

# Edge Intelligent Server

## User Manual

Manual Version: V1.03

## About This Manual

Thank you for your purchase. If you have any questions, please do not hesitate to contact your dealer.

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### Usage Instructions

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### Document Conventions

- The graphics, tables or photos in this manual are only for illustrative purpose. The actual product may be different.
- The mouse operations described in this manual are right-handed operations.
- This manual is a guide for multiple product models instead of for a specific product, and certain contents in this manual may not apply to all products.
- Due to uncertainties such as physical environment, discrepancy may exist between the actual values and reference values provided in this manual. In case of any conflicts or disputes, please refer to our final interpretation.
- Please follow the instructions in this manual when you use the product. Using the product under professional guidance is recommended.
- The symbols in the following table may be found in this manual. Carefully follow the instructions indicated by the symbols to avoid hazardous situations and use the product properly.

| Symbol                                                                                       | Description                                                                                               |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  NOTE!    | Indicates useful or supplemental information about the use of product.                                    |
|  CAUTION! | Indicates a situation which, if not avoided, could result in damage, data loss or malfunction to product. |
|  WARNING! | Indicates a hazardous situation which, if not avoided, could result in bodily injury or death.            |

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# 1 Environment Preparation

This chapter describes the preparations before login.

The server hosting the system and the client computer must be connected via network. For optimal performance, it is recommended to use Google Chrome to log in to the server.



## NOTE!

The system has dual network interfaces. By default, the IP address of interface **1** is **192.168.1.30** and interface **2** is **192.168.2.30**.

## Initial Configuration

1. Password configuration. Open the web browser, enter the **server's IP address:8000** in the address bar, press **Enter**. The initialization page appears. Enter the admin password and confirm the password to complete the password configuration.

The screenshot shows the initial configuration interface. At the top, there is a progress bar with five steps: 01 Password Config (highlighted in blue), 02 Email, 03 Network Config, 04 Database Config, and 05 Time Config. Below the progress bar, the form contains three input fields: 'Username' with the value 'admin', 'Password', and 'Confirm Password'. Each field has a red asterisk icon to its left. To the right of the 'Password' and 'Confirm Password' fields are eye icons for toggling visibility. At the bottom of the form is a blue 'Next' button.

2. Set email Address, and then click **Next**.

The screenshot shows the second step of the initial configuration. The progress bar at the top now has '02 Email' highlighted in blue, while '01 Password Config' is greyed out. The main form area contains a single input field labeled 'Email Address' with a red asterisk icon to its left. At the bottom of the form are two blue buttons: 'Back' and 'Next'.

3. Configure the network, including network interface card and DNS server. See [TCP/IP](#) for details.

01 Password Config

02 Email

03 Network Config

04 Database Config

05 Time Config

Basic Info

| Name          | Obtain IP Address | IP Address    | Subnet Mask   | Default NIC  | Speed    |      |
|---------------|-------------------|---------------|---------------|--------------|----------|------|
| NIC Type:eth0 |                   |               |               |              |          |      |
| IPv4          | Static            | 217.1.1.12    | 255.255.0.0   | 217.1.0.1    | 1000Mb/s | Edit |
| NIC Type:eth1 |                   |               |               |              |          |      |
| IPv4          | DHCP              | 10.222.173.80 | 255.255.254.0 | 10.222.172.1 | Unknown  | Edit |

DNS Server

☐ Automatically Obtain DNS Server
 ☒ Use this DNS Server

Preferred DNS Server:

Alternate DNS Server:

4. Configure the database. The built-in database requires no configuration. Click **Next**.

01 Password Config

02 Email

03 Network Config

04 Database Config

05 Time Config

Database Type ☒ Built-in Database

Back

Next

5. Set the system time.

You can set the system time manually or use the NTP sever. Only one option can be selected.

01 Password Config

02 Email

03 Network Config

04 Database Config

05 Time Config

Current time: 2025/03/25 19:36:44

Time Settings

Configure Time Manually

\* Date/Time :

2025/03/25 19:34:01

\* Time Zone :

(UTC+08:00) Beijing Hc

☒ Set as NTP Server

Sync with NTP Server

\* Server Address

Network Detection

\* Time Sync

60

minute(s)

Interval :

Back

Finish

- Set the time manually

Click  to set the system time. By clicking **Now**, the system will use the computer's time.

- Sync time with NTP server

Enter the NTP server address, and then click **Network Detection** to test the network connectivity. When connected, the system will sync time with the NTP server at the set time interval. You can change the time interval as needed.

6. Click **Finish** when the settings are complete. A message appears, indicating that the initialization is complete. Follow the on-screen instructions to proceed.

### Tip

Initialization complete. Please enter `http://serverip:80` to log in to the bizmgt service, or enter `http://serverip:8002` to log in to the opma service.

## 2 Login

### 2.1 Web Login

Enter **http://IP:80** in the address bar to open the login page. Enter the username and password set during the initialization process, and click **Login**.



Hello!

Welcome

Username :

Please enter username.

Password :

Please enter password.

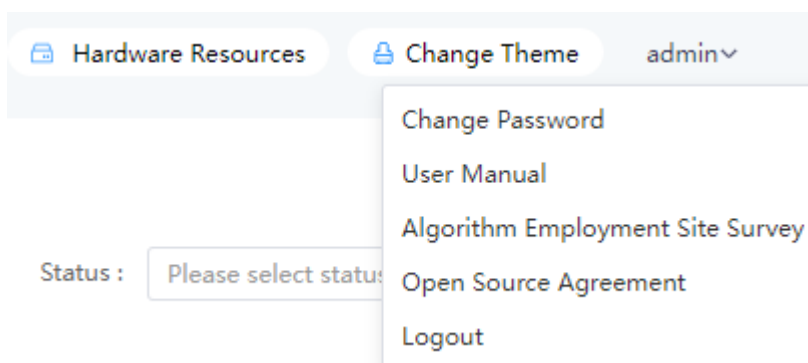
Login

Forgot Password?

### 2.2 Reset Password

If you forgot your password, click **Forgot Password** on the login page, answer security questions, and then reset the password by entering the new password twice.

## 2.3 Top Menu Bar



- Change Password: Click to change the system password. The password strength will be displayed when you input the new password.
- User Manual: Click to open this user manual.
- Algorithm Deployment Site Survey: Click to open the site survey guide.
- Open Source Agreement: Click to read the detailed open source agreement terms.
- Logout: Click to log out of the system.
- Hardware Resources: Click to view the utilization of hardware resources.
- Change Theme: Click to change the UI style.

## 3 Channel Management

Channel management includes:

- Channel operations: add, edit, delete, search channels.
- Task configuration: choose tasks, draw detection areas.

### Channel Management

Channel Name :  Analysis Status :  Sequence Status :  Status :

| <input type="checkbox"/> | Live Image                                                                          | Channel Name | Status | IP Address | Alarm Type         | Enabled Status           | Analysis Status | Enable Sequence          | Operation         |
|--------------------------|-------------------------------------------------------------------------------------|--------------|--------|------------|--------------------|--------------------------|-----------------|--------------------------|-------------------|
| <input type="checkbox"/> |  | 1            | Online |            | Calling Detecti on | <input type="checkbox"/> | Not Starte d    | <input type="checkbox"/> | Analysis Config E |

### Add Channel

- Add manually: Click **Add**, and then configure the parameters.
- Auto search: Click **Auto Search** to search devices on the same LAN as the server, and then configure the parameters.

| Protocol       | Description                                                                                                                                                                                                                           |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Onvif Protocol | Enter the channel name, IP, username, and password, and then choose a stream type.                                                                                                                                                    |
| RTSP Protocol  | It is recommended to choose RTSP when: <ul style="list-style-type: none"> <li>• The server cannot pull streams from the channel directly, but can pull streams via an NVR. In this case, obtain the RTSP URL from the NVR.</li> </ul> |

| Protocol         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | <ul style="list-style-type: none"> <li>The server cannot connect the camera via Onvif. In this case, enter the RTSP URL by referring to the examples below, and then replace parameters ①②③ accordingly; other URLs remain unchanged.</li> </ul> <p> <b>Template</b> &gt;           Authentication mode: rtsp://<sup>①</sup>admin:<sup>②</sup>123@204.204.70.67/media/Video1<br/>           Non-authentication mode: rtsp://<sup>③</sup>192.168.1.10:554//Streaming/1         </p> <p>           ① Username of the channel<br/>           ② Password of the channel<br/>           ③ IP address of the channel         </p> |
| Private protocol | <p>Select the private protocol, configure parameters according to actual conditions, then click <b>Next</b>. Choose the stream as needed and click <b>OK</b>.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>The camera needs to support the private protocol.</li> <li>The default is the main stream, and changing the stream type will affect the resolution, frame rate, etc.</li> <li>Only cameras that are connected via the private protocol support Behavior Linkage.</li> </ul>                                                                                                                    |

- Batch import channels: Click [Batch Import Channels](#) and upload the file containing channel information.



#### NOTE!

The uploaded file must meet the format requirements. You can download the template file, or export the existing channels, and then complete the content as required.

- Video Convergence Platform Import: Click [Video Convergence Platform Import](#) to search for cameras within the platform, and then select camera(s) to add.



#### NOTE!

Before using the Video Convergence Platform Import function, ensure that [Video Convergence Platform](#) is enabled and properly configured.

