RISCO
A LIFETIME OF SECURITY

VMS -
Video Management Software

User Manual

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1. RISCO VMS Introduction

1.1. RISCO VMS Overview

RISCO VMS is a security monitoring device management software that supports centralized management of such as XVR, NVR, IP cameras and PoE switch.

The software features include:

- Resetting the password
- Supporting multiple users
- Adding a single device, device in batches and device with different protocols
- Configuring device remotely
- Viewing videos from multiple devices in real time and playback the recordings
- Supporting the cruise view of videos from multiple devices
- Playing back recordings and viewing captured images remotely
- Configuring various types of alarm detection
- Configuring electronic maps so you can locate device anytime to deploy and manage the device easily
- Querying and exporting logs
- Supporting face recognition, human and vehicle detection and license plate recognition
- Supporting AI configuration and attendance management
- Supporting AI scene preview, search and configuration
- Supporting face recognition, license plate recognition, human and vehicle detection, perimeter intrusion detection, line crossing detection, cross counting, crowd density detection, queue length detection and more
- Importing and exporting device information files with one click
- Managing files, viewing images and videos separately

1.2. RISCO VMS Running Configuration Recommended

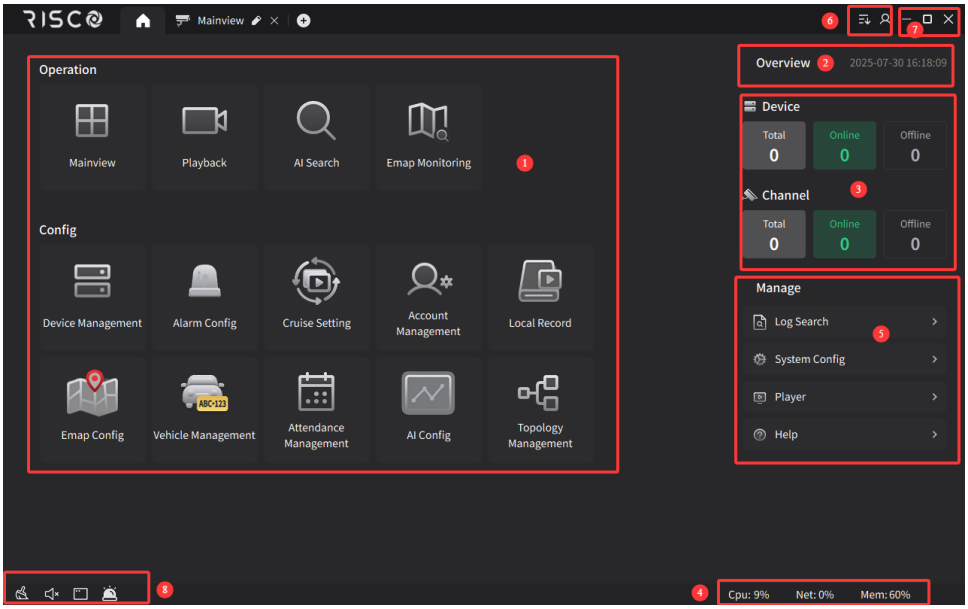
The software configuration includes the operating system, CPU, memory, and graphics card.

- Operating system: Microsoft Windows 7/10/11 & MacOS 11.6 or higher
- CPU: Intel® Core™ i5-4590 @3.3 GHz or higher
- Memory: 4 GB or higher
- Graphics card: NVIDIA GT 730 or higher

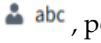
Note: The higher the PC configuration, the more channels can be previewed or played back simultaneously.

1.3. RISCO VMS Main Interface

The RISCO VMS software main interface is shown in the following figure.



1. **Function operation area:** Displays the main functions supported by the client.
2. **System time display:** Real-time display of date and time.
3. **Devices statistics:** Support to display the number of added devices, online devices, and offline devices in real time, the number of total channels, online channels and offline channels.
4. **PC performance display:** Real-time display of the current PC's network, CPU, GPU and memory usage.
5. Can perform log search, system configuration, open the player and view the client version.
6. **User management:** Click , view the video being downloaded and completed.

- Click  and select  , lock the screen, require the login password to unlock.
- Click  and select , display the software name and version number.
- Click  and select  , pop up the login interface of the current user.

7. **Window management:** Click  , minimize the software window.
   - Click  , maximize the software window.
   - Click  , restore to the initial software window.
   - Click  , exit the software.
8. **Event management:** Click the icon to switch alarm prompt to silent or sound.
   - Click  icon to switch the alarm pop-up box to hide or show.
   - Click  icon to clear the alarm information.
   - Click  icon to view the alarm information of the device hard disk error. For details, please refer to Alarm Settings.

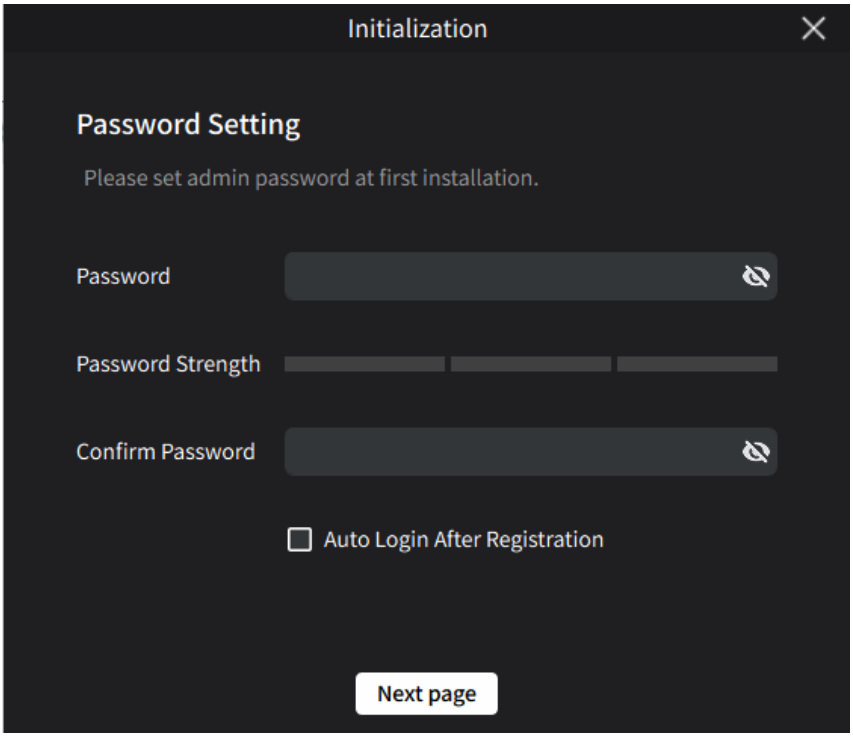
2. Registration and Login

2.1. Creating Administrator Account

When logging in to RISCO VMS for the first time, please set the administrator login password and security questions according to the system prompts, the login password you set is used to log in to the system, and the security questions you set can be used to reset the password by answering the questions..

1. Double-click 

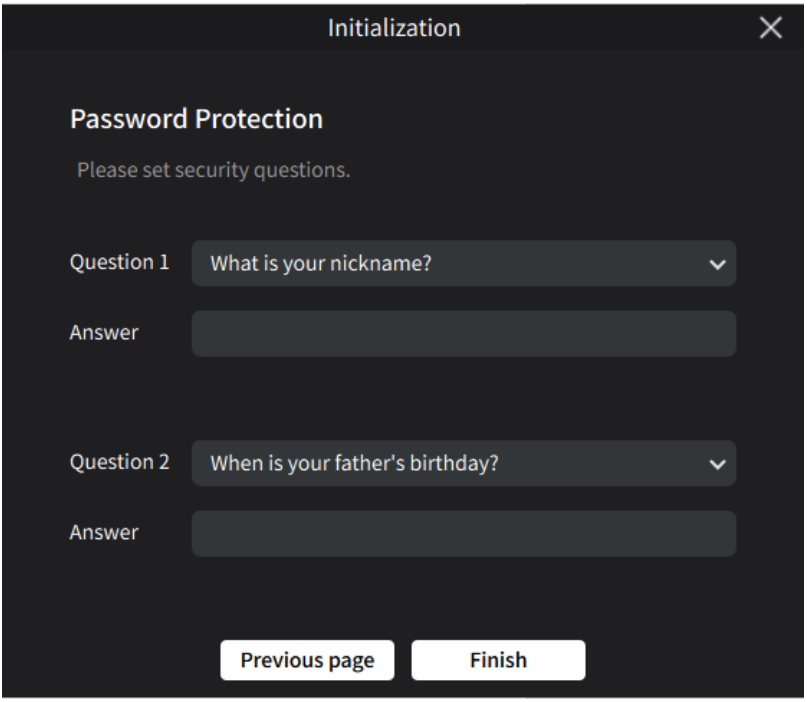
, the **Initialization** screen is displayed, as shown in the following figure.



2. Set the administrator password.
   - **Password:** The password can be set to 8 to32 characters without spaces, and can be composed of uppercase letters, lowercase letters, digits and special characters.

- **Password Strength:** The color indicates the strength of the password, the colors of the passwords are red, yellow and green, from weak to strong. It is recommended that the password be set to a combination of 3 or more characters.
- **Confirm Password:** Must be consistent with the password field.
- **Auto Login After Registration:** If selected, you log in to the system automatically after registration. Otherwise, the system login screen is displayed.

3. Click the "**Next**" button after setting the password, enter the password protection setting page.

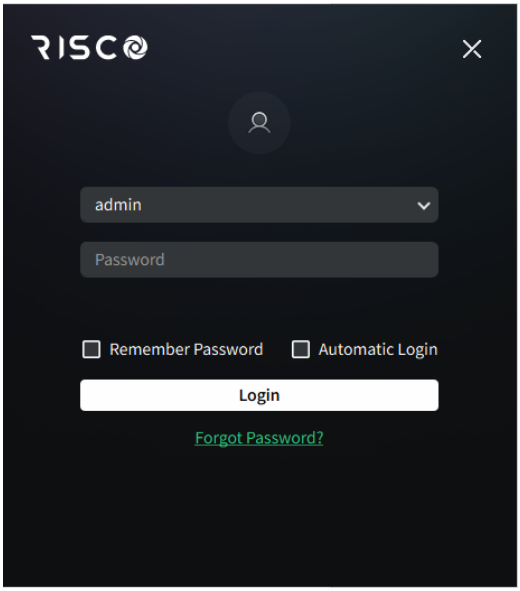


4. Select questions and enter the answer. If you forget your password, you can reset the password by answering the questions.
5. After the settings are completed, click Finish to save the configuration.

2.2. Login into RISCO VMS

After completing the system administrator registration, enter the login screen.

RISCO VMS supports the management of all the devices. Enter the system registration password, click Login, and enter the system page.

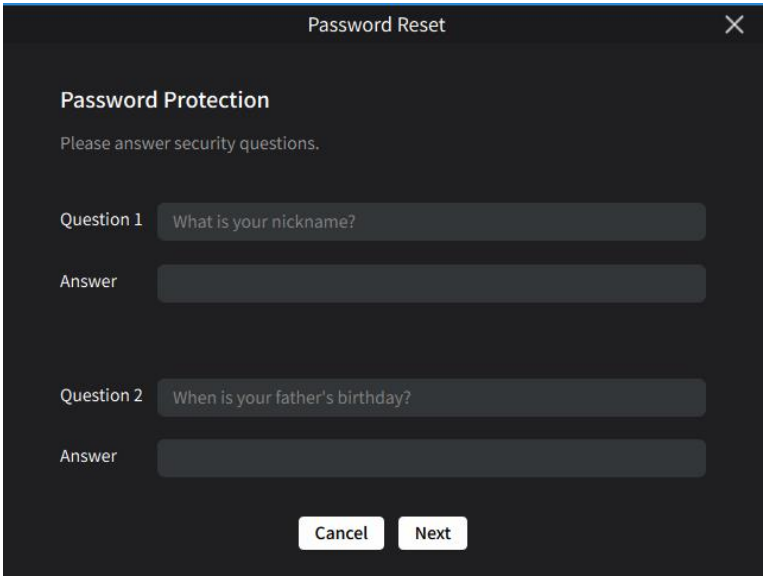


Note: After checking Remember Password, the system will remember the password and you don't need to enter the password when you log in again. Check Automatic Login, and the system will automatically log in and enter the system when you log out and open it again.

2.3. Resetting the Password

When a user forgets his password, he can reset it by clicking the "Forgot Password" button at the bottom of the login page.

Click "**Forgot Password**" to open the password reset page. After the user passed the question verification, they can reset the password.


Password Reset
Password Protection
Please answer security questions.
Question 1
What is your nickname?
Answer
Question 2
When is your father's birthday?
Answer
Cancel
Next

3. Device Management

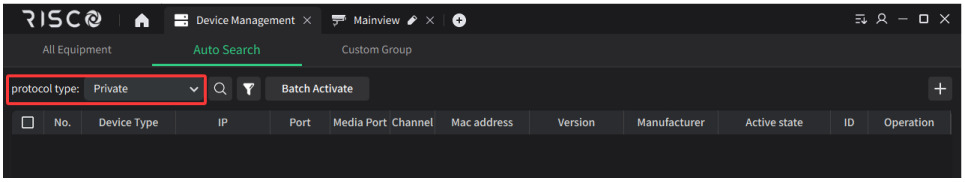
RISCO VMS supports adding devices (such as IPC, NVR, XVR, etc.) individually or in bathes through LAN search and manual methods, and manages for the added devices.

3.1. Device Search

On the Device Management -- Automatic Search page, click the Search button to search and display the devices in the current LAN.

3.1.1. Search by Protocol Type

1. On the Devices Management -- Automatic Search page, you can search for devices by selecting the protocol type, as shown in the following figure.



Note: RISCO VMS supports searching for private, Hikvision, Dahua and ONVIF protocol types.

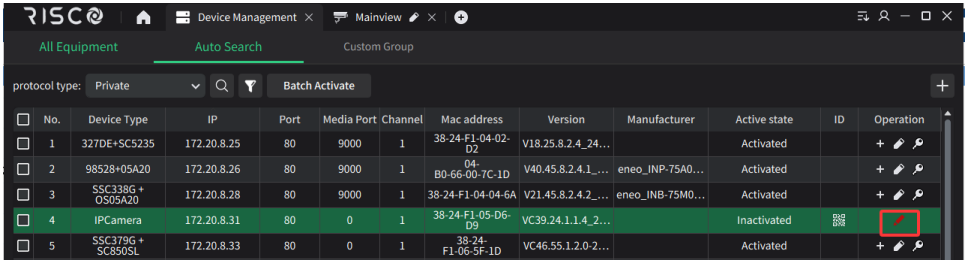
3.1.2. Search by Network Segment

By setting a specified network segment, you can search for devices whose IP addresses are within the set network segment.

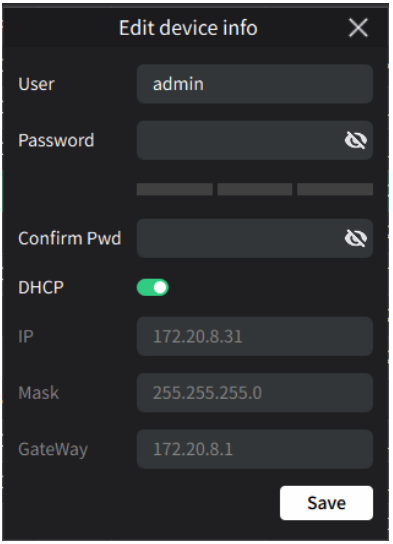
1. On the Device Management -- Automatic Search page, click  , the system pops up 'Search by segment' interface, fill in the network segment according to actual needs, and click "search" to start searching..

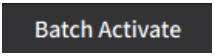
3.2. Activate the Device

When the searched device is in an inactive state, you can activate the device, as shown in the following figure.



1. Click  button, the activate operation pop-up window pops up, as shown in the screen below.



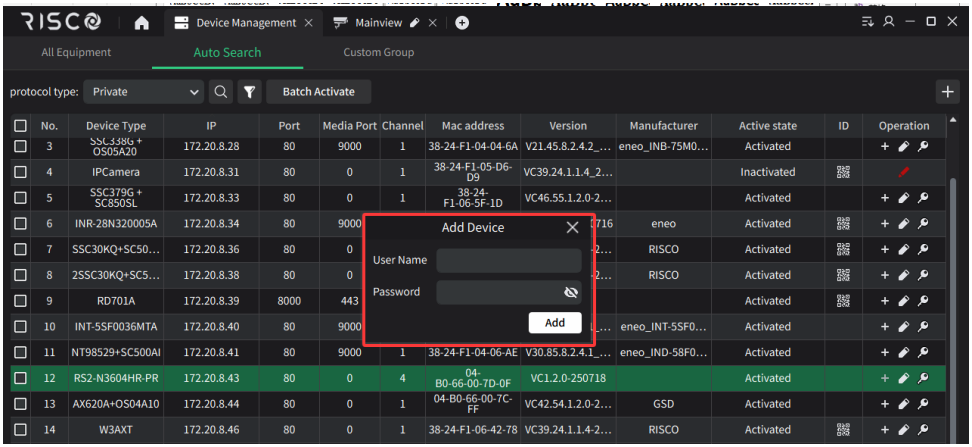
2. Set a password to complete the activation of the device. You can also set the network parameters of the device during activation. When you need to activate multiple devices, you can select multiple devices and click the "**Batch Activate**" button at the top of the page  to activate multiple devices.

Note: The password must meet the device password rules, after successful activation, the device will be automatically added to RISCO VMS

3.3. Add Devices

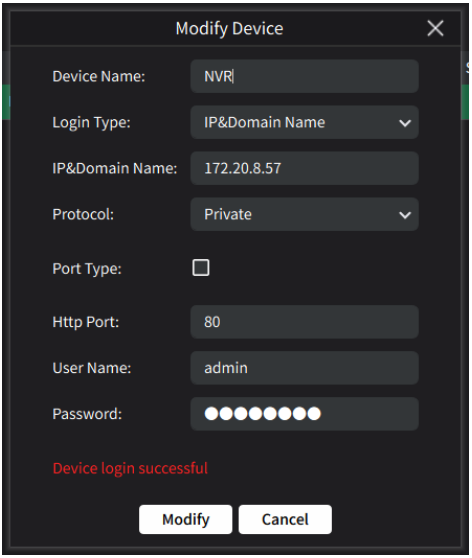
3.3.1. Search Add

On the Device Management -- Automatic Search page, click Search button to search for LAN devices. Select one or more devices based on the search results. Click the Add button and enter User Name and Password of the device in the pop-up menu to add it, as shown in the below picture.



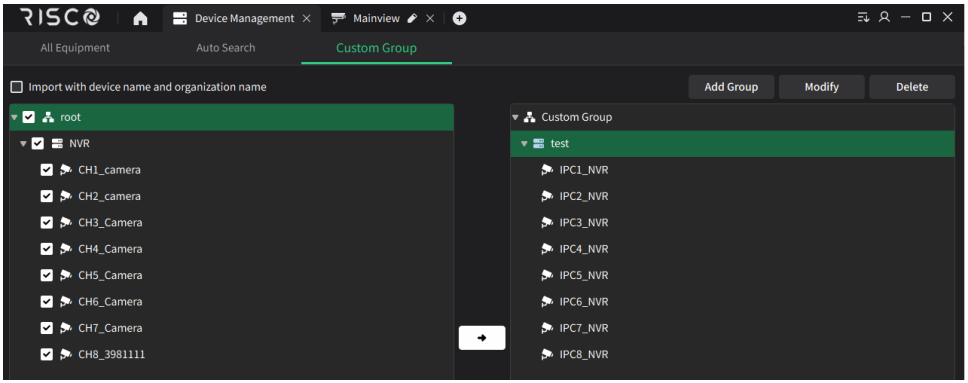
3.3.2. Manual Addition

On the Device Management -- All Devices page, click the Add button. support adding devices by IP&Domain Name.



3.4. Custom Group Management

In the Device Management - Custom Group interface, you can create a new custom group and assign the channels of the added devices to the new group to facilitate centralized management of specific device channels.

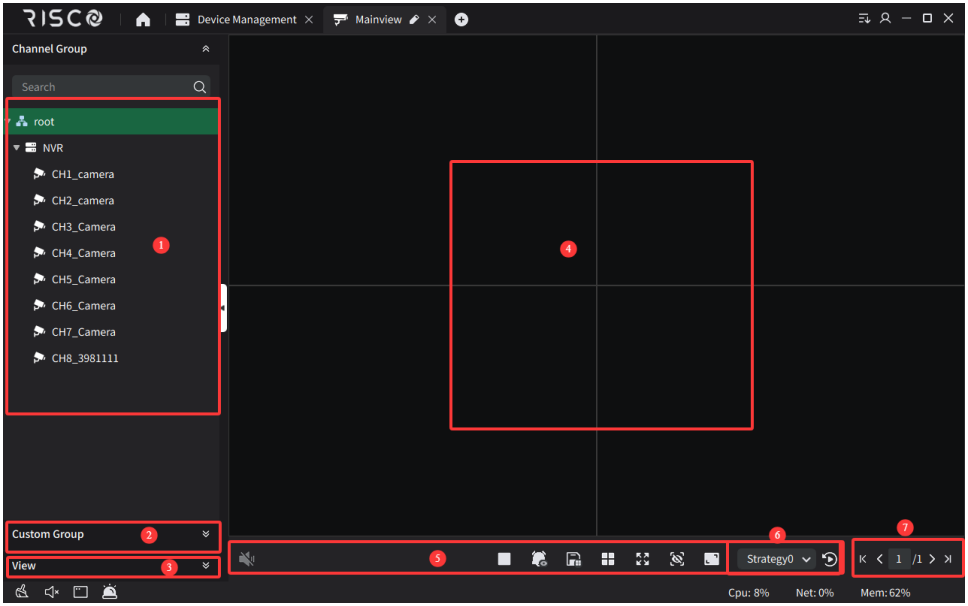


1. Click Add Group button, set the group name in the pop-up menu, and create a group.
2. Select the device channel in the list on the left, click  button, Import into new group.

Note: When "Import device name and organization name" is not selected for import, the channels will be imported into the custom group, not into the organization.

4. Preview

4.1. Interface Introduction



Select "**Mainview**" in the "Main Menu" and the system will enter the preview interface. The function introduction is as follows.

1. **Root group:** This group displays devices added by IP, P2P ID, and DDNS.
2. **Account group:** This group displays devices bound to the current cloud account.
3. **Custom Group:** Click Custom Group to expand the custom group, which supports previewing the devices added to the group. For specific device adding methods, see Custom Group Management.
4. **View:** To preview multiple device channels at the same time, click the button below to save the current preview window channel to the view so that it can be directly called next time
5. **Preview window area:** Select a device or channel and drag it to this area to preview and control the channel.

6. **Preview control area:**

 : Controlling Audio

 : Switching between main and sub streams
 : Stop previewing in all windows
 : Turn on/off warning light
 : Turn on/off warm light
 : Turn on/off the alarm

 : Turn on/off privacy mode
 : Remove the alarm and video labels from the preview screen
 : Click enter the preview layout page, you can customize the preview layout, up to 5
 : Full screen display
 : Open/close the sidebar alarm box, displaying the smart alarms generated by the devices added to RISCO VMS
 : Click enter the manual alarm page and turn on/off the manual alarm
 : Save Preview

 : Click enter the screen display ratio setting page, you can set 4 screen display ratios: stretch, 16:9, 4:3, and original ratio

7. If a channel PTZ plan has been configured, you can select a plan in this area to start PTZ.
8. If the preview channel is not fully displayed in the current window layout, you can switch to different preview pages here.

4.2. Live Preview

View the camera image in real time, and support local recording, screenshots, voice intercom, electronic zoom and other operations.

