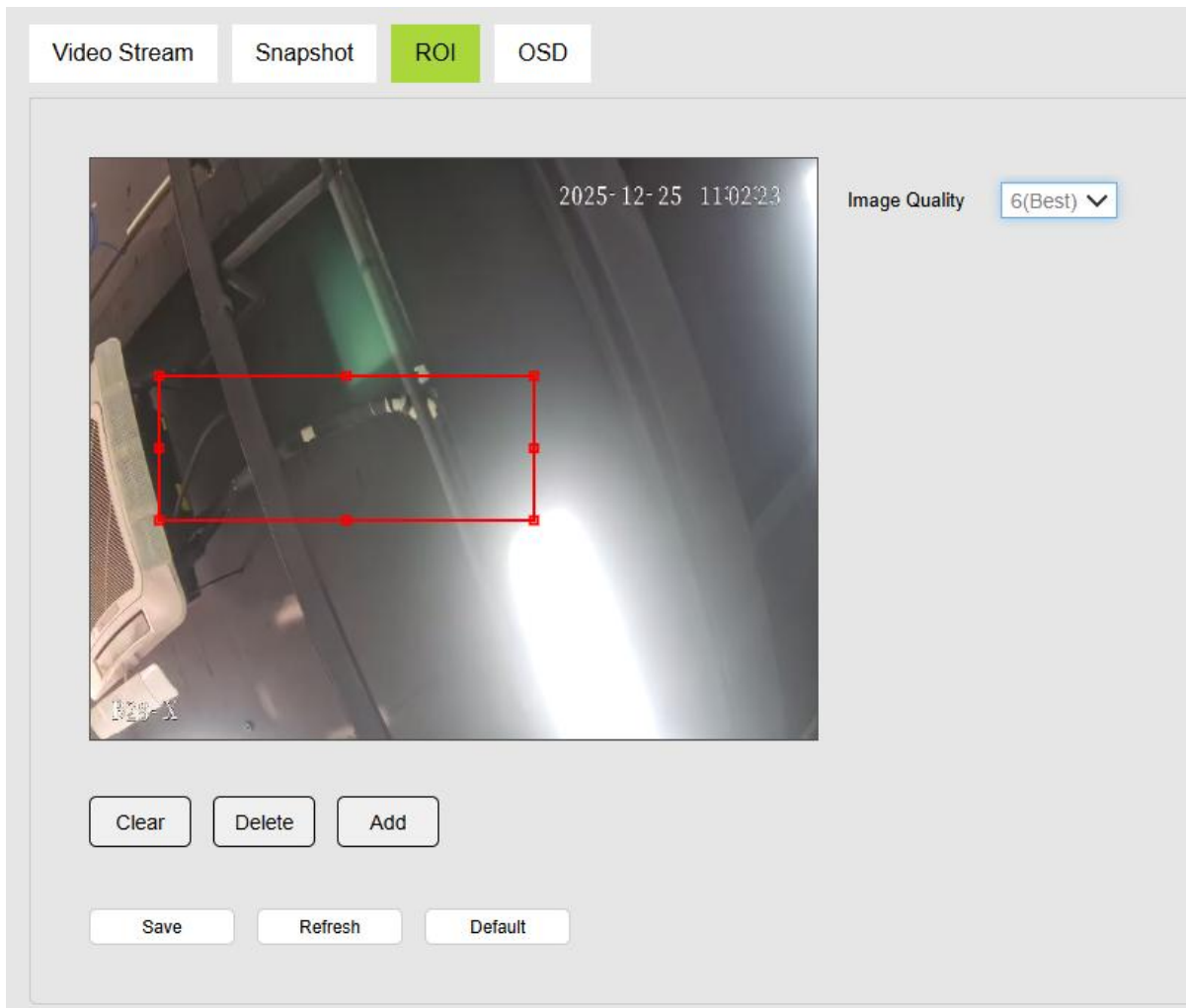


Fig. 7-7

7.1.2.4. OSD Overlay

Configure the OSD (On-Screen Display) overlay to add text information to the screen.

Steps:

- 1) On the configuration page, click "Camera > Video > OSD" to enter the settings page (Fig. 7-8).
- 2) Add and configure OSD according to requirements:

Parameter	Instruction
Font Size	Set the size of text on the screen.
Alignment	Set the text alignment.
Channel Title	Add channel name; can customize text.
Time Title	Add time, with optional inclusion of "week".
Custom 1-4	Supports adding up to 4 custom titles, with line breaks

	allowed.
PTZ Zoom	After adding, displays the PTZ zoom magnification level.
Preset&Menu	After adding, preset positions will be displayed.

- 3) You can drag text in the preview window to adjust its position.
- 4) Click "Save" to save the settings, or click "Default" to restore the default settings.

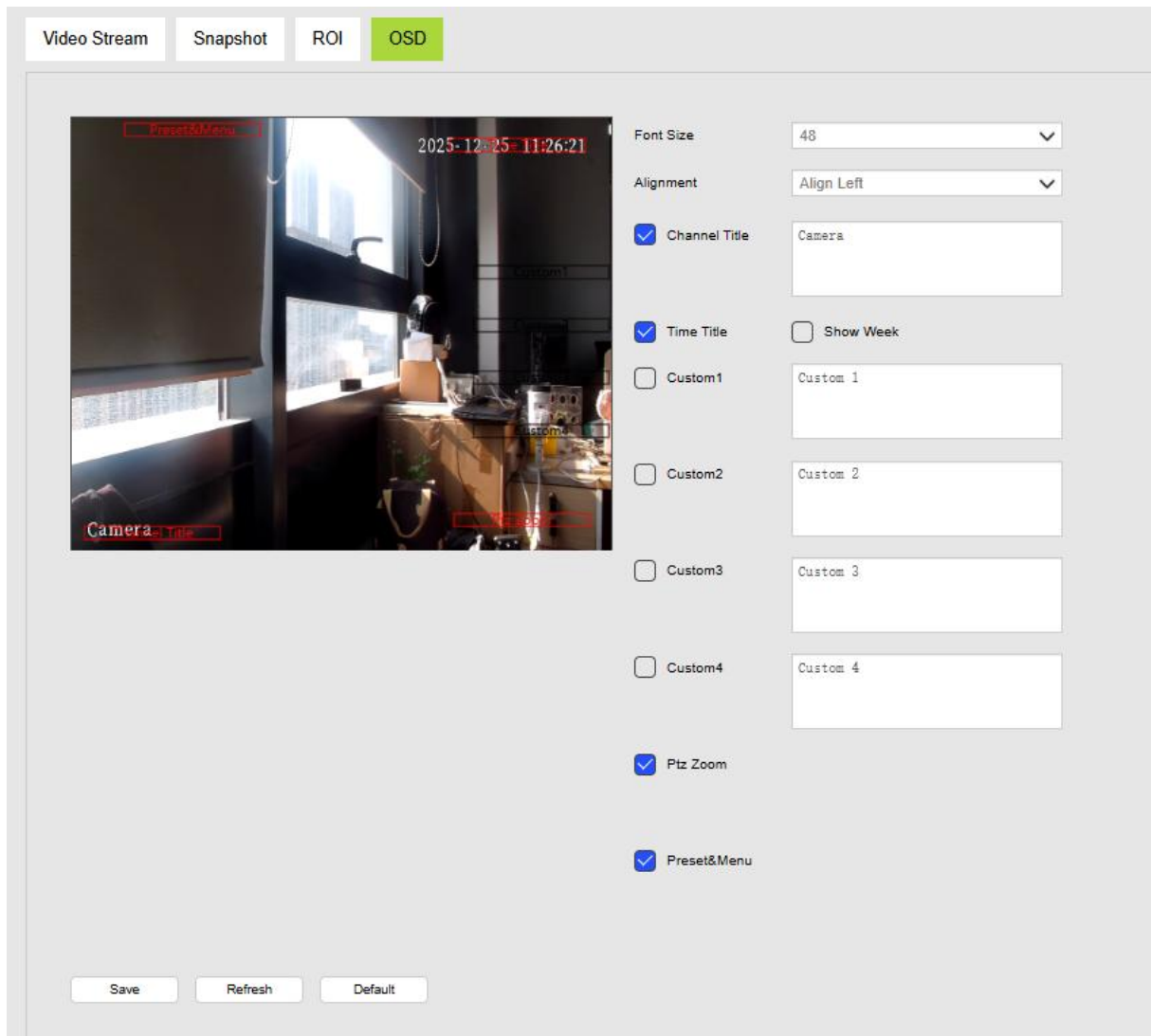


Fig. 7-8

7.1.3. Audio

7.1.3.1. Audio

Configure audio encoding settings for device-captured sound to determine audio clarity and transmission bandwidth usage.

Steps:

- 1) On the configuration page, click "Camera > Audio > Audio" to enter the settings page (Fig. 7-9).

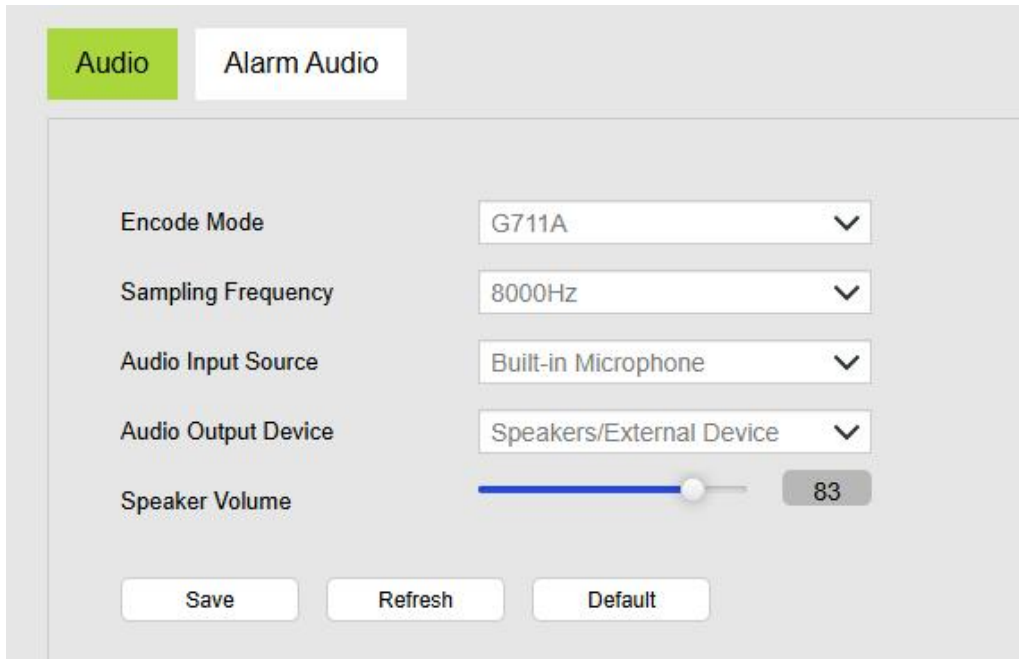


Fig. 7-9

- 2) Configure audio parameters according to requirements:

Parameter	Instruction
Encode Mode	Choose the audio encoding format: G.711A, G.711U, PCM, G.726. Different formats affect audio quality, bandwidth usage, and storage.
Sampling Frequency	Set the audio sampling rate. Higher rates provide more accurate sound reproduction. Options: 8 kHz or 16 kHz.
Audio Input Source	Set the audio input source channel: Built-in Microphone or External Microphone, etc.
Audio Output Device	Set the audio output source.
Speaker Volume	Adjust the device output volume. Higher values increase the volume level.

- 3) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.1.3.2. Alarm Audio

Manage alarm audio files here.



Steps:

- 1) On the configuration page, click "Camera > Audio > Alarm Audio" to enter the settings page (Fig. 7-10).



Fig. 7-10

- 2) The system provides several commonly used alarm audio files for selection.

You can click  to preview them or click  to download the audio files locally.

Optional:

- You can upload custom audio files to the device. Click "Add Audio File > Upload" to upload an audio file.
- Record audio and upload it to the device. Click "Add Audio File > Record," enter the audio name, then click "Record" to capture and upload.

Note:

- Audio files should be in ".wav" format.
- Audio must be recorded using your local computer. Please ensure your local

computer has audio input devices such as a microphone.

7.2. Network

Used to configure the network communication parameters of the camera, including IP address, ports, protocols, and related network services.

i Note:

- The network configuration functions and supported protocols vary depending on the device model. Please configure settings according to the actual capabilities of the device.
- Some protocols may be mutually exclusive. Please enable or disable network configurations according to the actual requirements.

7.2.1. TCP/IP

7.2.1.1. TCP/IP

Steps:

- 1) On the configuration page, click "Network > TCP/IP > TCP/IP" to enter the settings page (Fig. 7-11).
- 2) Configure TCP/IP parameters according to requirements:

Parameter	Instruction
Net Adapter	<ul style="list-style-type: none"> • If the device has multiple network cards, select the one to configure. • Check "Set to Default Net Adapter" to designate this adapter as the default network adapter.
IP Version	Set the network address protocol type, select either IPv4 or IPv6.
Mode	Select static or dynamic (DHCP) mode: <ul style="list-style-type: none"> • If you choose static mode, you should manually configure the IP address, subnet mask, and default gateway. • If you choose dynamic (DHCP) mode, the device will automatically obtain a dynamic IP address, eliminating the need to manually configure the IP address, subnet mask, and default gateway.
IP Address	<ul style="list-style-type: none"> • If "IP Mode" is set to "Static," you can configure

Subnet Mask	the IP address, subnet mask, default gateway, Preferred DNS, Alternative DNS.
Gateway	
Mac Address	The unique physical network address of the device used to identify it on the local network. Cannot be modified.
MTU	Maximum Transmission Unit, the configurable range is 800~1500. A larger value allows larger data packets to be transmitted.
Get DNS Automatically	When enabled, the device automatically obtains DNS server addresses via DHCP.
IP Version	The IP protocol used to obtain DNS server addresses.
Preferred DNS	The primary DNS server used to resolve domain names to IP addresses.
Secondary DNS	The backup DNS server used when the preferred DNS server is unavailable.

3) Click "Save" to save the settings, or click "Default" to restore the default settings.

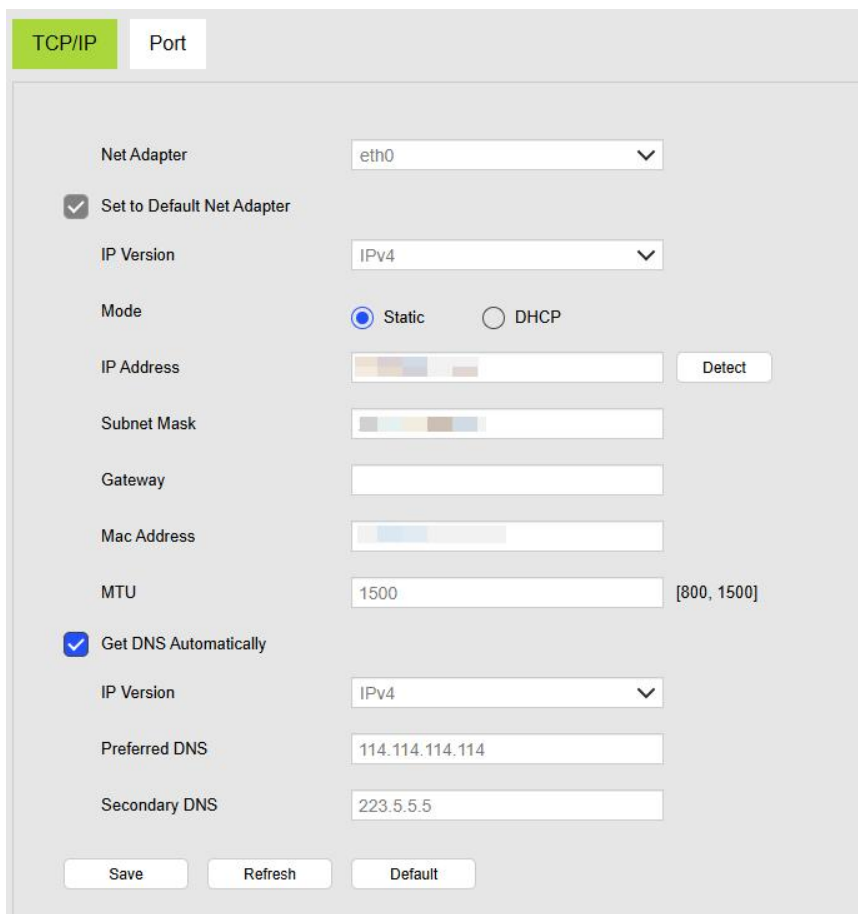


Fig. 7-11

7.2.1.2. Port

Steps:

- 1) On the configuration page, click "Network > TCP/IP > Port" to enter the settings page (Fig. 7-12).
- 2) Configure port parameters according to requirements:

Parameter	Instruction
HTTP Port	HTTP communication port: The default is 80. If a different value is set, the port number must be added after the IP address when accessing the device via a web browser.
HTTPS Port	The port used for secure HTTPS access to the device, the default is 443.
Server Port	The port used for communication between the device and client software.

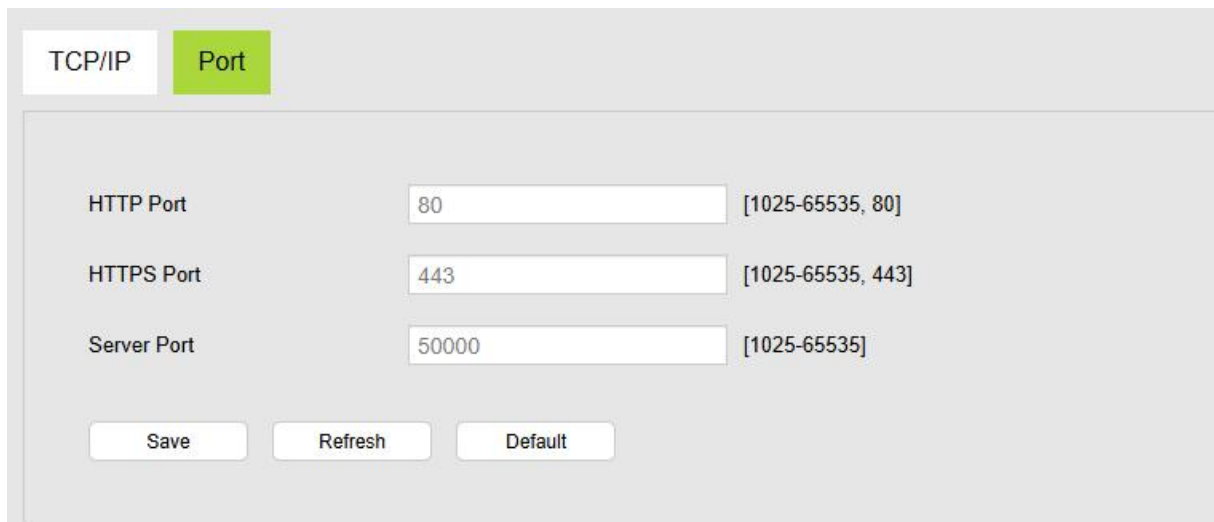


Fig. 7-12

- 3) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.2.2. PPPoE

Steps:

- 1) On the configuration page, click "Network > PPPoE" to enter the settings page (Fig. 7-13).