### Other Operations

| Operation       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status          | <p>Click .</p> <p><b>Note:</b></p> <p>The default status is "disabled". Once enabled, the algorithm starts to analyze the intelligent functions configured for the channels.</p>                                                                                                                                                                                                                                                      |
| Analysis Status | <ul style="list-style-type: none"> <li>Not Started: No intelligent analysis tasks are configured; tasks have been configured but yet to be deployed; tasks have been deployed but are disabled; or the current channel is in a sequence list but has not been analyzed yet.</li> <li>Analyzing: The intelligent analysis task has been configured and deployed.</li> </ul> <p><b>Note:</b></p> <p>The system deploys and processes tasks sequentially. Service deployment takes approximately 5 seconds per channel.</p> |
| Enable Sequence | <p>When the number of channels configured with intelligent analysis tasks exceeds the server's capacity, you need to enable sequence, so that the channels will perform intelligent analysis in sequence.</p>                                                                                                                                                                                                                                                                                                            |

| Operation              | Description                                                                                                                                                                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | Click  to enable sequence.<br><b>Note:</b><br>The default status is "disabled". Enabling this function is not recommended for channels that require real-time analysis.                                                               |
| Analysis Configuration | See <a href="#">Intelligent Analysis Configuration</a> . The functions are similar.                                                                                                                                                                                                                                    |
| Edit                   | Click <a href="#">Edit</a> to edit the channel information.<br><b>Caution:</b><br>Be cautious when replacing the channel settings with settings of other channels; it may affect data analysis and retrieval.                                                                                                          |
| Refresh                | Click <a href="#">Refresh</a> to refresh the channel list.                                                                                                                                                                                                                                                             |
| Details                | Click <a href="#">Details</a> to view the detailed channel information.                                                                                                                                                                                                                                                |
| Delete                 | <ul style="list-style-type: none"> <li>Delete one by one: Click <a href="#">Delete</a>.</li> <li>Delete in batches: Select the channels to be deleted and click <a href="#">Batch Delete</a>.</li> </ul>                                                                                                               |
| Search                 | Set search criteria to retrieve the desired results.<br>Channel Name : <input type="text"/> Please enter the channel Analysis Status : <input type="text"/> Please select status Sequence Status : <input type="text"/> Please select status Status : <input type="text"/> Please select status <a href="#">Search</a> |
| Batch Export Channels  | Click <a href="#">Batch Export Channels</a> and then choose an option ( <b>Export All</b> , <b>Export This Page</b> , <b>Export Selected</b> ) to export channel information.                                                                                                                                          |



#### NOTE!

The file for batch channel import and export only supports the .xlsx format.

## 4 Intelligent Analysis Configuration

Only online channels and channels without any face monitoring tasks can be configured. The available algorithm functions vary with device model.

Operation

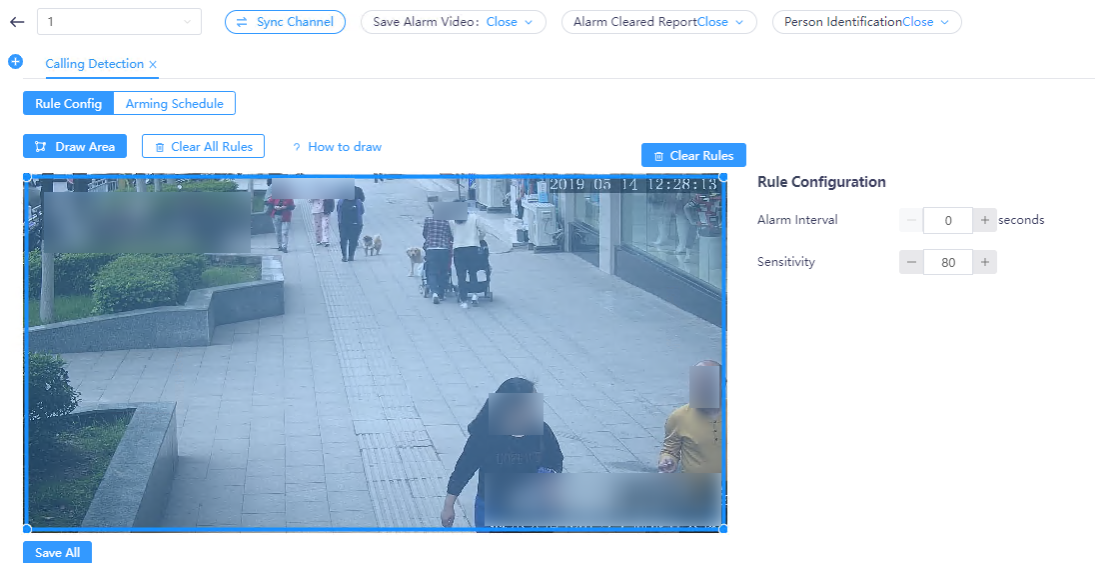
[Analysis Config](#) [Edit](#) [Update](#) [Details](#) [Delete](#)

Click **Analysis Config**, click  and choose the intelligent analysis service.

| Item             | Actions                                                                                                                       | Description                                                                                                                        |
|------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Sync Channel     | Click <b>Sync Channel</b> , search for the functions to sync, select the channels to sync to, and then click <b>OK</b> .      | Sync the configurations of a channel to other channels                                                                             |
| Save Alarm Video | Click <b>Save Alarm Video</b> , enable and configure the pre-alarm and post-alarm video lengths, and then click <b>Save</b> . | Length of pre-alarm and post-alarm video: 5s-30s. The default is 5s.                                                               |
| Alarm Report     | Enable <b>Alarm Cleared Report</b> , and then click <b>Save</b> .                                                             | When an alarm event ends, an image of the current video will be sent to the third-party platform to indicate the end of the event. |

| Item                                                                                             | Actions                                                                                                                                                                                                                                                                                                         | Description                                                  |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Face Recognition/<br>Behavior & Person<br>Identification<br>(displayed based on<br>service type) | When enabled, you can configure the following parameters: <ul style="list-style-type: none"> <li>● Person Library: Select one or more person libraries.</li> <li>● Alarm Threshold: Set the match threshold to trigger an alarm.</li> <li>● Alarm Type: Choose Match Alarm, Not Match Alarm, or All.</li> </ul> | Results can be view on the <a href="#">Data Search</a> page. |

## 4.1 Area Configuration



### 1. Draw the detection rule.

- Use the default rule: By default, the detection area covers the entire image.
- Customize rules: Click **Clear Rules**, and then draw rules as needed.

Click to start drawing, right-click to finish.

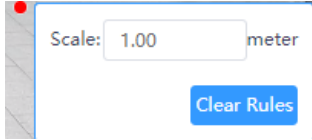
Draw a tripwire: Specify two points to set the tripwire, click again to set the detection direction.

Draw an area: Specify 3 to 6 points to set the detection area.

### 2. Configure the parameters as needed.

| Item              | Description                                                                                                                                                                                                                                                                                                                 | Algorithm                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Sensitivity       | Set the detection sensitivity. Higher sensitivity triggers alarms more easily, but may also increase false alarms.                                                                                                                                                                                                          | General Configuration<br>(required for most algorithms) |
| Trigger Time      | An alarm is triggered when the duration of the behavior reaches the threshold.<br>Range: 1-1800s                                                                                                                                                                                                                            |                                                         |
| Alarm Interval    | Though behavior detections are continuous, alarms will be reported at set time interval.                                                                                                                                                                                                                                    |                                                         |
| Face Capture Mode | <ul style="list-style-type: none"> <li>● Quality Priority: Reports the best-quality face snapshot from when the face enters the image until it leaves.</li> <li>● Speed Priority: Reports the best-quality face snapshot from when the face enters the image until a predefined quick reporting time is reached.</li> </ul> | Face Recognition                                        |

| Item                                            | Description                                                                                                                                                                                                                                                                                                                                                                                      | Algorithm                                                                                                               |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|                                                 | <ul style="list-style-type: none"> <li>Periodic Selection: Reports a face snapshot at specified intervals from when the face enters the image.</li> <li>Quick Report: Immediately reports a face snapshot when the face enters the image. If a higher-quality snapshot is captured later, it will also be reported.</li> </ul>                                                                   |                                                                                                                         |
| Min. Face Filtering Size Width/Height           | Faces with the size smaller than the set size will not be detected.                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |
| Intrusion Detection Type                        | Available options: Pedestrian, Non-Motor Vehicle, and Motor Vehicle.                                                                                                                                                                                                                                                                                                                             | Intrusion Detection                                                                                                     |
| Max./Min. Head & Shoulder Filter Width/Height   | Excludes pedestrians with head and shoulder dimensions outside specified limits.                                                                                                                                                                                                                                                                                                                 | Intrusion Detection, Enter Area, Leave Area, Restricted Area Swimming Detection                                         |
| Max./Min. Non-Motor Vehicle Filter Width/Height | Excludes non-motor vehicles with dimensions outside specified limits.                                                                                                                                                                                                                                                                                                                            | Intrusion Detection                                                                                                     |
| Max./Min. Motor Vehicle Filter Width/Height     | Excludes motor vehicles with dimensions outside specified limits.                                                                                                                                                                                                                                                                                                                                | Intrusion Detection, Forklift Detection                                                                                 |
| Getting Up Detection Mode                       | Choose a mode according to the application scenario: <ul style="list-style-type: none"> <li>Bunk Bed (Entry): An alarm is triggered when the head/shoulder enters the detection area.</li> <li>Singe-Level Sleeping Area (Exit): An alarm is triggered when the head/shoulder exits the detection area.</li> </ul>                                                                               | Getting Up Detection                                                                                                    |
| Work Clothes Library                            | See Work Clothes Library Management.                                                                                                                                                                                                                                                                                                                                                             | No Work Clothes Detection<br>No Reflective Clothing Detection<br>No Chef Uniform Detection<br>Illegal Fueling Detection |
| Background Refresh Interval                     | The background refresh interval must be greater than the trigger time configured for Lost Items; otherwise, alarm will not be triggered.                                                                                                                                                                                                                                                         | Lost Items                                                                                                              |
| Person Number Limit                             | <ul style="list-style-type: none"> <li>Absence Detection, Inadequate Worker: An alarm will be triggered if the number of people in the area is less than the set threshold and the trigger time is met.</li> <li>People Gathering, Overcrowding Detection: An alarm will be triggered if the number of people in the area is more than the set threshold and the trigger time is met.</li> </ul> | Overcrowding Detection, Absence Detection, People Gathering, Inadequate Worker                                          |
| Fluctuation                                     | An alarm is triggered if the number of people added to the area is greater than or equal to the set threshold and the duration reaches the specified time threshold. Range: 1-39.                                                                                                                                                                                                                | People Dispersion                                                                                                       |
| Auto-Clear Counting Data                        | When enabled, the dashboard data will be reset every day.<br><b>Note:</b><br>Up to 4 tripwires are allowed for a channel. People counting data is based on the sum of the counting data of the 4 tripwires.                                                                                                                                                                                      | Tripwire People Counting                                                                                                |
| Distance Measurement Line (m)                   | Enter the actual distance of the straight line displayed in the image.                                                                                                                                                                                                                                                                                                                           | Campus Vehicle Overspeed Detection, Forklift Overspeed Detection                                                        |
| Default Speed Limit (km/h)                      | Set the baseline speed limit.                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                         |