4.2.1. Preview Operation

1. In the preview state, the operations that can be performed at the bottom of the channel and in the right-click menu are as follows:
   -  **Manual recording:** You can manually record the preview image and save it to your local computer
   -  **Manual capture:** You can capture the preview screen and save the image to the local computer

- **Electronic zoom:** Click the left mouse button to zoom in on the selected area in the preview screen
- **Channel intercom:** Click intercom with the front-end camera (the camera must support the intercom function)
- **Device intercom:** Click intercom with the device (the device must support the intercom function)
- **Tags:** Add tags to mark specific events for easy retrieval
- **Instant playback:** Default fast playback of the current time before 10 minutes of recording, the duration can be modified in the system settings
- **PTZ control:** Click open the PTZ operation page, where you can adjust the viewing angle of the device.

2. **Video Settings:** Select the preview channel and right-click Video setting to open the video parameter setting menu. This menu supports setting the channel name, date and time, and image color parameters.
3. **Fisheye Mode:** Connect to the channel of the fisheye camera and select the corresponding view according to the installation method. In the preview or playback window, click "" or right-click and select Fisheye to open the fisheye menu, as shown in the below picture.

4. Select the corresponding mode according to the actual installation of the camera. In the selected mode, you can operate different views and preview from multiple angles.

Ceiling/wall/ground mounting: Original image, that is, the original image without correction.

Ceiling mounting: that is independent sub-screens, the sub-screens support zoom and move operations.

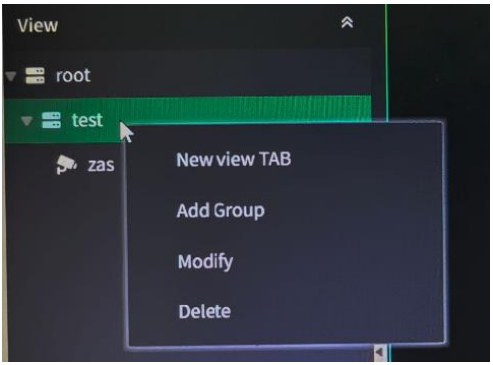
Ceiling/ground mounting:

- VR mode, double-Click enter, the screen supports zoom and move operations.
- Cylindrical mode, drag the mouse up and down to switch the cylindrical screen to flat display, the screen supports up, down, left, and right drag operations
- 4 independent sub-screens, the sub-screens support zoom and move operations.
- 2P: 2 associated 180°rectangular expansion screens, the two sub-windows form a 360°panorama at any time, also known as "double panorama", the two rectangular expansion screens both support left and right movement of the starting point operation, and are linked to each other.
- 1P: 360°rectangular unfolded panorama, rectangular unfolded panorama supports mobile operation.
- : 1P+1, 360°rectangular panorama + 1 independent sub-screen, the sub-screen and the sub-frame in the rectangular panorama support zoom and move operations. The rectangular panorama does not support zoom and move operations.
- : 1P+3, 360°rectangular panorama + 3 independent sub-screens, the sub-screens and the sub-frames in the rectangular panorama support zoom and move operations. The rectangular panorama does not support zoom and move operations.
- : 1P+6, 360°rectangular panorama + 6 independent sub-screens, the sub-screens and the sub-frames in the rectangular panorama support zoom and move operations. The rectangular panorama does not support zoom and move operations.

-  : 1P+8, 360°rectangular panorama + 8 independent sub-screens, the sub-screens and the sub-frames in the rectangular panorama support zoom and move operations. The rectangular panorama does not support zoom and move operations.
- Ceiling/ground mounting:
-  : 1+3, original image + 3 independent sub-pictures, the sub-pictures and sub-frames in the original image support zoom and move operations. The original image supports zoom operations.
-  : 1+8, original image + 8 independent sub-pictures, the sub-pictures and sub-frames in the original image support zoom and move operations. The original image supports zoom operations.
- Wall mounting:
-  VR mode, double-Click enter, the screen supports zoom and movement operations.
-  1P, unfold the panorama from left to right 360°rectangle and change the vertical viewing angle. Does not support zoom and move operations.
-  4, 4 independent sub-screens, the sub-screens support zoom and move operations.
-  1P+3, 360°rectangular panorama + 3 independent sub-screens, the sub-screens and sub-frames in the rectangular panorama support zoom and move operations. The rectangular panorama changes the vertical viewing angle and does not support zoom and move operations.
-  1P+8, 360° rectangular panorama + 8 independent sub-screens, the sub-screens and sub-frames in the rectangular panorama support zoom and move operations. The rectangular panorama changes the vertical viewing angle and does not support zoom and move operations.
-  1+3, original image + 3 independent sub-pictures, the sub-pictures and sub-frames in the original image support zoom and move operations. The original image supports zoom and move operations.
-  1+8, original image + 8 independent sub-pictures, the sub-pictures and sub-frames in the original image support zoom and move operations. The original image supports zoom and move operations.

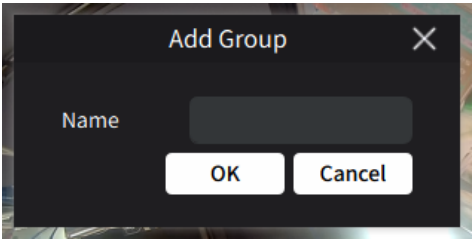
4.3. View Settings

On the preview interface, click View to enter the view page, where you can set and view custom views.



4.3.1. Add Group

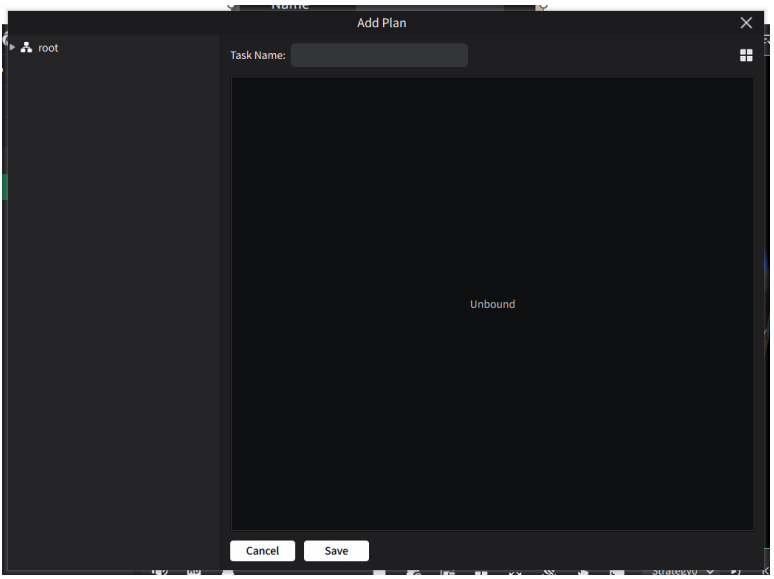
1. Right-click on the root of the view tab to open the right-click menu options. You can only add groups on the root. Select "Add Group" as shown in the screen below.



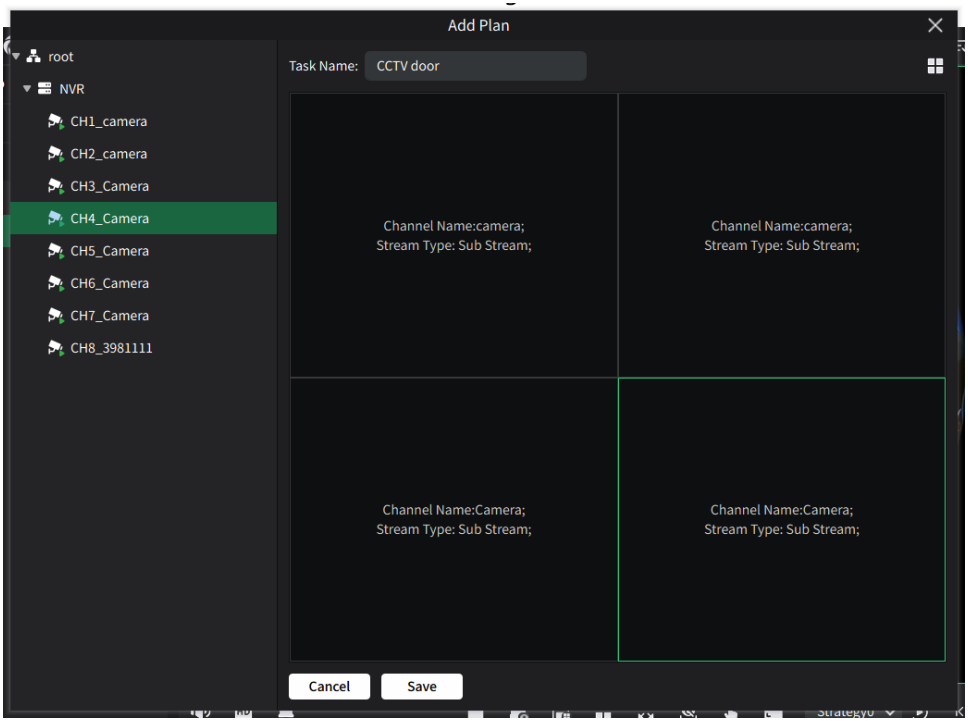
2. Edit the custom name and click OK to create the group.

4.3.2. Add Plan

1. Right-click on the custom added group and select "New view TAB" to open the plan settings interface as shown in the screen below.



2. In the upper right corner, click to select the required split screen, select the channel from the device list on the left, drag it into the view window and save it.



4.3.3. Modify or Delete View Tabs:

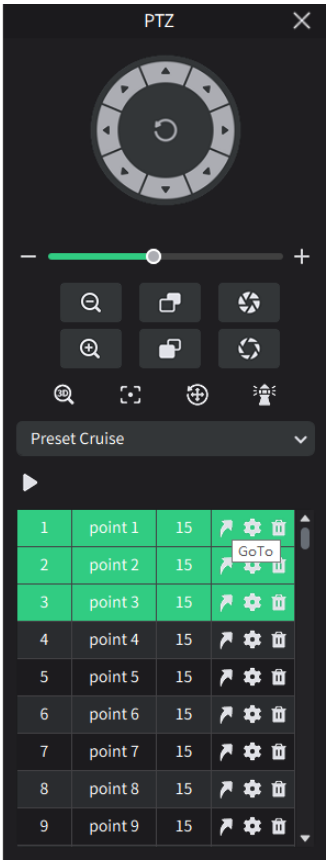
1. In the view tab directory, select "**Modify**" to modify the view tab or group.
2. In the view tab directory, select "**delete**" to delete the view tab or group.

4.3.4. Switch View Tab Preview

After adding a few more view tabs, double-click the view tab to quickly switch the preview view.

4.4. PTZ Control

1. In the preview interface, click  to enter the PTZ control panel. Depending on the connected camera, the functions supported by the PTZ may vary. Take the PTZ camera as an example:



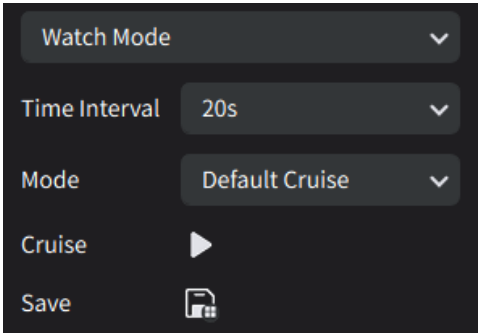
2. **3D Position:** Enable / disable the 3D positioning function. Clicking  means turning on 3D positioning, after turning it on, the button changes to  . When you click the button again, 3D positioning will stop. When the system turns on the 3D positioning function, you can perform the following operations.
3. Use the left mouse button to click somewhere on the preview screen, and the network high-speed dome will move the corresponding point to the center of the video.
4. Press and hold the left button to pull out a rectangular area to the lower right (upper), and the network high-speed dome will move its center to the center of the video and zoom in.
5. Press and hold the left button to pull out a rectangular area to the upper left (lower), and the network high-speed dome will move its center to the center of the video and zoom out.
6. **PTZ Reset:** One-key reset. Click this button and the network high-speed dome will clear the preset points and cruise path.
7. **One-key watch:** Click execute one-key watch once, this function depends on the model.
8. When the network high-speed dome turns on the watch function and no control signal arrives after the set watch waiting time, the network high-speed dome will automatically execute the preset action.
9. Select the cruise mode as Watch Mode.
10. Set the time interval: When manually rotating the network high-speed dome, wait for 20 seconds to resume the watch action, and you can choose 15-240 seconds.
11. Select the watch mode: there are default cruise, preset point, linear scan, track cruise and pattern scan options.

    Note: Only one watch point can exist at the same time.

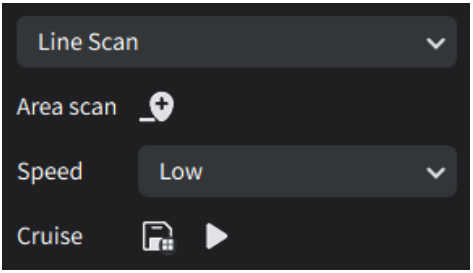
12. **Default cruise:** Click the call cruise button, and the device will perform an uninterrupted 360° uniform counterclockwise rotation.

The save button allows the network high-speed ball to save the set parameters without turning on the watch function. Turning on the cruise button can save the set parameters and turn on the watch function.

The watch mode is shown in the screen below.



13. **Linear Scan:** Select the cruise mode as Line Scan, click to record the current position of the device as the starting position, rotate the device, and click the end button, and record the current position of the device as the ending position. Click the Save button to save the three cruise speeds of high, medium or low. Click the Cruise button, and the device will cruise at a constant speed between two points. The Linear Scan page is shown in the screen below.

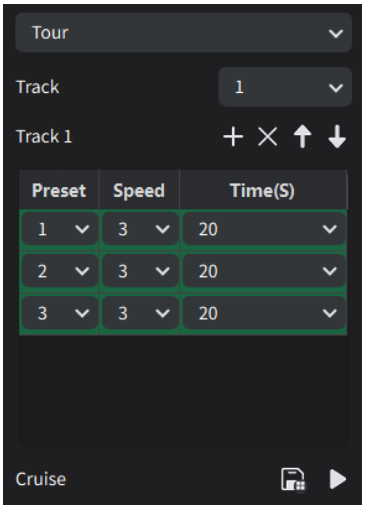


14. **Track cruise:** Cruise according to the set track. You can set 4 tracks at the same time. Each track can select 32 preset points, and the cruise interval time for each preset point can be set.
15. Select the cruise mode as Tour
16. 

Select the track to add a preset point,

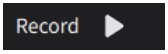
17. 

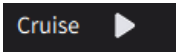
Add and delete preset points to each track, and use the up and down buttons to move the order of the preset points. Select the speed and time interval for switching between different preset points during cruising, click  Save button, and the device will save the parameters without turning on the cruise. Click  Cruise button, and the device will save the parameters and cruise in the order of the added preset positions. The preset point cruise page is shown in the screen below.



Pattern scanning refers to scanning according to a preset path, recording the horizontal and vertical movements of the network high-speed dome, zoom operation and other actions. After recording and saving, the user can directly call the pattern scanning route. The network high-speed dome supports setting 4 pattern scanning paths, numbered 1 to 4. The network high-speed dome provides a save function for each pattern scanning path.

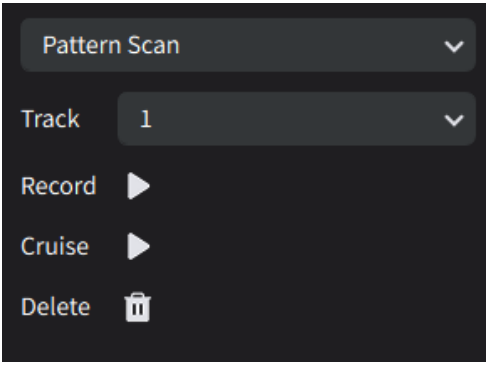
18. Select the cruise mode as Pattern Scan.
19. 

Select a path.
20. 

Click start recording. Perform any PTZ operation on the device, and Click stop recording.
21. 

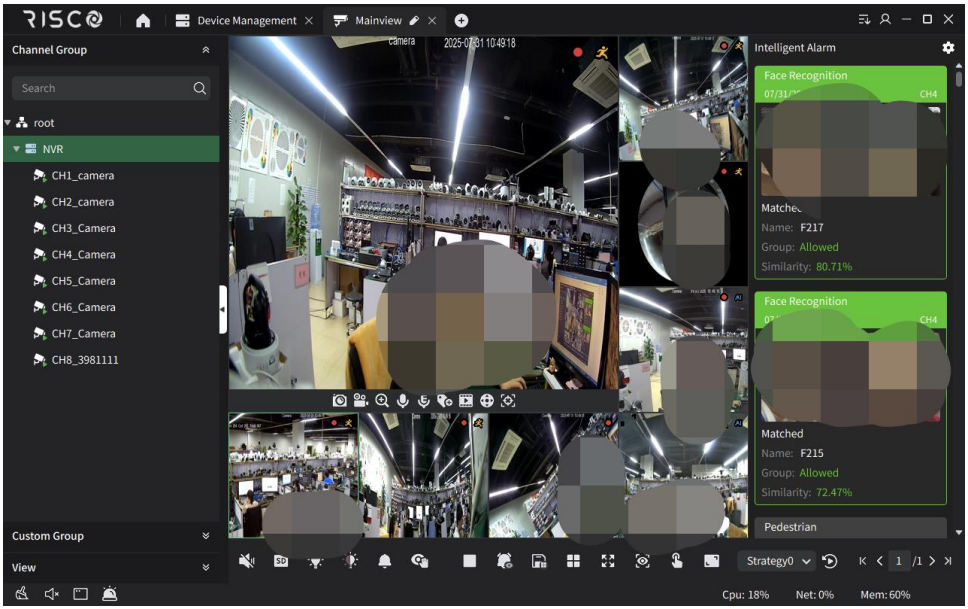
After recording is completed, Click call the cruise, and the device will cruise according to the recorded content.

22. Delete After recording is completed, click the delete button, and the device will delete the pattern scanning path with the corresponding number. The pattern scanning page is shown in the screen below.



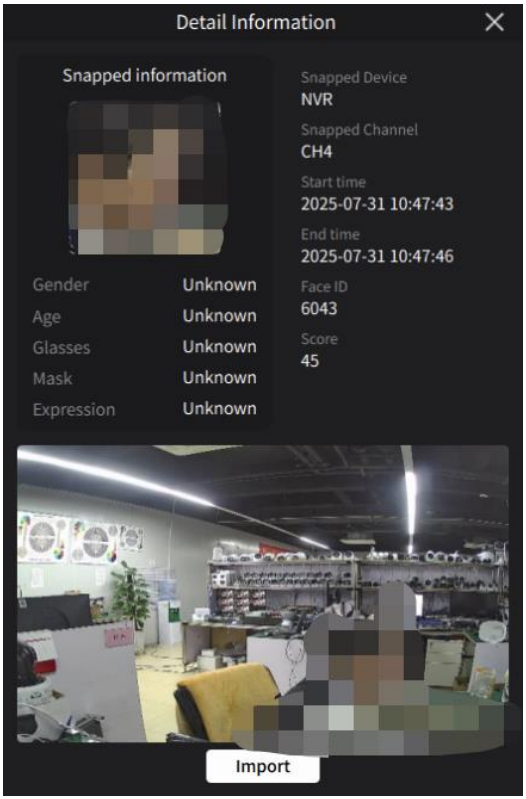
4.5. AI Alarm Sidebar Push Image

1. Click the smart alarm display button, and the alarm push of the added smart device will be displayed on the right side of the preview area.



2. Select the alarm event in the alarm push bar and right-Click view the event information and playback the event-related video.
3. **Playback:** Open the playback window to playback the alarm video.

Detail Information: as shown in the below picture



Snapped Device: Capture device

Snapped Channel: Capture channel

Start time: Alarm start time

End time: Alarm end time

If the channel opens the face attribute, the captured image information will include gender, age, whether wearing glasses, whether wearing a mask and expression information. The captured image shows unmatched, which means there is no comparison image.

Select the face image and right-Click add the face image to the face library.

When there are comparison images in the group, as shown in the screen below.

Displays the group to which the matched face belongs " **Similarity** ", right-click the menu to view details and edit face information.

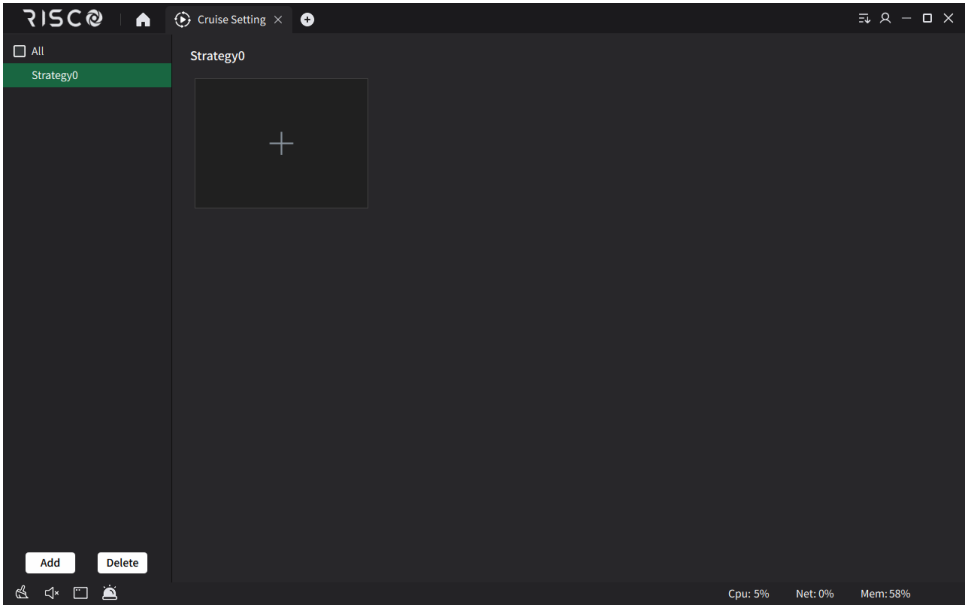
5. Cruise Settings

By configuring the cruise plan, the preview window cruise function can be realized.

5.1. Configure Cruise Plan

1. Click "Cruise Setting" in the "Main Menu" to enter the cruise setting interface, as shown in the screen below.

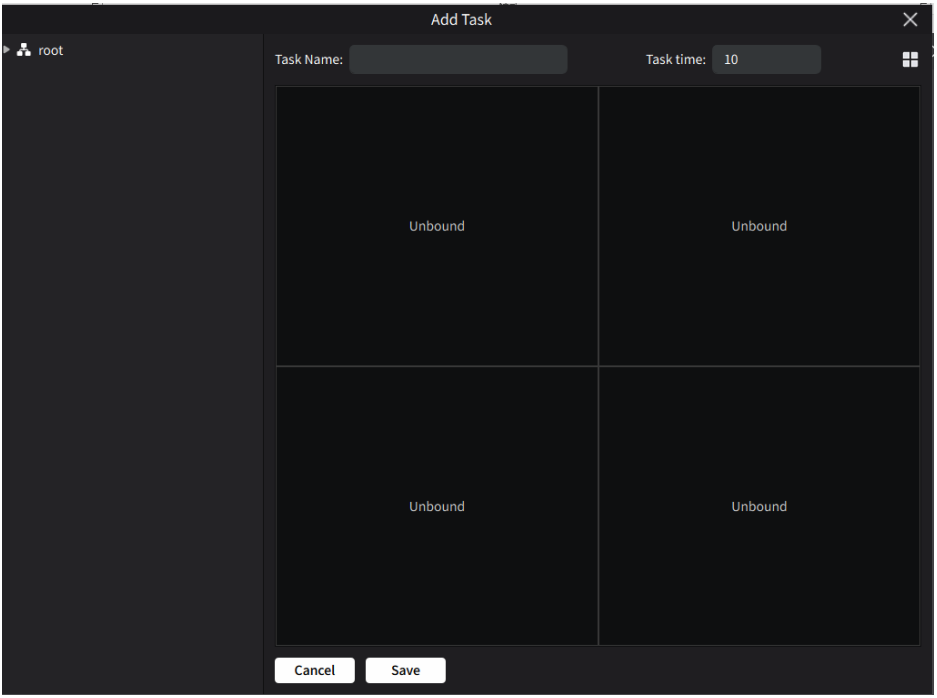
By default, the system will create a cruise plan named "**Strategy0**". If you need to modify the PTZ plan name, click button change the plan name.