Enable
 Ifname: eth0
 Username:
 Password:
 IP Address: 0.0.0.0
 Save Refresh Default

Fig. 7-13

- 2) Click Enable to enable PPPoE.
- 3) Select the network interface name used for PPPoE.
- 4) Enter the PPPoE username and password.
- 5) Click "Save" to save the settings, or click "Default" to restore the default settings. Once the system saves successfully, the "IP Address" field displays the acquired IP address, which can be used to access the device.

7.2.3. IP Filter

Used to configure IP allow and block lists to control access to the device.

Steps:

- 1) On the configuration page, click "Network > IP Filter" to enter the settings page (Fig. 7-14).

Enable
 Trusted IP Blocked IP

IP Address	Edit	Delete

 Add
 Save Refresh Default

Fig. 7-14

- 2) Click Enable to enable the function.
- 3) Select whether to add "Trusted IP" or "Blocked IP".
- 4) Click "Add", enter the IP address; click "Confirm" to complete the addition.
- 5) Click "Save" to save the settings, or click "Default" to restore the default settings. After adding, only specified IP users can access the device or be restricted from accessing it.

7.2.4. Email

Configure email settings. When an alarm trigger occurs, the system will send an email to the specified address.

Steps:

- 1) On the configuration page, click "Network > Email" to enter the settings page (Fig. 7-15).
- 2) Click Enable to enable Email function.
- 3) Configure Email parameters according to requirements:

Parameter	Instruction
SMTP Server	Enter SMTP (Simple Mail Transfer Protocol) server address.
Port	The port number used by the SMTP server for email transmission.
Encryption	Available options are None, TLS, SSL.
Username	The username of SMTP server.
Password	The password of SMTP server.
Sender	Enter the sender's email address
Receiver	Enter the recipient's email address.
Subject	<ul style="list-style-type: none"> • Enter the subject of the email. • If you check "Attachment," the system will attach the image to the sent email.

i Note:

- SMTP Server, Port, Encryption, Username, and Password should be provided by the sender's email service provider. Different providers have varying requirements for Encryption and Port settings. Please visit your provider's website to verify these details and enable SMTP service.

The screenshot shows a configuration page for SMTP settings. At the top left, there is an unchecked checkbox labeled 'Enable'. Below it are several input fields: 'SMTP Server' (empty), 'Port' (25, with a range '(1-65535)' to its right), 'Encryption' (None, with a dropdown arrow), 'Username' (empty), and 'Password' (masked with dots). A note below the password field states: 'It is recommended that the password should be 8-16 digits, And use two or more combinations of numbers, Uppercase and lowercase letters, And special characters.' Below this are 'Sender' and 'Receiver' fields. To the right of the 'Receiver' field are 'Add' and 'Delete' buttons. At the bottom, there is a 'Subject' field containing 'Alarm Message' and a checked checkbox labeled 'Attachments are supported'. At the very bottom, there are four buttons: 'Test', 'Save', 'Refresh', and 'Default'.

Fig. 7-15

- 4) Click "Test" to send a test email to the recipient's email address. If you receive the email, it indicates that the email settings are successful.
- 5) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.2.5. FTP Upload

FTP Upload allows the device to upload images or videos to a remote FTP server for backup or remote access.

Steps:

- 1) On the configuration page, click "Network > FTP Upload" to enter the settings page (Fig. 7-16).
- 2) Click Enable to enable FTP Upload function.
- 3) Configure FTP parameters according to requirements:

Parameter	Instruction
Server IP	The IP address of the FTP server to which files will be uploaded.
Port	The port number used by the FTP server (default is 21).
Username	The username used to log in to the FTP server.
Password	The password used to log in to the FTP server.
Directory	The folder structure on the FTP server where uploaded files

Structure	will be stored.
Max File Length	The maximum size of a single file to be uploaded to the FTP server.

- 4) Click "Test" to verify the configuration parameters are valid.
- 5) Click "Save" to save the settings, or click "Default" to restore the default settings.

Enable

Note: Using The FTP Protocol Carries Security Risks, Please Choose Carefully.

Server IP *

Port *(1~65535)

Username Anonymous

Password

It is recommended that the password should be 8-16 digits, And use two or more combinations of numbers, Uppercase and lowercase letters, And special characters.

Directory Structure ▼

Max File Length M

Test Save Refresh Default

Fig. 7-16

7.2.6. P2P

Steps:

- 1) On the configuration page, click "Network > P2P" to enter the settings page (Fig. 7-17).
- 2) Click Enable to enable P2P. You can bind the device in the APP using the serial number or by scanning the QR code.
- 3) Click "Save" to save the settings. Click "Unbind" to unbind all remote devices from this device.

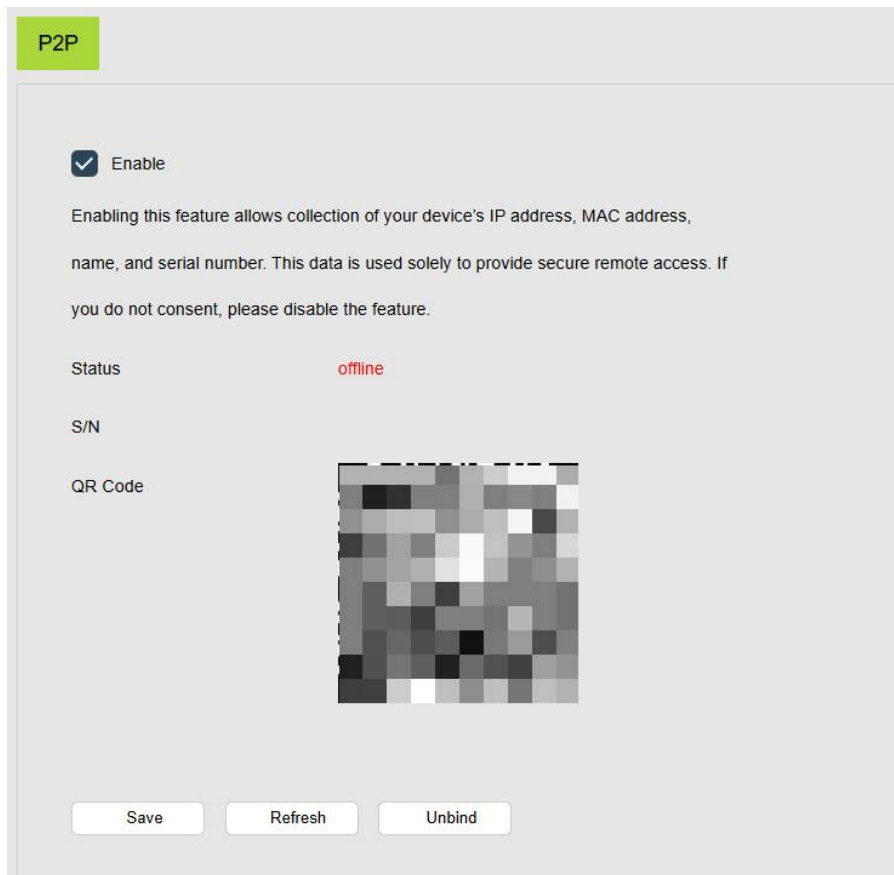


Fig. 7-17

7.2.7. RTSP

Real-Time Streaming Protocol used for streaming video over the network.

Steps:

- 1) On the configuration page, click "Network > RTSP" to enter the settings page (Fig. 7-18).
- 2) Set the RTSP Port, RTSP Port is the network port used by the RTSP service for video streaming (default is 554).

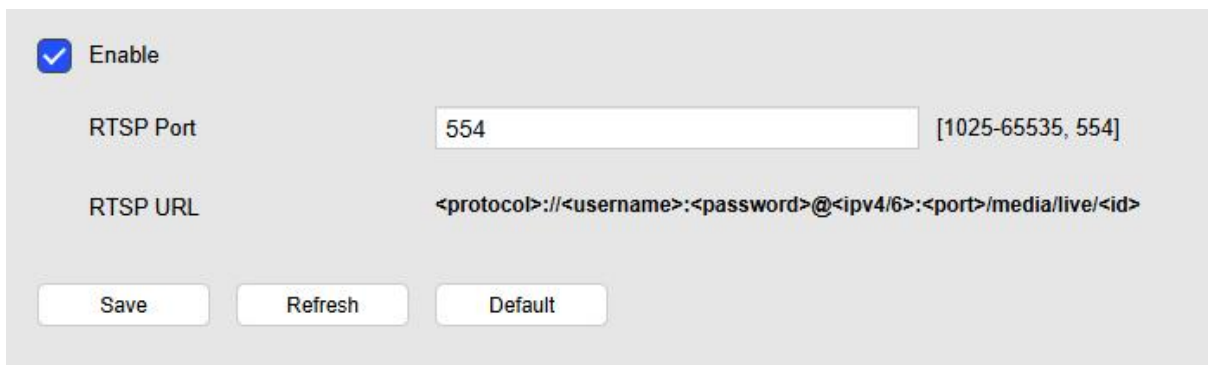


Fig. 7-18

- 3) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.2.8. ONVIF

ONVIF (Open Network Video Interface Forum) is a standard for IP-based video products to ensure interoperability between different types of devices and clients.

Steps:

- 1) On the configuration page, click "Network > ONVIF" to enter the settings page (Fig. 7-19).

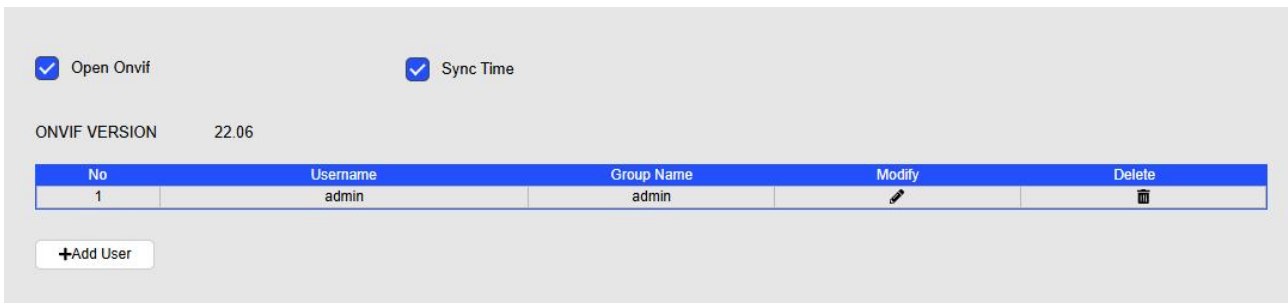


Fig. 7-19

- 2) Configure ONVIF parameters according to requirements:

Parameter	Instruction
Open Onvif	Click to enable ONVIF.
Sync Time	Synchronizes the camera's system time with the client or NVR via ONVIF to ensure consistent timestamps.
Add User	Create new accounts via ONVIF, including username, password, and group (manage user permissions through group settings), to control device security.

7.2.9. DDNS

Steps:

- 1) On the configuration page, click "Network > DDNS" to enter the settings page (Fig. 7-20).

Fig. 7-20

- 2) Click Enable to enable DDNS.
- 3) Configure DDNS parameters according to requirements:

Parameter	Instruction
Type	Select the dynamic DNS service provider, such as NO-IP or CN99.
Domain	Enter the domain name registered with the DDNS service provider.
Username	Enter the account username and password registered with the DDNS service provider (an account must be registered on the provider's website first).
Password	
Survival Time	Set the update cycle for the device's connection to the server.

- 4) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.2.10. SNMP

Through SNMP (Simple Network Management Protocol), device information and status alerts can be sent to the management system, or management commands can be received, enabling remote management and monitoring.

Note:

- Before configuring SNMP parameters, users should have an SNMP server

installed and ensure that the relevant parameters are properly configured on the server for normal operation.

Steps:

- 1) On the configuration page, click "Network > SNMP" to enter the settings page (Fig. 7-21).

The screenshot shows the SNMP configuration interface. At the top, there are three radio buttons for 'Type': v1, v2c, and v3. Below them is a note: 'Note: Using the SNMP v1/v2 protocol carries security risks, please choose carefully.' The 'SNMP Port' field is set to 161. The 'Read Community' field is set to publicv12c. The 'Write Community' field is set to privatev12c. The 'Trap Address' field is empty. The 'Trap Port' field is set to 162. The 'Trap Group Name' field is set to publicv12c. At the bottom, there are three buttons: 'Save', 'Refresh', and 'Default'.

Fig. 7-21

- 2) Configure SNMP parameters according to requirements:

Parameter	Instruction
Type	<ul style="list-style-type: none"> • Select the SNMP type; options include v1, v2c, or v3. • Selecting v1 or v2c may pose security risks; it is recommended to choose v3, which allows setting a username and security level.
SNMP Port	The port used for SNMP communication (default is 161).
Read Community	The community string used for read-only access to SNMP data.
Write Community	The community string used for read/write access to SNMP data.
Trap Address	The IP address of the SNMP server to receive traps.
Trap Port	The port on the SNMP server to receive traps (default is 162).
Trap Group Name	The name of the trap group for organizing SNMP trap recipients.

Read Only User Name	<ul style="list-style-type: none"> The username for SNMP users with read-only permissions. Only applicable for SNMP v3.
Security Level	<ul style="list-style-type: none"> Select the security level (including no auth no priv, auth no priv, auth priv) for the read-only user. Only applicable for SNMP v3.
Read/Write User Name	<ul style="list-style-type: none"> The username for SNMP users with read/write permissions. Only applicable for SNMP v3.

3) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.2.11. UPnP

UPnP (Universal Plug and Play) used to establish port mapping between external and internal networks, allowing users to access the device remotely via the protocol.

Note:

- Please ensure that the UPnP function is enabled on your router.

Steps:

1) On the configuration page, click "Network > UPnP" to enter the settings page (Fig. 7-22).

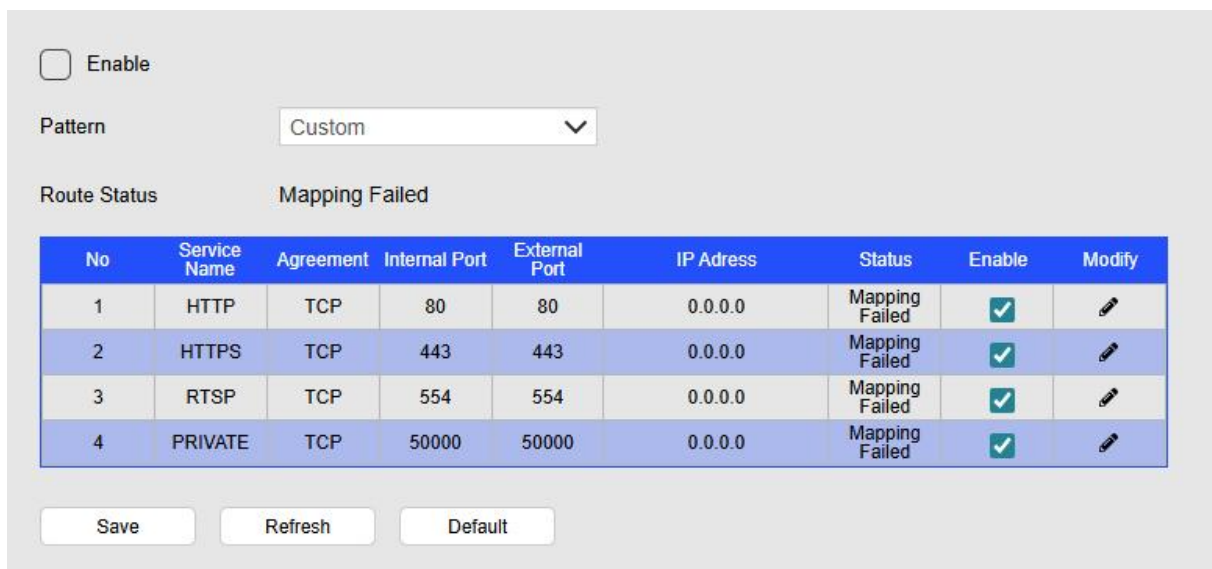



Fig. 7-22

- 2) Click Enable to enable UPnP.
- 3) Set the Pattern, choosing either "Custom" or "Default".
 - If you select "Custom," click  to modify the external network port number.
 - If "Default" is selected, the system will automatically configure port mapping, which cannot be modified.
- 4) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.2.12. SSDP

SSDP (Simple Service Discovery Protocol) used to discover UPnP-enabled devices and services on a local network.

Steps:

- 1) On the configuration page, click "Network > SSDP" to enter the settings page (Fig. 7-23).
- 2) Click Enable to enable SSDP.



Fig. 7-23

- 3) You can modify the Device Alias. When the device is detected, the displayed name will be the Device Alias you set.
- 4) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.2.13. Bonjour

Through this protocol, devices can be automatically detected within the OS system and accessed directly via the Safari browser.

Steps:

- 1) On the configuration page, click "Network > Bonjour" to enter the settings page (Fig. 7-24).

The screenshot shows a configuration interface for Bonjour. At the top left, there is an unchecked checkbox labeled 'Enable'. Below it is a text input field labeled 'Server Name' containing the text 'SC-96825A-0000000000'. At the bottom of the form, there are three buttons: 'Save', 'Refresh', and 'Default'.

Fig. 7-24

- 2) Click Enable to enable.
- 3) You can modify the Server Name, which will be displayed as the device's name when detected.
- 4) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.2.14. 802.1X

802.1X (IEEE 802.1X) is a port-based network access control protocol used to authenticate devices accessing the network.

Steps:

- 1) On the configuration page, click "Network > 802.1X" to enter the settings page (Fig. 7-25).

The screenshot shows a configuration interface for 802.1X. At the top left, there is an unchecked checkbox labeled 'Enable'. Below it is a dropdown menu labeled 'Authentication Method' with 'EAP-MD5' selected. Underneath are three text input fields: 'Username', 'Password' (with masked characters), and 'Confirm Password' (with masked characters). At the bottom, there are three buttons: 'Save', 'Refresh', and 'Default'.