| Item                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Algorithm                           |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Speed Limit Ratio of Speeding (%)         | An alarm will be triggered if the detected vehicle speed exceeds Default Speed Limit + Default Speed Limit * Speed Limit Ratio of Speeding. The alarm details, including the detected speed, can be view in <a href="#">Behavioral Data</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |
| Speed Correction (km/h)                   | <p>Correct speeds within a specified segment. The correction percentage can be either positive or negative; adjust according to the actual conditions.</p> <p>For example, if the speed range is 30-40 km/h and the correction percentage is 10%, and the detected speed is 35km/h, the corrected speed will be 38.5km/h (35+35*10%).</p> <div> <input type="text" value="30"/> — <input type="text" value="40"/> <input type="button" value="-"/> <input type="text" value="10"/> <input type="button" value="+"/> % </div> <div> <input type="text"/> — <input type="text"/> <input type="button" value="-"/> <input type="text" value="0"/> <input type="button" value="+"/> % </div> <div> <input type="text"/> — <input type="text"/> <input type="button" value="-"/> <input type="text" value="0"/> <input type="button" value="+"/> % </div> |                                     |
| Leash Length                              | An alarm is triggered when the threshold is exceeded.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| Vehicle Count Threshold                   | An alarm is triggered when the number of vehicles detected exceeds the threshold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Campus Vehicle Congestion Detection |
| Duration                                  | An alarm is triggered when the duration of congestion exceeds the threshold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |
| Ship Type                                 | Includes All, Freight Ship, Sand Transportation Ship, and Passenger Ship.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ship Detection                      |
| Highest Water Level<br>Lowest Water Level | Threshold for triggering high water level alarms and low water level alarms.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Water Level Detection               |
| Scale                                     | <p>Click on the red dot in the image, input the scale value of the water gauge. After calibrating the upper and lower reference points, the algorithm can detect the scale for each position.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
| Alarm Color                               | Choose the abnormal color that will trigger alarms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Abnormal Water Color Detection      |
| Shield Area                               | This area does not trigger alarms. To draw the area, left-click to draw 4-6 points and right-click to finish. The area will automatically close.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | All Expressway Event Algorithms     |

| Item                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Algorithm                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Add Lane                 | <ul style="list-style-type: none"> <li>● Draw Lane Area: Left-click to draw 4-6 points and right-click to finish. The area will automatically close.</li> <li>● Draw Driving Direction: Left-click to draw 2 points. The direction is from the start point to the end point.</li> <li>● Draw Virtual Coil Area: This area is for vehicle speed testing. Draw the area in the middle of the lane area, ensuring the width matches the lane width and the length equals half of the longitudinal length of a small vehicle.</li> <li>● Lane ID: Used to distinguish between lanes.</li> <li>● Lane Type: Select the lane type based on the actual drawn area.</li> </ul> <p>Example:</p>  | <p><b>Note:</b></p> <p>All expressway event algorithms share the same lane configuration.</p> |
| Alarm Coal Quantity      | <p>Determines the coal quantity based on the coal volume area on the belt.</p> <ul style="list-style-type: none"> <li>● No Coal: 0%</li> <li>● Low Coal: &lt;20%</li> <li>● Normal: &gt;20%, &lt;100%</li> <li>● Overflow: 100%</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Coal Detection Quantity                                                                       |
| Coal Block Width on Belt | <p>Range: 1-10000 (%). An alarm is triggered when the threshold is exceeded. Set according to the actual requirements.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Oversized Coal Detection                                                                      |

## 4.2 Arming Schedule

Rule Config

Arming Schedule

Behavior Linkage

Copy to Other Days

Clear All

One-Click Arm

|           |                                   |  |  |
|-----------|-----------------------------------|--|--|
| Monday    | 0 2 4 6 8 10 12 14 16 18 20 22 24 |  |  |
| Tuesday   | 0 2 4 6 8 10 12 14 16 18 20 22 24 |  |  |
| Wednesday | 0 2 4 6 8 10 12 14 16 18 20 22 24 |  |  |
| Thursday  | 0 2 4 6 8 10 12 14 16 18 20 22 24 |  |  |
| Friday    | 0 2 4 6 8 10 12 14 16 18 20 22 24 |  |  |
| Saturday  | 0 2 4 6 8 10 12 14 16 18 20 22 24 |  |  |
| Sunday    | 0 2 4 6 8 10 12 14 16 18 20 22 24 |  |  |

Save

## Key Operations

Drag on the timeline to set the arming schedule, and then click **Save**. The default arming schedule is 24h.

## Other Operations

| Operation          | Description                                                                                                                                                                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Copy to Other Days | Used to apply the settings of a day (e.g., Monday) to other days of the week.<br><ol style="list-style-type: none"><li>1. Select the day (e.g.,  <b>Monday</b> ).</li><li>2. Click <b>Copy to Other Days</b>, and then click <b>Save</b>.</li></ol> |
| Clear All          | Click to clear all.                                                                                                                                                                                                                                                                                                                  |

## 4.3 Face Detection Linkage / Behavior Linkage

### Camera Config

Link Camera Alarm Output ⓘ

Alarm Output ☐ Enable ☒ Close

Link Camera Audio Output ⓘ

Enable ☐ Enable ☒ Close

Alarm Audio Play Count 

- 1 +

### Audio Column Config

Link Column Speaker Output

Enable ☐ Enable ☒ Close

Alarm Audio Play Count 

- 1 +

Configure the linkage actions to be triggered when an alarm occurs.



### NOTE!

Only cameras that are connected via the private protocol support IPC linkage.

| Configuration Item | Parameter                  | Description                                                                                                                                                 |
|--------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera             | Link Camera Alarm output   | Trigger the camera to output an alarm                                                                                                                       |
|                    | Link Camera Audio Output   | To enable this function, click <b>Enable</b> , and configure the alarm audio play count.                                                                    |
| Audio column       | Link Column Speaker Output | To enable this function, click <b>Enable</b> , and configure the alarm audio play count. For column speaker configurations, see Audio Column Configuration. |

## 5 Algorithm Capability Configuration

Please select scenario(s) or algorithm(s) as needed

Common

Safe Production

Safe Community

Safe School

Smart Hospital

Construction Site

Bright Kitchen

Rural Road

Expressway Serv...

Highway

Gas Station

Urban Manage...

Mine Scene

Subway Scene

Prison Scene

Clear All

| Category                                   | Algorithm Function(18/30)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> General Functions | <input checked="" type="checkbox"/> Tripwire People Counting <input checked="" type="checkbox"/> Area People Counting <input checked="" type="checkbox"/> Intrusion Detection <input type="checkbox"/> Face Detection <input checked="" type="checkbox"/> Overcrowding Detection <input type="checkbox"/> Preset Marker Detection <input checked="" type="checkbox"/> Cross Line Detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input type="checkbox"/> Environment       | <input type="checkbox"/> Exposed Trash <input type="checkbox"/> Charging Gun Not In Place Detection <input type="checkbox"/> Bagged Trash <input type="checkbox"/> Trash Bin Overflow <input type="checkbox"/> Gas Leak Detection <input type="checkbox"/> Water Leak Detection <input type="checkbox"/> Oil Leak Detection <input type="checkbox"/> Uncovered Bare Soil Detection <input type="checkbox"/> Gas Cylinder Detection <input type="checkbox"/> No Fire Extinguisher Detection <input checked="" type="checkbox"/> Fire Detection <input type="checkbox"/> Dog identification <input type="checkbox"/> Elevator Entrance Detection <input type="checkbox"/> Test Paper Color Change Detection <input type="checkbox"/> Rat Detection <input type="checkbox"/> Obstructed Evacuation Route Detection <input type="checkbox"/> Trash Bin Open Detection <input type="checkbox"/> Inspection of Debris Stacking <input checked="" type="checkbox"/> Lost Items <input type="checkbox"/> Object Left Behind <input checked="" type="checkbox"/> Fume Detection <input type="checkbox"/> Animal Intrusion Detection <input type="checkbox"/> Dump Truck Without Tarp Detection |
| <input type="checkbox"/> PPE               | <input type="checkbox"/> Exposed Long Hair Detection <input type="checkbox"/> Shirtless Detection <input type="checkbox"/> No Safety Harness Detection <input type="checkbox"/> No Chef Uniform Detection <input checked="" type="checkbox"/> No Reflective Clothing Detection <input checked="" type="checkbox"/> No Work Clothes Detection <input checked="" type="checkbox"/> No Helmet Detection <input type="checkbox"/> No Chef Hat Detection <input type="checkbox"/> No Dust/Gas Mask Detection <input type="checkbox"/> No Safety Gloves Detection <input type="checkbox"/> No Safety Goggles Detection <input checked="" type="checkbox"/> No Mask Detection <input type="checkbox"/> No Safety Belt Detection                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/> Behavior          | <input checked="" type="checkbox"/> Calling Detection <input type="checkbox"/> Fight Detection <input type="checkbox"/> Individual Alone Detection <input checked="" type="checkbox"/> Fall Detection <input type="checkbox"/> Unattended Fire Detection <input type="checkbox"/> Long Stay Detection <input type="checkbox"/> Inadequate Worker <input type="checkbox"/> Passing Things Through Fence Detection <input type="checkbox"/> Quick Moving Detection <input checked="" type="checkbox"/> Absence Detection <input type="checkbox"/> Climbing Detection <input type="checkbox"/> Getting Up Detection <input type="checkbox"/> Crowd Dispersion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Save

1. Select a scenario or algorithm(s) based on your actual needs.  
After selecting a scenario, the commonly used algorithms for that scenario will be automatically selected. You can also manually add or remove algorithms as needed.
2. Click **OK**.
3. Go to [Intelligent Analysis Configuration](#) and configure the corresponding algorithms.