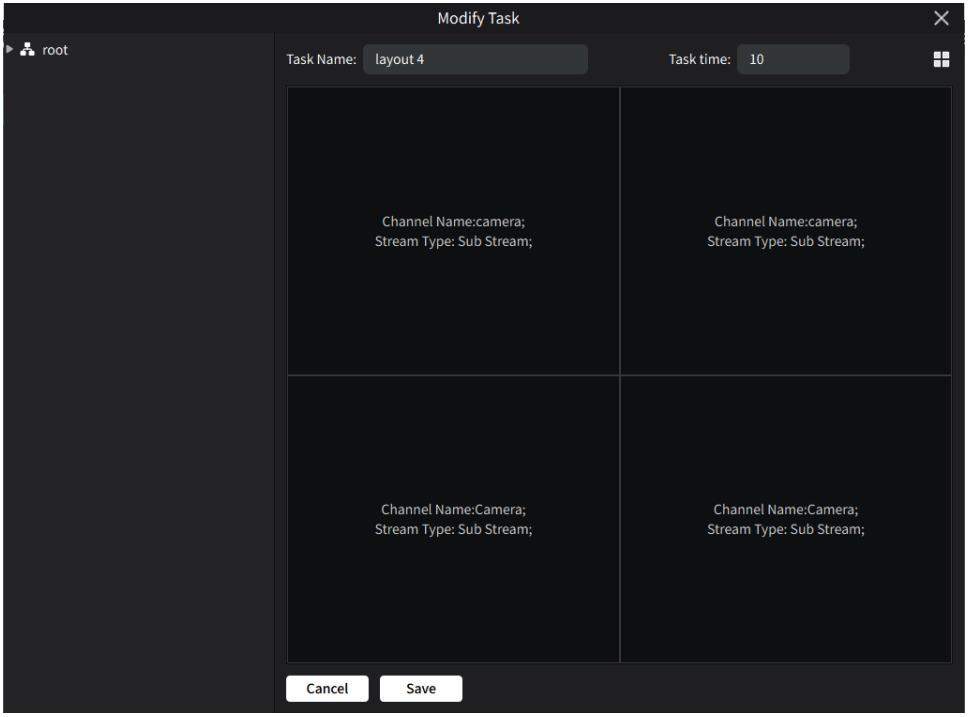
2. Configure the cruise plan (a cruise plan can set up to 16 preview layouts).

   (1) Click to open the "**Add Task**" interface.

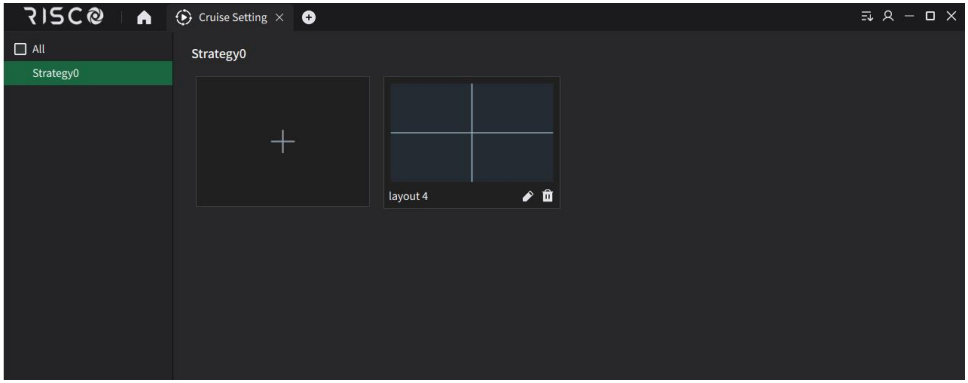
   (2) Set the "Task Name" and "Task Time", and set the number of preview windows as required.



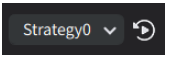
3. Drag the channels of the device into the video window in the required order, as shown in the screen below.



4. Click "**Save**" to complete the cruise setting, as shown in the below picture.



5.2. Start Cruise

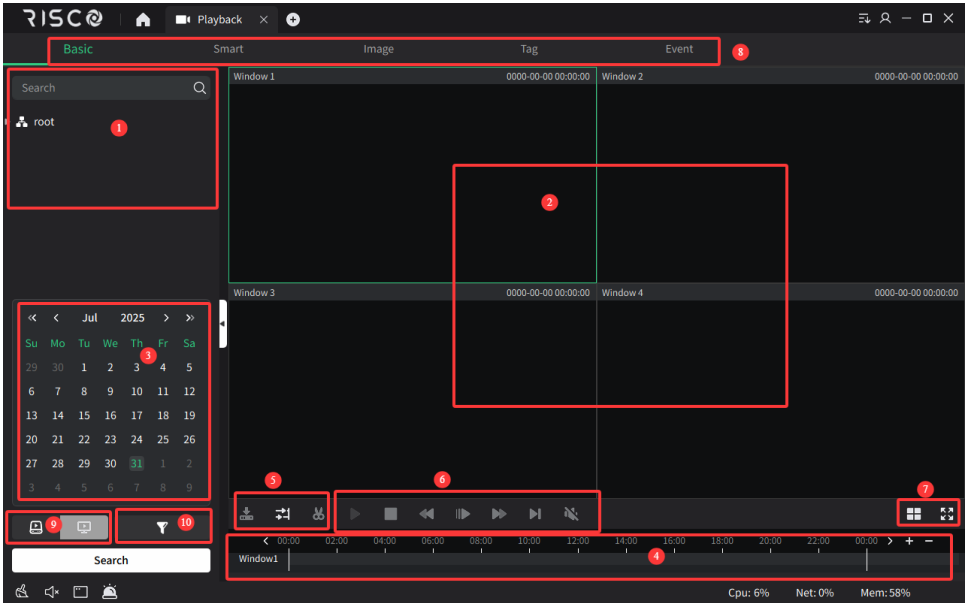
1. Select "Main Window" in the "Main Menu" to enter the preview interface.
2. Select a PTZ plan at the bottom of the interface, such as 

3. Click  to start cruise.

6. Playback

6.1. Playback Introduction

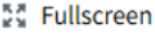
Select "**Playback**" in the "Main Menu" and the system will enter the playback interface, which supports playback and export of device videos and device pictures, as shown in the below picture.



The interface functions are introduced as follows.

1. **Playback channel:** Check the channel you want to play back, and click Search to search for the corresponding channel video playback.
2. **Playback window:** video playback display area.

- **Snapshot:** Select the playback window, click or right-click Capture to capture single picture
- **Electronic zoom:** Select the video window with video recording turned on and click
- **Stop playback:** Select the video window that has been opened for playback, click or right-Click select Stop Play
- **Recording:** Select the video window that has been opened for playback, click or right-Click select Start record

- **Enable fisheye mode:** Select a video window with playback enabled and click  or right-Click select  (Only available on devices that support fisheye mode)
- **Full screen display:** Click  or right-Click select 
- **Add tags:** Click  to add tags in the playback
- **Screenshot:** Click on  the screenshot , the mouse will turn into a screenshot icon , and click the left button of the mouse in the play box to drag the screenshot.

3. **Query time:** Set the device video query time.
4. **Time progress box:**

    : The precision of the playback progress bar becomes higher.

    : The precision of the playback progress bar becomes lower.

    : You can move the progress bar display area.

5. **Download, synchronize and cut.**

   Download, cut or export the recording as needed.
   Download device video: Check file download.
   Cut device video: Drag the cutting start point on the progress bar and select the video.
   Synchronous playback: Select multiple channels, click the synchronous playback button, and then click Play, and all channels can be played back synchronously.

6. **Playback Control Bar**

 Synchronous playback, when there are multiple channels for playback, click this button and then click Play to play all channels simultaneously

 Start playback

 Reverse playback

 Pause playback

 Stop playback

 Single frame forward playback

 Fast forward playback

 Turn on/off the sound

 Enter fisheye mode to play

 Slow playback video

7. **Window Control:**

 Select the required video window display mode and number

 Video window full screen display mode

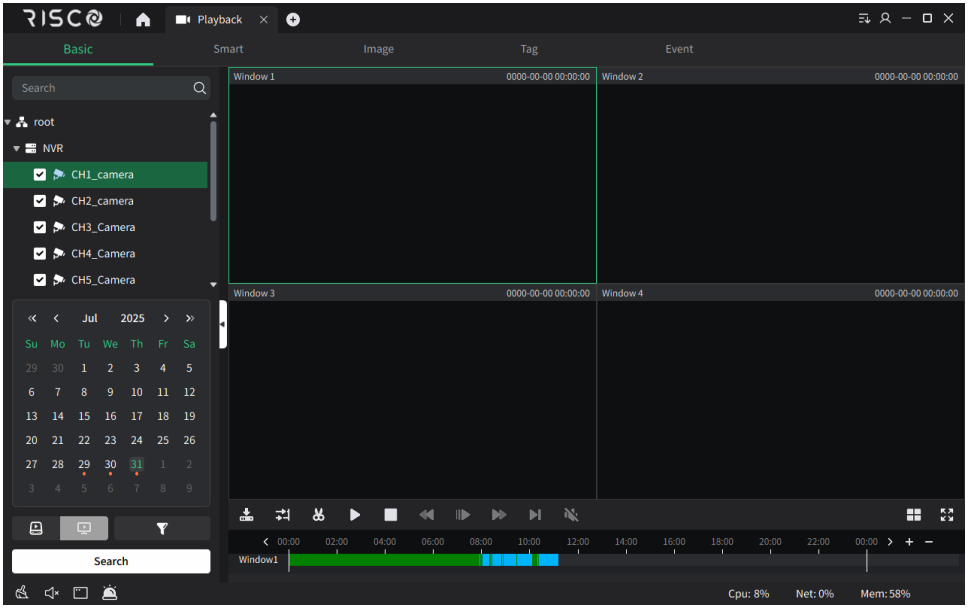
8. **Playback Type**
9. **Playback mode:** You can choose between device recording and local recording.
10. **Search settings:** Click  to select stream and alarm type for search.

6.2. Playback Device Video

Prerequisites:

The selected channel device has recordings.

1. In the "Playback " interface, select 
2. Select the device channel in "Device Group".
3. Set the video query conditions.
   a) Select the recording type and bitrate, and select the date and time.
   b) Click "Search" and the system will display the recording information in the time progress box.
4. Select the window with the video, click  , and the video will start playing, as shown in the screen below.



6.3. Download Record

Prerequisites:

There is video recording on the device channel.

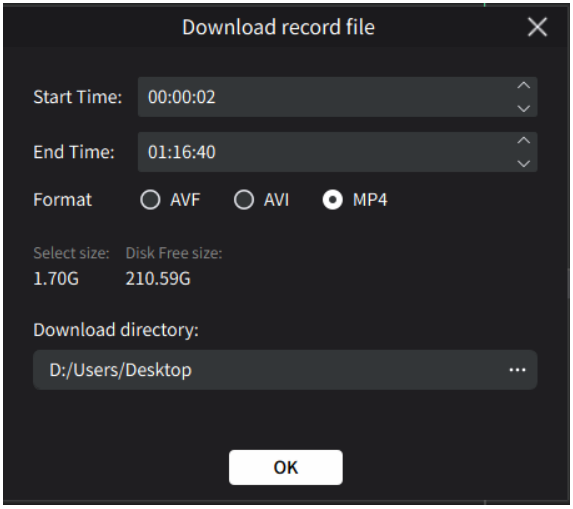
6.3.1. Custom cut and download:

1. In the "Playback " interface, select 
2. Select the device channel in "Device Group".
3. Set the video query conditions.

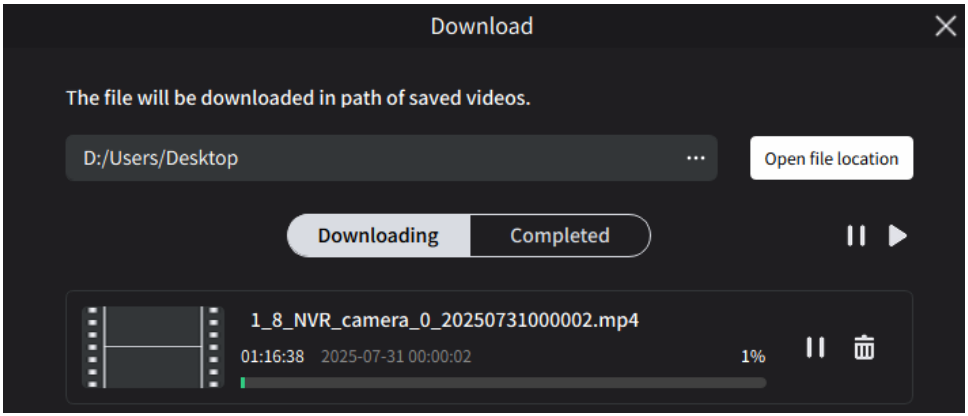
   a) Select the recording type and bit rate, and set the time.

   b) Click "Search" to display the recording information in the time-progress box.

4. Click  to select a video in the video progress bar, then click  , and a menu will pop up, as shown in the screen below.



5. Select the export video format, save path and confirm , add the video to download , click to open the download menu, and check the " download progress". as shown in the screen below..



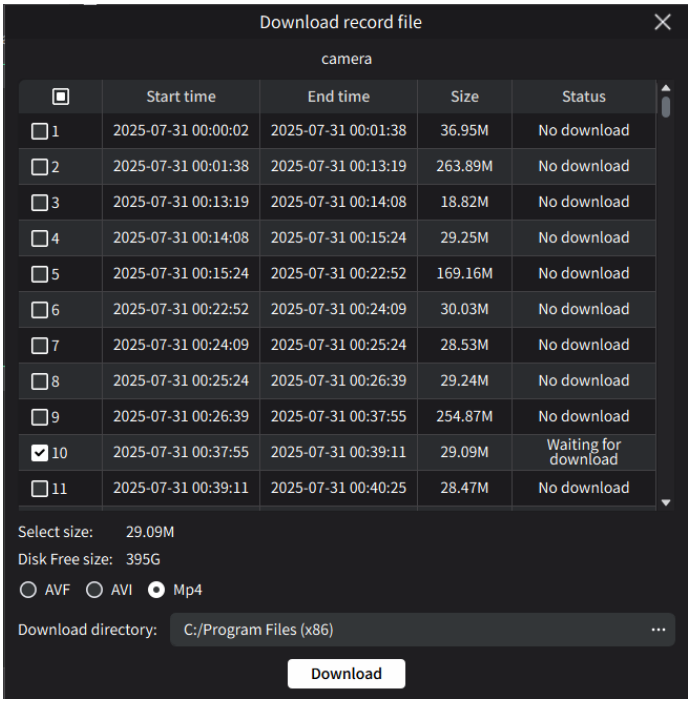
6.4. Download by Device File Time

1. In the "Playback " interface, select
2. Select the device channel in "**Device Group**".
3. Set the video query conditions.

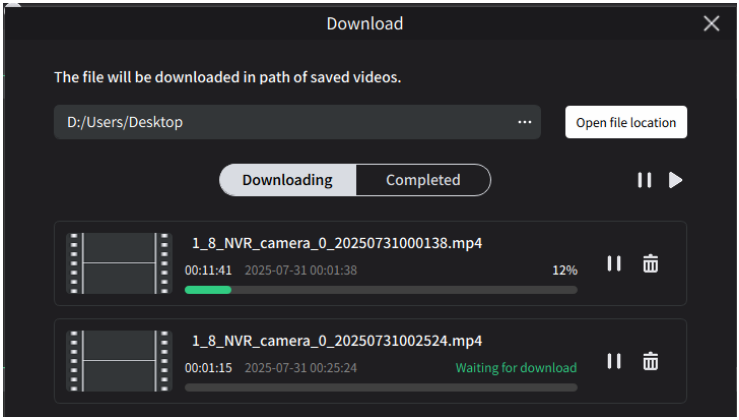
   a) Select the recording type and bit rate, and set the time.

   b) Click "Search" to display the recording information in the time-progress box.

4. Select the window where the video exists, click on the playback control toolbar , and all the video clips of the channel on that day will pop up, as shown in the screen below.



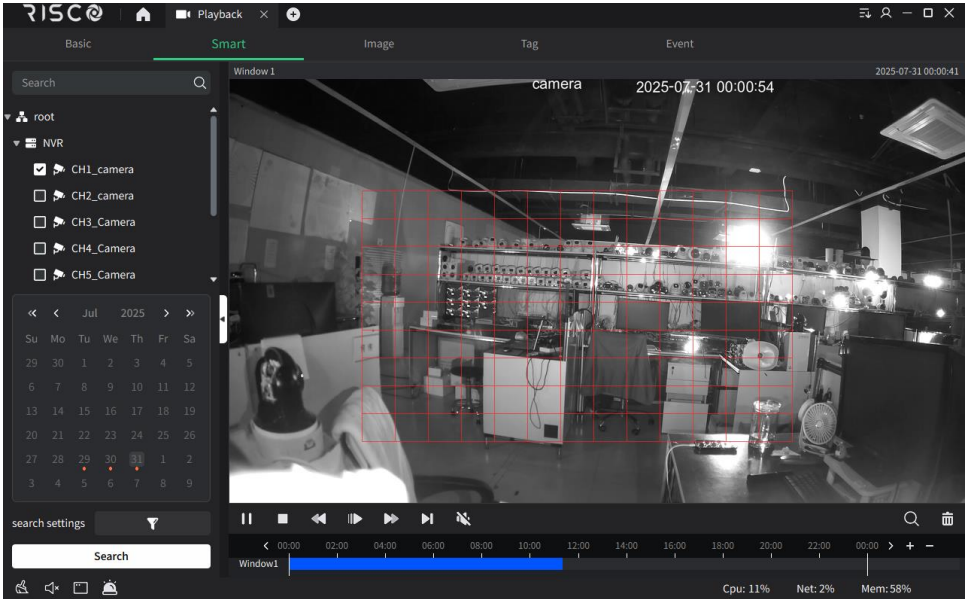
5. Check the time period you need to download, select the export video format, save path and confirm , add the video to the download , click to open the download menu, and view the "**download progress**". as shown in the screen below.



Note: When you choose AVF format for downloading, the video can be encrypted. When playing it with a dedicated player, you need to enter the correct password to play it.

6.5. Smart Search Playback

Select "**Playback**" in the "**Main Menu**" and the system will enter the Smart playback interface. Select the channel to search and play the video. The area with video on the timeline will appear blue. During playback, click the left mouse button on the playback screen and drag the frame to select the area of interest, click to search for motion videos in the selected area, click to delete the selected area.



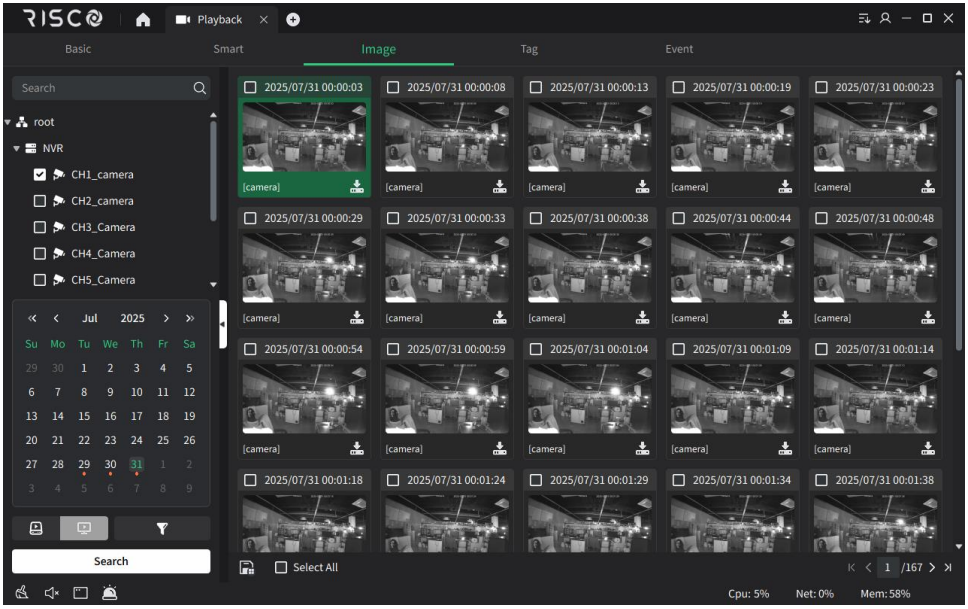
Note: The smart playback function can only operate one channel at a time.

6.6. Image Search And Backup

Prerequisites:

The selected device channel has screenshots on the device side and locally.

1. Select the Image page in the " **Playback** " interface
2. Select the device channel in "**Device Group**"
3. Set the image query conditions in  .
   a) Select the search location (device or local), image type and set time.
   b) Click "**Search**", as shown in the screen below.



4. Select to search for screenshots stored on the device, and select to search for screenshots stored locally.
5. In the image display window, click the lower right corner of the searched image to save the searched image to the specified directory.
6. Select or batch select the searched pictures, and click to save the pictures in batches to the storage directory.

Notes:

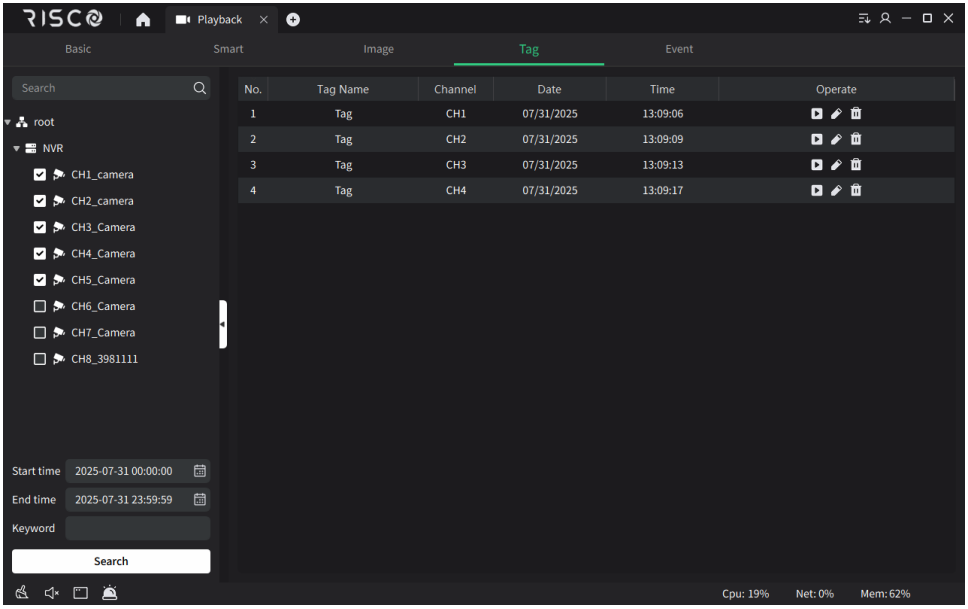
1. Images found through local search can be deleted.
2. The image save path can be set in "**System Config**" in the main menu.

6.7. Tag Playback

Prerequisites:

During preview or playback, the time points of interest are marked.