Fig. 7-25

- 2) Click Enable to enable 802.1X.
- 3) Select the Authentication Method, choosing either EAP-MD5 or PEAP. These must be pre-configured on the server and switch.
- 4) Enter Username, Password and Confirm Password.
- 5) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.2.15. QoS

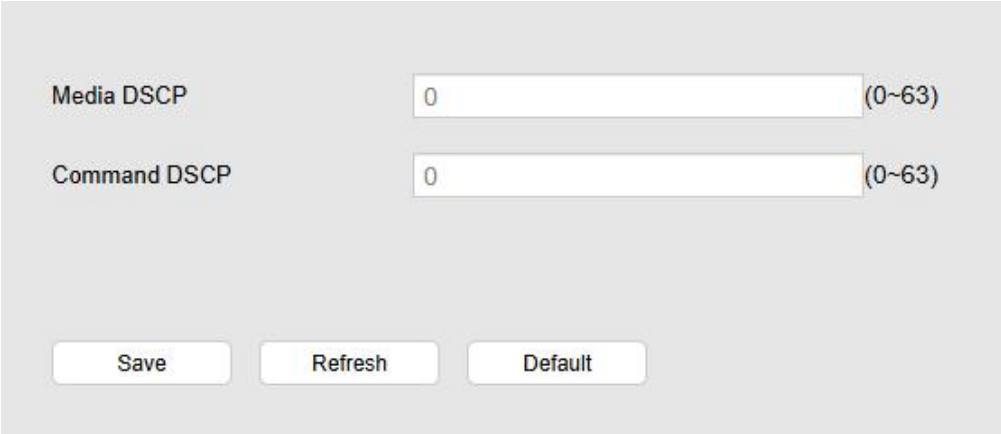
Configuring QoS (Quality of Service) enables the classification and prioritization of different types of network traffic, ensuring critical applications receive higher-quality service. This effectively prevents network delays and lag.

i Note:

- Before using QoS, please ensure that network devices along the transmission path (such as routers or switches) support QoS.

Steps:

- 1) On the configuration page, click "Network > QoS" to enter the settings page (Fig. 7-26).
- 2) Set the Media DSCP and Command DSCP values. Higher DSCP values indicate higher data transmission priority.



The screenshot shows a configuration interface for QoS. It features two input fields: "Media DSCP" and "Command DSCP", both containing the value "0". To the right of each field is a range indicator "(0~63)". Below the input fields are three buttons: "Save", "Refresh", and "Default".

Fig. 7-26

- 3) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.3. Event

Configure and manage intelligent event detection and alarm linkage here,

including setting intelligent analysis rules, arming times, and linkage actions triggered by corresponding events.

Note:

- Certain AI functions may be mutually exclusive; please follow system prompts for configuration.

7.3.1. Alarm

When a camera detects a specific event, the system will execute a series of pre-configured alarm linkage actions to alert users to handle the event.

Steps:

- 1) On the configuration page, click "Event > Alarm" to enter the settings page, then click "Motion Detect", "Video tampering", "Alarm Input" tab to access the corresponding event alarm linkage settings page (Fig. 7-27).

The screenshot shows the 'Motion Detect' configuration page. At the top, there are five tabs: 'Motion Detect' (highlighted in green), 'Video tampering', 'Alarm Input', 'Alarm Output', and 'Audio Error'. Below the tabs, the configuration options are as follows:

- Enable
- Channel: 1 (dropdown)
- Period: Setup (button)
- Region: Setup (button)
- Sensitivity: 4 (dropdown)
- Alarm Output
- Delay: 10 (input) sec[10 ~ 300]
- Record
- Delay: 10 (input) sec[10 ~ 300]
- Snapshot
- Audio Linkage
- Playback Times: 1 (input) [1 ~ 3]
- File: alarm.wav (dropdown)
- Trigger Email
- FTP Upload
- Log

At the bottom of the page, there are three buttons: 'Save', 'Refresh', and 'Default'.

Fig. 7-27

2) Click Enable to enable the alarm.

3) Configure alarm parameters according to requirements:

Parameter	Instruction
Channel	If the device has multiple channels, select the desired channel.
Period	Set the arming period. Events occurring within the specified time frame can trigger alarm linkage. For details, refer to <u>7.3.1.1.Configure the Period</u> .
Region	Set the detection region. Events occurring within the specified region can trigger alarm linkage. For details, refer to <u>7.3.1.2.Configure the Region</u> .
Sensitivity	Adjust the algorithm's sensitivity to the target's movement. The larger the value, the more easily an alarm will be triggered.
Alarm Output	When enabled, the device will trigger an alarm signal to external devices upon an event.
Alarm Output-Delay	Set the duration for the alarm output.
Record	When enabled, the device will start recording when an event occurs.
Record-Delay	Set the recording duration after an event is triggered.
Snapshot	When enabled, the device will capture snapshots when an event is triggered.
Audio Linkage	When enabled, the device will activate audio linkage upon an event.
Playback Times	Set the number of times the audio is played.
File	Select the audio playback file. You may choose from existing system audio files. To upload a new file, refer to <u>7.1.3.2.Alarm Audio</u> .
Trigger Email	<ul style="list-style-type: none"> When enabled, an email will be sent to the specified email address when an event is triggered. To perform this operation, you must first configure your email settings. For details, refer to <u>7.2.4.Email</u>.
FTP Upload	<ul style="list-style-type: none"> When enabled, alarm-triggered recordings or

	<p>snapshot images will be automatically uploaded to the FTP server.</p> <ul style="list-style-type: none"> To perform this operation, you must first configure FTP settings. For details, refer to <u>7.2.5.FTP Upload.</u>
Log	When enabled, triggered event information will be recorded in the log.

4) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.3.1.1. Configure the Period

Steps:

1) Click "Setup" in the "Period" field to open the settings page (Fig. 7-28).

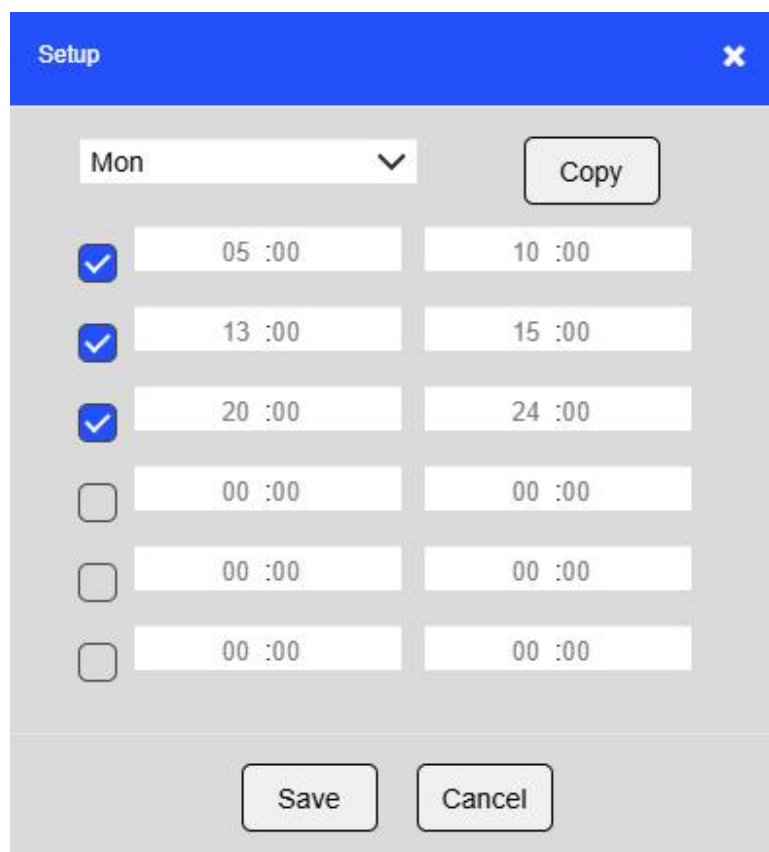


Fig. 7-28

- 2) Select date, arming time is set according to weekly schedule.
- 3) Set start time and end time. Up to 6 time periods can be configured.

Optional:

- Click "Copy" to copy the time period to other dates.
- Click "Save" to save the settings.

7.3.1.2. Configure the Region

Steps:

- 1) Click "Setup" in the "Region" field to open the settings page (Fig. 7-29).
- 2) You can view the current region settings in the preview window.
- 3) Click "Re-draw" to clear existing region settings and redraw the region.
- 4) Hold down the left mouse button and drag within the preview window to draw. Multiple regions can be drawn.
- 5) Click "Drawing Finished" to save the results.
- 6) Click "Save" to save the settings.

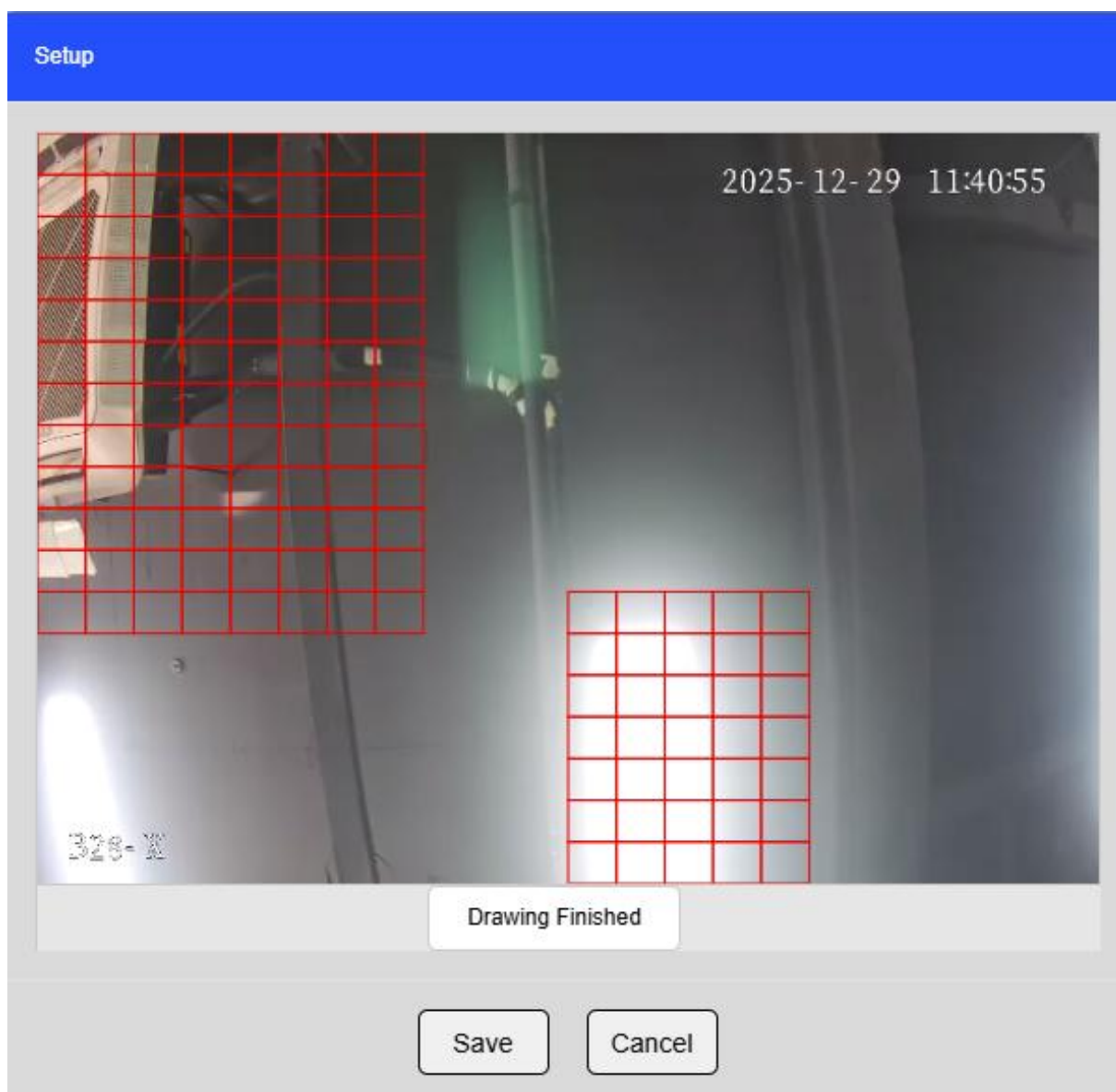
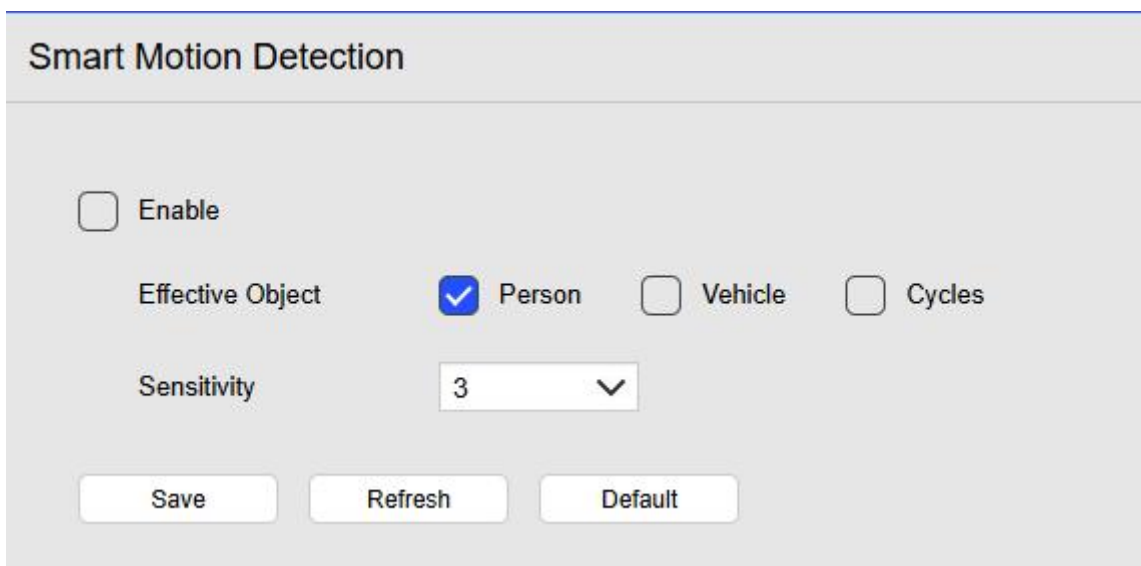


Fig. 7-29

7.3.2. Smart Motion Detection

Steps:

- 1) On the configuration page, click "Event > Smart Motion Detection" to enter the settings page (Fig. 7-30).
- 2) Click Enable to enable Smart Motion Detection.
- 3) Select target types; you can choose one or more target types to monitor.
- 4) Set the sensitivity level. Higher values indicate greater sensitivity. An event will trigger when the target's movement reaches the preset sensitivity threshold.
- 5) Click "Save" to save the settings, or click "Default" to restore the default settings.



Smart Motion Detection

Enable

Effective Object Person Vehicle Cycles

Sensitivity ▼

Save Refresh Default

Fig. 7-30

7.3.3. Abnormal Alarm

When the device encounters an abnormality, such as a hard disk issue, network problem, or system failure, an alarm will be triggered.

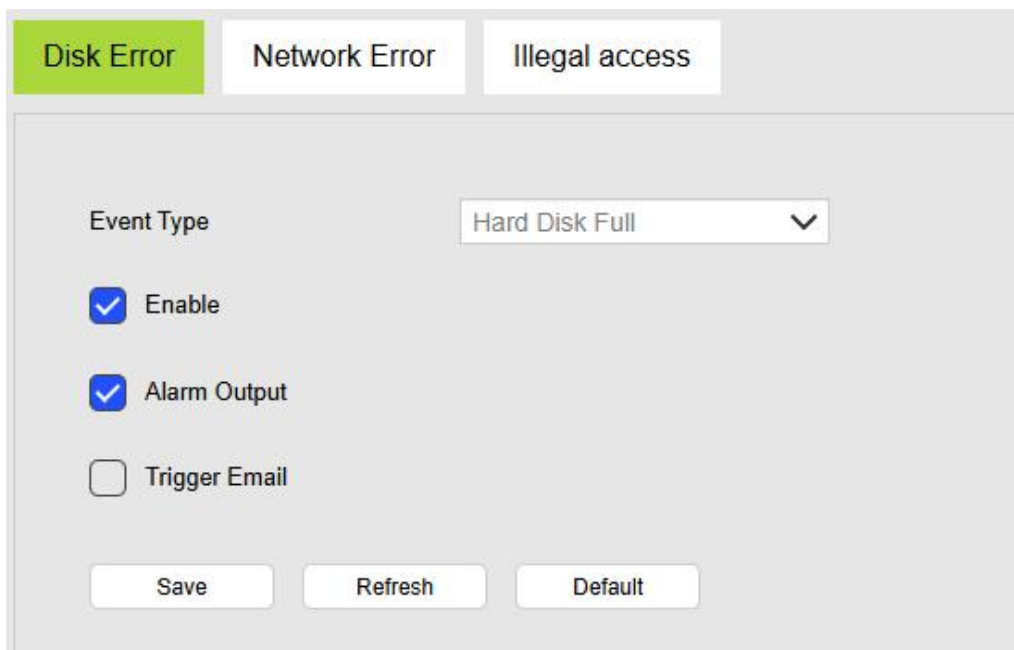
Steps:

- 1) On the configuration page, click "Event > Abnormal Alarm" to enter the settings page.

7.3.3.1. Disk Error

Steps:

- 1) On the Abnormal Alarm setting page, click "Disk Error" tab to enter the settings page (Fig. 7-31).
- 2) Select the event type to configure settings for "Hard Disk Full" and "Hard Disk Error" respectively.
- 3) Click Enable to enable the alarm.
- 4) Configure alarm linkage as needed:
 - Alarm Output: When enabled, an alarm signal will be output to external devices upon event occurrence.
 - Trigger Email: When enabled, an email will be sent to the specified address upon event triggering.
- 5) Click "Save" to save the settings, or click "Default" to restore the default settings. To configure other event types, save the current event settings before selecting another event to configure.



The screenshot shows the "Disk Error" settings page. At the top, there are three tabs: "Disk Error" (highlighted in green), "Network Error", and "Illegal access". Below the tabs, there is a section for "Event Type" with a dropdown menu currently set to "Hard Disk Full". Underneath, there are three checkboxes: "Enable" (checked), "Alarm Output" (checked), and "Trigger Email" (unchecked). At the bottom of the settings area, there are three buttons: "Save", "Refresh", and "Default".

Fig. 7-31

7.3.3.2. Network Error**Steps:**

- 1) On the Abnormal Alarm setting page, click "Network Error" tab to enter the settings page (Fig. 7-32).
- 2) Select the event type to configure settings for "Network Disconnect" and "IP Conflict" separately.

- 3) Click Enable to enable the alarm.
- 4) Configure alarm linkage as needed:
 - Alarm Output: When enabled, an alarm signal will be output to external devices upon event occurrence.
 - Trigger Email: When enabled, an email will be sent to the specified address upon event triggering.
- 5) Click "Save" to save the settings, or click "Default" to restore the default settings. To configure other event types, save the current event settings before selecting another event to configure.