## 6 Data Dashboard

Click Data Dashboard in the top right corner to view live video and alarms.

| Operation                   | Description                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------|
| Switch to 4-Window          | Show four channels' live video and update alarm information                                                  |
| Switch to 1-Window          | Show a single channel's live video and update alarm information                                              |
| Snapshot                    | Capture and save the current image                                                                           |
| Show Alarms of All Channels | By default, alarms of the current channel are displayed; when enabled, alarms of all channels are displayed. |

## 7 Library Configuration

### 7.1 Work Clothes Library

Upload work clothes photos for work clothes detection.

### 7.1.1 Work Clothes Photo Requirements

Work clothes must have collars and sleeves, such as suits, white coats, security uniforms, and factory work clothes. Special work clothes such as reflective vests, reflective aprons, and reflective strips are not supported.



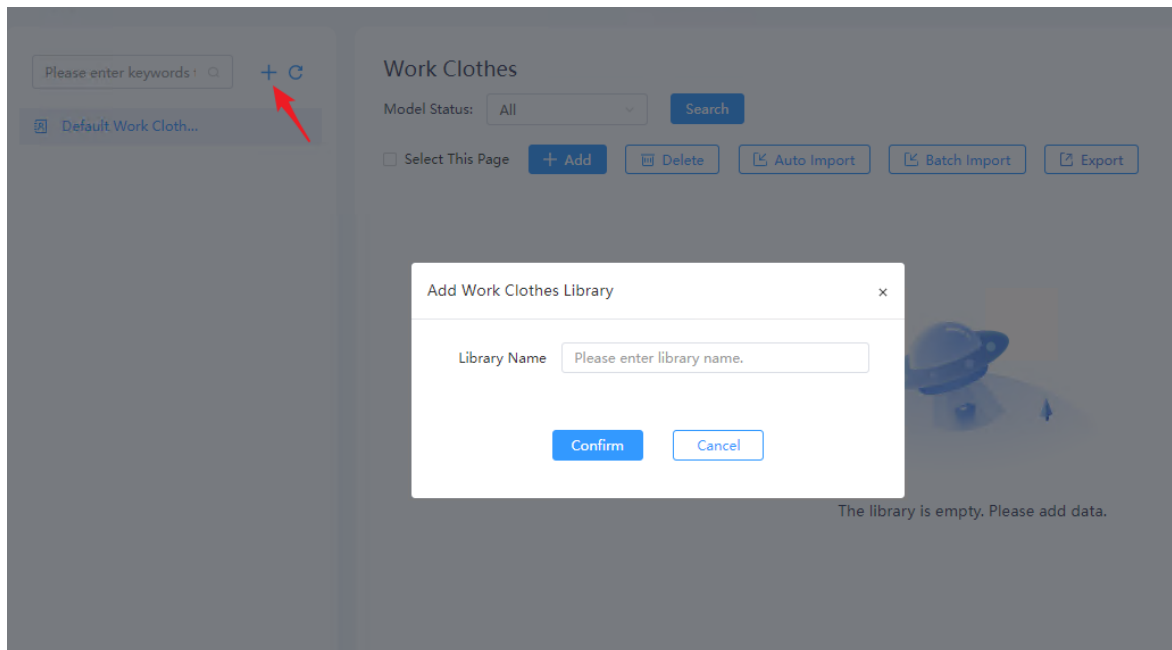
#### NOTE!

- Photos downloaded from the Internet or taken by a mobile phone are not supported.
- The photo resolution should be in this range: 95px\*285px to 200px\*600px.

### 7.1.2 Import Work Clothes Photos

#### 1. Add a work clothes library

Click + to create a work clothes library. You can create different work clothes libraries for different application scenarios.

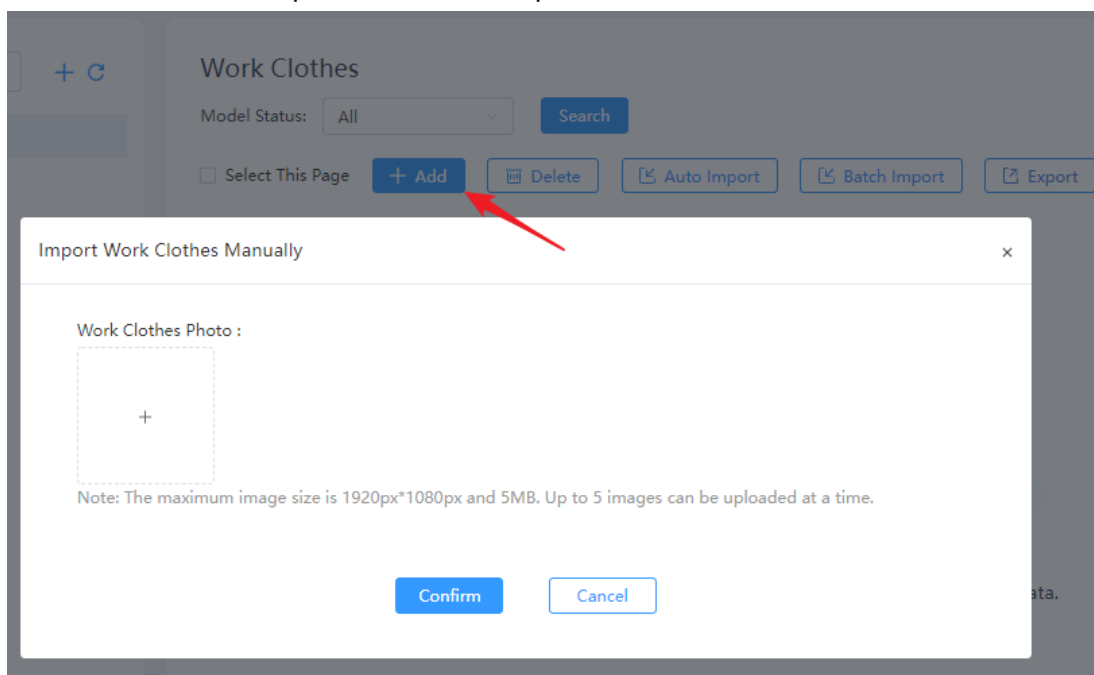


## 2. Add work clothes photos.

There are two ways to add work clothes photos: manual import and automatic import.

- **Manual import**

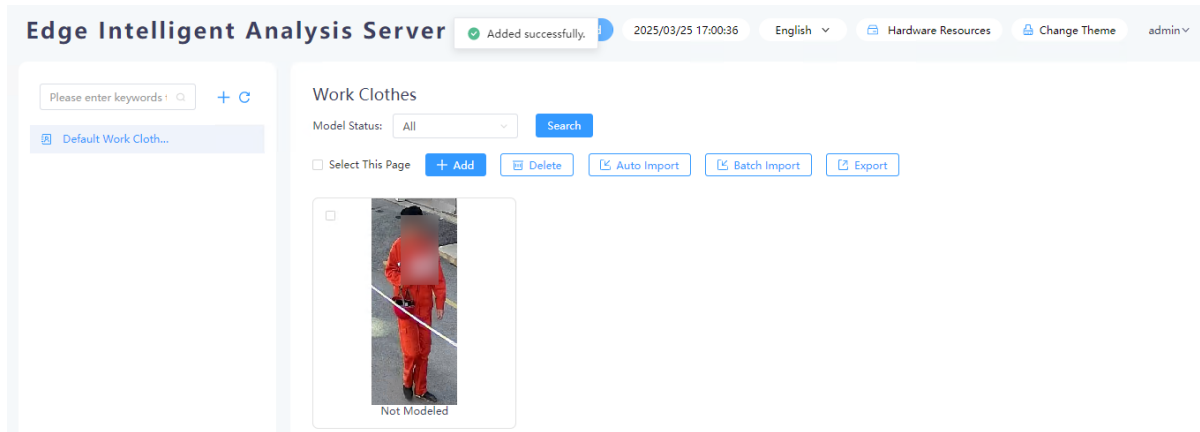
Click **Add**, and then import a work clothes photo.



- **Automatic import**

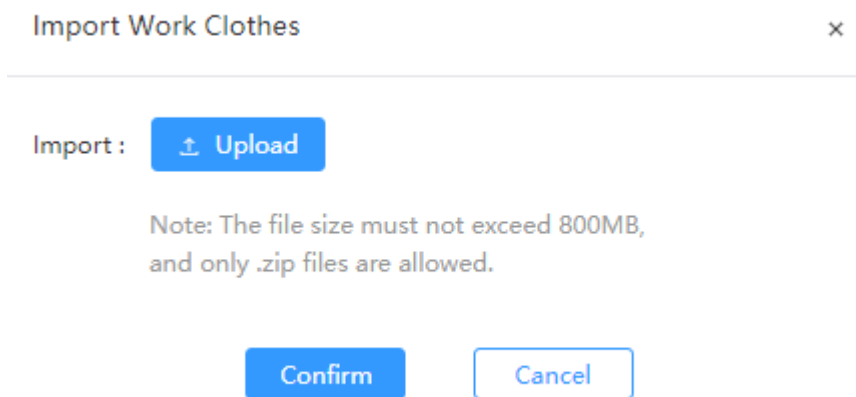
Automatically analyze live video and capture the detected work clothes, and then manually import the suitable work clothes into a work clothes library.