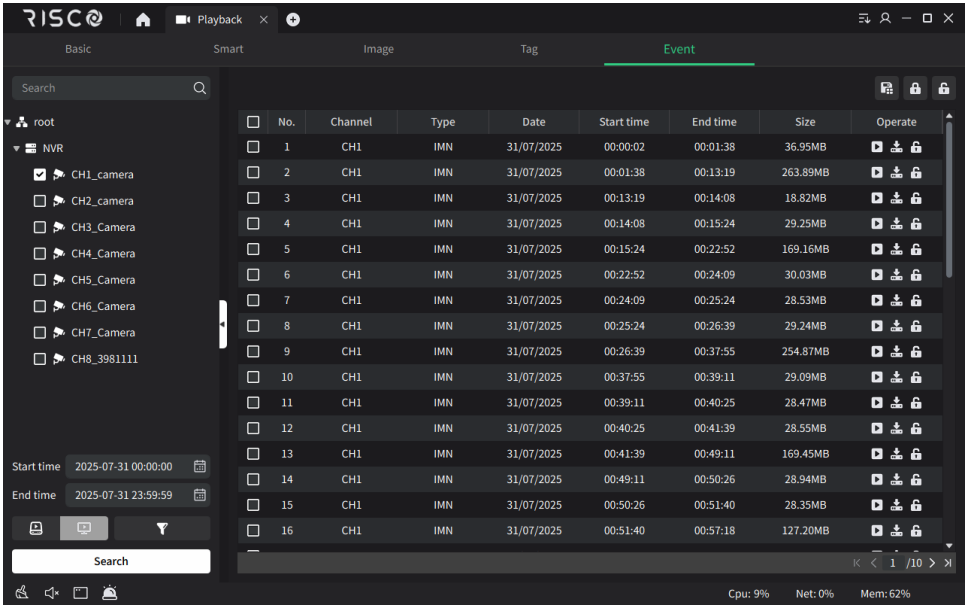
1. Select the tab in the "**Playback**" interface
2. Select the device channel in "**Device Group**".
3. Set the search time and keyword (If the keyword is empty, it means search all) and click Search. The search results will be displayed in the right window, as shown in the screen below.



4. Select any tag event found, click to playback the tag event , click to modify the tag name , and click to delete the tag.

6.8. Event Playback

1. Select event playback in the " **Playback** " interface.
2. Select the device channel in "**Device Group**".
3. Set the start time and end time, search the location (device or local), click **Search**, and the search results are as shown in the screen below.



4. Select to search for events stored on the device, select to search for events stored locally.
5. Select any searched event and click to playback the event, click to lock the recorded event so that it will not be overwritten, click / to download the selected recorded file.

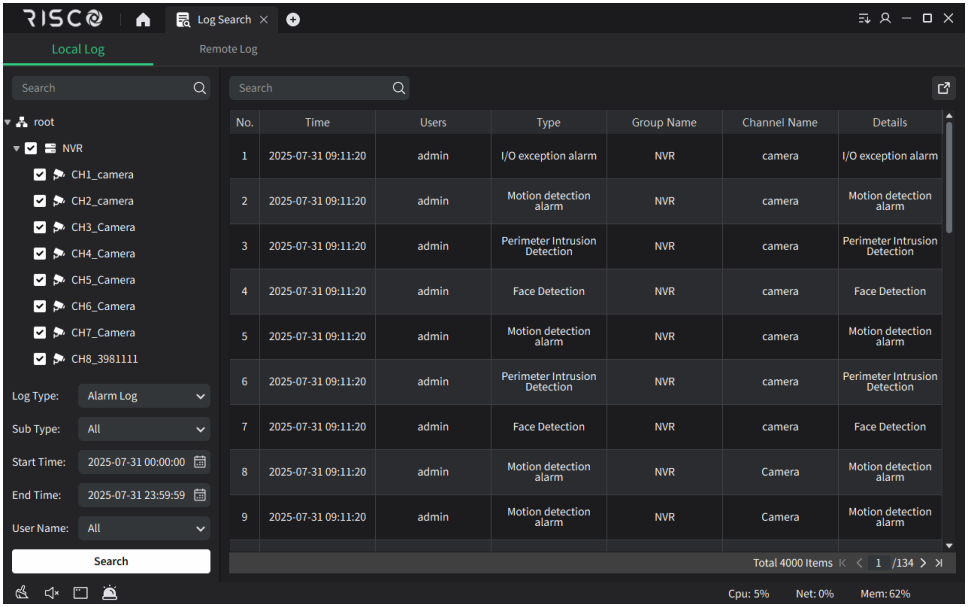
Notes:

1. Events found in local search can be deleted.
2. The event saving path can be set in "**System Config**" in the main menu.

7. Log Search

7.1. Search Client Log

1. Select " **Log Search** " in the main menu to enter the log query interface.
2. Enter the Local Log.
3. Select the device to be searched, set the search conditions according to actual needs, and search the local client logs including alarm logs, system logs and operation logs.
4. Click "**Search**" to start the search. The system displays the client log search results, as shown in the screen below.

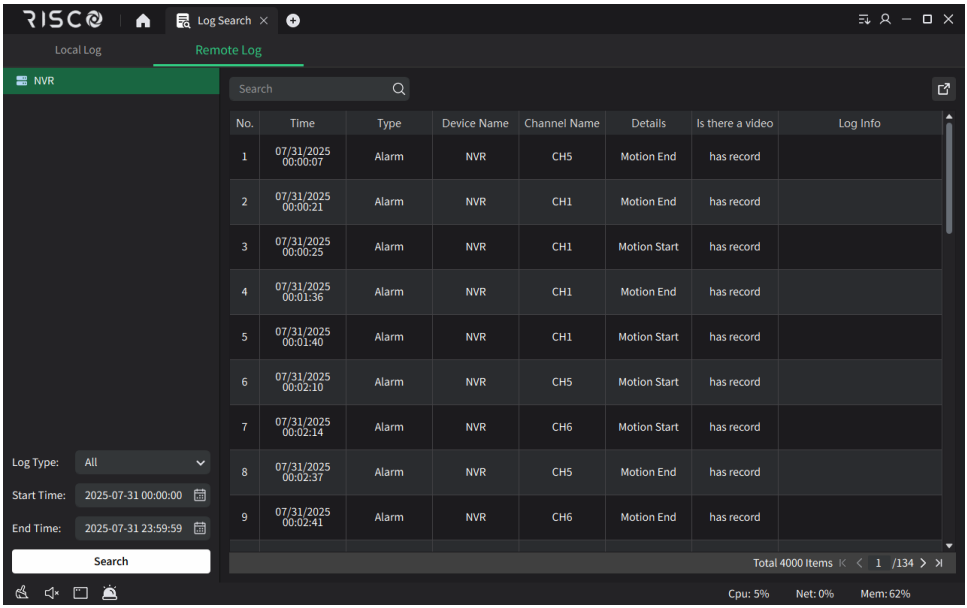


Note: The searched logs can be saved to the specified directory by setting the path through the page export button.

7.2. Query Remote Device Logs

1. Select " **Log Search**" in the main menu to enter the log query interface.
2. Enter the Remote Log page.
3. Select the device to be searched and set the search conditions according to actual needs. The search device logs include system logs, configuration logs, alarm logs, user logs, video logs, storage logs and intelligent logs.

4. Click "**Search**" to start the search. The system displays the device log search results, as shown in the below picture.



Note: The searched logs can be saved to the specified directory by setting the path through the page export button.

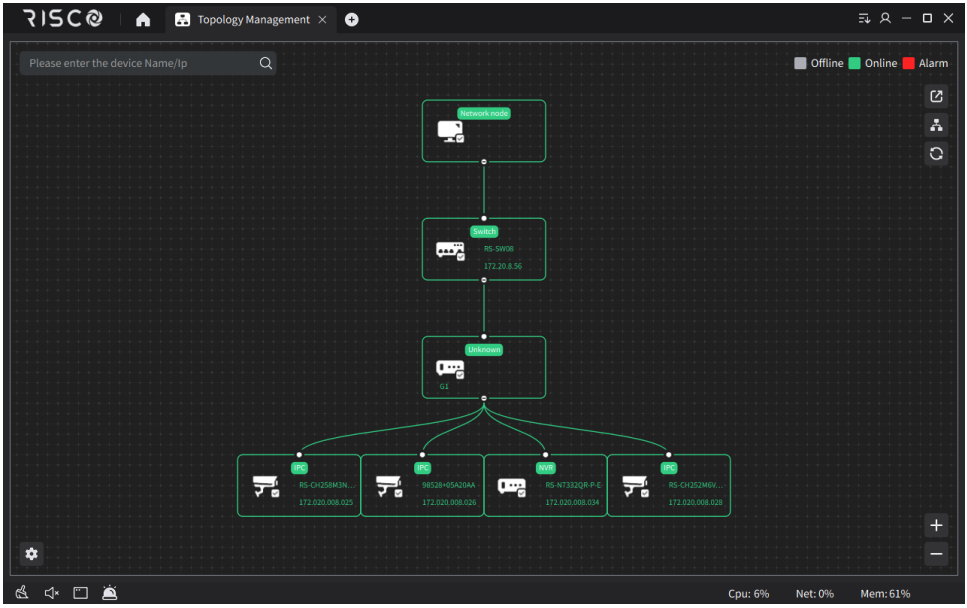
8. Topology Management

Used to manage lightly managed POE switches and display network topology. To use this function, ensure that the switch has been successfully added to the client and is online.

In the topology display interface, you can view the topological relationship between the devices added by the client and perform related configuration operations.

8.1. Related Operations

On the VMS main page, Click Topology Management to enter the topology display interface.



8.2. Interface Description

- In the upper left corner, you can enter the device's alias or IP to view the corresponding topology map.
- The upper right corner shows the meaning of the icon color, export and refresh the topology map, and display the path.
- Zoom in or out the topology map in the lower right corner, or use the mouse wheel to zoom in or out directly.
- Set the display level of the topology map in the lower left corner.

8.2.1. Illustrate

When you enter the topology map display interface for the first time, if the topology map is not displayed, please click Refresh to try again.

The related operations/icons are described as follows.

Double-click the device: view device details, display device type, IP, panel status and port information.
Right click device:

(1) **Check device status:** Turn to the "**Device Status**" interface, see device status for details.

(2) **Perform alarm processing:** Display alarm and event information, and perform alarm elimination operations.

(3) **Perform remote configuration:** Turn to the "**Remote Configuration**" interface.

(4) **Modify device name:** Modify the display name of the device on the topology interface.

(5) **Set as root node:** Set the current device as the root node on the topology map.

(6) **Upgrade device:** Support upgrade of NVR/DVR/network camera connected to the device.

 Export topology map, select export path, export current topology map.

 Display the path, select the network camera and the current device, and display the path between the selected devices.

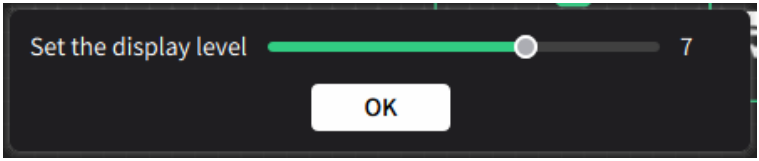
 Refresh the topology map, refresh and display the topology map interface.

8.3. Topology Settings

8.3.1. Procedure

Click the lower left corner of the interface  to make simple settings for the topology map.

- Set the display layer number of the topology map: 1 ~ 10
- Click OK to save your settings.



8.3.2. Illustrate:

After changing the settings, you need to click Refresh to display the latest topology map.

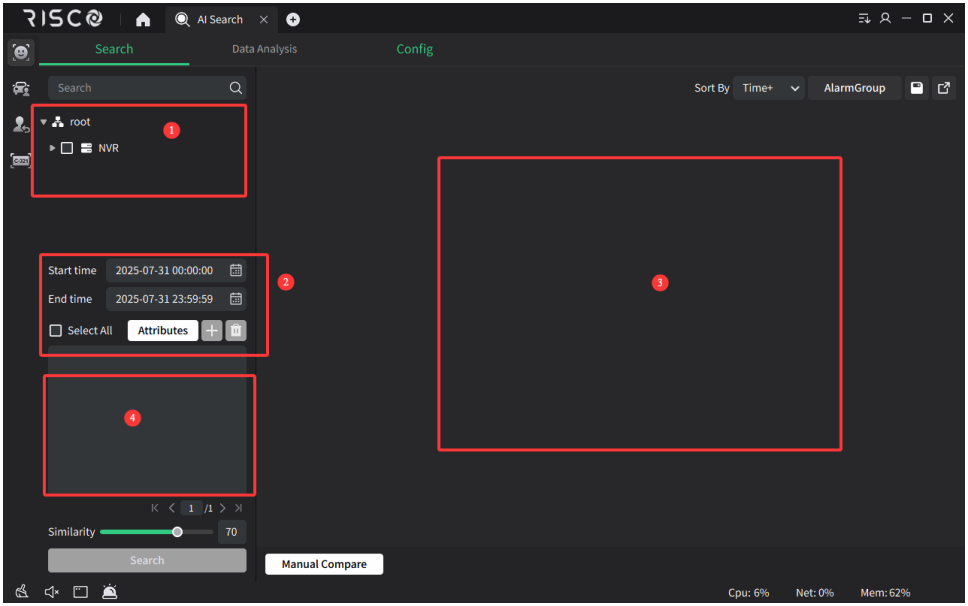
9. AI Search

The smart search page supports searching, counting and configuring the device's faces, pedestrians and vehicles, license plates and repeated visitor data

9.1. Face

9.1.1. Face Search

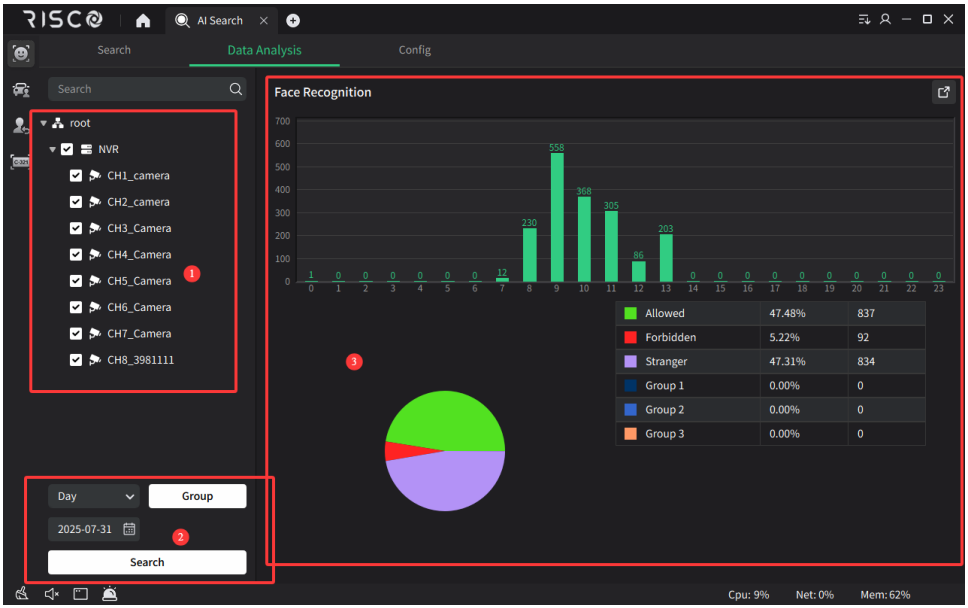
Click "**AI Search**" in the main menu to enter the search interface, and select Face--Search, as shown in the screen below.



1. **Device area:** Displays devices that support search.
2. **Search condition settings:** Set the search time-period and specific attributes.
3. **Search result display area:** Displays the face images searched according to the set conditions.
4. **Search by image:** In this area, you can add local or device face images, set similarity, and search.

9.1.2. Face Statistics

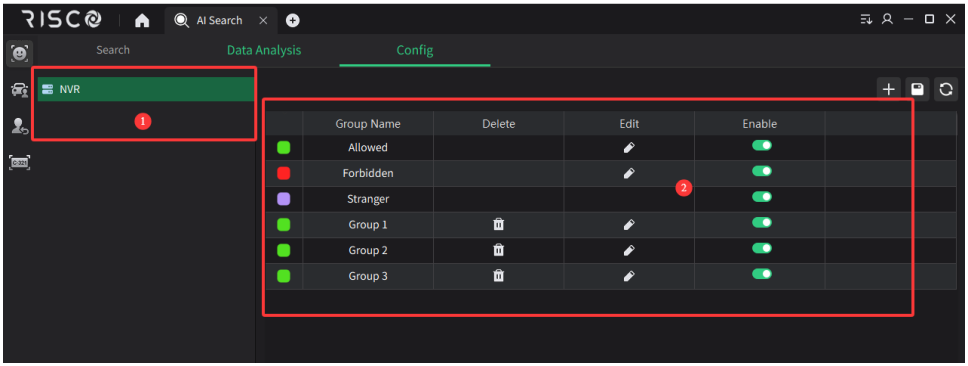
Click "**AI Search**" in the main menu to enter the search interface and select Face---Data Analysis, as shown in the below picture.



1. **Device area:** Displays devices that support search.
2. **Search condition settings:** set the search range, date and face grouping.
3. **Search result display area:** displays the face statistics found according to the set conditions.

9.1.3. Face Configuration

Click "**AI Search**" in the main menu to enter the search interface, select Face---Configure, as shown in the screen below.

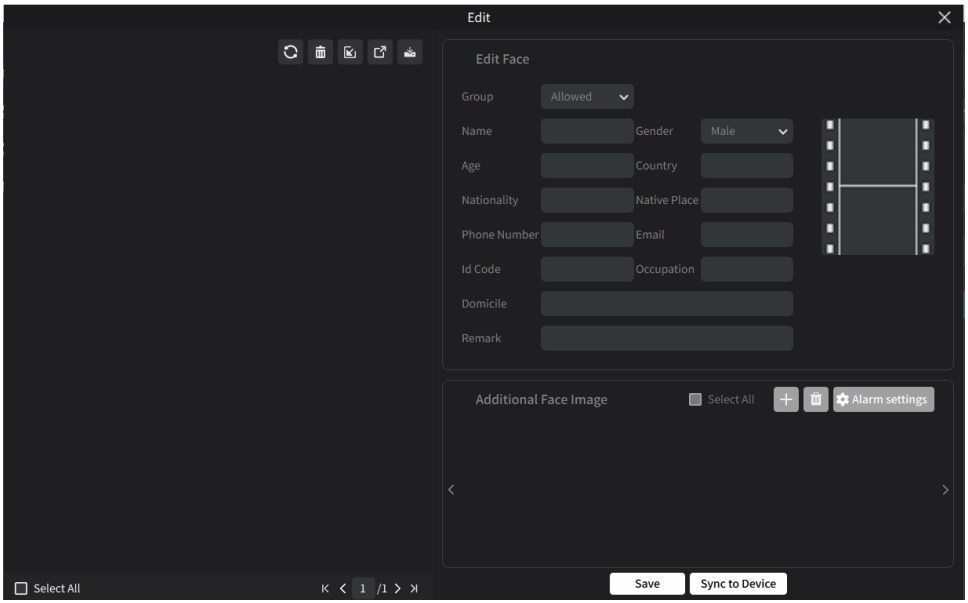


1. Device area: Displays devices that support settings

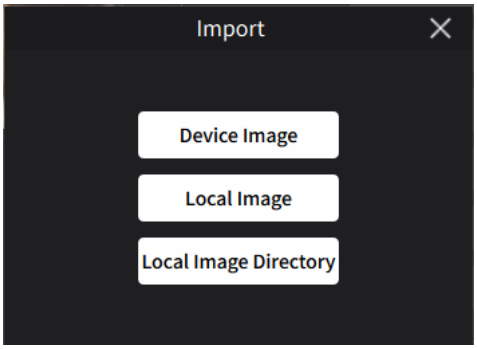
2. Face group operation area: You can add, modify, and delete face groups.

Note: The device can add up to 16 face groups. The default three groups "**Allow list**", "**Block list**" and "**Stranger**" cannot be deleted.

Select a face group and click  the button to enter the face group setting page, as shown in the screen below.



Click button to pop up the import method selection menu, as shown in the screen below.



Device Image: Search for face images captured by the device and select and import them into the specified group.

Local Image: Select the face image saved in the local directory and import it into the specified group.

Local Image Directory: Select the directory where facial images are stored locally and import them into a specified group in batches.

Select the face image in the current group, click the Export button, and select the local save path to export the face image to the local computer.

Click Download import template and select a local save path to download the import template to your local computer. After editing according to the template file instructions, you can directly import the .csv file under Local Image to upload images and related information in batches.

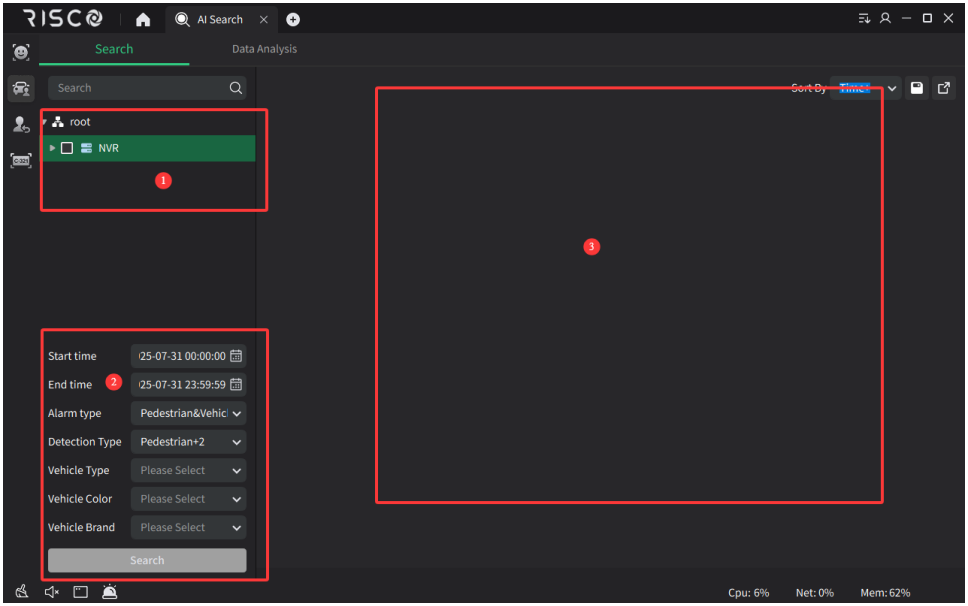
Select the face images in the current group and click the Delete button to delete the selected images in the current group.

Click **Refresh** to refresh the current group.

9.2. Pedestrians and Vehicles

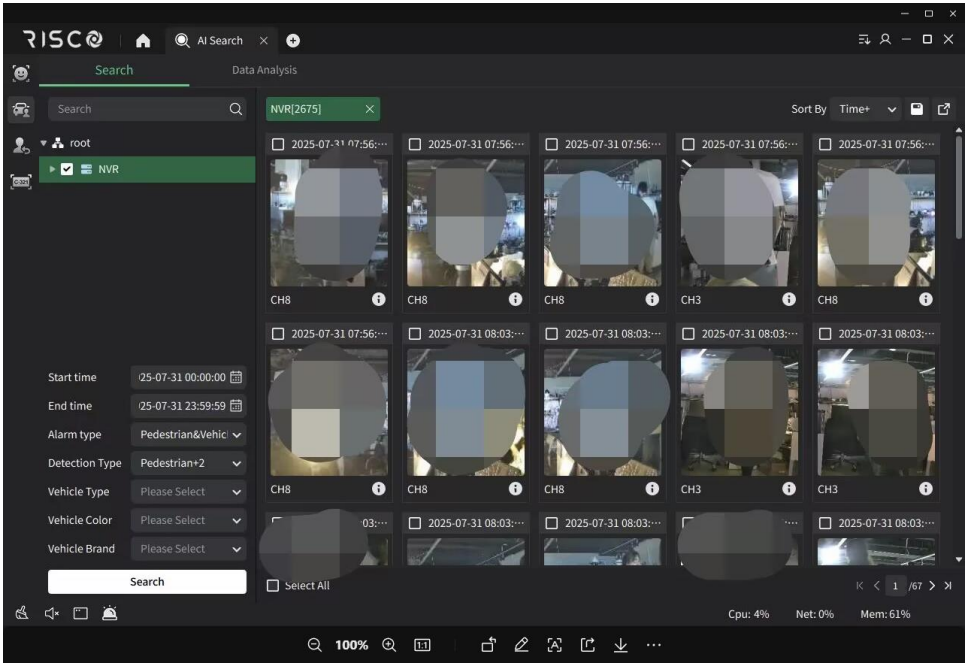
9.2.1. Pedestrian and Vehicle Search

Click "**AI Search**" in the main menu to enter the search interface, select Pedestrians and Vehicles---Search, as shown in the below picture.