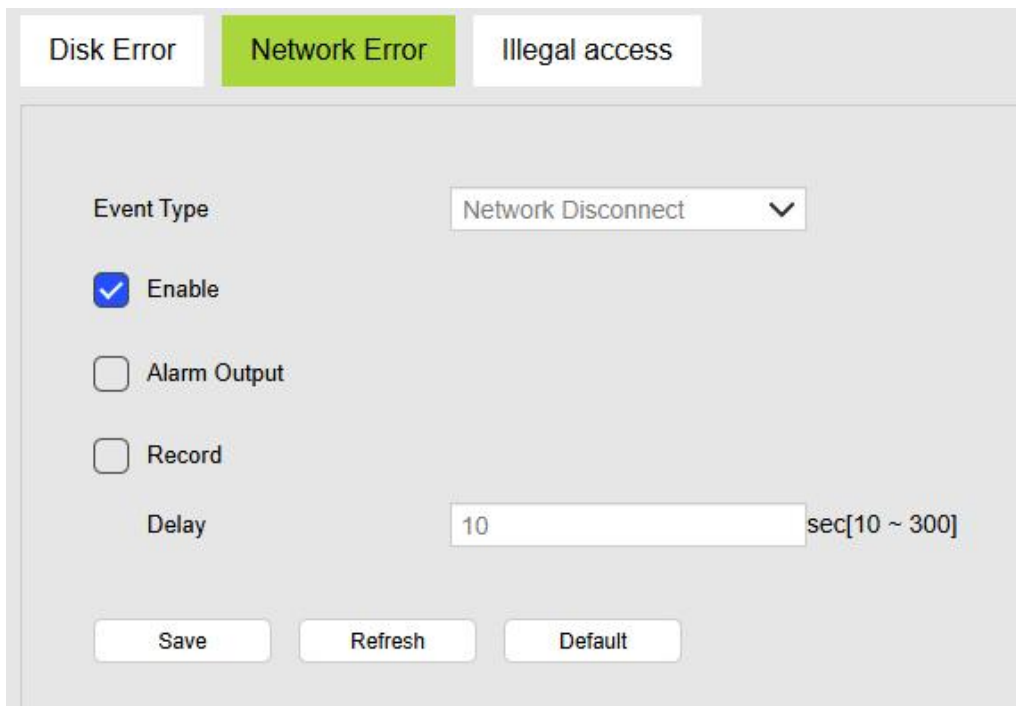


Fig. 7-32

7.3.3.3. Illegal Access

Steps:

- 1) On the Abnormal Alarm setting page, click "Illegal Access" tab to enter the settings page (Fig. 7-33).
- 2) Click Enable to enable the alarm.
- 3) Configure alarm linkage as needed:
 - Allow wrong login numbers: Set the maximum number of incorrect password attempts before login is locked.
 - Lock Duration: Configure the login lock duration (in minutes).
 - Alarm Output: When enabled, an alarm signal will be output to external

devices upon event occurrence.

- Trigger Email: When enabled, an email will be sent to the specified address upon event triggering.
- 4) Click "Save" to save the settings, or click "Default" to restore the default settings.

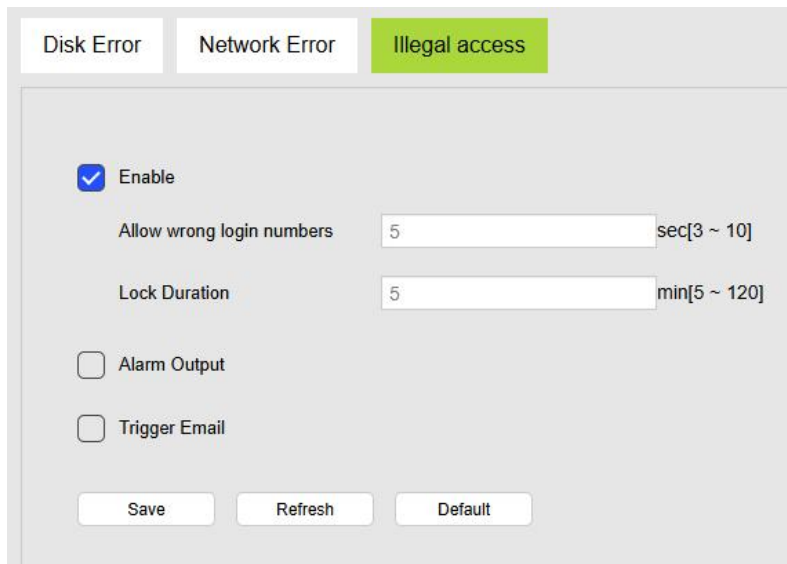


Fig. 7-33

7.3.4. Intelligent Scheme

You can centrally manage and enable or disable intelligent events here.

Steps:

- 1) On the configuration page, click "Event > Intelligent Scheme" to enter the settings page (Fig. 7-34).

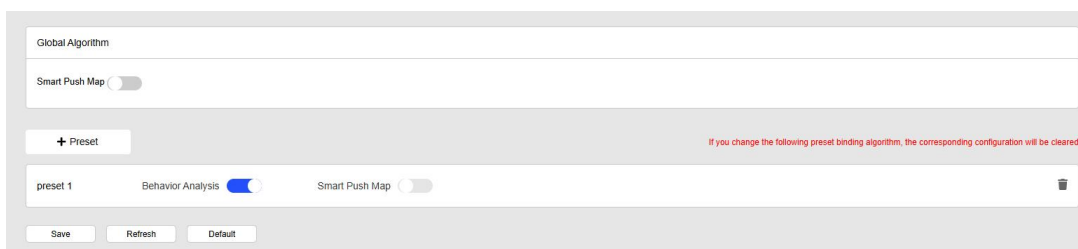




Fig. 7-34

- 2) Click "Preset" to add preset points.
- 3) Click  to activate the corresponding algorithm function.
- 4) Click  to delete the corresponding preset point.
- 5) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.3.5. VCA

Configure VCA rules. When specified targets meet the rules, recording or alarm linkage will be triggered.

Note:

- If the device supports PTZ, preset points must be added in advance.
- Configure the corresponding intelligent analysis functions for preset points in "Event > Intelligent Scheme" beforehand.

Steps:

- 1) On the configuration page, click "Event > VCA" to enter the settings page (Fig. 7-35).

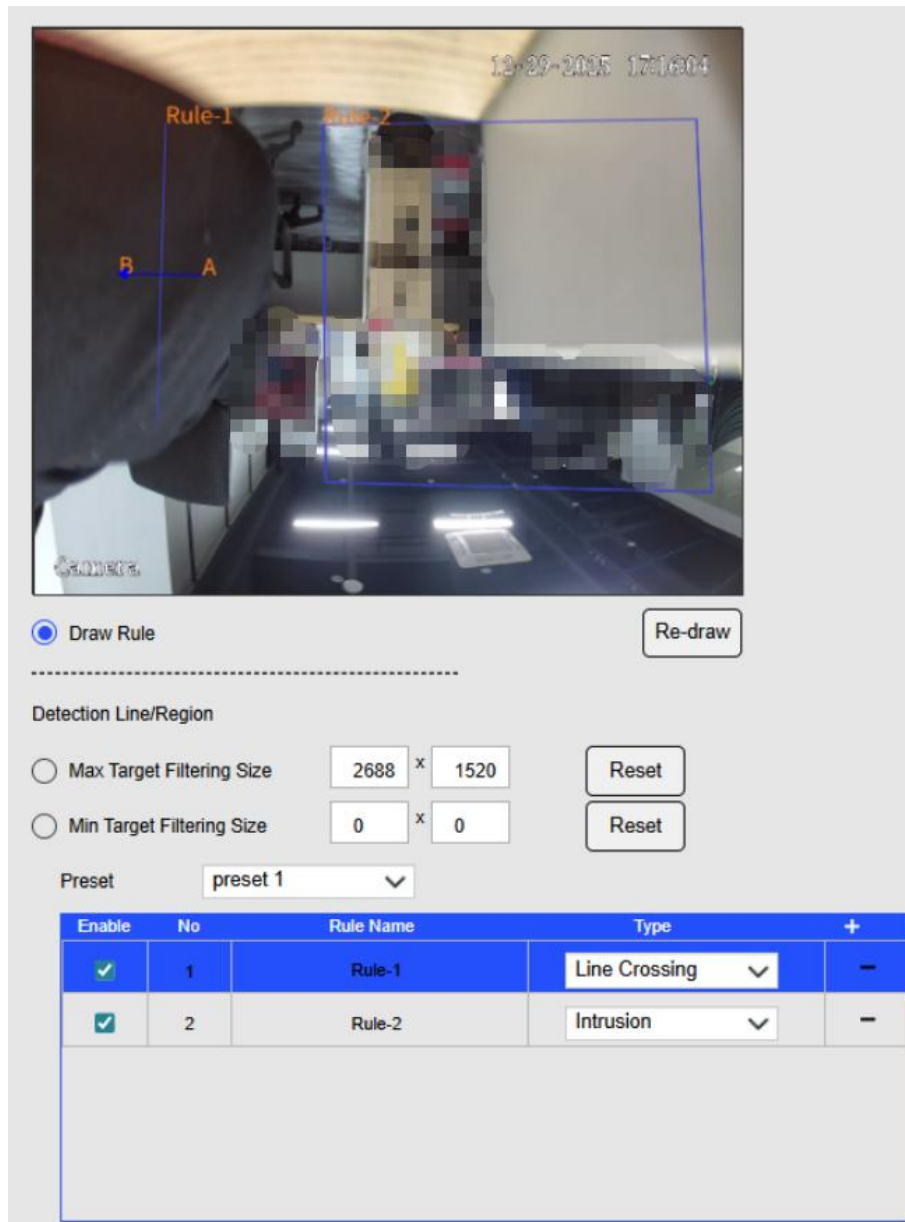




Fig. 7-35

- 2) Select preset points.
- 3) Click  in the rule list to add a rule, then select the rule type. The system currently supports adding Intrusion and Line Crossing:
 - Intrusion: When a target enters, leaves, or appears in the detection area, the system triggers the alarm linkage actions.
 - Line Crossing: When a target crosses the tripwire in the configured direction, the system triggers the alarm linkage actions.
- 4) Target filtering can be configured:
 - Max Target Filtering Size: Sets the maximum size of detectable targets. Targets bigger than this size will be ignored.
 - Min Target Filtering Size: Sets the minimum detectable pixel count. Targets smaller than this pixel count will be ignored.

7.3.5.1. Intrusion

Steps:

- 1) Select the rule type "Intrusion" in the rule list.
- 2) Draw detection area:
 - Draw the detection area in the preview window: Click the left mouse button to add area points, click the right mouse button to finish drawing. After drawing, click "Drawing Finished" to save.
 - Click "Re-draw" to delete the drawn area and redraw it.
- 3) Click  in the rule list to delete the rule.
- 4) Configure Intrusion parameters according to requirements:

Parameter	Instruction
Period	Set the arming period. Detecting specified behaviors of designated targets during this period will trigger an alarm. For details, refer to <u>7.3.1.1. Configure the Period.</u>
Action	Select the specific behaviors of the target to be detected and analyzed: <ul style="list-style-type: none"> • Appear: An alarm is triggered as soon as the target appears in the detection area. • Cross: The target must cross the detection area line to trigger an alarm. Cross behavior can be set as Enter (from outside to inside the area), Leave (from inside to outside the area), or In And Out


	(an alarm is triggered whenever the target crosses the area, regardless of direction).
Sensitivity	Adjust the algorithm's sensitivity to the target's movement. The larger the value, the more easily an alarm will be triggered.
Alarm Target	Select human, vehicle, or Cycles for target recognition. Please select at least one detection target.
Automatic Tracking	When a target is detected, the PTZ will control the camera to follow the target.
Tracking Duration	Set the duration for target tracking; after the specified time, the camera will automatically return to the preset position.
Alarm Output	When enabled, the device will trigger an alarm signal to external devices upon an event.
Post-Alarm Time	Set the duration for the alarm output.
Record	When enabled, the device will start recording when an event occurs.
Post-Record Time	Set the duration to continue recording for a specified period after the alarm triggers, ensuring the entire event is captured.
Snapshot	When enabled, the device will capture snapshots when an event is triggered.
Audio Linkage	When enabled, the device will activate audio linkage upon an event.
Playback Times	Set the number of times the audio is played.
File	Select the audio playback file. You may choose from existing system audio files. To upload a new file, refer to <u>7.1.3.2.Alarm Audio</u> .
Trigger Email	<ul style="list-style-type: none"> • When enabled, an email will be sent to the specified email address when an event is triggered. • To perform this operation, you must first configure your email settings. For details, refer to <u>7.2.4.Email</u>.
FTP Upload	<ul style="list-style-type: none"> • When enabled, alarm-triggered recordings or snapshot images will be automatically uploaded to the FTP server.

	<ul style="list-style-type: none"> To perform this operation, you must first configure FTP settings. For details, refer to <u>7.2.5.FTP Upload</u>.
Log	When an alarm is triggered, a relevant log will generated.

5) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.3.5.2. Line Crossing

Steps:

- 1) Select "Line Crossing" as the rule type in the rule list.
- 2) Draw detection lines:
 - Draw the detection line in the preview window: Click the left mouse button to add the starting and ending points of the line. After drawing, click "Drawing Finished" to save.
 - Click "Re-draw" to clear the drawn area and start over.
- 3) Click  in the rule list to delete the rule.
- 4) Configure Line Crossing parameters according to requirements:

Parameter	Instruction
Period	Set the arming period. Detecting specified behaviors of designated targets during this period will trigger an alarm. For details, refer to <u>7.3.1.1.Configure the Period</u> .
Direction	Sets the minimum duration for which the target must maintain this behavior before triggering an alarm.
Sensitivity	Adjust the algorithm's sensitivity to the target's movement. The larger the value, the more easily an alarm will be triggered.
Alarm Target	Select human, vehicle, or cycles for target recognition. Please select at least one detection target.
Automatic Tracking	When a target is detected, the PTZ will control the camera to follow the target.
Tracking Duration	Set the duration for target tracking; after the

	specified time, the camera will automatically return to the preset position.
Alarm Output	When enabled, the device will trigger an alarm signal to external devices upon an event.
Post-Alarm Time	Set the duration for the alarm output.
Record	When enabled, the device will start recording when an event occurs.
Post-Record Time	Set the duration to continue recording for a specified period after the alarm triggers, ensuring the entire event is captured.
Snapshot	When enabled, the device will capture snapshots when an event is triggered.
Audio Linkage	When enabled, the device will activate audio linkage upon an event.
Playback Times	Set the number of times the audio is played.
File	Select the audio playback file. You may choose from existing system audio files. To upload a new file, refer to 7.1.3.2.Alarm Audio .
Trigger Email	<ul style="list-style-type: none"> • When enabled, an email will be sent to the specified email address when an event is triggered. • To perform this operation, you must first configure your email settings. For details, refer to 7.2.4.Email.
FTP Upload	<ul style="list-style-type: none"> • When enabled, alarm-triggered recordings or snapshot images will be automatically uploaded to the FTP server. • To perform this operation, you must first configure FTP settings. For details, refer to 7.2.5.FTP Upload.
Log	When an alarm is triggered, a relevant log will be generated.

5) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.3.6. Face Detection

Steps:

- 1) On the configuration page, click "Event > Face Detection" to enter the settings page (Fig. 7-36).
- 2) Draw detection area:
 - Draw the detection area in the preview window: Click the left mouse button to add area points, click the right mouse button to finish drawing. After drawing, click "Drawing Finished" to save.
 - Click "Re-draw" to delete the drawn area and redraw it.
- 3) Configure Face Detection parameters according to requirements:

Parameter	Instruction
Max Target Filtering Size	Sets the maximum size of detectable targets. Targets bigger than this size will be ignored.
Min Target Filtering Size	Sets the minimum detectable pixel count. Targets smaller than this pixel count will be ignored.
Face Enhancement	Optimize the captured face images to improve face quality.
Face Exposure	When enabled, the system will automatically control the exposure in the face region.
Face Cutout	Set the size of the cropped face image.
Snapshot Mode	Select Real-time or Quality First Mode: <ul style="list-style-type: none"> • Real-time: Prioritizes real-time performance, quickly capturing and pushing faces once detected. • Quality First: Pushes the captured image with higher clarity and better angle.
Advanced	Set the angle and sensitivity of face capture: <ul style="list-style-type: none"> • Capture Angle Filter: Set the allowable face angles for capture; faces with excessive deviation will not be captured. • Capture Sensitivity: Set the sensitivity of face detection; higher values make it easier to trigger face capture
Snapshot Storage	When checked, captured face images will be saved to the specified storage medium/path.

Panorama Storage	When checked, the original full-frame image containing the face will also be saved.
------------------	---

4) Click "Save" to save the settings, or click "Default" to restore the default settings.

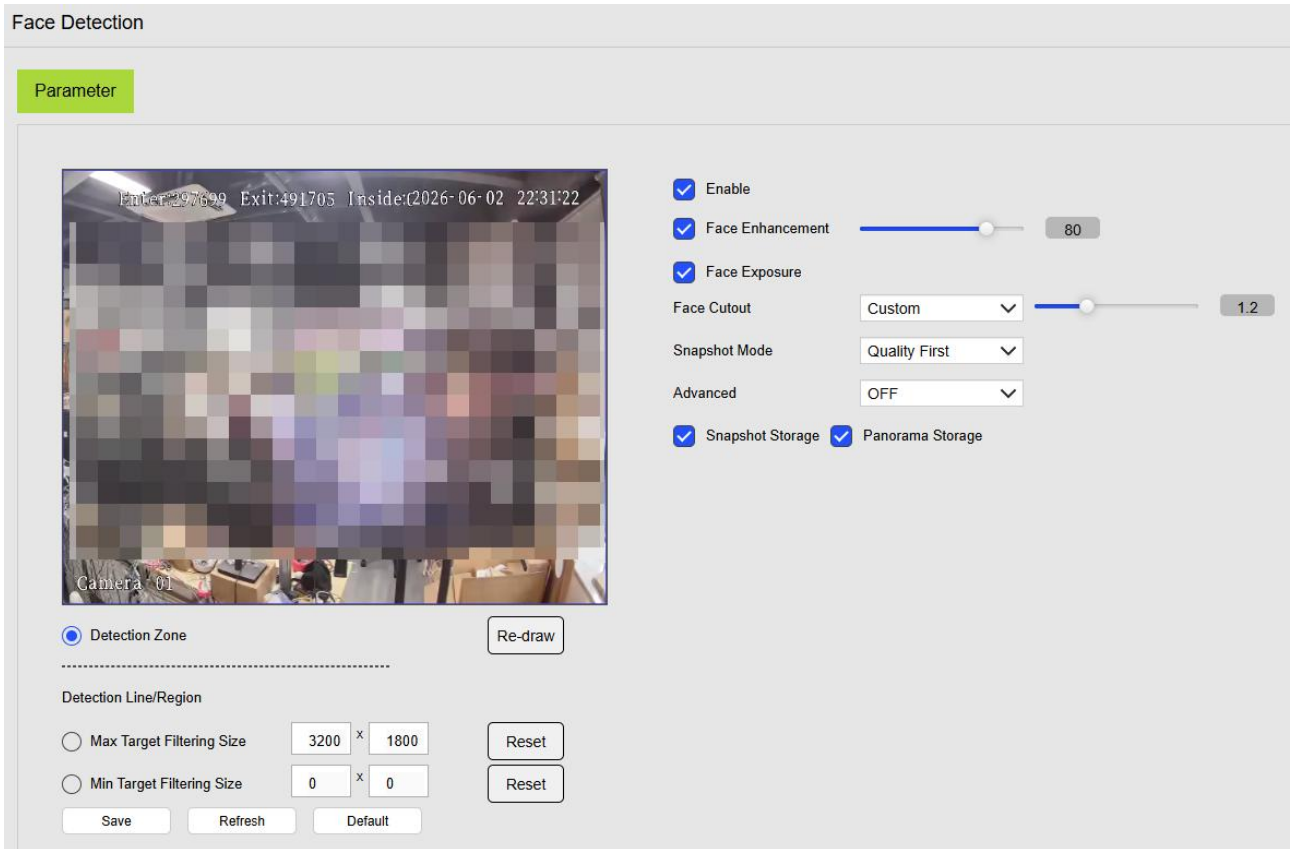


Fig. 7-36

7.3.7. Temperature Alarm

Note:

- This function is only applicable to certain thermal devices. Please refer to the actual interface for availability.