- (1) Click **Auto Import**, select channels, and then click **Analyze** to start analysis.
- (2) Wait for the analysis results. When the analysis is complete, choose **Import**, **Re-analyze**, or **Import Selected and Re-analyze**.
- (3) Select a photo, and then click **Import**.



- Batch import

Click **Batch Import**. A dialog box appears. Click **Upload**, locate the .zip file to import (max. 800MB), and then click **OK**.



### 3. View the import status.

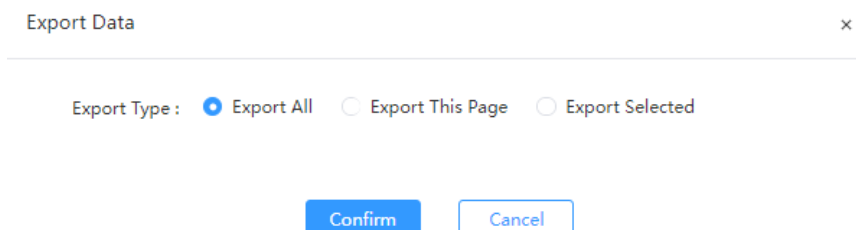
View the modeling status of the imported work clothes photos: success or failed.

Success: The work clothes photo meets the algorithm's requirements, can be analyzed, and can be detected in live video.

Failure: The work clothes photo does not meet the algorithm's requirements, cannot be analyzed, and cannot be detected in live video. Failed photos can be deleted.

## 7.1.3 Export Work Clothes Photos

Click **Export**. A dialog box appears. Choose an export type and then click **OK**.



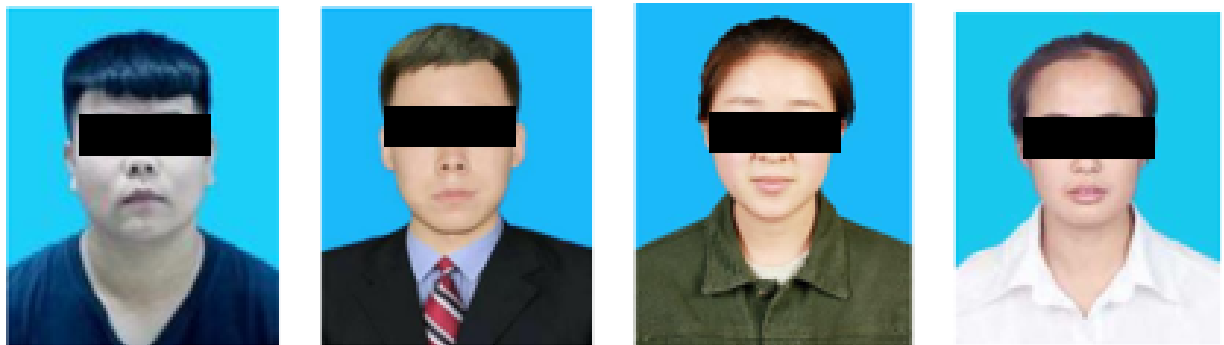
## 7.2 Person Library

Manage the person information stored in the person libraries. The person libraries provide person information to be used by the related algorithms.

### 7.2.1 Photo Requirements

- Overall requirements: Bareheaded (no hats) and unobstructed (no masks) frontal photos.
- Range requirements: The photo must show the contours of both ears, and the top of the head (including all hair), and down to the bottom of the neck.
- Color requirements: True color photos.
- Makeup requirements: No makeup such as hair dye and eyelashes that may affect the real appearance are allowed.
- Background requirements: A solid-colored background, such as white and blue.
- Light requirements: The photo should be taken with adequate light. There should be no overly dim, overly bright, or uneven lightness (i.e., half shadow and half bright) on the face.
- Photo timeliness requirements: The age depicted in the photo should not be significantly different from the current actual age. The photo should not exceed one year. For individuals with significant changes in hairstyle or bangs, it is recommended to take the photo on the spot.
- Photography equipment requirements: The photo should be taken with a high-quality smartphone or a single-lens reflex camera.
- Photo requirements: JPG format, file size 50KB-2MB; the resolution of the face should be in the range of 640px\*640px to 200px\*200px; no image alterations such as beautification.

**Correct**



## Wrong



① Dim light



② Blurry face



③ Black and white photo



④ Face too small



⑤ Low resolution



⑥ Side face



⑦ With mask



⑧ With heavy make-up

## 7.2.2 Import Face Photos

Create a person library.

Click + to create a library as needed.

Please enter keywords:
+

Default Library

### Library Member

Please enter name
Please enter name
Please enter phone
Please enter email address
Gender: All
Model Status: All
Search

☐ Select This Page
+ Add
Delete
Batch Import
Export Person

☐

Success
Name: 2
ID No.:

☐

Success
Name: 1
ID No.:

Add person information to the library by manual adding or batch import.

- Manual adding

Click **Add**. A page as shown below appears.

Add Person

\* Face Photo :

+

Note: The maximum image size is 8192px\*4320px and 5MB.

\* Person Name :
Please enter name.
Gender :
Unspecified

ID Type :
ID Card
ID Number :
Please enter ID number.

Phone Number :
Please enter phone number.
Email :
Please enter email address.

Confirm
Cancel

- Batch import

Import People

Import :
Upload
Download Template

Note: The file size must not exceed 800MB, and only .zip files are allowed.

Confirm
Cancel

- Click **Download Template** to download the template.

2. Edit the template file. Copy all the face photos to the **img** folder, and complete the template file. The person information in the template file should match the image path. Save the completed template file and face photos together as a.zip file
3. Locate the .zip file, and then click **Batch Import**.

### 7.2.3 Export Face Photos

Click **Export Person**. A dialog box appears. Choose a type and then click **OK** to export face photos with the corresponding face information.

Export Data ×

Export Type : ☒ Export All ☐ Export This Page ☐ Export Selected

Confirm

Cancel

### 7.2.4 Search Face Photos

Choose a person library and set search criteria to search for face photos in the library. You can set search criteria including name, ID number, phone number, email, gender, and model status.

Please enter nan

Please enter nur

Please enter phc

Please enter email addr

Gender: All

Model Status: All

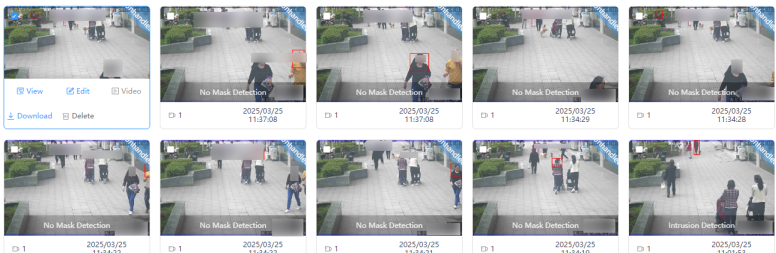
Search

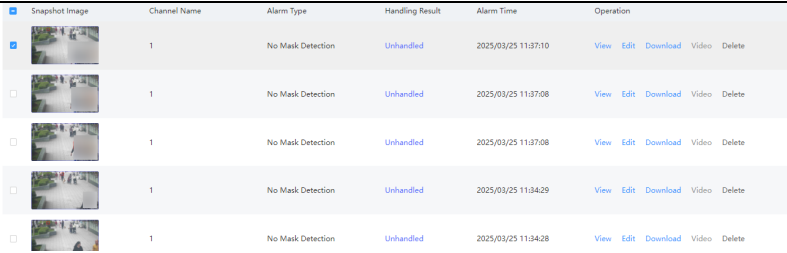
## 8 Data Search

### 8.1 Data Search

#### 8.1.1 Behavioral Data

Search analysis results from channels configured with behavior analysis tasks.

| Operation       | Description                                                                                                                                                                  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Search criteria | You can set search criteria including channel, alarm type, handling result, and time.                                                                                        |
| Layout          | <ul style="list-style-type: none"> <li>● Grid layout  </li> <li>● List layout</li> </ul> |

| Operation                       | Description                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 |                                                                                                                                                                                                                                                                                                                    |
| View/Edit/Video/Download/Delete | <ul style="list-style-type: none"> <li>● In grid layout mode, hover the mouse over the target image to perform an action.</li> <li>● In list layout mode, click a button as needed.</li> </ul> <p><b>Note:</b><br/>You can delete multiple items in batches by selecting them and then clicking  <b>Delete</b>.</p> |
| Select This Page                | Select to delete or export the items displayed on the current page.                                                                                                                                                                                                                                                                                                                                  |
| Export                          | Click <b>Export</b> and then select <b>Export All</b> , <b>Export This Page</b> , or <b>Export Selected</b> to export alarm images or alarm videos as needed.                                                                                                                                                                                                                                        |
| Import to Work Clothes Library  | Select items, and then click this button to import them to a specified work clothes library.                                                                                                                                                                                                                                                                                                         |

## 9 Network Configuration

### 9.1 TCP/IP

#### Basic Information

Click **Edit** to edit the basic network information.

- Static: Click **Static**, and then set the IP address, subnet mask, and default gateway manually.
- DHCP: Use DHCP to automatically assign the IP address, subnet mask, and default gateway.



#### NOTE!

If the server needs to connect to both the WAN and LAN, you need to set up a dual-NIC configuration.