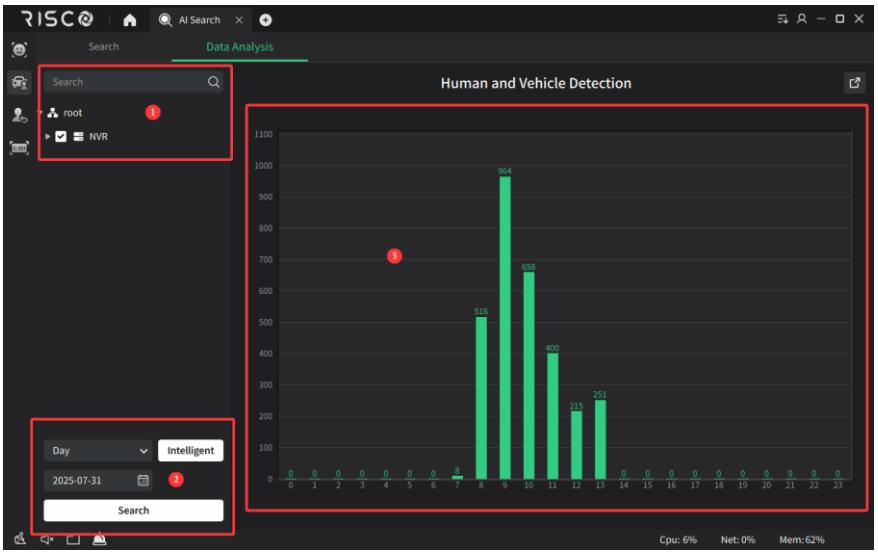
1. **Device area:** Displays devices that support search
2. **Search condition settings:** set the search period , alarm type and detection type
3. **Search result display area:** displays the screenshots found according to the set conditions.

Select the searched pedestrian and vehicle events, click view event details, click play the event, click export the video, and click export pedestrian and vehicle pictures.



9.2.2. Pedestrian and Vehicle Statistics

Click "**AI Search**" in the main menu to enter the search interface and select Face--- Data Analysis, as shown in the screen below.



1. **Device area:** Displays devices that support search.
2. **Search condition settings:** Set the search range, date and smart type.
3. **Search result display area:** Displays the pedestrian and vehicle statistics found according to the set conditions.

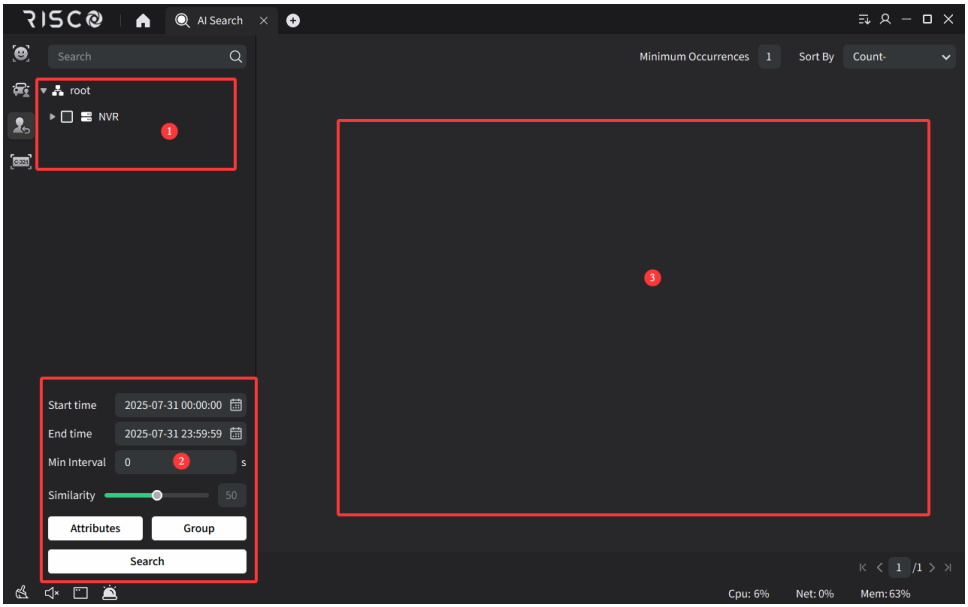
Click  export data analysis results to local.

Note: Data is saved in Excel format.

Start time	End time	Enter Region[Motor Vehicle]&Ente	Device Name
2025-07-31 00:00:00	2025-07-31 00:59:59	0	NVR
2025-07-31 01:00:00	2025-07-31 01:59:59	0	NVR
2025-07-31 02:00:00	2025-07-31 02:59:59	0	NVR
2025-07-31 03:00:00	2025-07-31 03:59:59	0	NVR
2025-07-31 04:00:00	2025-07-31 04:59:59	0	NVR
2025-07-31 05:00:00	2025-07-31 05:59:59	0	NVR
2025-07-31 06:00:00	2025-07-31 06:59:59	0	NVR
2025-07-31 07:00:00	2025-07-31 07:59:59	8	NVR
2025-07-31 08:00:00	2025-07-31 08:59:59	516	NVR
2025-07-31 09:00:00	2025-07-31 09:59:59	964	NVR
2025-07-31 10:00:00	2025-07-31 10:59:59	658	NVR
2025-07-31 11:00:00	2025-07-31 11:59:59	400	NVR
2025-07-31 12:00:00	2025-07-31 12:59:59	215	NVR
2025-07-31 13:00:00	2025-07-31 13:59:59	251	NVR
2025-07-31 14:00:00	2025-07-31 14:59:59	0	NVR
2025-07-31 15:00:00	2025-07-31 15:59:59	0	NVR
2025-07-31 16:00:00	2025-07-31 16:59:59	0	NVR
2025-07-31 17:00:00	2025-07-31 17:59:59	0	NVR
2025-07-31 18:00:00	2025-07-31 18:59:59	0	NVR
2025-07-31 19:00:00	2025-07-31 19:59:59	0	NVR
2025-07-31 20:00:00	2025-07-31 20:59:59	0	NVR
2025-07-31 21:00:00	2025-07-31 21:59:59	0	NVR
2025-07-31 22:00:00	2025-07-31 22:59:59	0	NVR
2025-07-31 23:00:00	2025-07-31 23:59:59	0	NVR

9.3. Repeat Visitor Search

Click "**AI Search**" in the main menu to enter the search interface and select repeat visitor search, as shown in the scree below.

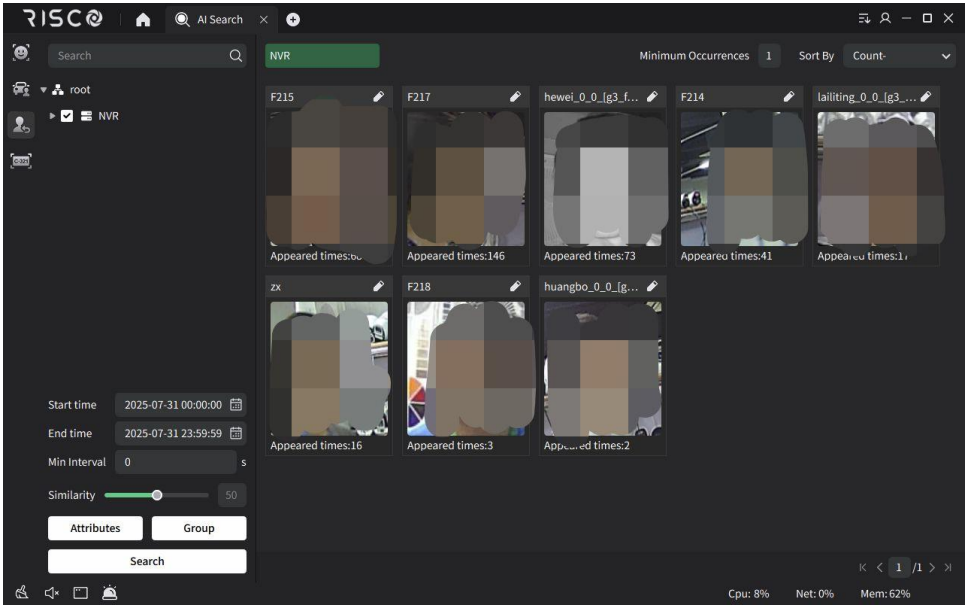


Device area: Displays devices that support search

Search condition settings: Sets the time-period, minimum capture interval and similarity to search for the number of occurrences, and filter by attributes and groups.

Search result display area: Displays the profile pictures and the number of times the person is searched based on time.

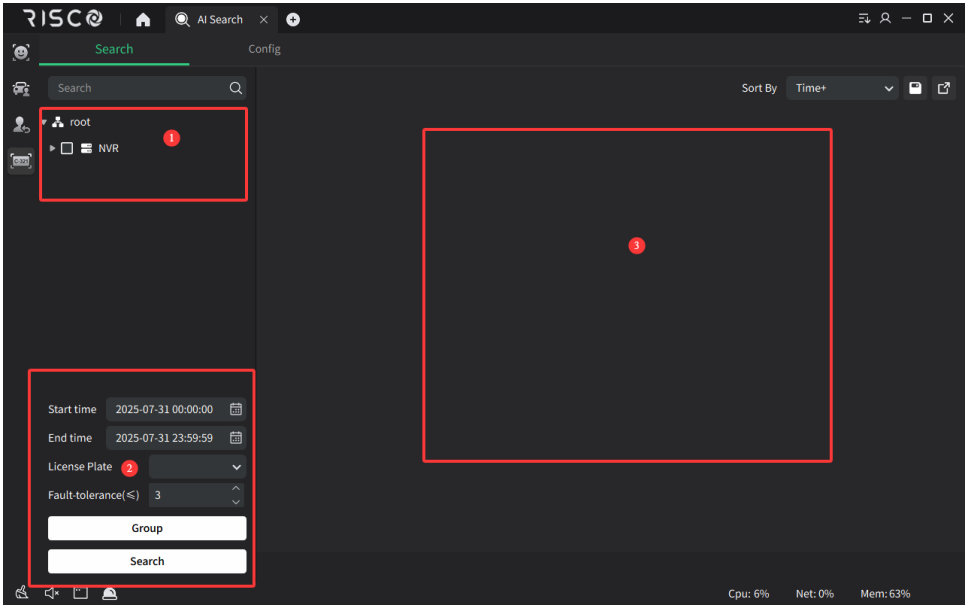
Select the searched repeated visitor and double-Click view the specific snapshot event of the visitor. Click  play the event.



9.4. License Plate

9.4.1. License Plate Search

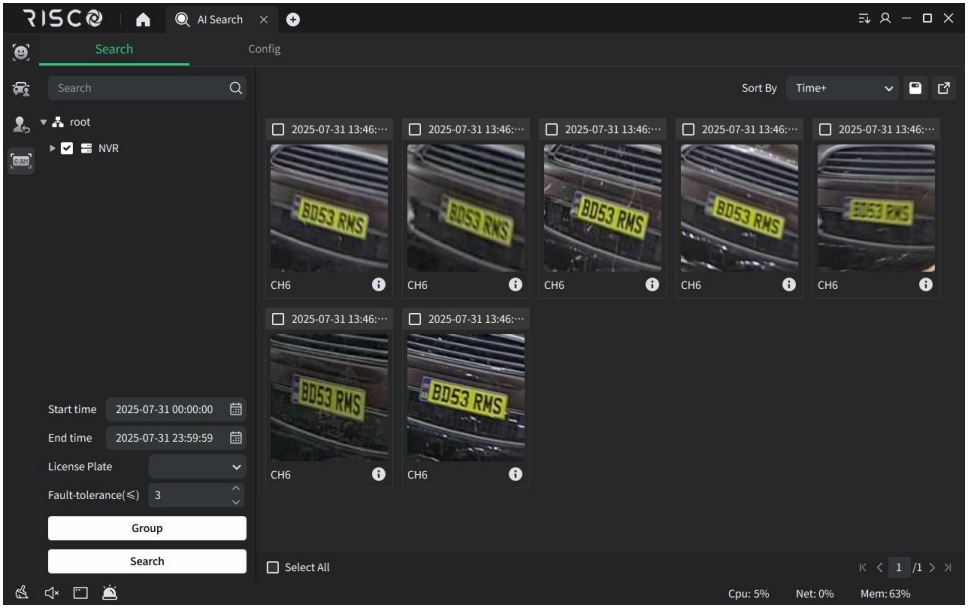
Click "**AI Search**" in the main menu to enter the search interface, select License Plate---Search, as shown in the screen below.



1. **Device area:** Displays devices that support license plate recognition.
2. **Search condition settings:** Set the search date, search group, search license plate, and set the number of characters allowed for license plate errors.
3. **Search result display area:** Display the search results based on the set parameters.

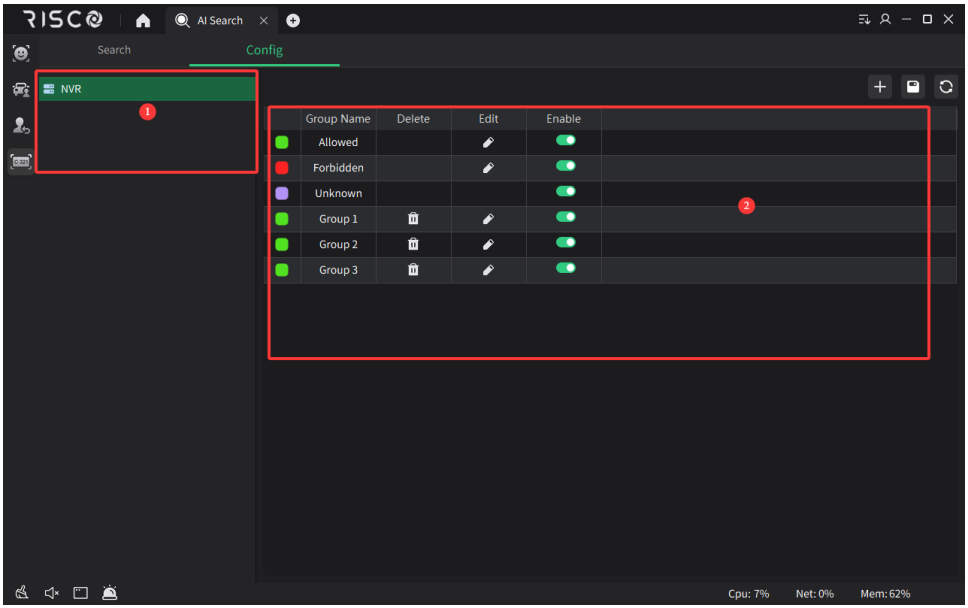
Note: Tolerance character, the number of characters that are allowed to be inconsistent between the license plate number displayed in the search results and the set license plate number. The lower the setting, the higher the search result matching degree.

Select the searched license plate, click view event details, click play the event, click export the video, click export the license plate image.



9.4.2. License Plate Configuration

Click "**AI Search**" in the main menu to enter the search interface and select License Plate-Config, as shown in the screen below.

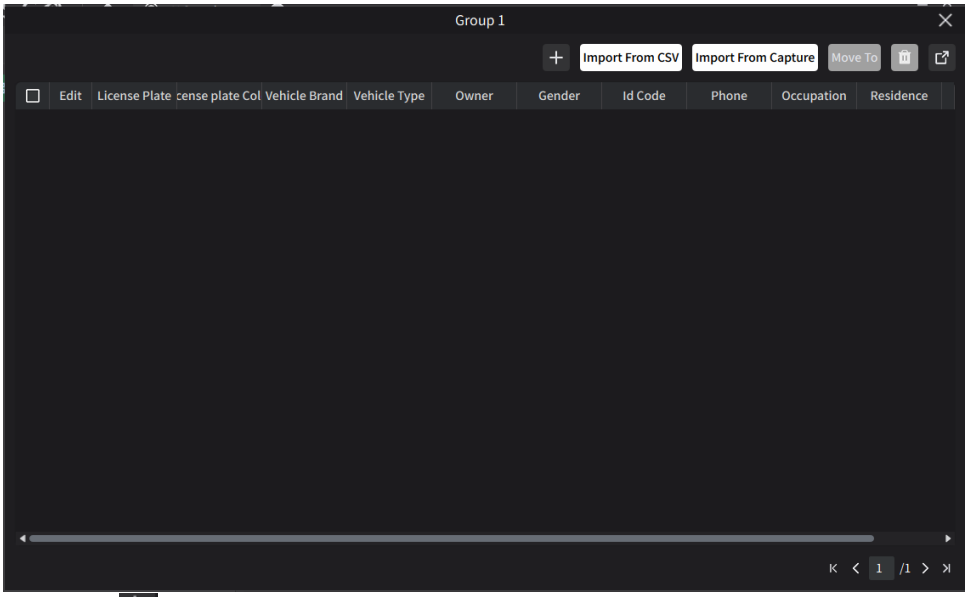


1. **Device area:** Display devices that support settings

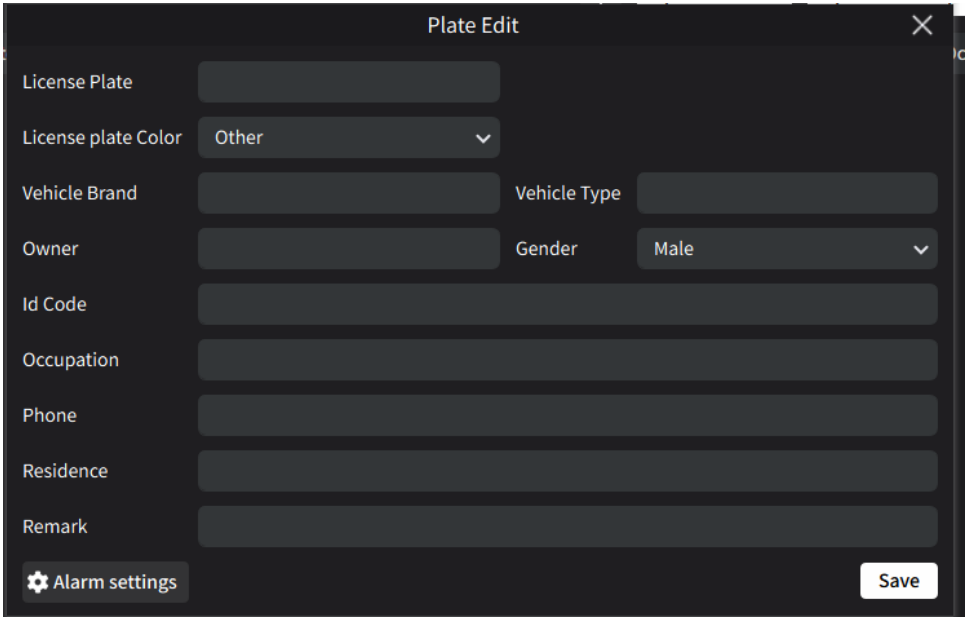
2. **License plate group operation area:** license plate groups can be added, modified and deleted.

Note: The device can add up to 64 license plate groups. The default three groups "**Allow list**", "**Block list**", and "**Unknow**" cannot be deleted.

3. Select a group and click enter the license plate information setting page, as shown screen below.



4. Click pop up the license plate information entry menu, as shown in the screen below



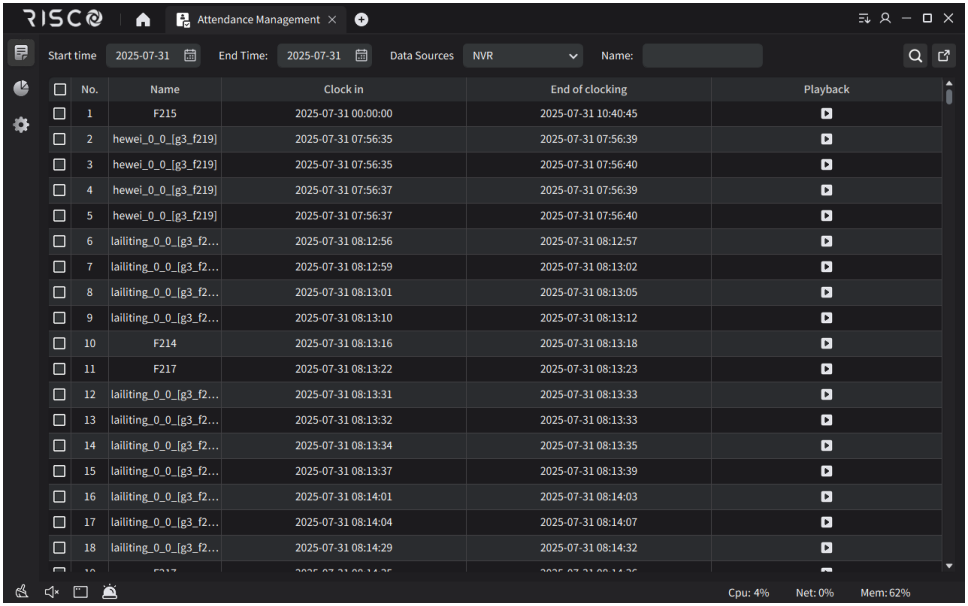
On this page, you can enter license plate information and set the associated audio and alarm channels when the license plate is recognized.

5. Click the **Export** button and select the local save path to export the license plate information in the current group in .csv format.
6. Click **Import form CSV**, select the local .csv file, import vehicle information in batches.
7. Click **Import** form **Capture**, you can search the license plate recognition images captured by the device on the pop-up page. Select the image based on the search results to edit the information and import.
8. Click **Move** to transfer the selected license plate information from the current group to another group.
9. Click **Delete** to delete the selected license plate information.

10. Attendance Management

10.1. Attendance Records

Click "**Attendance management**" in the main menu to enter attendance management---attendance record, as shown in the screen below.

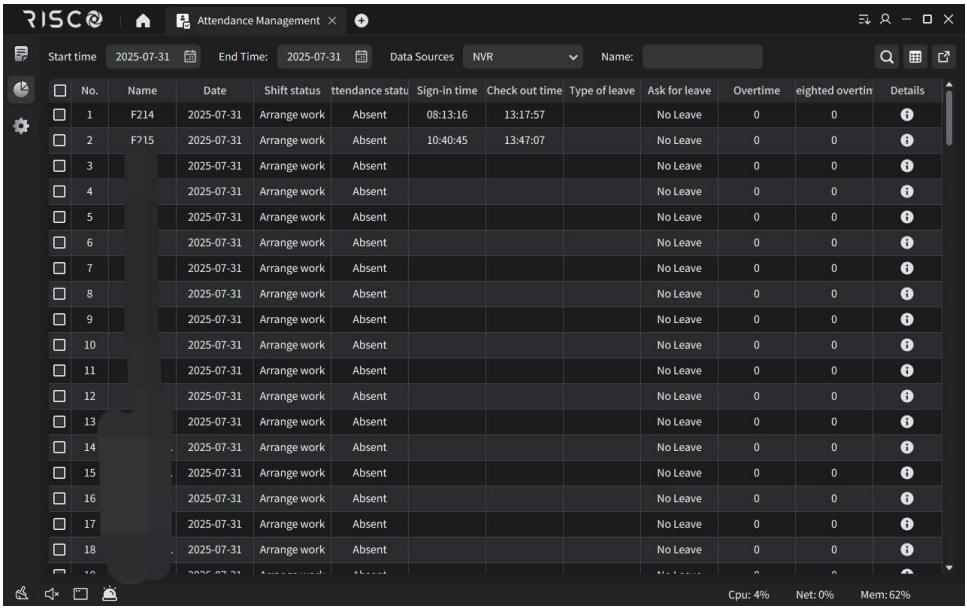


On this page, you can select the search device, set the search period, the name of the attendance personnel, and query attendance record. The attendance record contains the start and end time of the face event trigger, and you can directly play back the event video associated with the record.