Steps:

- 1) On the configuration page, click "Event > Temperature Alarm" to enter the settings page (Fig. 7-37).
- 2) Click Enable to enable the temperature alarm.
- 3) Configure Temperature Alarm parameters according to requirements:

Parameter	Instruction
Period	Set the arming period. Detecting specified behaviors

	of designated targets during this period will trigger an alarm. For details, refer to <u>7.3.1.1.Configure the Period.</u>
Debounce	Sets the delay duration. When the image fluctuates frequently, the signal is considered valid only after remaining stable for a period of time, avoiding false or repeated triggers.
Record	When enabled, the device will start recording when an event occurs.
Post-Record Time	Set the duration to continue recording for a specified period after the alarm triggers, ensuring the entire event is captured.
Alarm Output	When enabled, the device will trigger an alarm signal to external devices upon an event.
Post-Alarm Time	Set the duration for the alarm output.
Audio Linkage	When enabled, the device will activate audio linkage upon an event.
Playback Times	Set the number of times the audio is played.
File	Select the audio playback file. You may choose from existing system audio files. To upload a new file, refer to <u>7.1.3.2.Alarm Audio.</u>
Warning Light	Click to enable the warning light.
Pattern	Sets the warning light flashing mode.
Intrusion Time	Set the time interval (unit: seconds).
Snapshot	When enabled, the device will capture snapshots when an event is triggered.
Trigger Email	<ul style="list-style-type: none"> • When enabled, an email will be sent to the specified email address when an event is triggered. • To perform this operation, you must first configure your email settings. For details, refer to <u>7.2.4.Email.</u>
FTP Upload	<ul style="list-style-type: none"> • When enabled, alarm-triggered recordings or snapshot images will be automatically uploaded to the FTP server. • To perform this operation, you must first configure FTP settings. For details, refer to

	7.2.5.FTP Upload.
Log	When an alarm is triggered, a relevant log will generated.

4) Click "Save" to save the settings, or click "Default" to restore the default settings.

Temperature Alarm

Temperature Alarm

Enable

Period Setup

Debounce 0 sec[0 ~ 100]

Record 1 2

Recode Delayed 10 sec[10 ~ 300]

Alarm Output

Alarm Delay 10 sec[10 ~ 300]

Audio Linkage

Playback Times 1 [1~3]

File Welcome!.wav

Warning Light

Pattern Flicker

Intrusion Time 10

Snapshot 1 2

Send Email FTP Upload Log

Save
Refresh
Default

Fig. 7-37

7.3.8. Disarming Alert

Steps:

- 1) On the configuration page, click "Event > Disarming Alert" to enter the settings page (Fig. 7-38).

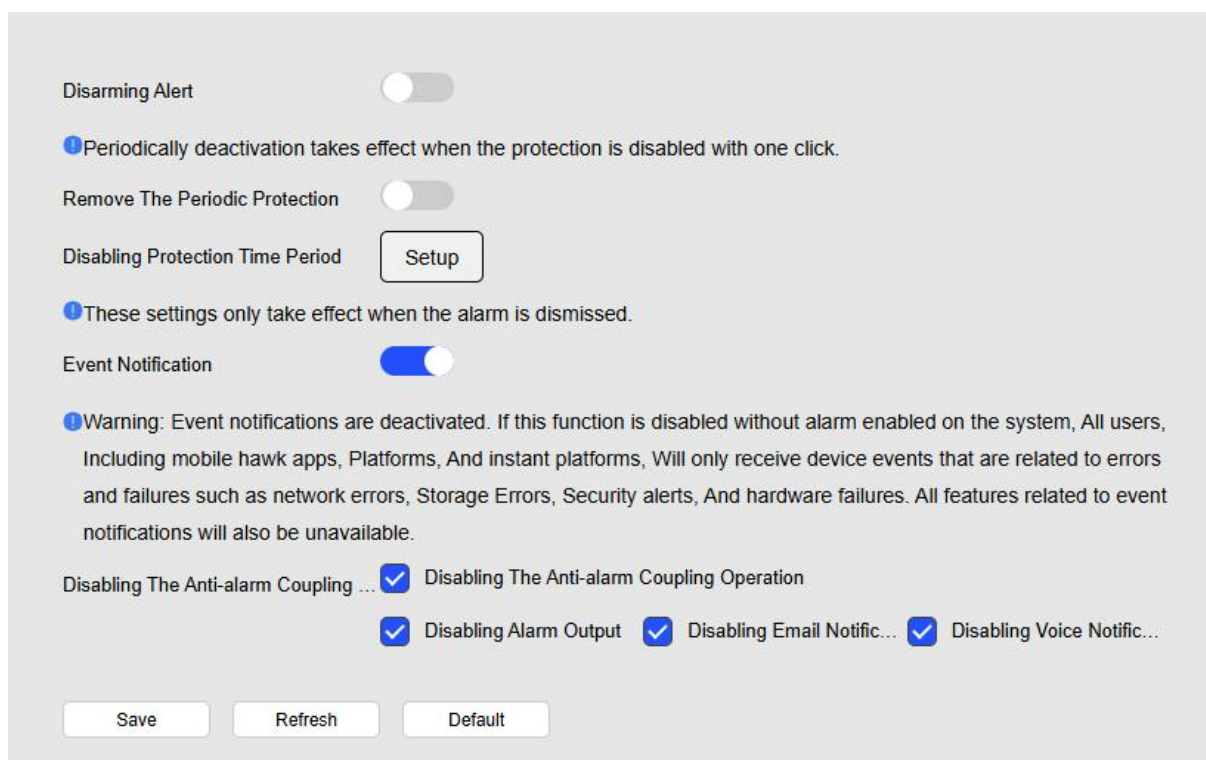


Fig. 7-38

- 2) Configure the parameters according to requirements:

Parameter	Instruction
Disarming Alert	When enabled, cancels all alarm linkage actions.
Remove The Periodic Protection	Set periodic disarming to deactivate protection at scheduled intervals. Note: This feature requires "Disarming Alert" to be disabled.
Disabling Protection Time Period	Set disarming time: <ul style="list-style-type: none"> • Select date, arming time is set according to weekly schedule. • Set start time and end time. Up to 6 time periods can be configured. • Click "Copy" to copy the time period to other dates.
Event Notification	When enabled, all event notifications are disabled during disarmed time periods, except for "Abnormal

		Alarm" notifications.
Disabling Anti-alarm Operation	The Coupling	Disables the corresponding alarm linkage actions.

- 3) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.4. Temp Measuring Settings

Set temperature measurement rules, temperature comparison, and global settings. When the temperature meets preset conditions, the system will trigger linkage alarm.

Note:

- This function is only applicable to certain thermal devices. Please refer to the actual interface for availability.



7.4.1. Rule Temperature Detection

7.4.1.1. Rule Settings

7.4.1.1.1. Parameter Configuration

Temperature measurement areas and rules for the thermal image can be configured on this page.

Steps:

- 1) On the configuration page, click "Temp Measuring Settings > Rule Temperature Detection > Rule Settings > Parameter Configuration" to enter the settings page (Fig. 7-39).
- 2) In the rule list, click  to create a rule and select the rule type. Supported rule types include point, line, polygon, rectangle, and ellipse; Double-click the rule name to customize it; and click  to delete a rule.
- 3) Draw detection area:
 - Draw the detection area in the preview window: Click the left mouse button to add area points, click the right mouse button to finish drawing. After drawing, click "Drawing Finished" to save.
 - Click "Re-draw" to delete the drawn area and redraw it.
- 4) Click a specific rule in the rule list to configure parameters, each rule can be set individually:

Parameter	Instruction
Alarm Output	When enabled, the system will trigger alarm outputs.
Alarm Results	Sets the temperature evaluation method for triggering alarms: <ul style="list-style-type: none"> ● When the rule type is "Point", average temperature and temperature slope can be set. ● When the rule type is line, polygon, rectangle, or ellipse, highest temperature, lowest temperature, average temperature, temperature slope, and temperature difference can be set.
Alarm Conditions	Allows alarms to be triggered when the temperature is above, below, or match to the specified value.
Alarm Threshold Temperature	Sets the temperature threshold for triggering alarms, with a range of 0.1 to 600°C.
Temperature Error	Sets the tolerance range. If the temperature variation is within the tolerance range of the alarm threshold, it will be treated as meeting the alarm condition.
Temperature Duration	Sets the duration for which the temperature condition must be met before triggering an alarm.

5) Click "Save" to save the settings, or click "Default" to restore the default settings.

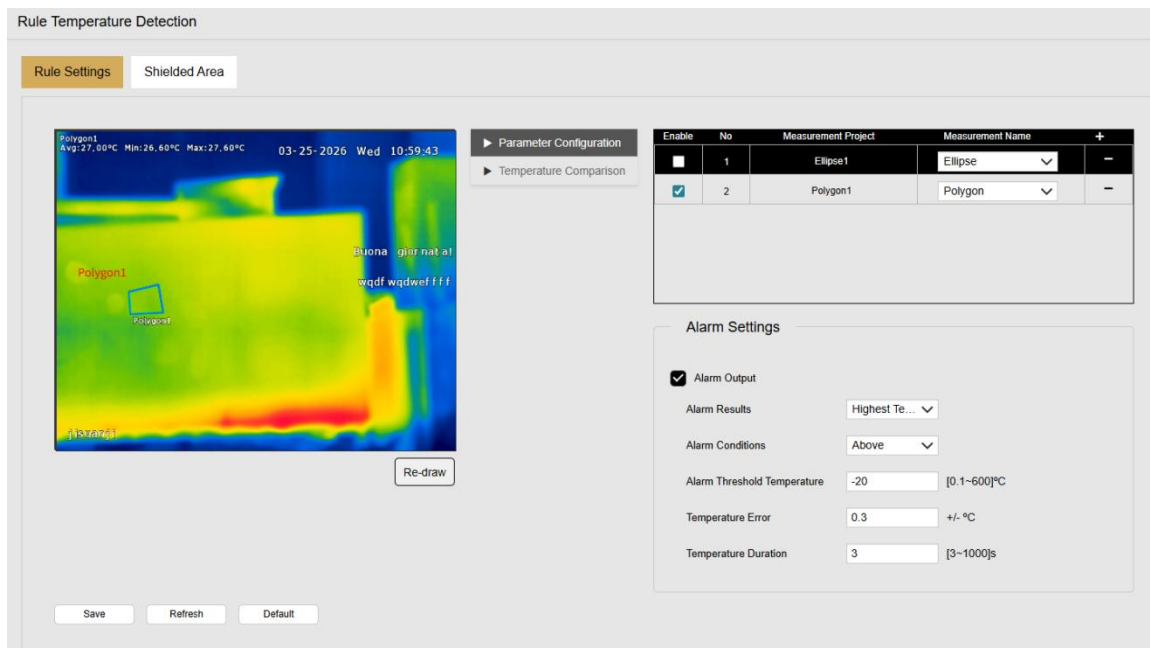


Fig. 7-39

7.4.1.1.2. Temperature Comparison

Note:

- This function requires at least two rules to be configured in advance on the "Parameter Configuration" page before temperature comparison can be set.

Steps:

- On the configuration page, click "Temp Measuring Settings > Rule Temperature Detection > Rule Settings > Temperature Comparison" to enter the settings page (Fig. 7-40).

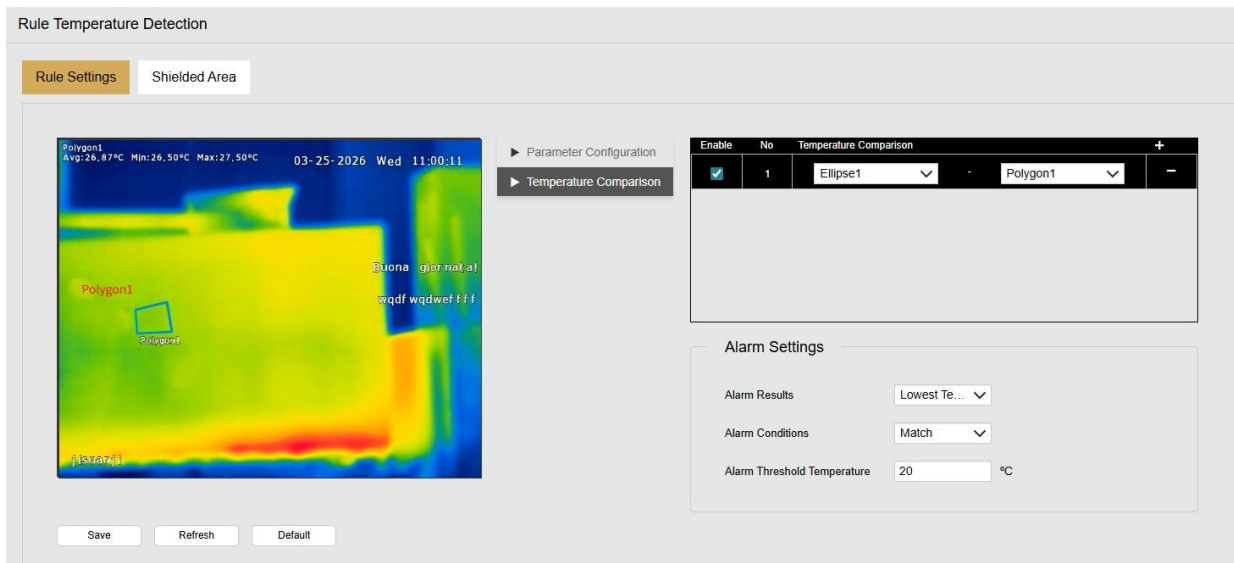


Fig. 7-40

- In the rule list, click **+** to create a comparison rule and select the comparison target; click **-** to delete a rule.
- Click a specific comparison rule in the rule list to configure parameters, each rule can be set individually:

Parameter	Instruction
Alarm Results	Sets the temperature evaluation method for triggering alarms: highest temperature, lowest temperature, average temperature, temperature slope, and temperature difference can be set.
Alarm Conditions	Allows alarms to be triggered when the temperature is above, below, or match to the specified value.
Alarm Threshold Temperature	Sets the temperature threshold for triggering alarms,

with a range of 0.1 to 600°C.

- 4) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.4.1.2. Shielded Area

Shielded areas for temperature measurement can be configured here to eliminate false trigger sources.

Steps:

- 1) On the configuration page, click "Temp Measuring Settings > Rule Temperature Detection > Shielded Area" to enter the settings page (Fig. 7-41).

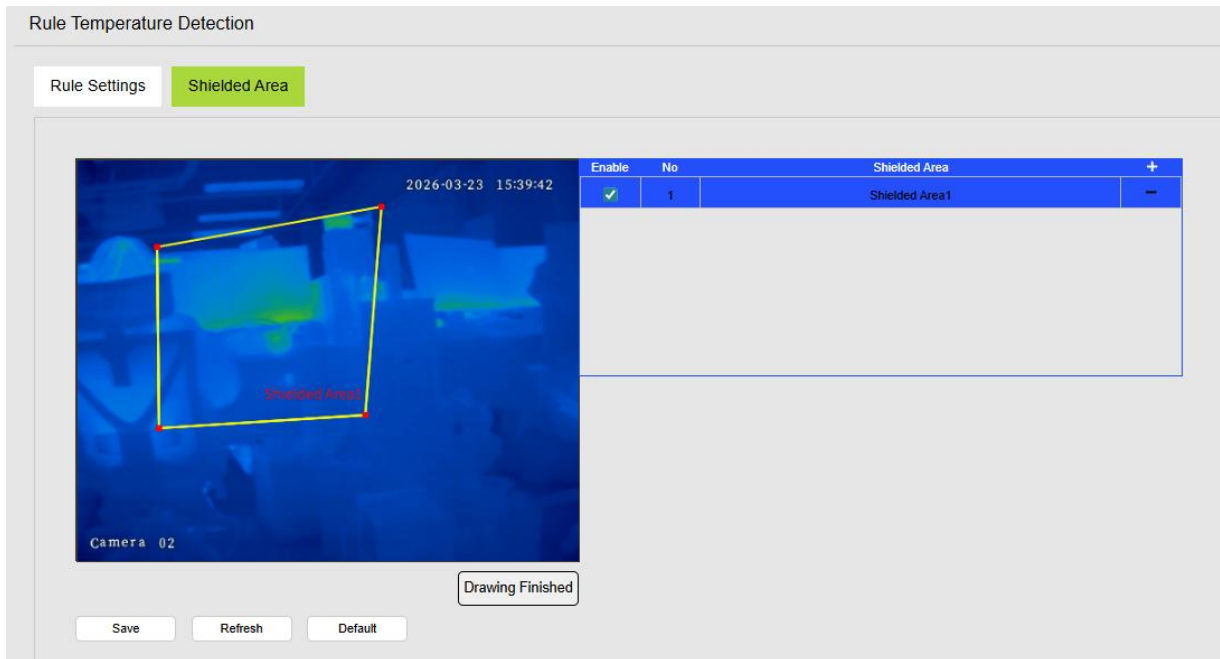


Fig. 7-41

- 2) In the list, click **+** to create a shielded area; click **-** to delete the area.
- 3) Draw shielded area:
 - Draw the detection area in the preview window: Click the left mouse button to add area points, click the right mouse button to finish drawing. After drawing, click "Drawing Finished" to save.
 - Click "Re-draw" to delete the drawn area and redraw it.
- 4) Click "Save" to save the settings, or click "Default" to restore the default

settings.

7.4.2. Global Settings

After enabling Global Settings, the temperature measurement function takes effect, the global parameters can be configured on this page.