#### DNS Server

Choose a reliable and trustworthy DNS server to avoid security risks. If the preferred DNS server is unavailable, the alternate server will take over automatically.

#### Default NIC

Choose a preferred NIC for network communication and data transmission, and then click **Save**.

### 9.2 Custom Route

Click **Add** to add a custom route.

One-Click Route Setup: Use this function to restore with one click if the added custom route becomes invalid.

Add Route
×

\* Status
☒ Enable
☐ Close

\* Select NIC

eth0

\* IP Segment

\* Subnet Mask

\* Default Gateway

Confirm

Cancel

## 9.2.1 Face Data

You can view and delete the retrieved face data.

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Search criteria          | You can set search criteria including channel, time, name, and match result.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Layout                   | <div><div><div><div>● Grid layout</div><div><div>Behavioral Data</div><div>Face Data</div></div><div><div><div>1</div><div>Please enter name.</div><div>2025/03/25 00:00:00</div><div>2025/03/25 23:59:59</div><div>Match: All</div></div><div><div>Gender: All</div><div>Age: All</div><div>Glasses: All</div><div>Mask: All</div><div>Search</div><div>Refresh</div></div><div><div><input type="checkbox"/> Select This Page</div><div>Delete</div><div>Export</div></div><div><div>Grid</div><div>List</div></div></div><div><div><div><div></div><div>Face Detection</div><div><div>View</div><div>Import ...</div><div>Delete</div></div></div><div><div>1</div><div>2025/03/25 10:54:46</div></div><div><div>1</div><div>2025/03/25 10:54:40</div></div></div></div><div><div><div>● List layout</div><div><div><input type="checkbox"/> Select This Page</div><div>Delete</div><div>Export</div></div><div><div>Grid</div><div>List</div></div></div><div><div><div><div><input type="checkbox"/> Snapshot Image</div><div>Library Member</div><div>Person Name</div><div>Channel Name</div><div>Alarm Type</div><div>Alarm Time</div><div>Operation</div></div><div><div><div><div></div><div><input type="checkbox"/></div></div><div>test</div><div>Face Detection</div><div>2025/03/26 09:52:12</div><div><div>View</div><div>Import to Person Library</div><div>Delete</div></div></div><div><div><div><div></div><div><input type="checkbox"/></div></div><div>test</div><div>Face Detection</div><div>2025/03/26 09:52:05</div><div><div>View</div><div>Import to Person Library</div><div>Delete</div></div></div><div><div><div><div></div><div><input type="checkbox"/></div></div><div>test</div><div>Face Detection</div><div>2025/03/26 09:51:32</div><div><div>View</div><div>Import to Person Library</div><div>Delete</div></div></div></div></div></div></div></div></div></div></div></div> |
| View / Delete            | <div><div><div>● In grid layout mode, hover the mouse over the target image to perform an action.</div><div>● In list layout mode, click a button as needed.</div></div><div><div>Note:</div><div>You can delete multiple items in batches by selecting them and then clicking <div><div><div><div><div></div></div><div>Delete</div></div></div></div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Select This Page         | Select this option to delete or export the items displayed on the current page.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Export                   | Click <b>Export</b> and then select <b>Export All</b> , <b>Export This Page</b> , or <b>Export Selected</b> to export alarm images.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Import to Person Library | Hover the mouse over an image, click this button, complete the library information and person information, and then click <b>OK</b> to import the image.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## 9.3 Target Search

You can search for targets using the Search Image by Image method.

4. Select a source image.
  - Face Library Upload: Select a face image from the face library. You can search for the image by face library, person name, and ID number.
  - Local Upload: Upload an image from local.
5. Specify the search range.
  - Face Library: Choose the face library where the target is located.
  - Face Snapshots: Select the snapshot channel and time.
6. Set the similarity threshold between the target and the source image and maximum number of images can be retrieved.
7. Click **Search**. The search results are displayed on the right. You can also hover the mouse over an image and click **View** to view details.

Face Library Upload Local Upload

Target Search

Search Range

Face Library

Face Library

Default List x

Similarity

80 100%

Image Retrieval Count

50

Search Reset

Similarity 99%

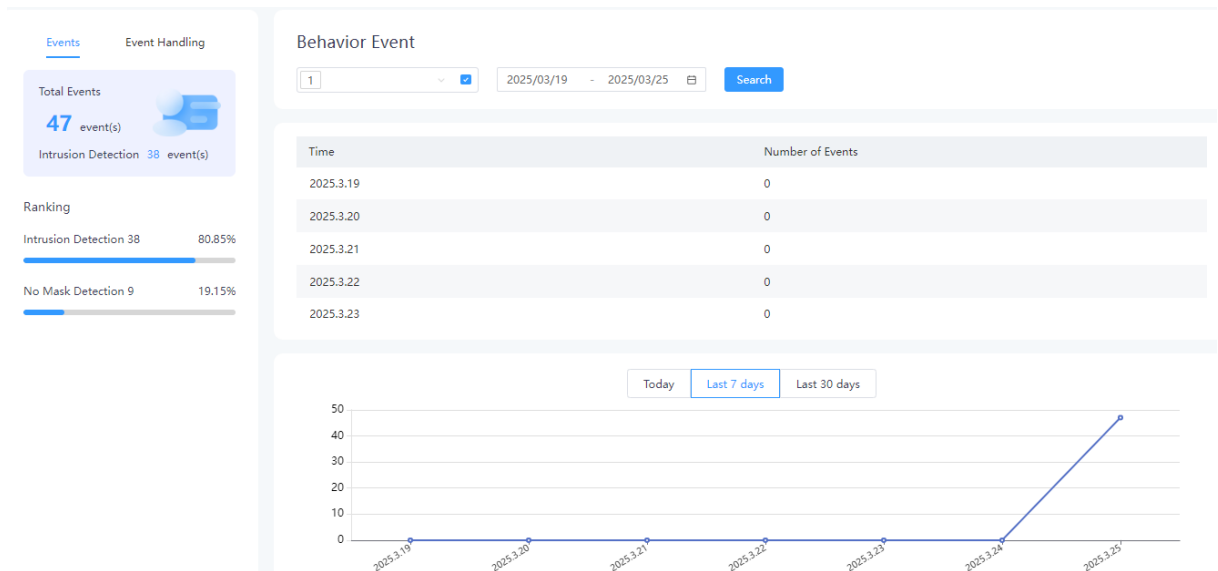
2

Total: 1 < 1 > 12 / Page Goto

# 10 Analysis & Statistics

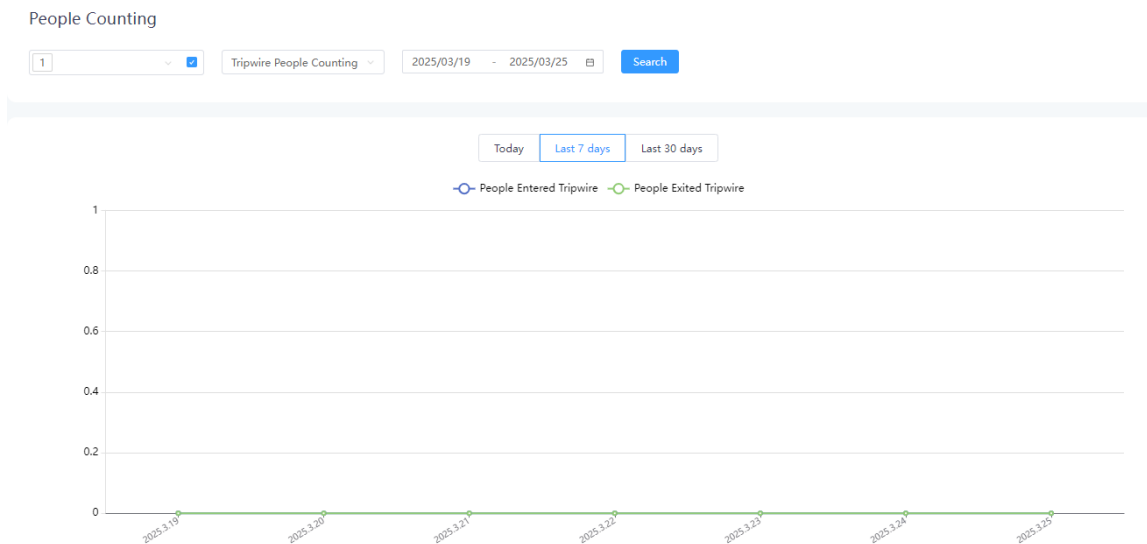
## 10.1 Behavior Events

View behavior event statistics including event ranking, event trend, and event statistics, and search behavior events.