Note: The attendance function is based on face recognition. Therefore, to use this function, you must ensure that face recognition is enabled on the device, face images have been imported into the list group, and face recognition comparison is normal.

10.2. Attendance Statistics

Click "**Attendance management**" in the main menu to enter attendance management---attendance statistics, as shown in the screen below.



On this page, you can select the search device, set the search period, attendance personnel name, and conduct attendance statistics query based on the attendance rules that have been set.

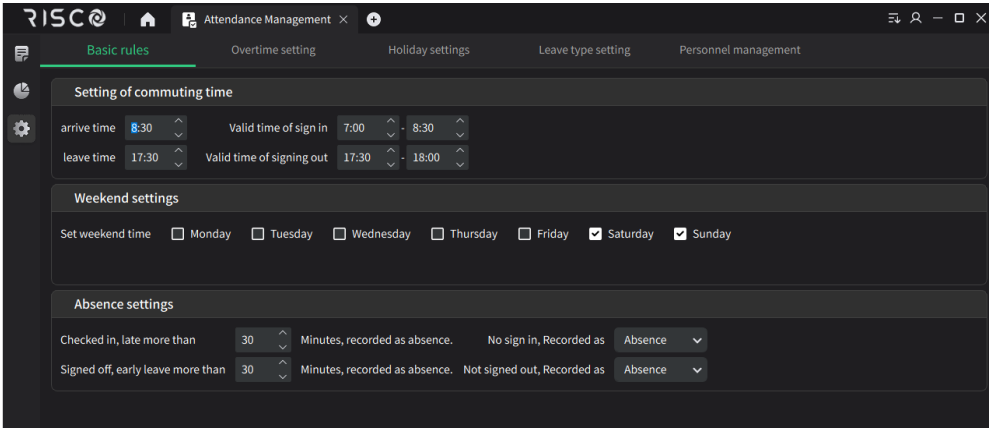
Attendance statistics Contains: Attendance date and punch-in time, shift status, attendance status, leave status, overtime status, and etc.

Note: The attendance result is calculated based on the parameters set by the attendance rule. Adjusting the attendance rule parameters will affect the result statistics here.

10.3. Attendance Management

Click "**Attendance management**" in the main menu to enter attendance management---attendance settings.

10.3.1. Basic Rules



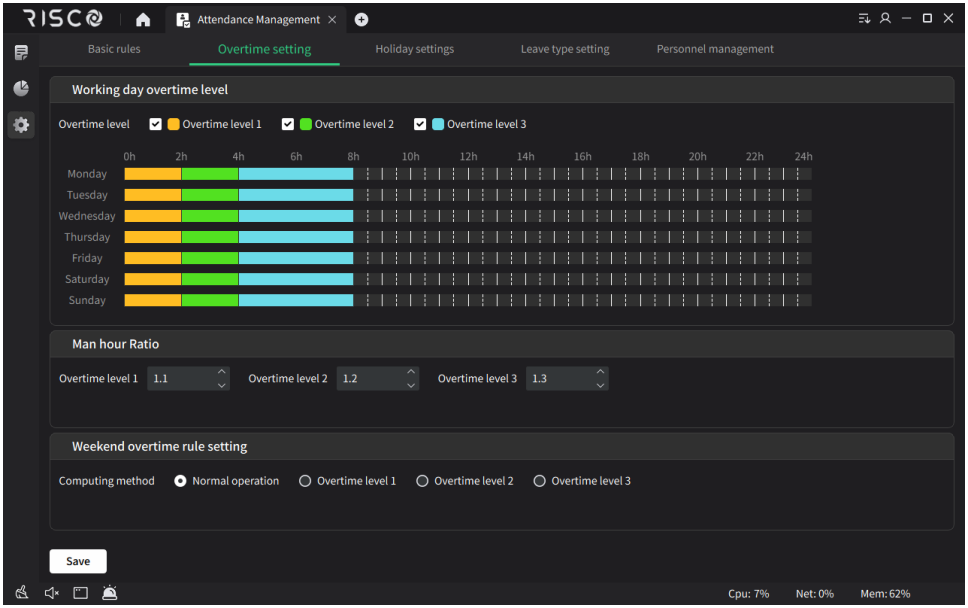
Setting of commuting time: Set the working hours and the effective time period for clocking in and out

Weekend settings: Set the weekend period, and attendance will not be recorded on the selected date.

Absence settings: If you have signed in, you are late for more than X minutes before the working time, it will be recorded as absence. If it is 0, it means this rule is not effective. If you have signed out, if you leave early more than X minutes before the end of the working time, it will be recorded as absence. If you have not signed in or signed out, you can choose to set it as absence/early leave.

Note: The settings will affect the results of attendance statistics and need to be set according to actual attendance needs here.

10.3.2. Overtime Settings



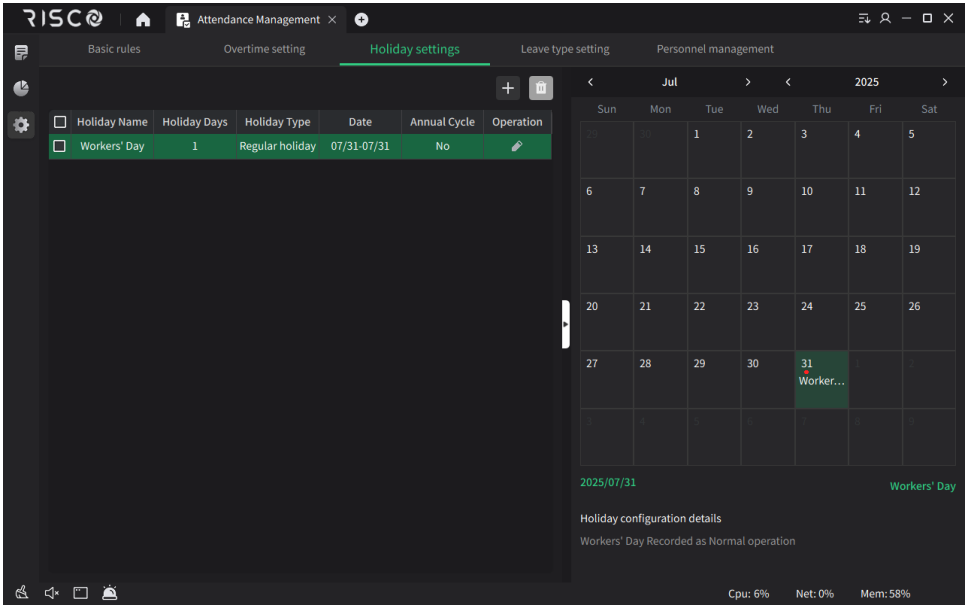
Working day overtime level: Working day overtime level setting, divided into three overtime levels, the corresponding overtime level is checked to indicate selection, you can drag the corresponding color bar in the drawing area to set the time range set for the overtime level.

Man hour Ratio: Working hours ratio, you can set the working hours ratio corresponding to each overtime level

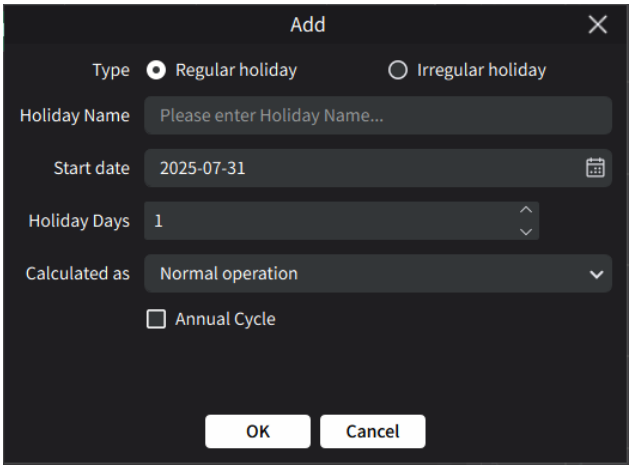
Weekend overtime rule setting: Weekend overtime rules, set the overtime level for weekend overtime

Note: The settings here will affect the results of attendance statistics and need to be set according to actual attendance needs.

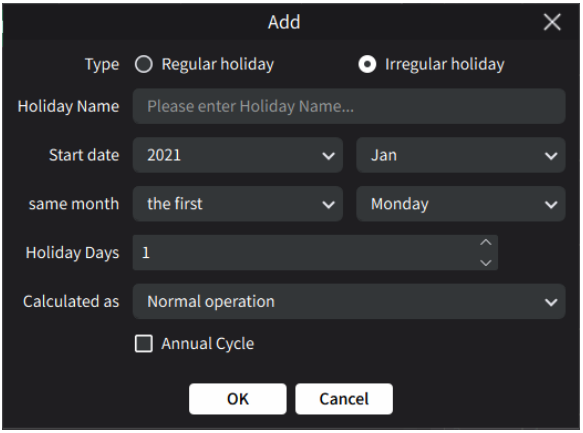
10.3.3. Holiday Settings



1. Click + open the holiday setting menu and select the holiday type.



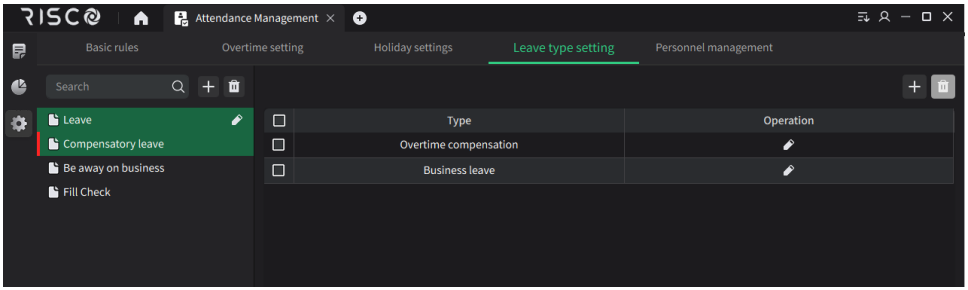
2. Regular holiday You can fill in holiday name, start time (calendar format), number of days off, overtime level, and whether it recurs annually.



Irregular holiday The difference is that the time when the holiday starts is set. Because the date is different every year, it is expressed according to the day of the week of a certain month in a certain year.

3. Click delete the added and selected holiday settings.

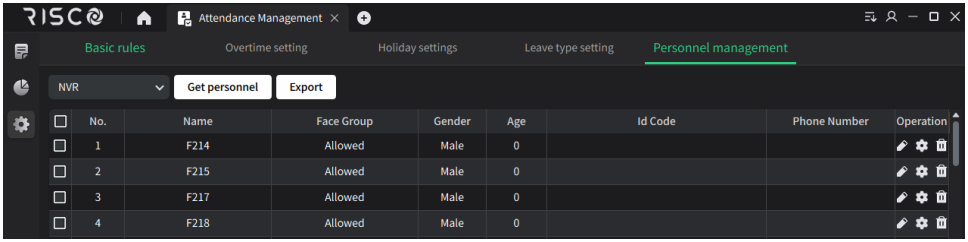
10.4. Leave Type Setting



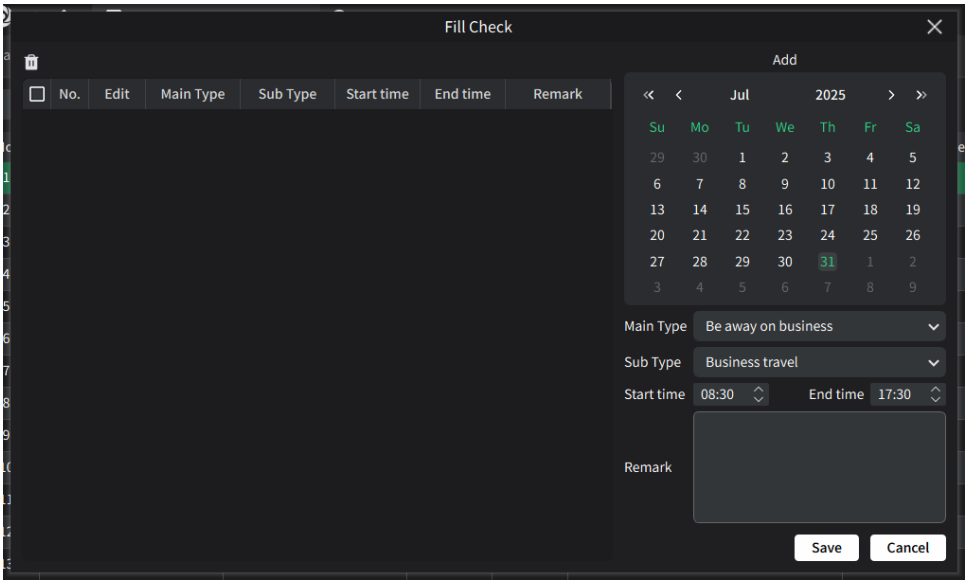
On this page, you can add or delete leave types as needed.

Note: The leave type set here is used on the personnel management page to mark the type of personnel leave.

10.5. Personnel management



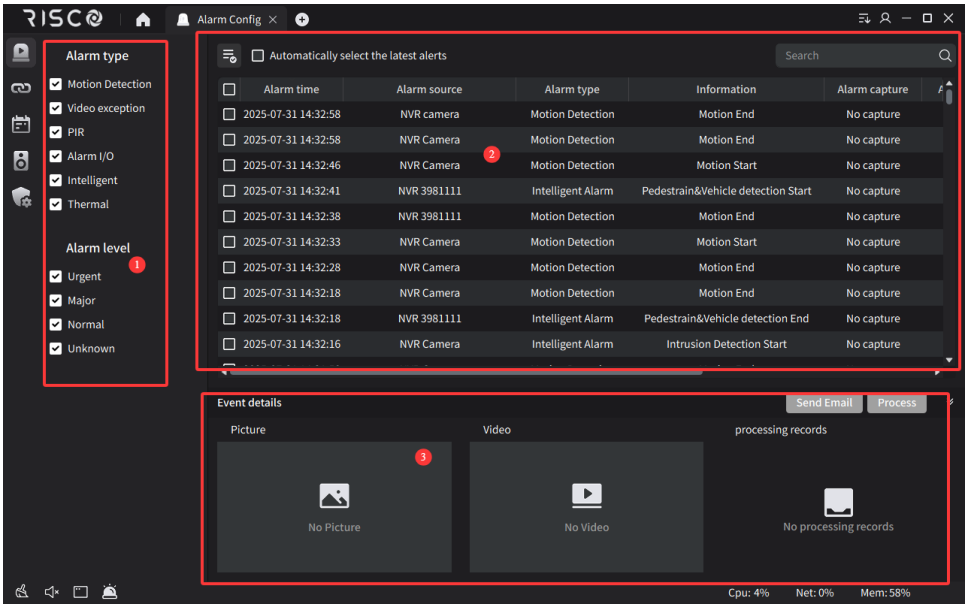
1. Click open the personnel information setting menu and modify the personnel information in the current device.
2. Click sign in the selected person, as shown in the screen below.



11. Alarm Settings

11.1. Alarm Event Display

Click "**Alarm Config**" in the main menu to enter the alarm operation interface and select the alarm event, as shown in the screen below.



11.1.1. Alarm type and alarm level

Alarm Type: Set the alarm type displayed in the window. Only the selected alarm type information will be displayed in the message window.

Alarm Level: Set the alarm level displayed in the window. There are four levels: urgent, important, normal and unknown, the message window will be displayed only for the selected alarm level.

Note: the alarm level needs to be set on the alarm linkage page.

11.1.2. Alarm information display area

This area displays the alarm status of online devices in real time.

Note: The channel schedule status can be set on the alarm linkage page to control the display of alarm message here.

11.1.3. Alarm event details area

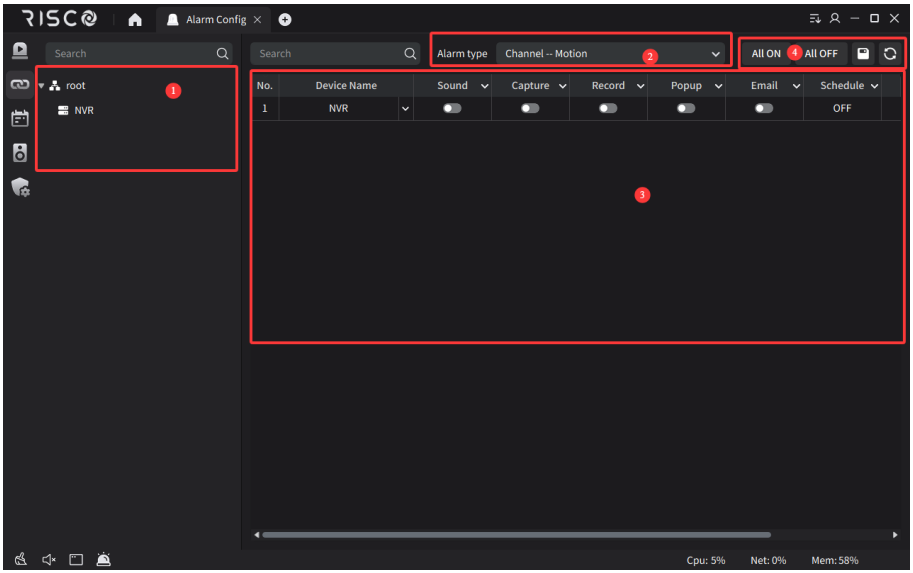
If the alarm channel has enabled alarm linkage snapshot and video recording on the alarm linkage setting page, you can see the screenshots and videos associated with the alarm when you select the alarm information, and you can play the videos.

1. Click the Send Email button to send the current alarm information to the set email address.
2. Click or Process button to comment on all or individual alarm events.
3. Click clear the alarm information display, click turn the alarm volume on or off.
4. Click set the real-time alarm pop-up, **Close:** no pop-up window, **Open:** pop-up window will be displayed at the top of the page when there is an alarm.

Full screen: When an alarm occurs, the pop-up window is displayed in full screen. Click view the abnormal alarm record of the device.

11.2. Alarm Linkage Settings

Click "**Alarm Config**" in the main menu to enter the alarm operation interface and select alarm linkage, as shown in the screen below.



1. **Device area:** displays devices that support settings.

   Note: the device must remain online.

2. **Alarm type selection:** including normal alarm, AI analysis and AI. Click to expand the alarm type options and select the alarm type setting as needed.

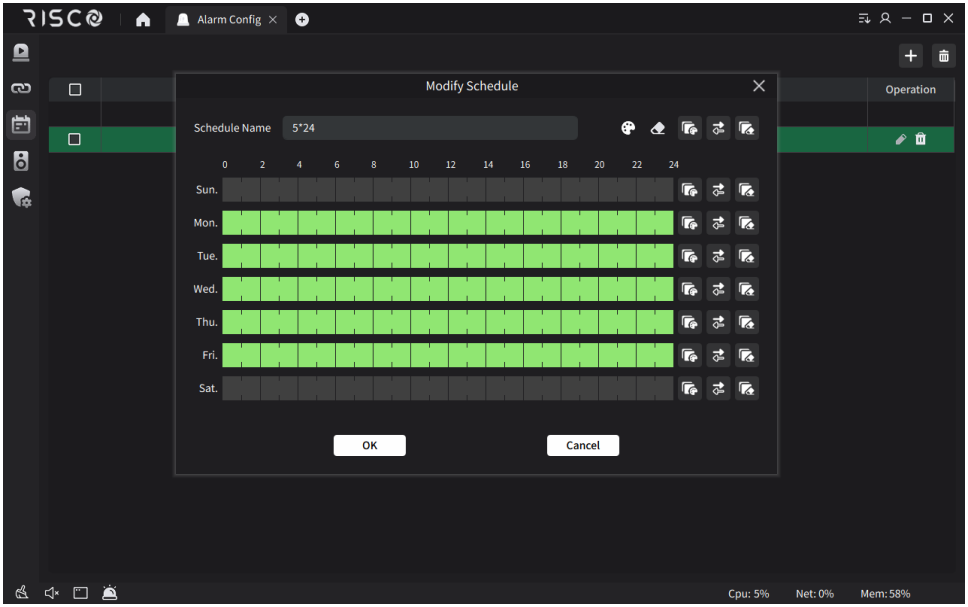
3. **Alarm linkage settings:** Support settings for Capture, Record, Popup, Sound, Email, Schedule and Alarm level.

4. **Operation settings:**

   - **All ON:** All options are turned on
   - **All OFF:** All options are turned off
   - **Refresh:** Refresh the current page
   - **Save:** Save settings

11.3. Schedule Settings

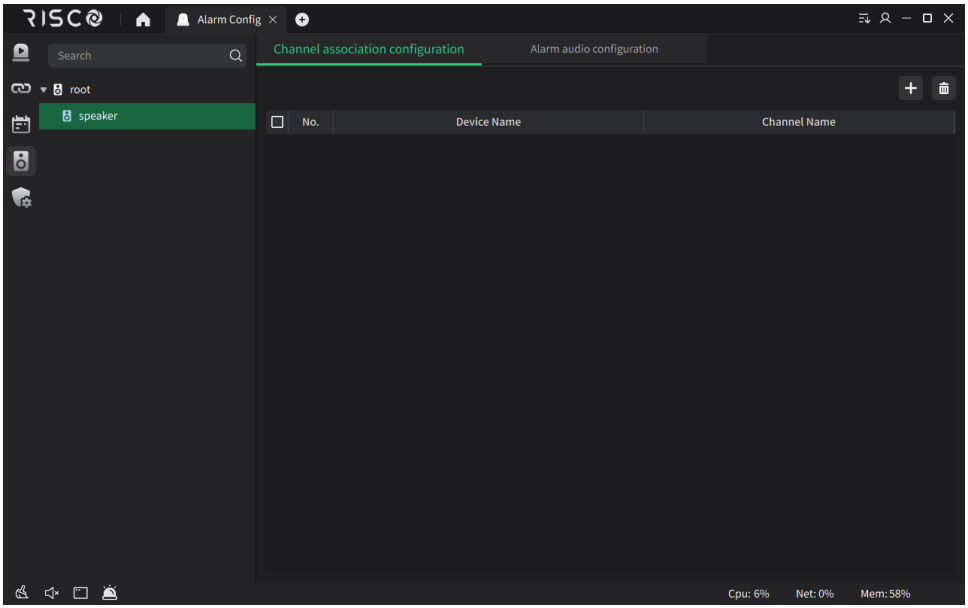
Click "**Alarm Config**" in the main menu to enter the alarm operation interface and select the schedule, as shown in the screen below.



On this page, you can add, delete, and modify schedules. The schedules can be applied to alarm linkage channel settings and local recording schedule settings.

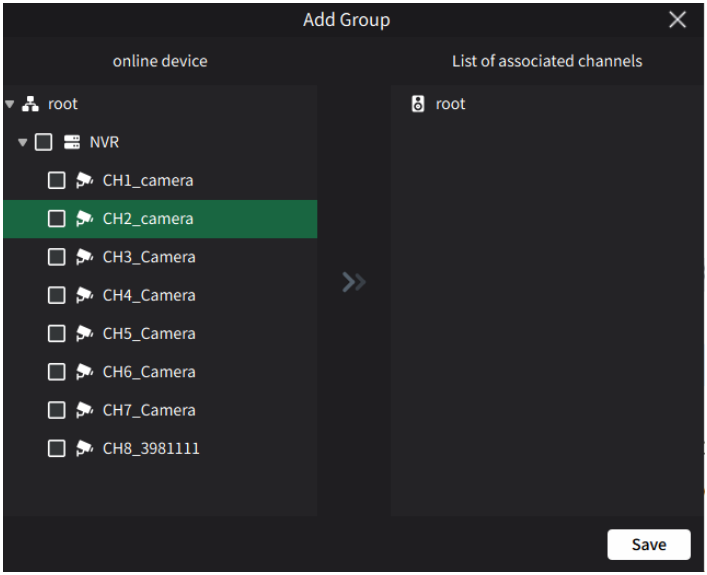
11.4. IP Speaker Linkage Settings

Click "**Alarm Config**" in the main menu to enter the alarm operation interface and select IP Speaker alarm settings, as shown in the screen below.