Steps:

- 1) On the configuration page, click "Temp Measuring Settings > Global Settings" to enter the settings page (Fig. 7-42).

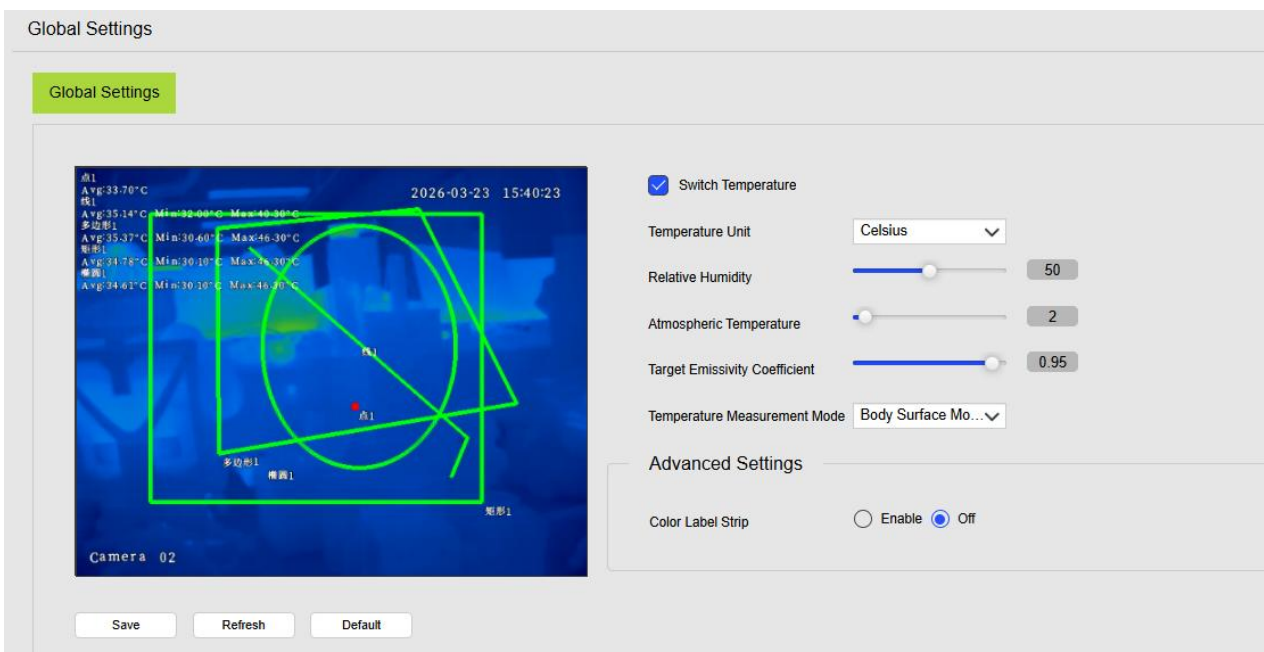


Fig. 7-42

- 2) Configure the parameters according to requirements:

Parameter	Instruction
Switch Temperature	When enabled, the temperature measurement rules take effect, and the configured rules will be displayed in the live view window.
Temperature Unit	Sets the temperature unit, including Celsius or Fahrenheit.
Relative Humidity	Sets the relative humidity of the installation environment, with a range of 0% to 100%.
Atmospheric Temperature	Sets the ambient temperature of the installation

	environment, with a range of 0 to 50°C.
Target Emissivity Coefficient	Sets the emissivity of the target object, with a range of 0.01 to 1.
Temperature Measurement Mode	Sets the temperature measurement mode (Body Temperature Mode or Body Surface Mode) to improve accuracy under different modes.
Color Label Strip	When enabled, a temperature color scale will be displayed in the live view to visually indicate the mapping between temperature and color.

- 3) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.5. Smart Thermal Imaging

Note:

- This function is only applicable to certain thermal devices. Please refer to the actual interface for availability.

7.5.1. Cold & Hot Spot Tracking

After enabling the Hot & Cold Spot Tracking function, the maximum and minimum temperatures in the thermal imaging channel can be viewed. Relevant parameters can be configured on this page. When the temperature is higher/lower than the preset value, an alarm will be triggered.

Steps:

- 1) On the configuration page, click "Smart Thermal Imaging > Cold & Hot Spot Tracking" to enter the settings page (Fig. 7-43).
- 2) Click Enable to enable Cold & Hot Spot Tracking.

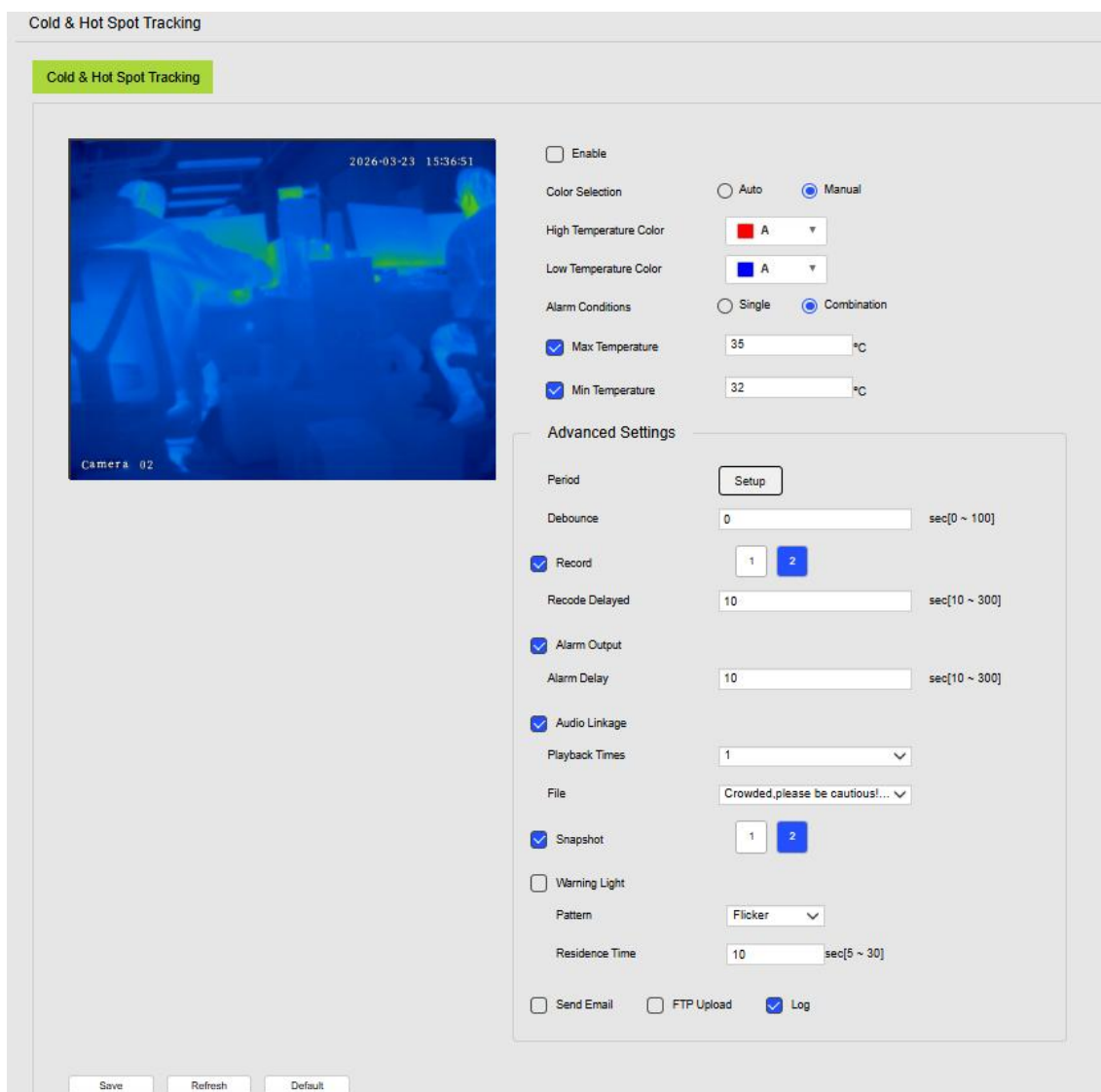


Fig. 7-43

3) Configure the parameters according to requirements:

Parameter	Instruction
Color Selection	Sets the display color of hot and cold spots in the live view, with options for Auto or Manual.
High Temperature Color	Sets the display color of the highest temperature point in the live view.
Low Temperature Color	Sets the display color of the lowest temperature point in the live view.
Alarm Conditions	Sets the alarm triggering condition, with options for Single or Combined: <ul style="list-style-type: none"> ● Single: An alarm will triggered when the maximum temperature exceeds the preset

	<p>value or the minimum temperature falls below the preset value.</p> <ul style="list-style-type: none"> ● Combined: An alarm will triggered only when the maximum temperature exceeds the preset value and the minimum temperature falls below the preset value.
Max Temperature	Sets the maximum temperature threshold.
Min Temperature	Sets the minimum temperature threshold.
Period	Set the arming period. Detecting specified behaviors of designated targets during this period will trigger an alarm. For details, refer to <u>7.3.1.1.Configure the Period.</u>
Debounce	Sets the delay duration. When the image fluctuates frequently, the signal is considered valid only after remaining stable for a period of time, avoiding false or repeated triggers.
Record	When enabled, the device will start recording when an event occurs.
Post-Record Time	Set the duration to continue recording for a specified period after the alarm triggers, ensuring the entire event is captured.
Alarm Output	When enabled, the device will trigger an alarm signal to external devices upon an event.
Post-Alarm Time	Set the duration for the alarm output.
Audio Linkage	When enabled, the device will activate audio linkage upon an event.
Playback Times	Set the number of times the audio is played.
File	Select the audio playback file. You may choose from existing system audio files. To upload a new file, refer to <u>7.1.3.2.Alarm Audio.</u>
Warning Light	Click to enable the warning light.
Pattern	Sets the warning light flashing mode.
Intrusion Time	Set the time interval (unit: seconds).
Snapshot	When enabled, the device will capture snapshots when an event is triggered.
Trigger Email	<ul style="list-style-type: none"> ● When enabled, an email will be sent to the specified email address when an event is

	<p>triggered.</p> <ul style="list-style-type: none"> To perform this operation, you must first configure your email settings. For details, refer to <u>7.2.4.Email</u>.
FTP Upload	<ul style="list-style-type: none"> When enabled, alarm-triggered recordings or snapshot images will be automatically uploaded to the FTP server. To perform this operation, you must first configure FTP settings. For details, refer to <u>7.2.5.FTP Upload</u>.
Log	<p>When an alarm is triggered, a relevant log will generated.</p>

- 4) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.6. Storage

On this page, you can view disk information, capacity, and status, and perform disk formatting operations.

7.6.1. Schedule

Configure device recording schedules, snapshot schedules, and storage paths.

7.6.1.1. Record Plan

Steps:

- 1) On the configuration page, click "Storage > Schedule >Record Plan " to enter the settings page (Fig. 7-44).
- 2) Set the stream type, available options are Mainstream and Substream.
- 3) Set the Pre-record time, which allows the device to record a period of video before an event is triggered, ensuring the completeness of the recorded event.
- 4) Check the recording type and set the schedule:
 - You can set different recording times for each type daily. Different colors represent different types of armed time periods.
 - Click a color block to set the start and end times for that recording type (Fig. 7-45).

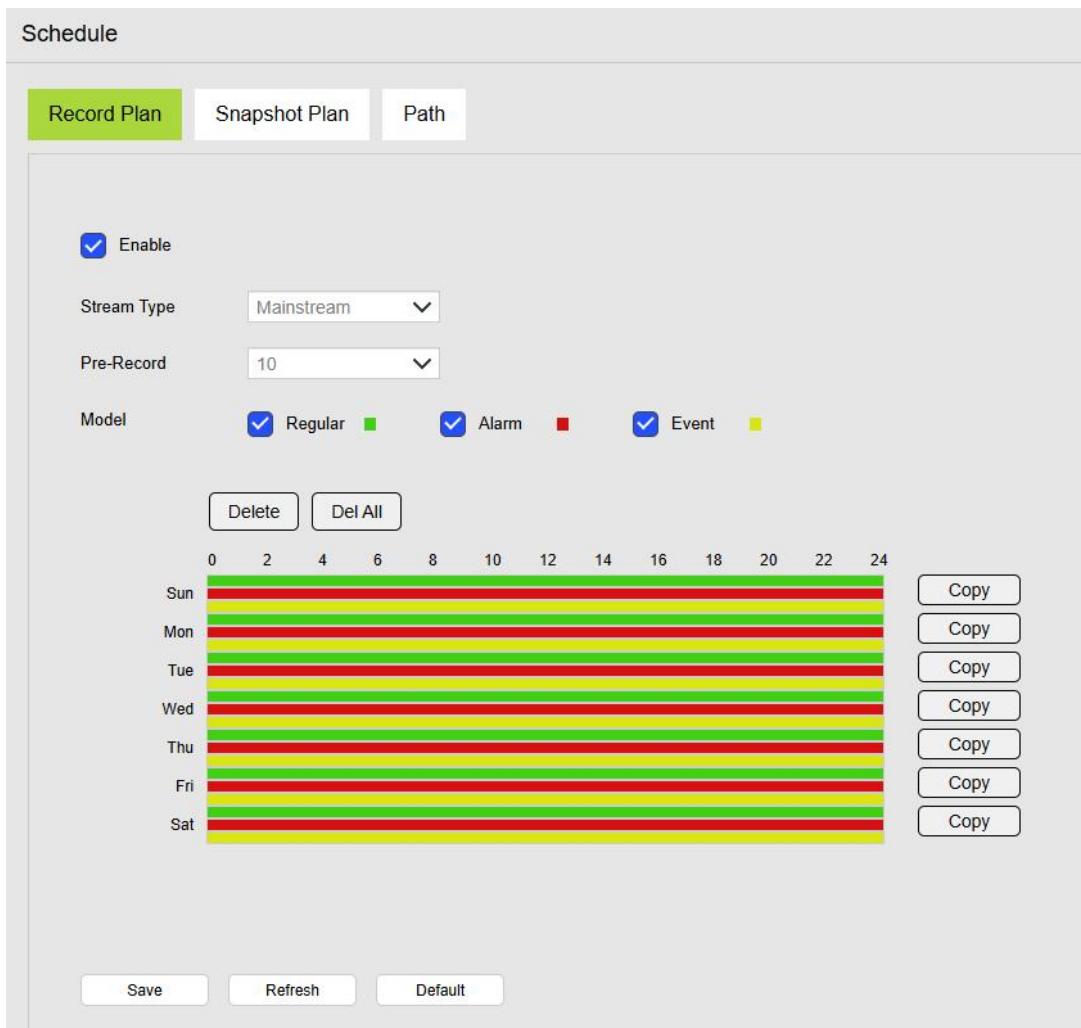


Fig. 7-44

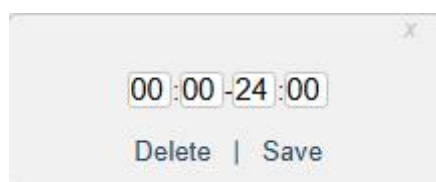


Fig. 7-45

- Click and drag the mouse in the blank area to create a new time period (Fig. 7-46).

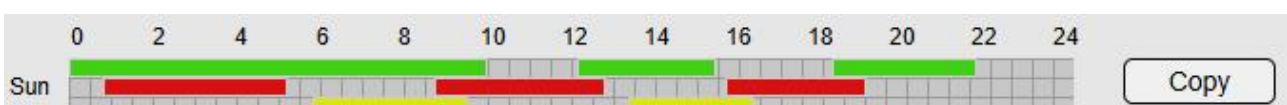


Fig. 7-46

- Click "Copy" to copy the schedule for this date to other dates.

- 5) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.6.1.2. Snapshot Plan

Steps:

- 1) On the configuration page, click "Storage > Schedule > Snapshot Plan " to enter the settings page (Fig. 7-47).
- 2) Set the snapshot interval. For continuous snapshots, this interval controls the time between consecutive captures.
- 3) Set the snapshot storage method:
 - Save Storage: Stores snapshots on a disk. This operation requires a disk to be connected to the device.
 - Send FTP: Upload snapshots to an FTP server. This operation requires prior FTP upload configuration. For details, refer to **7.2.5.FTP Upload**.
 - Trigger Email: Send captured images to an email address. This operation requires prior email configuration. For details, refer to **7.2.4.Email**.

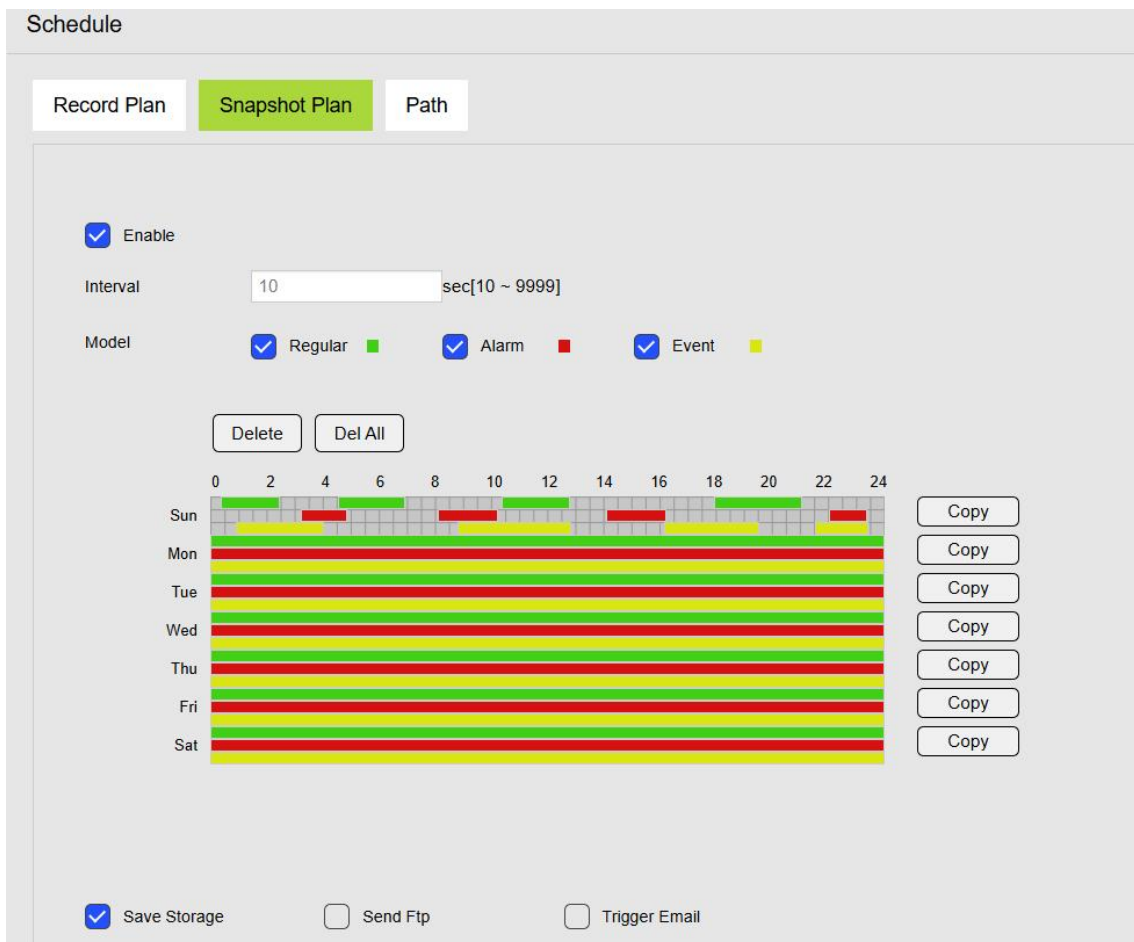


Fig. 7-47

4) Select recording types and set schedules:

- You can set different recording times for each type daily. Different colors represent time periods for different armed modes.
- Click a color block to set the start and end times for that recording type (Fig. 7-48).