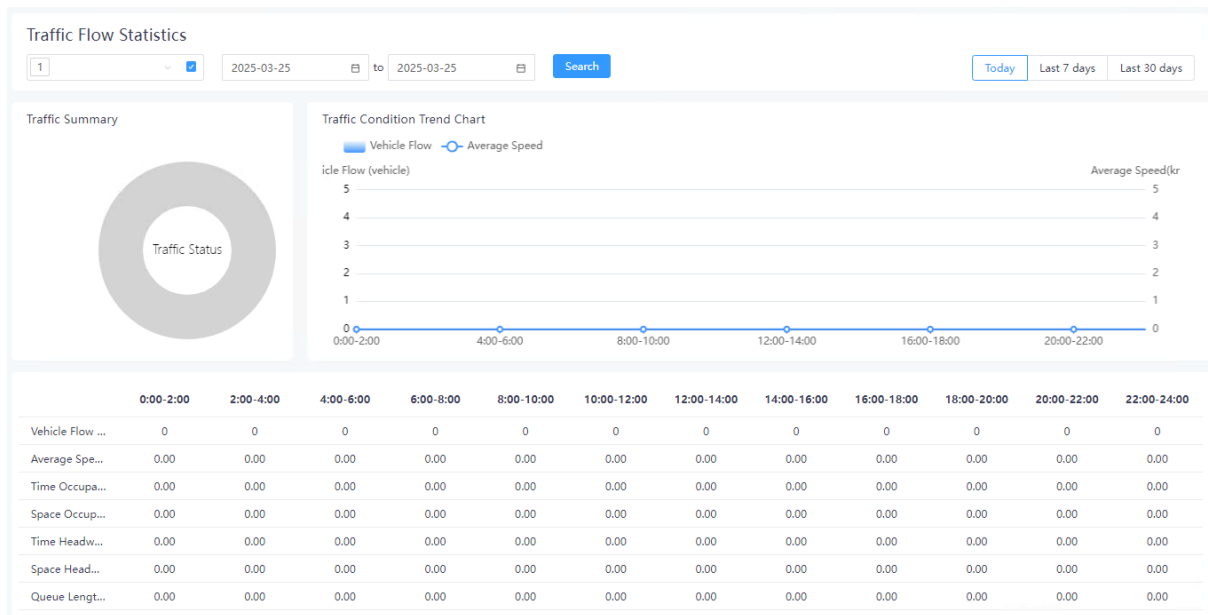
## 10.2 People Counting

The people counting function counts the number of people crossing a tripwire or within a designated area. You can view the statistics by specifying the channel and date.



## 10.3 Traffic Flow Statistics

Select a channel and set a time period to view the analysis results of traffic events in a chart.



# 11 Platform Configuration

Platform configuration is used to integrate the server with other platforms.

## 11.1 Alarm Center

### 11.1.1 Platform Configuration

Platform ConfigUpload Time Interval Config

Platform 1

Interface Version

V2.0

Upload Image Data

Enable

Close

Upload Video Data

Enable

Close

Report Channel Status

Enable

Close

HTTP/HTTPS Keep-alive

Enable

Close

Keep-alive Time

30

seconds

Resume upon disconnection

Enable

View

Delete

Resume mode

Resume all

Push Address

http://ip:port/url or ws://ip:port/url

Platform 2

Interface Version

V2.0

Upload Image Data

Enable

Close

Upload Video Data

Enable

Close

Report Channel Status

Enable

Close

HTTP/HTTPS Keep-alive

Enable

Close

Keep-alive Time

30

seconds

Resume upon disconnection

Enable

View

Delete

Resume mode

Resume all

Push Address

http://ip:port/url or ws://ip:port/url

Save

When data integration is configured, alarms will be reported to the third-party platform by default. For detailed configuration steps, please contact technical support.

- Interface version: Choose the correct interface version.
- Upload image data: When enabled, the server can upload images to the third-party platform.

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- Upload video data: When enabled, the server can upload videos to the third-party platform.
- Upload channel status: When enabled, the server can upload channel status to the third-party platform.
- HTTP/HTTPS keep-alive: When enabled, the server will send keep-alive messages to the third-party platform.
- Keep-alive time: Set the interval for the server to send keep-alive messages.
- Resume upon disconnection: When enabled, alarms that failed to be reported to the third-party platform due to a disconnection will be re-reported according to the rules set in **Resume mode** after the network is restored.



#### NOTE!

- If disabled, the alarms that failed to be reported will be retained.
  - You can click **View** to view the number of alarms that failed to be reported. After the network is restored, the number of alarms not reported will decrease accordingly.
  - You can click **Delete** to remove all alarms that failed to be reported to the third-party platform.
- 
- Resume mode:
    - Resume all: Re-report all alarms that failed to be reported.
    - Resume by day: Set a range of 1-30 days and re-report alarms that failed to be reported within that period.
    - Resume by item: Set a range of 100-20,000 items and re-report the most recent X number of alarms that failed to be reported.
  - Push address: Third-party platform address used to receive data from the server.

### 11.1.2 Upload Time Interval Configuration

Set the time interval for sending data to the third-party platform.

### 11.1.3 Audio Column Configuration

Enter the column speaker's IP address, set the audio volume, and then click **Save**.

After the configuration is completed, when an alarm is triggered by a channel, the column speaker will play the preset audio, which can be customized (see [Upload Audio](#) for specific steps).

Platform Config
Upload Time Interval Config
Audio Column Config

Refresh

| Channel      | Audio Column IP               | Audio Column Status | Audio Volume                                         |
|--------------|-------------------------------|---------------------|------------------------------------------------------|
| 216.216.50.4 | Please enter audio column IP. | -                   | <div> <div>-</div> <div>60</div> <div>+</div> </div> |

## 11.2 Video Convergence Platform

Set the target platform for local data reporting.

## Video Convergence Platform

Enable Analysis ☒ Enable ☐ Close

\* Platform Type

\* IP/Domain Name

Port

\* appkey

\* appsecret

\* Username

\* Password

Save

| Parameter      | Description                                                       |
|----------------|-------------------------------------------------------------------|
| Platform Type  | VMS: Our company's VMS device.                                    |
| IP/Domain Name | Enter the IP address or domain name of the target platform.       |
| Port           | Use the default port number (80) or enter the actual port number. |
| appkey         | Obtain from the target platform.                                  |
| appsecret      | Obtain from the target platform.                                  |
| Username       | Enter the username of the target platform.                        |
| Password       | Enter the password of the target platform.                        |

## 11.3 EZCloud

Enable EZCloud and then click **Save** to manage the server on the EZCloud platform. Information that can be uploaded to EZCloud includes alarm records and snapshots (can be enabled or disabled as needed).

### EZCloud

Device Status: Offline

EZCloud ☐ Enable ☒ Close

Server Address

Register Code

Username

Device Name

Service Agreement <https://ezcloud.uniview.com/doc/termservice.html>

Snapshot Upload ☒ Enable ☐ Close

Scan QR Code 

Save

# 12 Auto-Learning

## 12.1 Sample Library

The sample library collects samples for algorithm's automatic learning, which helps reduce future false alarms.



### NOTE!

This function is currently available for Intrusion Detection (target type is pedestrian), Cross Line Detection, Climbing Detection, and Long Stay Detection.

| Item    | Description                                                                                                                      |
|---------|----------------------------------------------------------------------------------------------------------------------------------|
| Add     | <a href="#">Behavioral data</a> marked as a false alarm are automatically added to the sample library.                           |
| Delete  | If a data is mistakenly marked as a false alarm, you can select it and click <b>Delete</b> to remove it from the sample library. |
| Refresh | Refresh the sample library.                                                                                                      |

## 12.2 Smart Configuration

Choose whether to enable Auto-Learning. If enabled, when an alarm is triggered, the algorithm will determine whether to report the alarm according to the samples in the library.

Sample Library   Smart Config

Auto-Learning :   ☐ Open   ☒ Close

Save

# 13 System Configuration

The system configuration module includes the basic functions of the system, including role configuration, user configuration, maintenance, version information, operation logs, streaming media management, operator management, time configuration, personalization, and sequence interval.

## 13.1 User Configuration

### 1. Add User

Click **Add**, and then configure the parameters.

Add User

×

\* Username

\* Password

\* Confirm Password

\* Role

Confirm

Cancel

## 2. Set Mobile Phone Number

Click **Set Email**, and set email.

Set Email

×

\* Email :

Confirm

Cancel



### NOTE!

Only admin can configure email.

## 3. Edit user

Once added, the username cannot be changed. Only admin can reset a user's password.

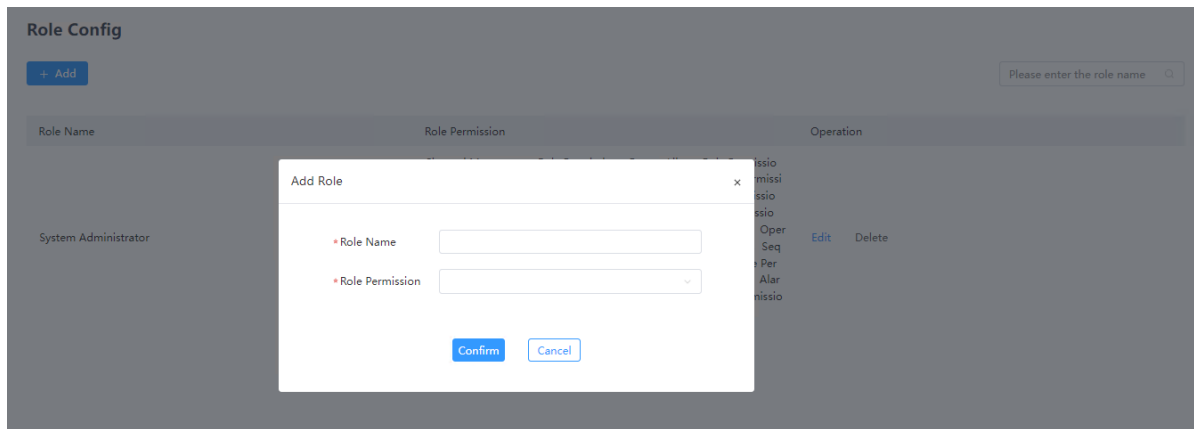
## 4. Delete user

Click **Delete** to delete an unneeded user.

# 13.2 Role Configuration

Add roles and assign them different permissions.

Click **Add** to add a role.



You can edit a role by clicking **Edit** in the **Role** column; or delete an unneeded role by clicking **Delete**.



#### NOTE!

A role that has been assigned to users cannot be deleted.

## 13.3 Time Configuration

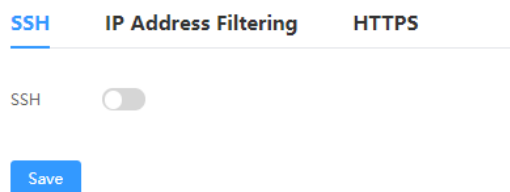
The system's default time zone is UTC +00:00.