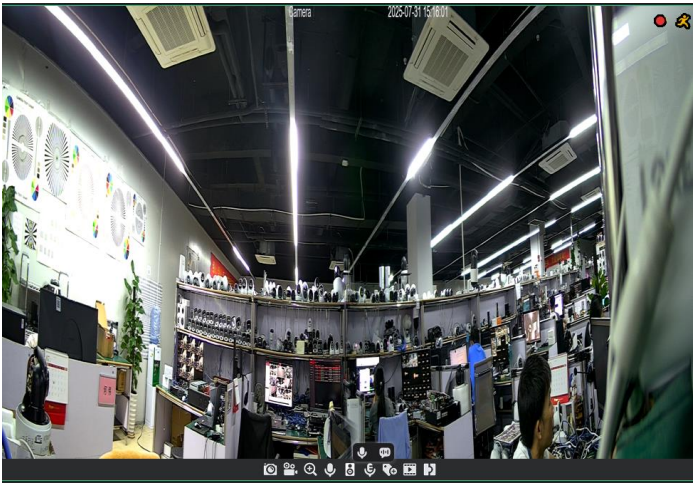


Note: To configure this function, you need to add IP Speaker to VMS and make it online in advance.

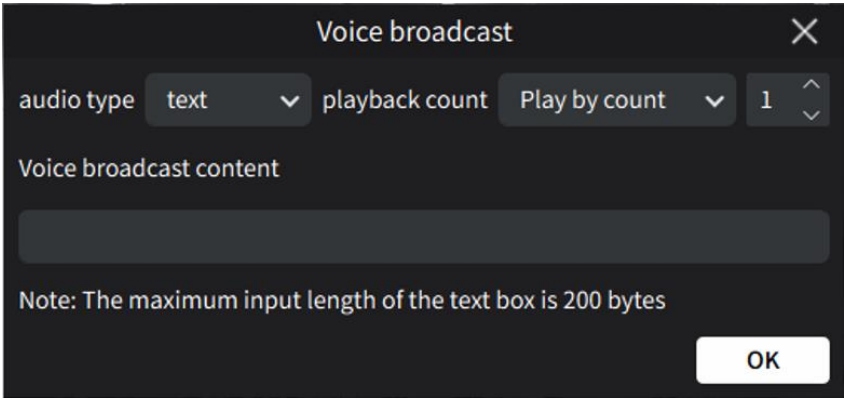
1. **Bind device channel:** Click the Add button, select the device channel to be bound in the pop-up menu list, and click » to add to Bind Device List.



2. Go to the preview page to preview the bound device channel, click channel Speaker icon--Intercom to speak on the PC side and output on the speaker.

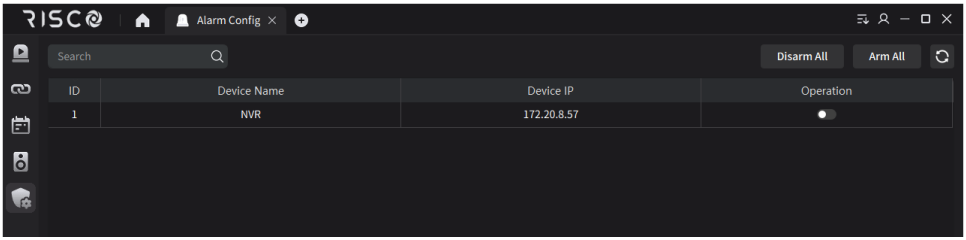


3. Click the channel Speaker icon--Broadcast button to open the broadcast setting menu, where you can enter **text** to convert **audio** or import **audio files** to broadcast the speaker at a set number of times.


Voice broadcast
audio type
text
playback count
Play by count
1
Voice broadcast content
Note: The maximum input length of the text box is 200 bytes
OK

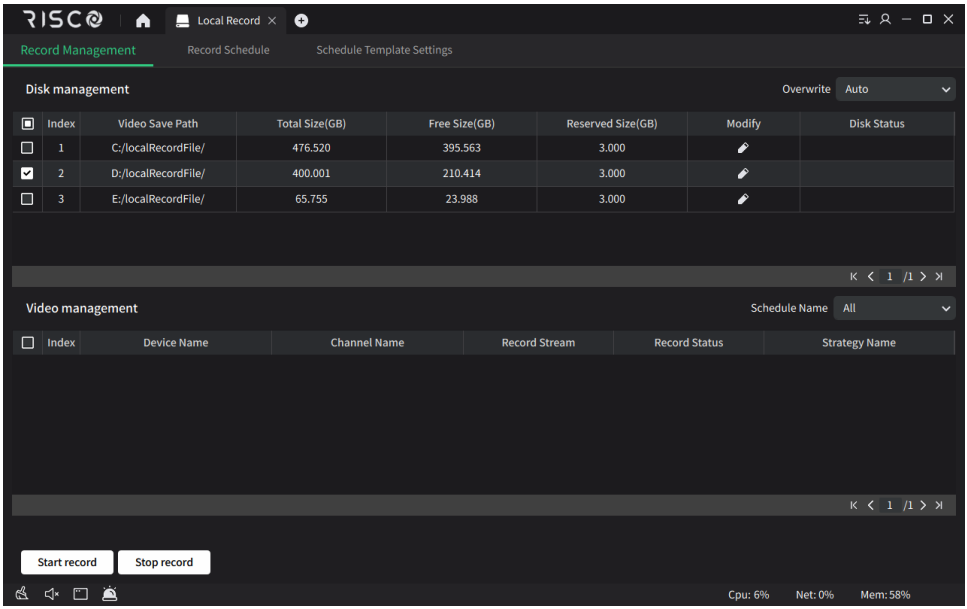
11.5. Device Disarming

On the device disarm page, you can disarm/arm devices that have the alarm disarm/arm function.

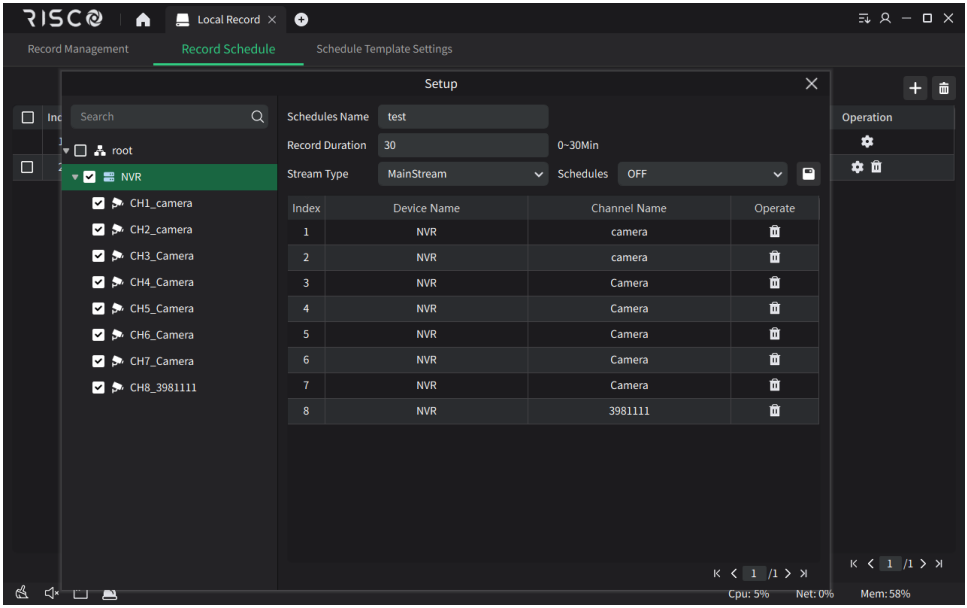


12. Local Record

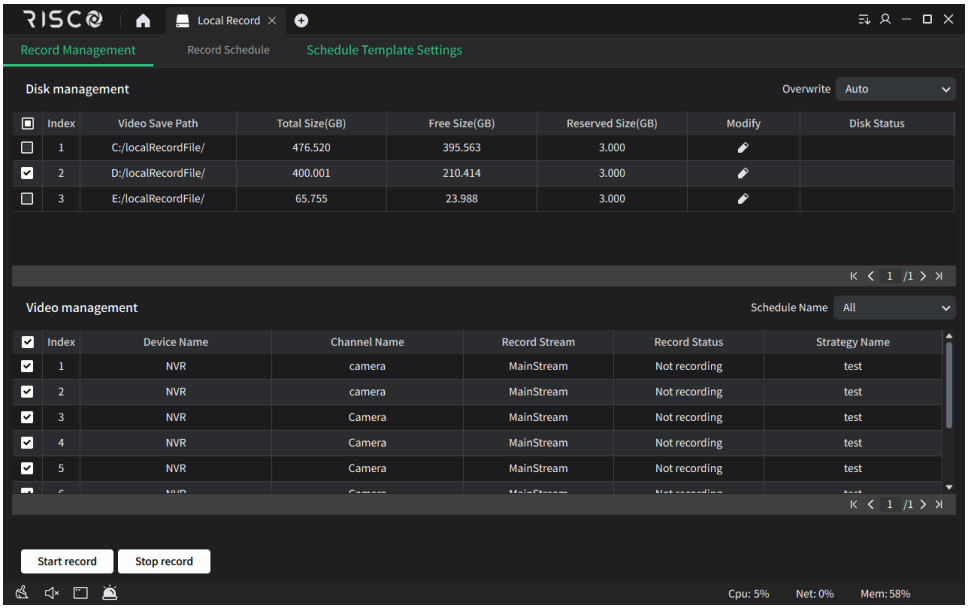
1. Click " **Local Record** " in the main menu to enter the local video management interface. On this page, you can configure the local video storage partition and directory, and set the video overwrite method, as shown in the screen below.



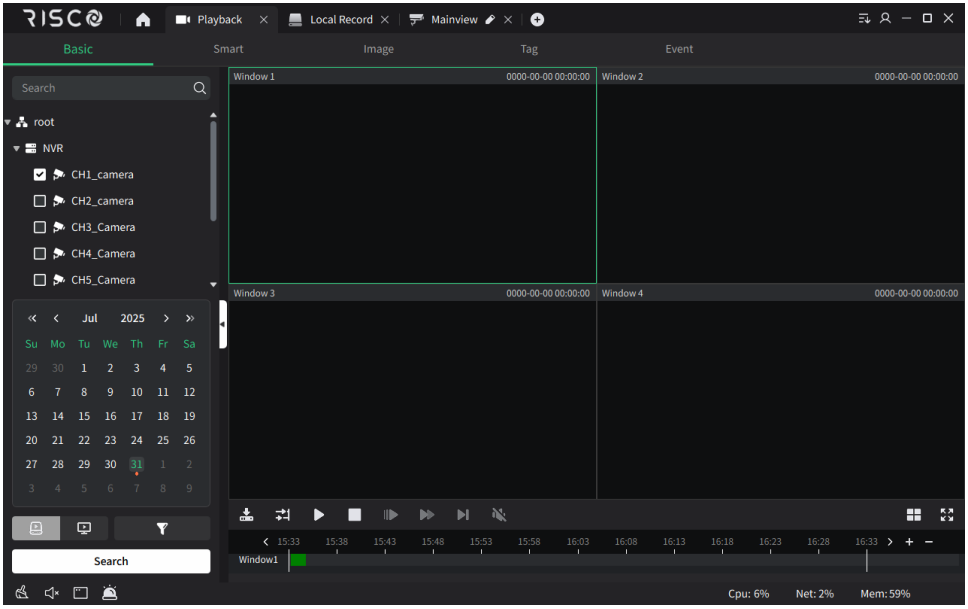
2. Click " **Record Schedule** " to enter the recording plan setting interface, check the device channel that needs to be recorded in the device list, set the plan name, recording file length, recording bit rate, and use schedule. After the settings are completed, click " **Save** " to save, as shown in the image below.


Local Record
Record Management
Record Schedule
Schedule Template Settings
Setup
Search
root
NVR
CH1_camera
CH2_camera
CH3_Camera
CH4_Camera
CH5_Camera
CH6_Camera
CH7_Camera
CH8_3981111
Schedules Name
test
Record Duration
30
0~30Min
Stream Type
MainStream
Schedules
OFF
Index
Device Name
Channel Name
Operate
1 NVR camera
2 NVR camera
3 NVR Camera
4 NVR Camera
5 NVR Camera
6 NVR Camera
7 NVR Camera
8 NVR 3981111
Operation
1 /1
Cpu: 5%
Net: 0%
Mem: 58%

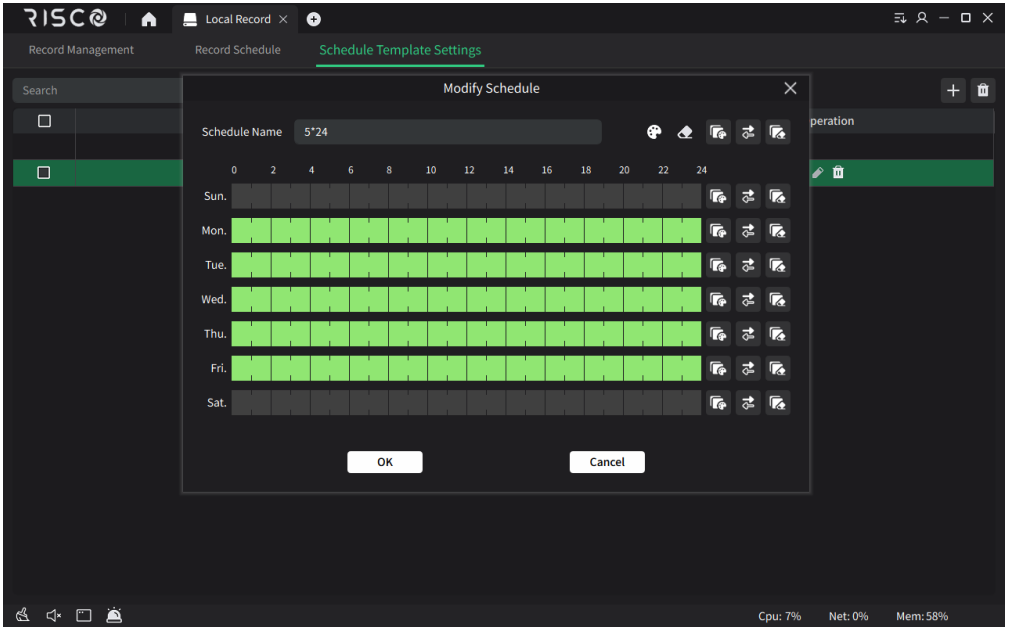
3. After the settings are completed, enter the "**Record Management**" interface, select the added channel in the video management list, click start record to start local recording, and click stop record to stop local recording, as shown in the screen below.



4. Return to the main menu, enter "**Playback---Local Playback**", select the device channel configured for local recording, and perform recording search and playback, as shown in the screen below.

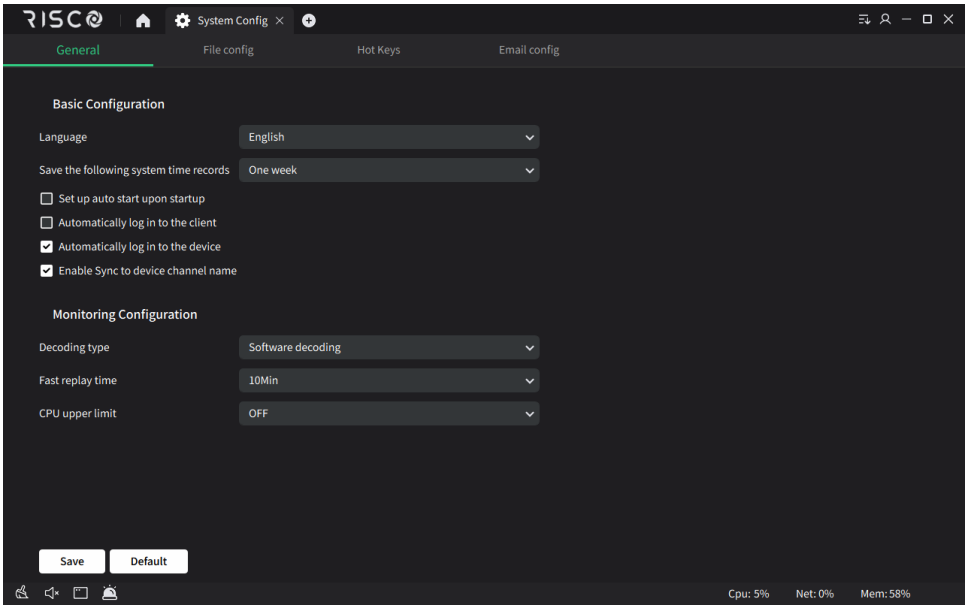


5. Click "**Schedule Templates Settings**" to enter the recording plan setting interface, On this page, you can add, delete, and modify schedules. The schedules can be applied to alarm linkage channel settings and local recording schedule settings.



13. System Configuration

Click "**System Config**" in the main menu to enter the system configuration interface, as shown in the screen below.



Configure system parameters. The specific parameters are as follows:

13.1.1. General

Language: System language settings

Keep System Logs for: System log retention period, there are three options: One week , half of month and a month.

Setup auto start upon startup: Automatic startup upon startup.

Automatic login: Automatic login VMS.

Automatically log into device: Automatically log in to the device. When logging in to Cloud VMS, the connected device automatically logs in and goes online. Uncheck the option to log in to Cloud VMS and all devices are offline.

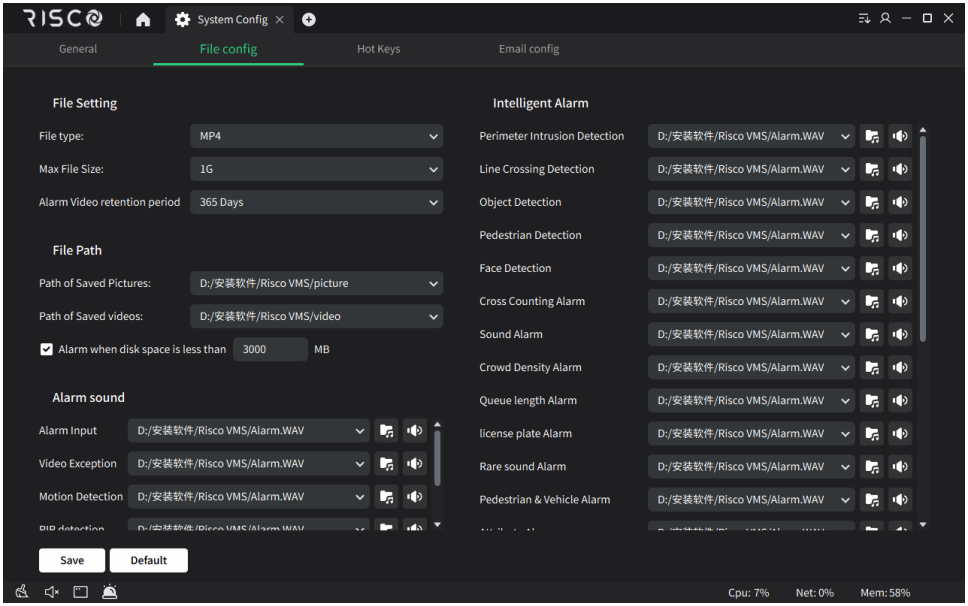
Enable **Sync to device channel name**: Enable synchronization of device channel names. When the device changes the channel name, it will automatically synchronize to the corresponding channel in VMS.

Decoding type: Software decoding relies on the CPU for decoding, which consumes a lot of CPU, hardware decoding relies on the GPU for decoding, which reduces the consumption of the CPU.

Fast playback time: Instant playback recording time setting, supports 1min, 3min, 5min, 10min.

CPU/GPU Upper Limit: Set the CPU/GPU usage limit during preview or playback. If the usage exceeds the set limit, the preview channel will be automatically closed to reduce the CPU/GPU load.

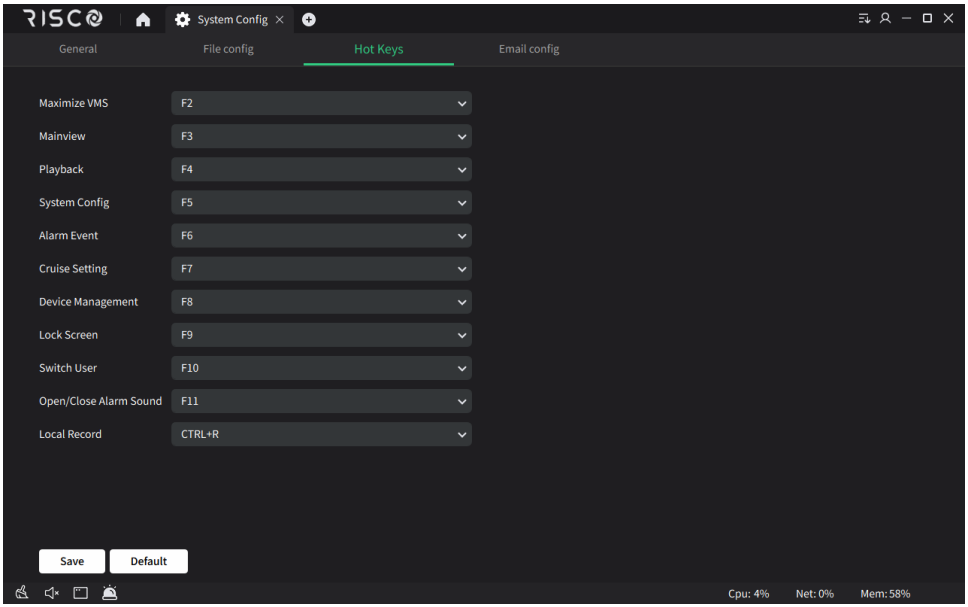
13.2. File Config



- **File type:** Save file type, including the following options: AVF, AVI, MP4
- **Max File Size:** The size of a single video file. The options are as follows: 1G, 2G (AVI format only supports 1G video files)
- **Alarm video retention period:** Optional 7/30/90/180/365 days
    - **Path of Saved Pictures:** Set the save path of local picture files.
    - **Path of Saved Videos:** Set the save path of local video files.
- **Alarm when disk space is less than _MB:** Set a value, when the disk free space is less than this value, the system will pop-up a warning. Check and set the value, the minimum setting is 500MB.

- **Alarm Sound:** Set the corresponding alarm sound when various alarms are triggered.