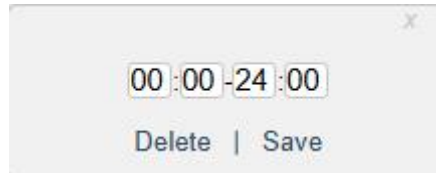


Fig. 7-48

- Click and drag the mouse in the blank area to create a new time period (Fig. 7-49).

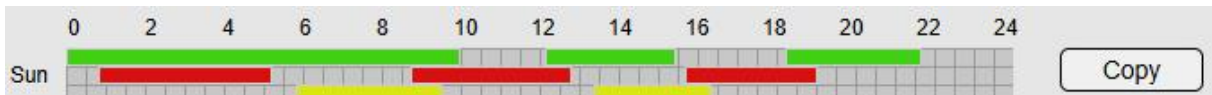


Fig. 7-49

- Click "Copy" to copy the schedule for this date to other dates.
- 5) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.6.1.3. Path

Set the local storage path for recordings.

Steps:

- 1) On the configuration page, click "Storage > Schedule > Path" to enter the settings page (Fig. 7-50).

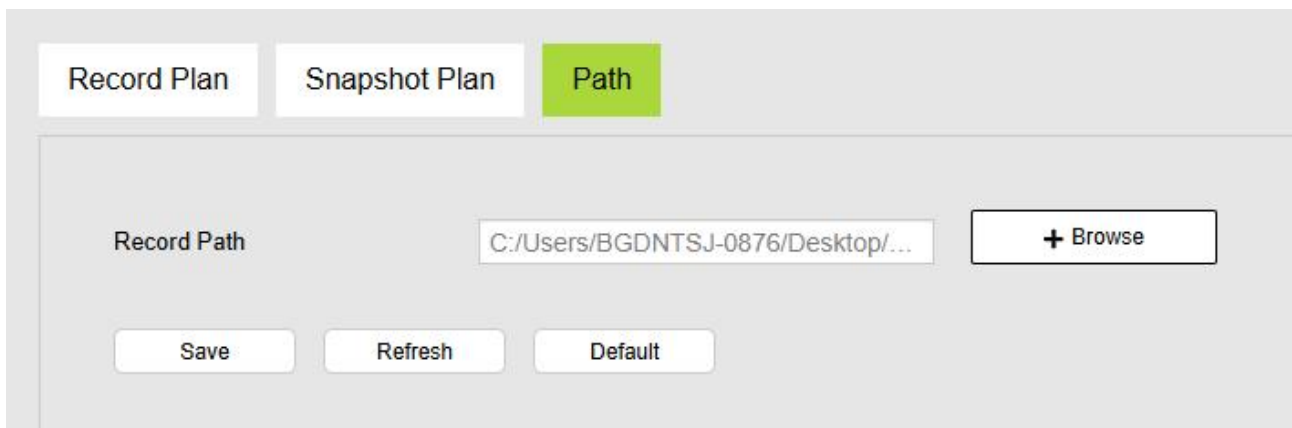



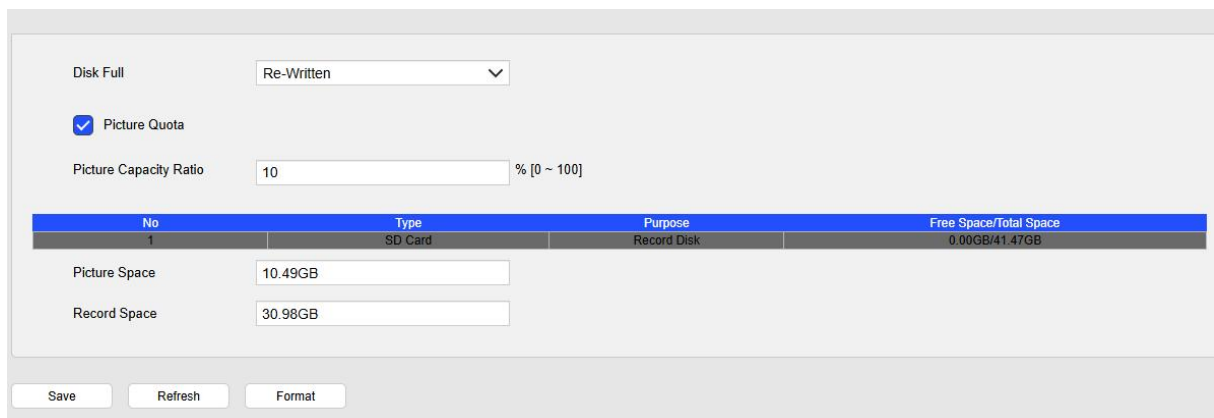
Fig. 7-50

- 2) Click  to select a local computer path.
- 3) Click "Save" to save the settings, or click "Default" to restore the default settings.
- 4) After configuration, recordings will be saved on the local computer.

7.6.2. Storage Management

Steps:

- 1) On the configuration page, click "Storage > Storage Management " to enter the settings page (Fig. 7-51).
- 2) You can view Disk Type, Purpose, Free Space/Total Space in the list. Click the corresponding disk to view the memory usage of images and recordings.



No	Type	Purpose	Free Space/Total Space
1	SD Card	Record Disk	0.00GB/41.47GB

Fig. 7-51

- 3) Configure storage strategy for disk full:
 - Stop: When disk storage space is full, the system will stop recording.
 - Re-Written: When disk storage space is full, the system will automatically overwrite the oldest recording files to ensure continuous recording.
- 4) Check "Picture Quota" to set the image capacity ratio.
- 5) Click "Save" to save the settings.
- 6) Select the disk, click "Format", then click "Confirm" to format the disk.

7.7. PTZ Management

Configure the PTZ camera's surveillance mode and scheduled tasks.

7.7.1. Keep Watch

After enabling Keep Watch mode, the PTZ will automatically return to the preset monitoring state when idle or after completing an operation.

Steps:

- 1) On the configuration page, click "PTZ Management > PTZ > Keep Watch" to enter the settings page (Fig. 7-52).

Fig. 7-52

- 2) Click Enable to enable Watch Mode.
- 3) Set the "Waiting Time" to define how long the PTZ waits after becoming idle or completing an operation before entering Keep Watch mode.
- 4) Configure the Watch Mode type by selecting from preset options: Preset, Patrol, Automatic Scanning, Mode Path.
- 5) Click "Save" to save the settings, or click "Default" to restore the default settings.

(i) Note:




- Configure the desired Keep Watch actions (e.g., preset, patrol) for the PTZ camera on the preview page beforehand. For details, refer to [4.3.PTZ](#).

7.7.2. Scheduled Tasks

Configure scheduled tasks for the PTZ to execute different actions at various time intervals.

Steps:

- 1) On the configuration page, click "PTZ Management > PTZ > Scheduled Tasks" to enter the settings page (Fig. 7-53).
- 2) Click Enable Scheduled Tasks to enable Scheduled Tasks.

- 3) Different colored time blocks on the timeline represent distinct task types. Click a colored block to configure the PTZ type, start time, and end time for that time period.
- 4) Click  to clear all schedules.
- 5) Click a scene type until the text turns green, then click and drag in the blank area of the timeline to create a new time block.
- 7) Click  to add the same scene time period to the timeline. Hold and drag the left or right edge of the time period to adjust the start and end times.
- 6) Click  to copy the scheduled time plan from one day to another.
- 7) Click "Save" to save the settings, or click "Default" to restore the default settings.

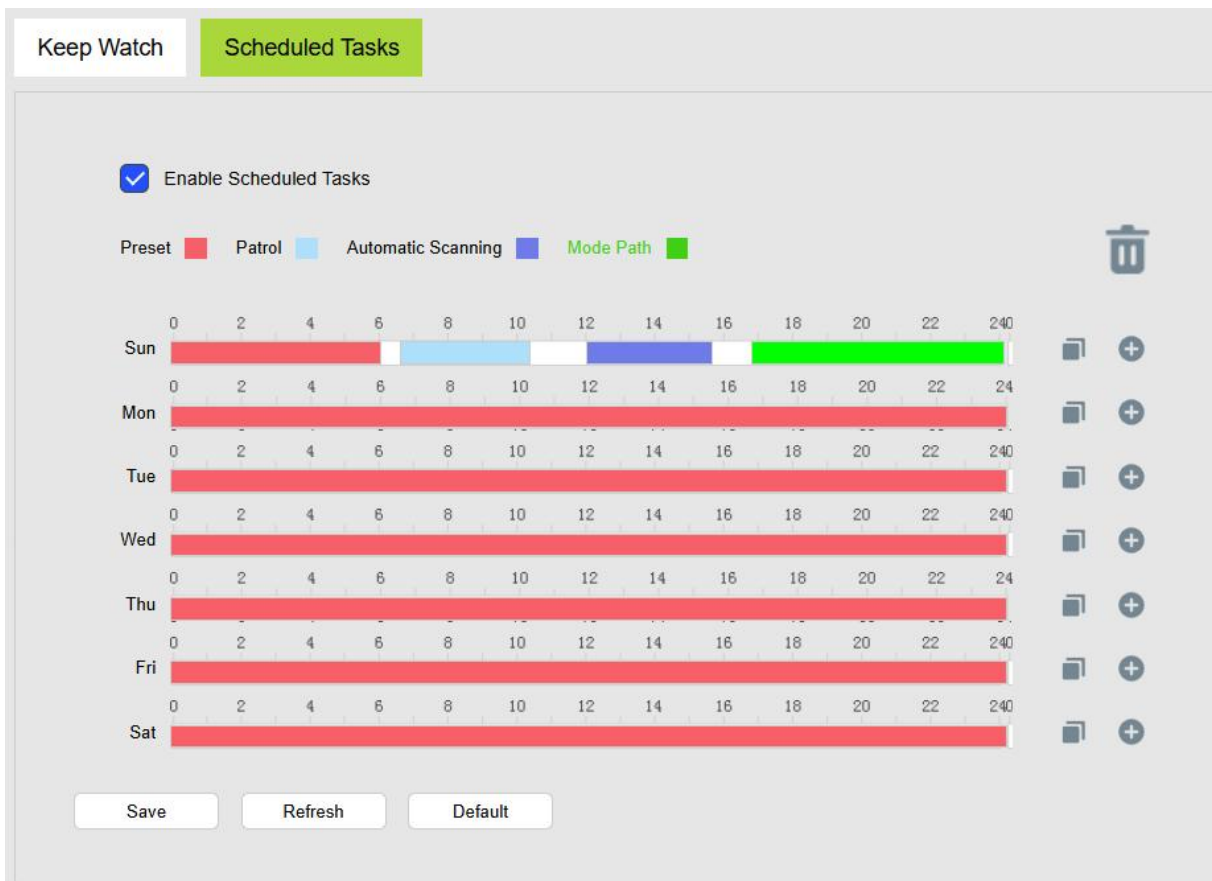


Fig. 7-53

7.8. System

Set basic information such as device name, language, and time.

7.8.1. General

Configure basic system information, including device name, language, and time settings.

7.8.1.1. General

Steps:

- 1) On the configuration page, click "System > General > General" to enter the settings page (Fig. 7-54).

Fig. 7-54

- 2) Configure system parameters according to requirements:

Parameter	Instruction
Device Name	Modify the device name as needed.
Device Location	Set the region where the device is located.
Language	<p>Set the system language.</p> <p>Note:</p> <p>The available language options vary by device. Please configure according to the actual device capabilities.</p>
Automatic Logout	Enable or disable Web Auto Logout. When enabled,

	the web interface will automatically log out after a period of inactivity.
Monitor Time	After enabling Web Auto Logout, set the automatic logout time.

- 3) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.8.1.2. Date&Time

Steps:

- 1) On the configuration page, click "System > General > Date&Time" to enter the settings page (Fig. 7-55).

Fig. 7-55

- 2) Configure Date&Time parameters according to requirements:

Parameter	Instruction
Date Format	Set the arrangement format for year, month, and

	day.
Time Format	Set the time format, with options for 24-Hour or 12-Hour.
Time Zone	Select the time zone from the dropdown menu.
System Time	<ul style="list-style-type: none"> • After selecting a time zone, the system time will automatically update to the selected time zone. • You can manually adjust the time as needed. • Click "Time Sync" to update the time zone time.
NTP	When enabled, the device will obtain standard time from a network time server via NTP (Network Time Protocol) and automatically synchronize the system time.
Sync Type	Set the synchronization type, with options for Custom or Auto.
Server IP	Enter the NTP server IP address.
Port	Enter the NTP server port.
Interval	Set the automatic time synchronization interval. The system will synchronize the time once at the set interval.

3) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.8.1.3. DST

Some countries or regions observe Daylight Saving Time (DST), which advances the clock by one hour during the summer and sets it back by one hour after the summer period ends.

Steps:

- 1) On the configuration page, click "System > General > DST" to enter the settings page (Fig. 7-56).
- 2) Click DST to enable DST.
- 3) Set the start and end dates for Daylight Saving Time.
- 4) Set the Daylight Saving Time Offset, with options of 30 minutes, 60 minutes, 90 minutes, and 120 minutes.
 - If the daylight saving time offset is set to 60 minutes, the system time will be increased by 1 hour when daylight saving time begins; when daylight saving time ends, the system time will be decreased by 1 hour.

- 5) Click "Save" to save the settings, or click "Default" to restore the default settings.

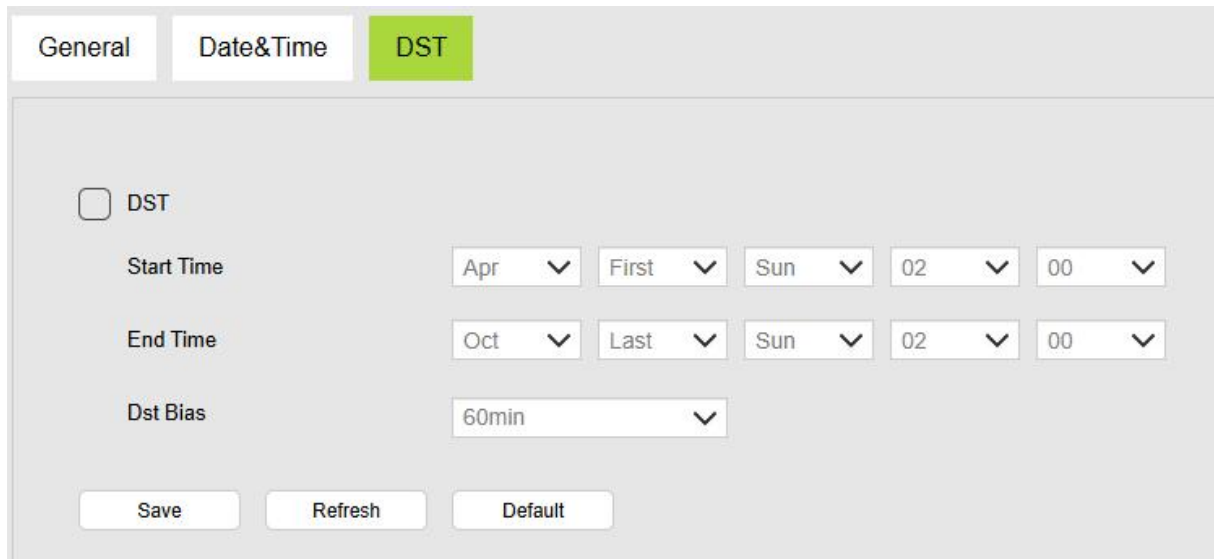


Fig. 7-56

7.8.2. Display Mode


7.8.2.1. Privacy Masking

Add masking areas to the monitoring screen as needed.

Steps:

- 1) On the configuration page, click "System > Display Mode > Privacy Masking" to enter the settings page (Fig. 7-57).
- 2) Click Enable to enable the masking.

Optional:

- If the device supports PTZ, adjust the pan/tilt position or select a preset point to move the camera to the desired location.
- 3) Click "Add" to create a masking area, where you can set the color and shielding ratio; adjust the size and position of the masking area in the preview window.
 - 4) Click  to remove the masking area.
 - 5) Click "Save" to save the settings, or click "Default" to restore the default settings.