- Set Time Manually: Set the date and time manually, or click **Sync with Computer** to sync with the computer time.
- Sync with NTP Server: Enable this function and set the NTP server address, port, and time sync interval.

## 13.4 Security Configuration

### 13.4.1 SSH

When enabled, you can access the device's backend via SSH to perform certain operations.



### 13.4.2 IP Address Filtering

Use IP address to allow or forbid access to the device.

- Blocklist: Access from IP addresses on the blocklist is forbidden. Up to 64 IP addresses are allowed on the blocklist.
- Allowlist: Only access from IP addresses on the allowlist is allowed. Up to 64 IP addresses are allowed on the allowlist.

### 13.4.3 HTTPS

When enabled, the system can be accessed via HTTPS. A certificate is a unique electronic file on the Internet that represents individuals and resources, allowing secure and confidential communication between two entities. Please choose the appropriate certificate type based on your needs. Installed certificates can be deleted as needed.

| Certificate Type                                                                              | Application Scenario           |
|-----------------------------------------------------------------------------------------------|--------------------------------|
| Private Certificate: Install a digital certificate created by the software developer          | For low security requirements  |
| Signed Certificate: Install a certificate signed and certified by a professional organization | For high security requirements |

## 13.5 System Maintenance

The maintenance module includes version upgrade, device restoration, device restart, configuration information, diagnosis information, scheduled restart, and data overwrite configuration.

### Maintenance

The screenshot displays the 'Maintenance' module interface with six panels arranged in a 2x3 grid:

- Version Upgrade:** Contains a text input field and an 'Upgrade' button.
- Restore Device:** Includes a checkbox for 'Clear network and user settings' with a note: 'Note: Checking this option will clear all configurations and require re-initialization setup.' and a 'Restore' button.
- Restart Device:** Displays the text 'The restart takes about 2 to 5 minutes.' and a 'Restart' button.
- Config Info:** Features a text input field, a caution note: 'Caution: Importing configuration will delete the existing channel data.', and 'Import' and 'Export' buttons.
- Diagnosis Info:** Shows the text 'Exporting diagnosis information takes a long time. Please wait patiently.' and an 'Export' button.
- Scheduled Restart:** Includes a toggle switch, a 'Please select time' dropdown menu, and a 'Save' button.
- Data Overwrite Config:** Features a toggle switch, two radio button options for 'Retain' (30 days or 50 records), and a 'Save' button.

#### 1. Upgrade the version

Upgrade the device version by uploading a valid upgrade file and clicking **Upgrade**.

#### 2. Restore default settings

Click **Restore** to restore default settings. You may choose whether to keep the current network settings and user settings.

#### 3. Restart the device

Click **Restart** to restart the device.

#### 4. Configuration information

- Exporting configuration information will download the system's configuration data to your computer, which can be used by other devices.
- Importing configuration information will copy configuration data from another device to the current device.



**CAUTION!**

Importing configurations will delete the current channel data, monitoring data, etc., so proceed with caution.

**5. Diagnosis information**

Export diagnosis information and send it to technical support for troubleshooting if the device encounters any problem.

**6. Scheduled restart**

The device can automatically restart every day at a user-set time.

**7. Data overwrite configuration**

When enabled, new data will overwrite the earliest data when storage is used up. You can also set how many days or pieces of data to be retained.

# 13.6 Version Information

You can view the version information, and set the device name and device ID.

**Version Info**

|                                     |                                        |
|-------------------------------------|----------------------------------------|
| * Device Name                       | <input type="text" value="IA5764@PI"/> |
| * Device ID                         | <input type="text" value="1"/>         |
| Model                               | IA5764@PI                              |
| Serial No.                          | <input type="text"/>                   |
| Firmware Version                    | <input type="text"/>                   |
| Internal Version                    | <input type="text"/>                   |
| Release Time                        | 2025-03-18                             |
| Operation Time                      | 1hour3minute9seconds                   |
| <input type="button" value="Save"/> |                                        |

# 13.7 Personalization

The personalization module includes two parts: logo and name configuration, function display customization.

### 13.7.1 Logo and Name Configuration

Personalization

[Logo and Name](#)    Function Display Customization

System Logo



[Restore Default Style](#)

The maximum image size is 112px\*50px and 2MB. Only JPEG, JPG, and PNG images are allowed.

System Name    ☒ Default Name    ☐ Custom Name   

The default name is [Edge Intelligent Analysis Server](#). The name allows customization and up to 16 characters.

[Save](#)

Users can configure the desired logo style and system name on this page.

- Default name: The default name is Edge Intelligent Analysis Server.
- Custom name: Enable this option, input the custom name, and then click **Save**.

### 13.7.2 Function Display Customization

- Custom name: Set a custom name for the algorithm.
- Alarm Pop-up Window: A alarm pop-up window will appear on the computer screen when an alarm occurs.
- Alarm Audio: An alarm audio will be triggered on the computer when an alarm occurs.

### 13.7.3 Upload Audio

You can customize alarm audio for different intelligent services. The custom audio supports WAV format only, with 16-bit or 32-bit depth, and a sampling rate of 16000-48000.

1. Click **Upload** for an algorithm and select an audio file from local.
2. Click **Play on PC** to output the audio file through the local PC for checking.
3. (Optional) If a custom audio is no longer needed, you can click **Restore Default Audio** to revert to the system's default alarm audio.

Personalization

[Logo and Name](#)    [Function Display Customization](#)    [Upload Audio](#)

| Algorithm Name           | Audio Source  | Operation                                                                               |
|--------------------------|---------------|-----------------------------------------------------------------------------------------|
| Tripwire People Counting | Default Audio | <a href="#">Restore Default Audio</a> <a href="#">Play on PC</a> <a href="#">Upload</a> |
| Calling Detection        | Default Audio | <a href="#">Restore Default Audio</a> <a href="#">Play on PC</a> <a href="#">Upload</a> |

## 13.8 Operation Logs

Operation logs record the operations of different users.

You can set search criteria such as functional module, time range, and execution status to retrieve different operation logs.



**NOTE!**

- The admin super administrator has access to operation logs of all users.
- Other users can only view their own operation logs.

**Operation Log**

Login +7... ☒

2025/03/25 00:00 - 2025/03/25 23:59

All

Search

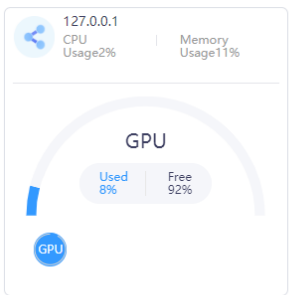
| Time                | Operator | IP Address | Type               | Sub-Type     | Operation Type | Status  |
|---------------------|----------|------------|--------------------|--------------|----------------|---------|
| 2025/03/25 17:46:53 | admin    | 217.1.1.8  | System Config      | SSH Settings | Modify         | Success |
| 2025/03/25 17:40:31 | admin    | 217.1.2.89 | System Config      | User Config  | Add            | Success |
| 2025/03/25 17:19:01 | admin    | 217.1.1.8  | Channel Management |              | Delete         | Success |
| 2025/03/25 17:18:18 | admin    | 217.1.1.8  | Channel Management |              | Modify         | Success |
| 2025/03/25 17:18:11 | admin    | 217.1.1.8  | Channel Management |              | Modify         | Success |
| 2025/03/25 17:17:54 | admin    | 217.1.1.8  | Channel Management |              | Add            | Success |
| 2025/03/25 17:17:50 | admin    | 217.1.1.8  | Channel Management |              | Add            | Success |
| 2025/03/25 17:17:45 | admin    | 217.1.1.8  | Channel Management |              | Add            | Success |
| 2025/03/25 17:17:42 | admin    | 217.1.1.8  | Channel Management |              | Add            | Failure |
| 2025/03/25 17:17:23 | admin    | 217.1.1.8  | Login              |              |                | Success |

## 13.9 Operator Management

The system's algorithmic operations rely on the implementation of algorithms. By default, both the algorithms and software services are deployed on the same server. This means that the default operator usage includes details such as IP, CPU usage, memory usage, and GPU usage.

**Operator Management**

Refresh



## 13.10 Sequence Interval

The sequence function provides real-time video analysis of critical channels and on-demand sequence analysis of non-critical channels. This allows a single device to maximize its capacity for processing concurrent channels.

The sequence interval refers to the processing time allocated to each group of channels. Channels per group = Maximum real-time analysis channels - Dedicated real-time analysis channels. The

maximum number of real-time channels supported varies with device model. Refer to the datasheet for detailed specifications.

### Sequence Interval

Sequence Interval

3

minute

Save

For example, if the device has 100 channels added and supports the concurrent real-time analysis of up to 32 channels, with 12 channels permanently dedicated to critical analysis tasks, then 20 channels remain available for analysis. Enable sequence for the remaining 88 channels, and the system will analyze them in groups of 20 channels at a time. If the last group has fewer than 20 channels, the system will automatically fill the remaining slots by cycling back to the first group, repeating this process as needed.



**NOTE!**

You can enable sequence on the [Channel Management](#) page if required.

# 14 Face Monitoring Task Search

Search for face monitoring tasks by task type, whether they are configured locally or by the upper-level platform. You can also delete tasks that are no longer needed.

Face Monitoring Task Search

Channel Name : 

Please select channel.

 Task Name : 

Please enter task name.

Search

| Task Name          | Channel Name | Library | Monitoring Threshold | Monitoring Type | Monitoring Time | Operation |
|--------------------|--------------|---------|----------------------|-----------------|-----------------|-----------|
| <div>No Data</div> |              |         |                      |                 |                 |           |



**NOTE!**

- For local task configuration, see [Intelligent Analysis Configuration](#).
- The upper-level platform cannot access the tasks configured locally.