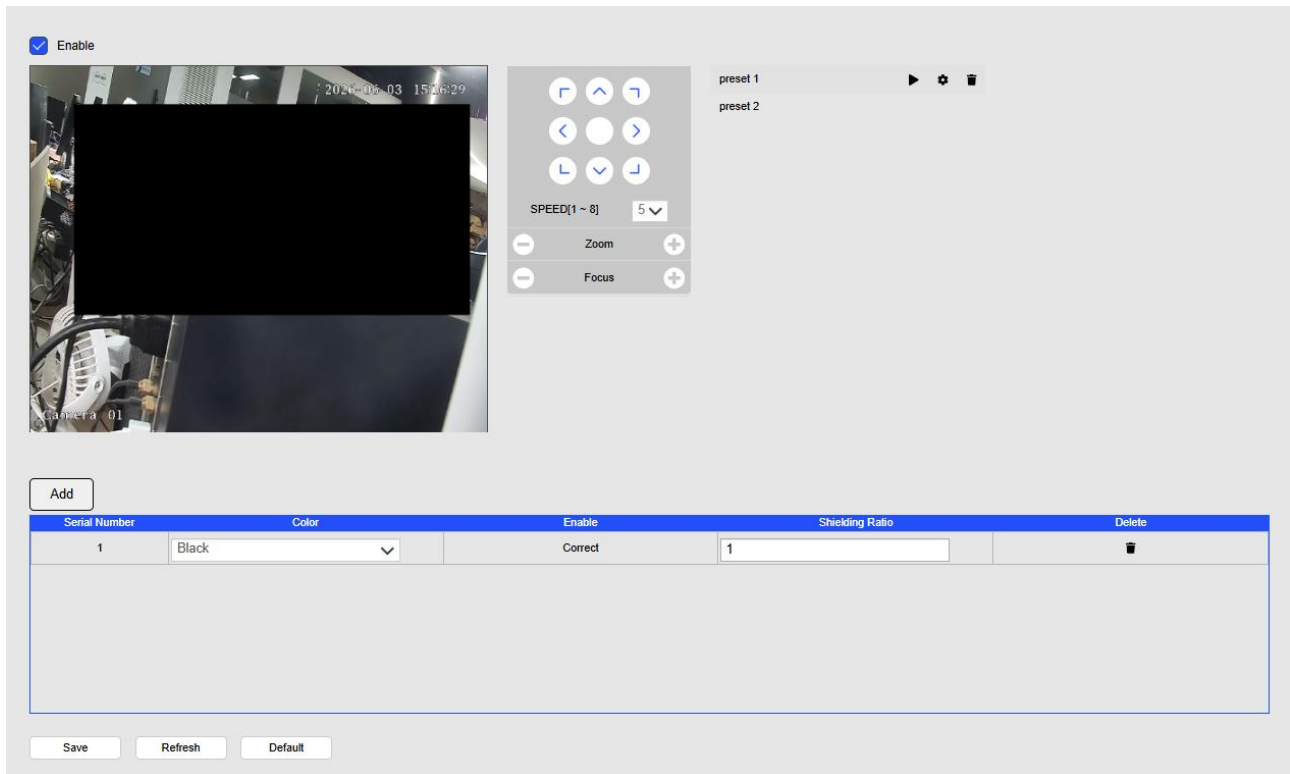


Fig. 7-57

7.8.3. Account

Manage user and group information here. You can add, delete, modify, search users and groups, configure corresponding permissions, and enhance device security.

7.8.3.1. User

Steps:

- 1) On the configuration page, click "System > Account > User" to enter the settings page (Fig. 7-58).
- 2) Click "Add User" to open the editing page and create a new user (Fig. 7-59).
- 3) Enter the new user's Username, Current Login Password, Password, Confirm Password, Group, Note (optional), Permission (please choose at least 1 permission).
- 4) Click "Save" to save the settings.
- 5) Click in the user list to edit user information, or click to delete the user. The admin user cannot be modified or deleted.

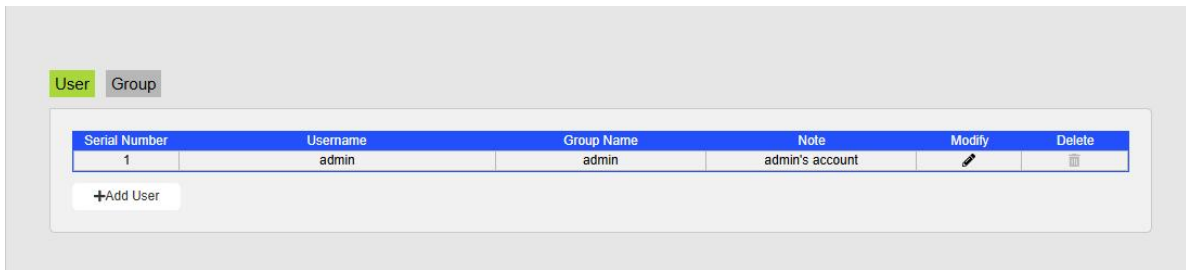


Fig. 7-58

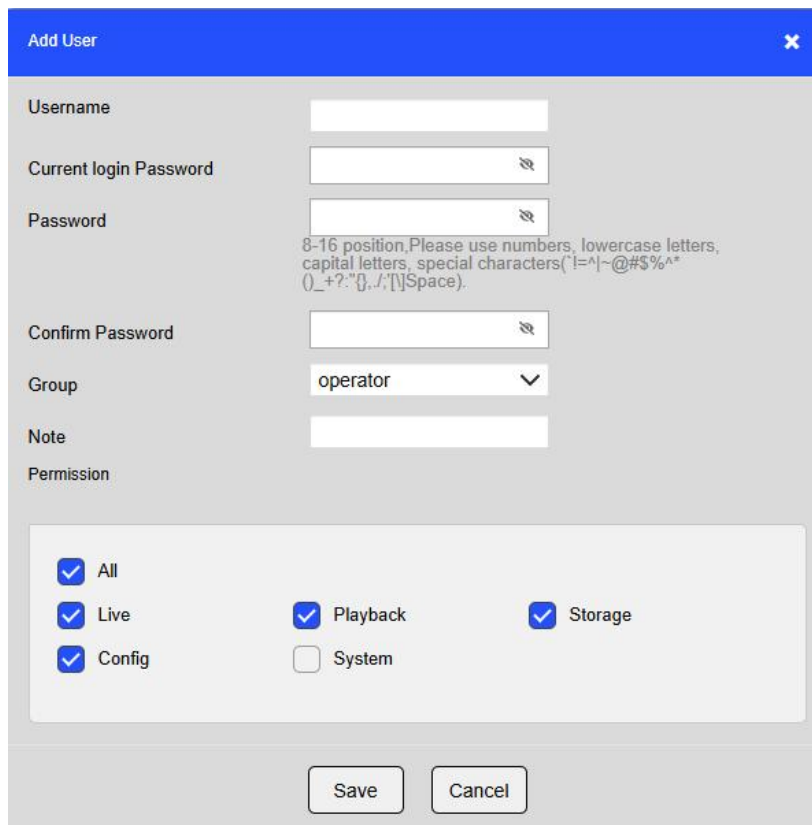


Fig. 7-59

7.8.3.2. Group

Steps:

- 1) On the configuration page, click "System > Account > Group" to enter the settings page (Fig. 7-60).

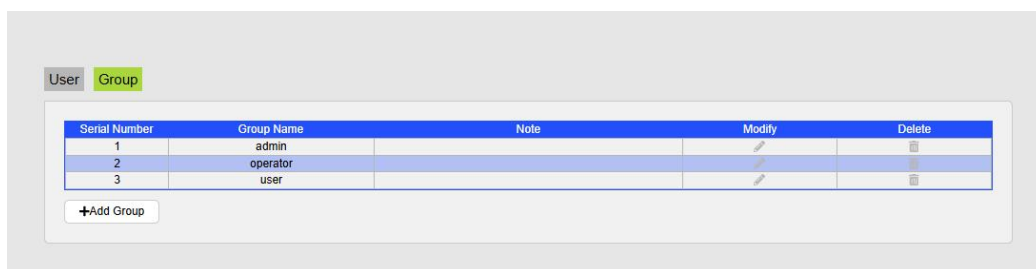




Fig. 7-60

- 2) Click "Add Group" to open the editing page and create a new group (Fig. 7-61).

Fig. 7-61

- 3) Enter the new group's Current login Password, Group Name, Note (optional), Permission (please choose at least 1 permission).
- 4) Click "Save" to save the settings.
- 5) Click  in the group list to edit group information, or click  to delete the group. "admin", "operator", and "user" groups cannot be edited or deleted.

Note:

- Password requirement: 8-16 characters, including at least two of the following: numbers, lowercase letters, uppercase letters, and special characters (^ != ^ | ~ @ # \$ % * () _ + ? : " ' { } , . / ; [\] Space).

7.8.4. Auto Maintenance

Steps:

- 1) On the configuration page, click "System > Auto Maintenance" to enter the settings page (Fig. 7-62).

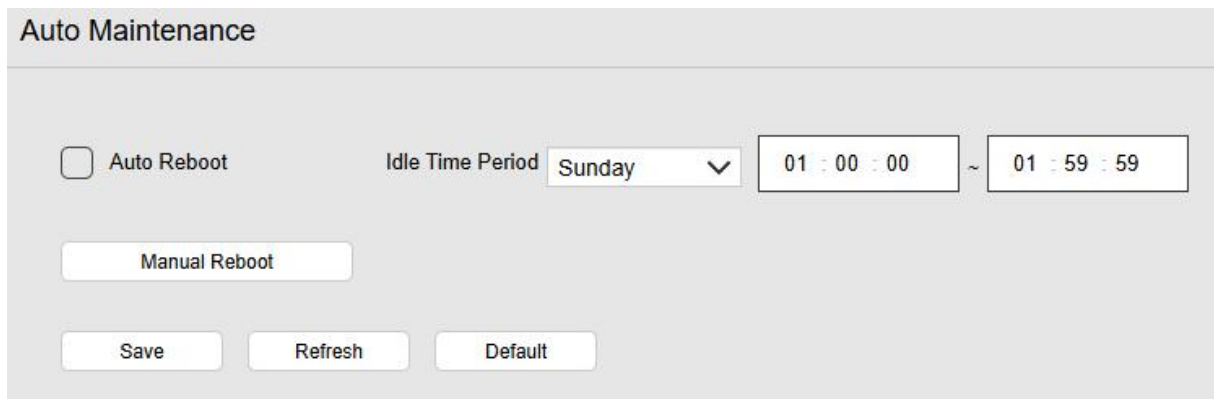


Fig. 7-62

2) Select the appropriate reboot method based on requirements:

Parameter	Instruction
Auto Reboot	When enabled, the device will automatically reboot within the specified time period.
Idle Time Period	Set the time period for the device to automatically reboot. If the device remains idle during this period, it will reboot.
Manual Reboot	Clicking this option will immediately reboot the device.

3) Click "Save" to save the settings, or click "Default" to restore the default settings.

7.8.5. Import / Export

Export configuration parameters to back up device settings; or import configuration parameters to quickly set up system configurations.

Steps:

1) On the configuration page, click "System > Import / Export" to enter the settings page (Fig. 7-63).



Fig. 7-63

2) Select Import or Export according the requirements:

- Import: Click "Import" select a local configuration file, and upload it to the system.
- Export: Click "Export" to download the device configuration file to your local device.

7.8.6. Default

Steps:

1) On the configuration page, click "System > Default" to enter the settings page (Fig. 7-64).

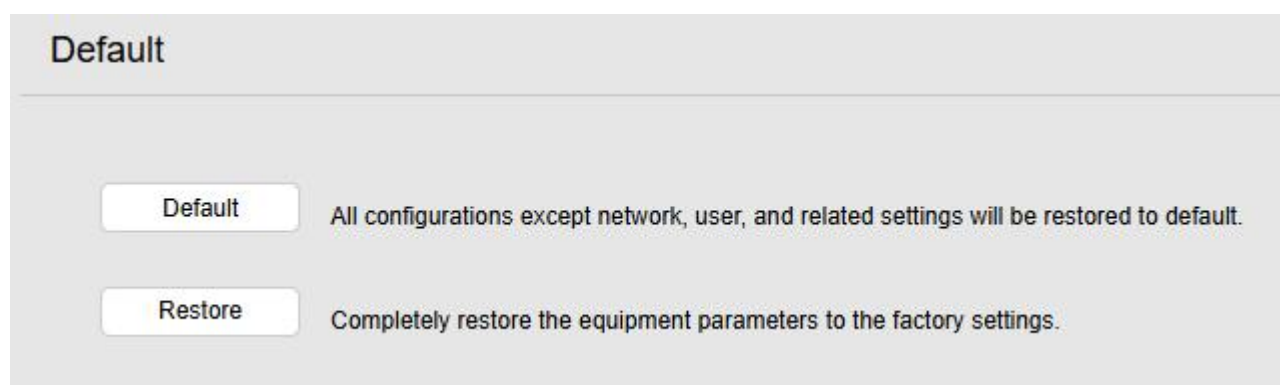


Fig. 7-64

2) Select Restore or Default:

- Restore: Restores all parameters except network, user, auto-logout, and device name.
- Default: Restores all parameters to factory defaults.

3) Enter the admin Username and Password, click "Confirm" to begin the restore operation.

4) After restoration completes, the system will reboot the device to finalize the update.

i Note:

- After performing a restore operation, some or all configuration parameters will be reset to their default values. Please proceed with caution.

7.8.7. Upgrade

Steps:

1) On the configuration page, click "System > Upgrade" to enter the settings

page (Fig. 7-65).

Note:

- Do not power off, disconnect the network, shut down, or reboot the device during the upgrade.
- Please carefully verify the firmware information before upgrading to avoid upgrade failure due to incorrect files. If the upgrade fails and the device cannot operate normally, please contact your supplier for technical support.

Upgrade

Note: Please do not turn off the power during the upgrade process. It will restart automatically after the upgrade.

Local Upgrade

Browse

Online Update

Cloud Upgrade Configuration

Enable

Auto Upgrade Type

Start Time

End Time

Current Firmware Version V0.4.5_10.8.237

Server Info

Current device firmware is up to date.

Fig. 7-65

7.8.7.1. Local Upgrade

Steps:

- 1) On the "Local Upgrade" tab, click "Browse" to select the firmware path.
- 2) Click "Upgrade" to begin the upgrade.

- 3) The device will reboot automatically after the upgrade to complete the update.

7.8.7.2. Online Upgrade

Steps:

- 1) On the “Cloud Upgrade Configuration” tab, click Enable to enable online upgrade.
- 2) Configure the Auto Upgrade Type, Start Time, and End Time. When the device remains idle during the configured period, it will automatically check for firmware updates and upgrade to the latest version.

7.9. Information

You can view system information, search and download logs, and device access users here.

7.9.1. Version

View the device's basic information and operational status.

Steps:

- 1) On the configuration page, click "Information > Version" to enter the settings page (Fig. 7-66).



Fig. 7-66

- 2) You can view Hardware Version, Record Channel, Alarm In, Alarm Out, Serial Number, System Version, Build Date, Algorithm Version, Web, Plugin, Net, Decoder.
- 3) Click "Please click here to download the plug-in." to download the latest version of the plug-in.

7.9.2. Log

You can view device logs here, and perform operations such as filtering, searching, and exporting.

Steps:

- 1) On the configuration page, click "Information > Log" to enter the page (Fig. 7-67).

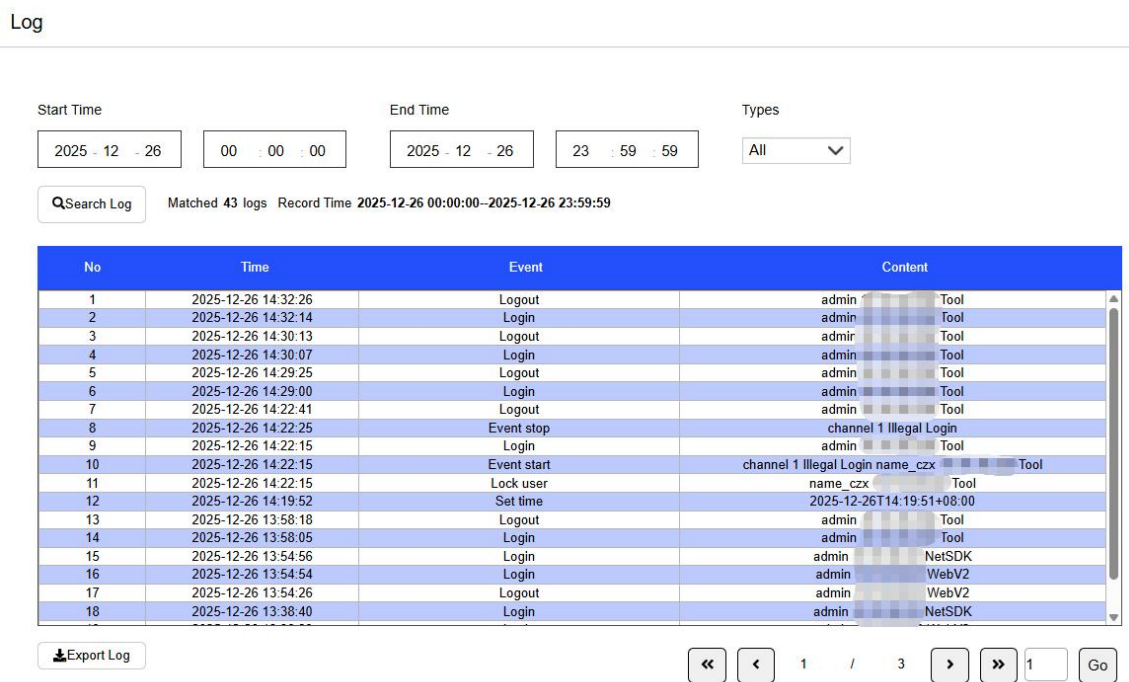


Fig. 7-67

- 2) Set Start Time and End Time.
- 3) Select the log type: All, System, Config, Event, Account.
- 4) Click "Search Log" to perform a search.
- 5) You can view the log time, event, and content in the log list.

Optional:

- Click "Export Log" to export search results as a ".txt" file to your local computer.
- At the bottom of the page, you can turn pages, and jump to a specific page.

7.9.3. Online Users

View information about users accessing the device via the web interface.

Steps:

- 1) On the configuration page, click "Information > Online User" to enter the page (Fig. 7-68).
- 2) View the Username, Group Name, Login IP, and Login Time of users accessing the device in the list.

Online Users

No	Username	Group Name	Login Ip	Login Time
1	admin	admin	10.10	2025-12-24 10:00
2	admin	admin	10.10	2025-12-24 11:00
3	admin	admin	10.10	2025-12-24 13:00
4	admin	admin	10.10	2025-12-24 14:00
5	admin	admin	10.10	2025-12-24 14:00
6	admin	admin	10.10	2025-12-24 14:00
7	admin	admin	10.10	2025-12-24 15:00
8	admin	admin	10.10	2025-12-24 15:00
9	admin	admin	10.10	2025-12-24 15:00
10	admin	admin	10.10	2025-12-24 15:00
11	admin	admin	10.10	2025-12-24 16:00
12	admin	admin	10.10	2025-12-24 17:00
13	admin	admin	10.10	2025-12-25 09:00
14	admin	admin	10.10	2025-12-25 09:00
15	admin	admin	10.10	2025-12-25 09:00
16	admin	admin	10.10	2025-12-25 09:00
17	admin	admin	10.10	2025-12-25 10:00
18	admin	admin	10.10	2025-12-25 10:00
19	admin	admin	10.10	2025-12-25 11:00
20	admin	admin	10.10	2025-12-25 13:00
21	admin	admin	10.10	2025-12-25 13:00
22	admin	admin	10.10	2025-12-25 14:00
23	admin	admin	10.10	2025-12-25 15:00
24	admin	admin	10.10	2025-12-25 16:00
25	admin	admin	10.10	2025-12-25 17:00
26	admin	admin	10.10	2025-12-25 17:00
27	admin	admin	10.10	2025-12-26 09:00
28	admin	admin	10.10	2025-12-26 10:00
29	admin	admin	10.10	2025-12-26 11:00
30	admin	admin	10.10	2025-12-26 11:00
31	admin	admin	10.10	2025-12-26 13:00
32	admin	admin	10.10	2025-12-26 13:00
33	admin	admin	10.10	2025-12-26 13:00

Fig. 7-68