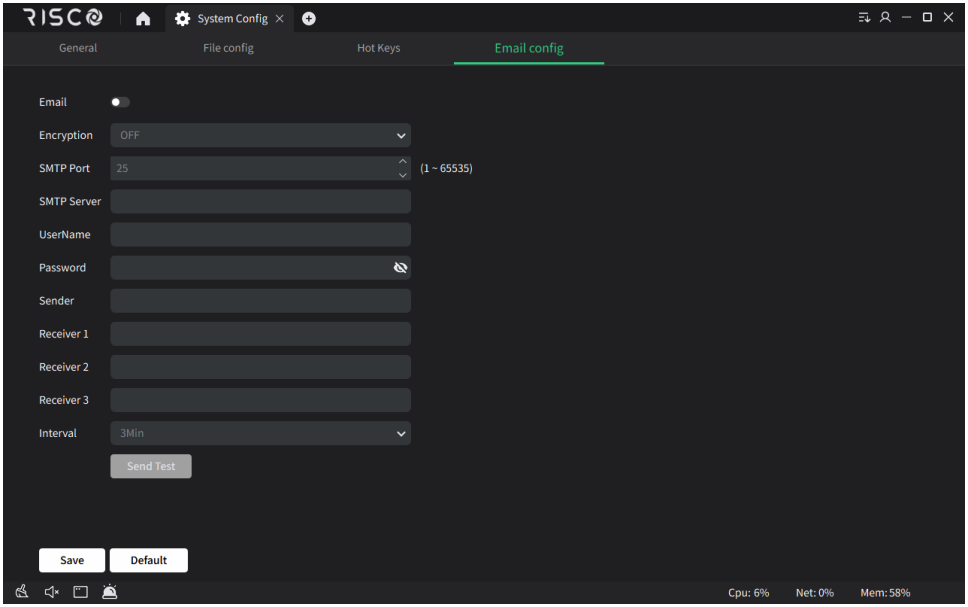
13.3. Hot Key



- **Maximize VMS (open full screen): F2**
- **Mainview (open preview): F3**
- **Playback (open playback): F4**
- **System config (Open system settings): F5**
- **Alarm event (open alarm): F6**
- **Cruise Setting (Open Cruise Setting): F7**
- **Device Management (Open Device Management): F8**
- **Lock Screen (lock screen): F9**
- **Switch user: F10**
- **Open/Close alarm sound: F11**
- **Local Record (open local recording): CTRL + R**

You can quickly open a module through shortcut keys. The above shortcut keys are the default shortcut keys, and users can modify them according to their usage habits.

13.4. E-mail Config



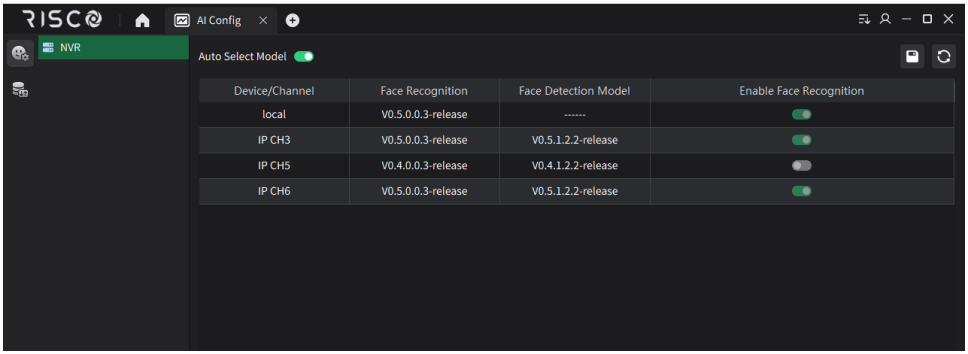
Send alarms received by VMS to the specified email address. You need to enable the alarm email function on the alarm settings.

- **Email:** Email settings switch
- **Encryption:** Enable if your email server requires SSL or TLS authentication. If you are unsure, set to "Auto".
- **SMTP Port:** Enter the SMTP port of your email server.
- **SMTP Sever:** Enter the SMTP server address for email.
- **UserName:** Enter the user's email address.
- **Password:** Enter the user's email password.
- **Sender:** Sender name.
- **Receiver 1-3:** Enter the email address where the user will receive event notifications from VMS.
- **Interval:** Configure the time interval between VMS notification emails. The default value is 3 minutes.
- **Send Test:** Ensure that all settings are correct, click “Test Email” and the system will send an email to the user's inbox. If the user receives the test email, it means that the configuration parameters are correct

14. AI Configuration

14.1. Model Configuration

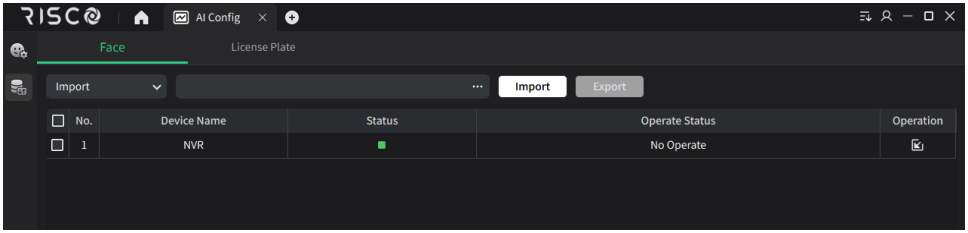
Click "**AI Config**" in the main menu to enter the AI configuration operation interface and select model configuration, as shown in the screen below.



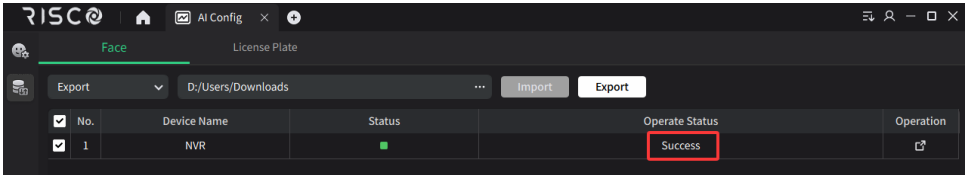
On this page, you can select devices that support face recognition and set how to use the face recognition model. Automatic mode: local models and camera models that are consistent with the local model version will be used first. **Manual mode:** The face model needs to be enabled manually.

14.2. DataBase Synchronization

On this page, you can back up and import the face and license plate database of the device.



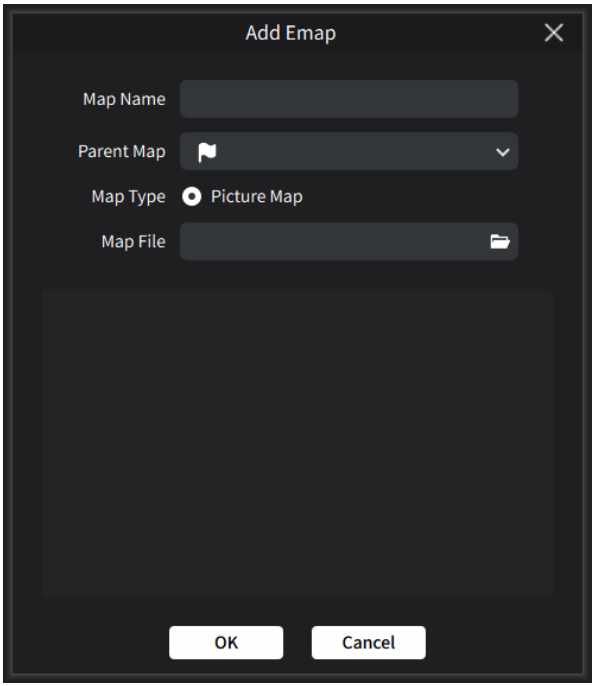
For example, select the operating device, select the operation type as **Export**, save the path, click Export, perform password authentication, proceed to "Export", the export is completed and the status is "success".


AI Config
Face
License Plate
Export
D:/Users/Downloads
Import
Export
No.
Device Name
Status
Operate Status
Operation
1
NVR
Success

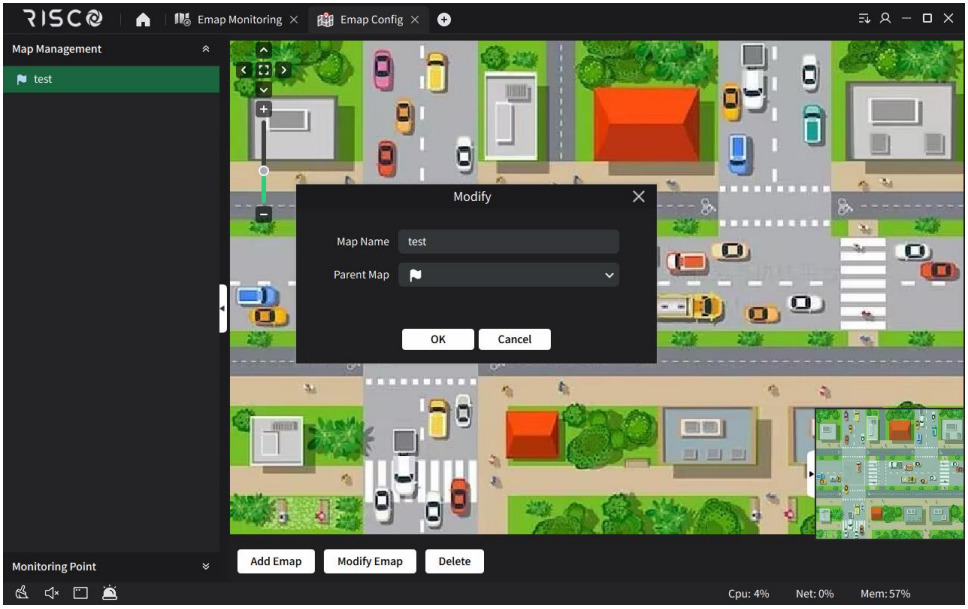
15. Electronic Map

15.1. Create / Modify Map

1. Click "**Emap Config**" in the main menu to enter the map configuration interface, click "**Add Emap**" in the interface, and the system will pop up the map selection dialog box, as shown in the below picture.



2. Set the map name, select the image path , and complete import maps.
3. Click "**Modify Emap**" and you can modify the map name in the pop-up menu.

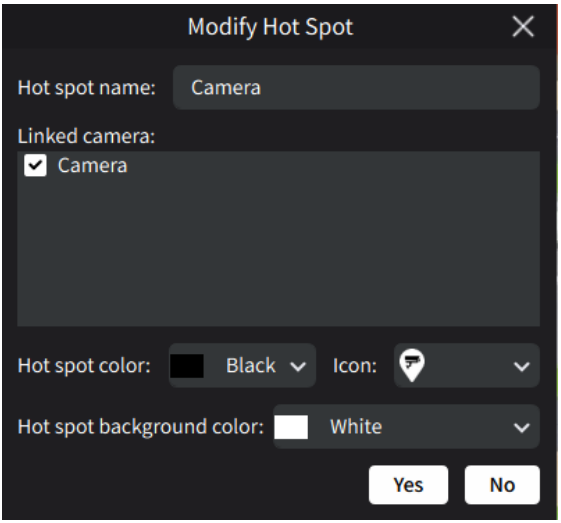


15.2. Deployment of Monitoring Points

Click "**Monitoring Point**" option on the left side of the interface to expand the device list , and drag the device channel to the corresponding monitoring point on the map according to the actual installation location of the camera.

15.3. Modify / Delete Monitoring Points

Select the deployed monitoring point, right-click Edit to enter the modification interface, where you can modify the point name, point logo, name color and name background color, as shown in the below picture.



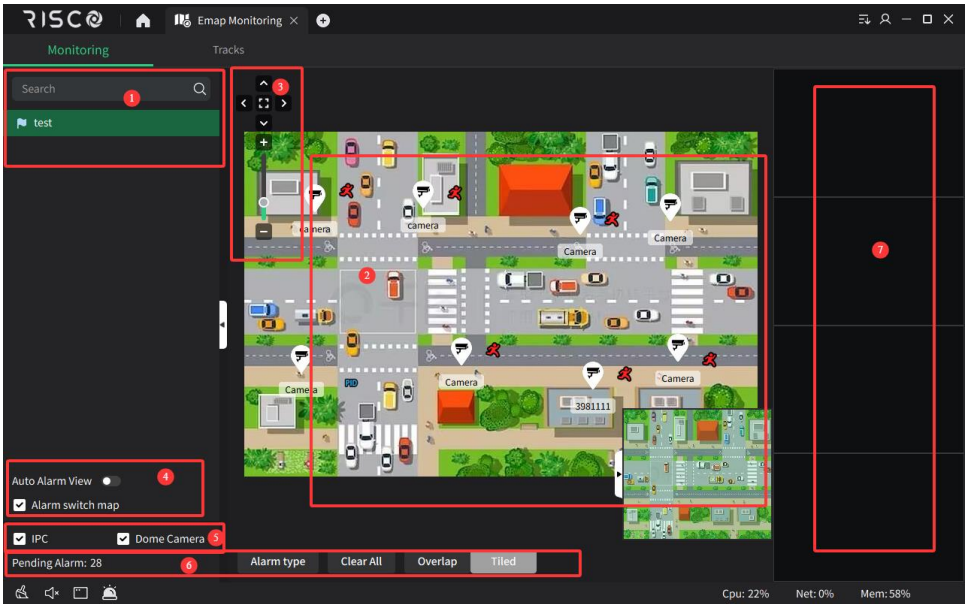
Select the deployed monitoring point, right-click Delete, and select "**Yes**" in the confirmation menu to delete the monitoring point.

16. Map Preview

16.1. Monitoring

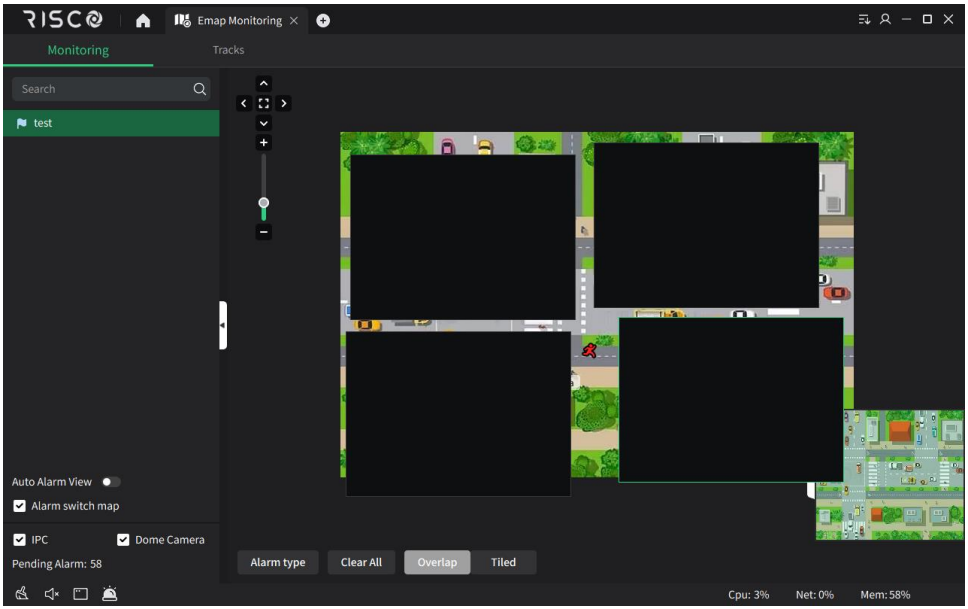
Through the electronic map, you can intuitively understand the location of the alarm channel and view the video or alarm status of the channel in real time.

Click **Emap Monitoring** in the main menu to enter the map preview interface, as shown in the screen below.



1. **Map:** Display the added map.
2. **Map preview:** After clicking on the selected map, the map view will be displayed there.
3. **Map operation area:** You can perform operations such as up, down, left, right, and zoom on the selected map.
4. When automatic alarm preview is enabled and an alarm is triggered on a device that has been added to the map, the alarm type logo will be displayed on the map, and the real-time image will be automatically played in the preview box on the right, if it is not enabled, it will not be automatically previewed in the window, and only the triggered alarm type logo will be displayed next to the corresponding device on the map.
5. **Device type:** Select the equipment type to be displayed on the map. The selected type will be displayed on the map.

6. **Alarm type:** You can select the alarm type to be displayed on the map, click "**Clear All**" to clear the pending alarms, click "**Overlap / Tiled**" to change the layout of the preview window to tiled or stacked , as shown in the following figure.

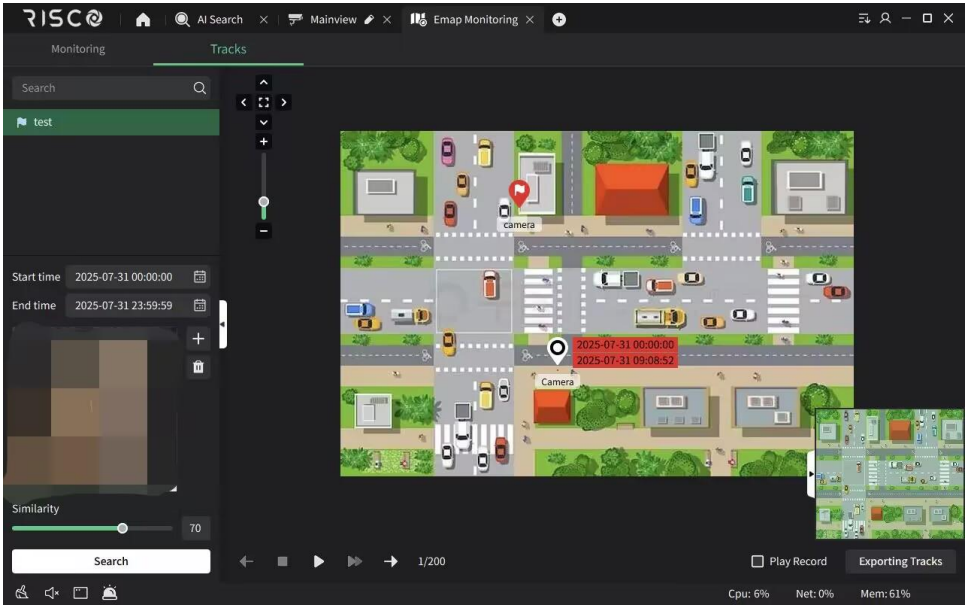


7. **Alarm preview area:** When double-clicking the device or the automatic alarm is checked and an alarm is triggered, the real-time image will be displayed in the preview area on the right, with a maximum of 4 images displayed.

16.2. Track Playback

The camera captures the facial information of the person and records the time when he or she appears in the monitoring area. These face recognition records are played back in chronological order to clearly show the movement trajectory of the retrieval target in the area.

To use this function, you need to confirm that the face recognition function has been enabled on the cameras added to the monitoring area.



1. Set search time period.
2. Click  select the face image of the search target to import. The imported face image will be displayed in the below picture.
3. Click  delete the imported face image. After deletion, the face image will not be displayed in the image display box.
4. Click the search button to display the camera that captured the face on the map, and mark the first capture point  and the last capture point  .
5. Click  to play the captured track
6. After selecting Play Record at the bottom, click  play the captured track and the corresponding recording event of the captured point.
7. Click 

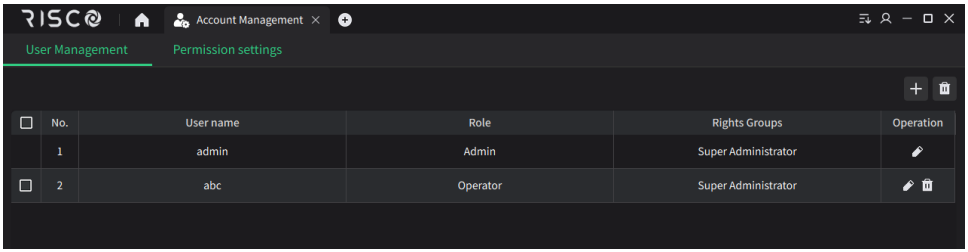
select a local directory to export the face capture information generated by the trajectory.

17. Account Management

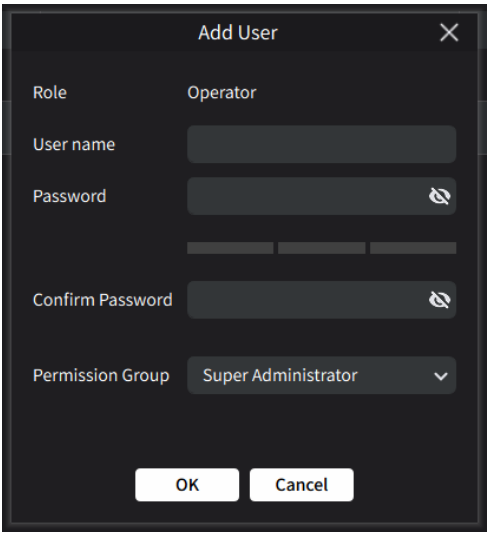
On this page, you can add sub-users and configure permission groups.

17.1. Adding User

1. Select "**Account Management**" in the main menu to enter the **Account management ---User Management** interface, as shown in the screen below.



2. Click  in the upper right corner of the interface to open the add user menu, set the user name and password, configure the created permission group, and complete the sub-user configuration, as shown in the screen below.

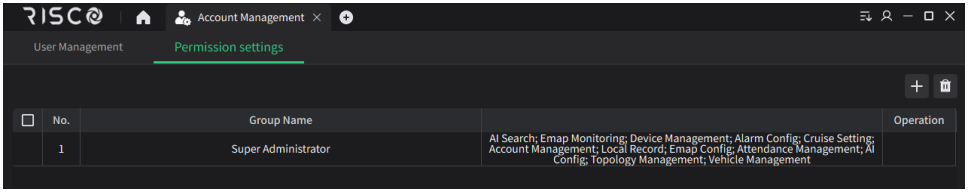


3. Select the added sub-user and click  button to delete it..

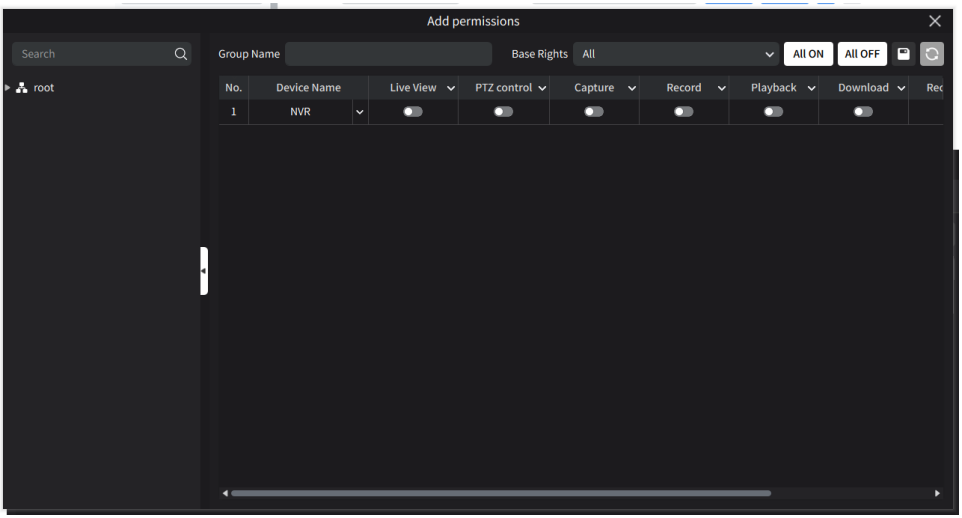
Note: Administrator users cannot be deleted.

17.2. Configure Permission Groups

1. Select "**Account Management**" in the main menu to enter the Account management---Permission settings interface, as shown in the below picture.



2. Click + on this page to open the permission group configuration menu, set the group name, and the operational permissions of the devices under the group, as shown in the screen below.



Note: The permission group configuration list does not support the configuration of devices that record to the cloud or devices that are on the cloud.

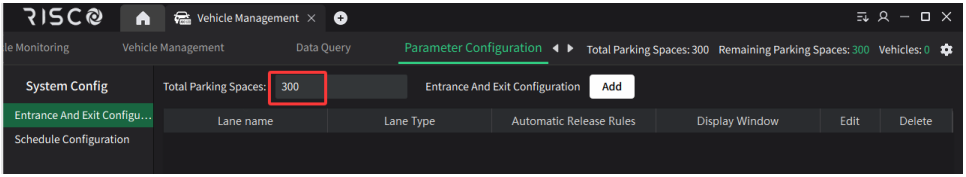
18. License Plate Management

This function is suitable for integrating multiple cameras that support license plate recognition into a parking lot management system after the entrance and exit are configured according to the actual installation lane, so as to manage the incoming and outgoing vehicles.

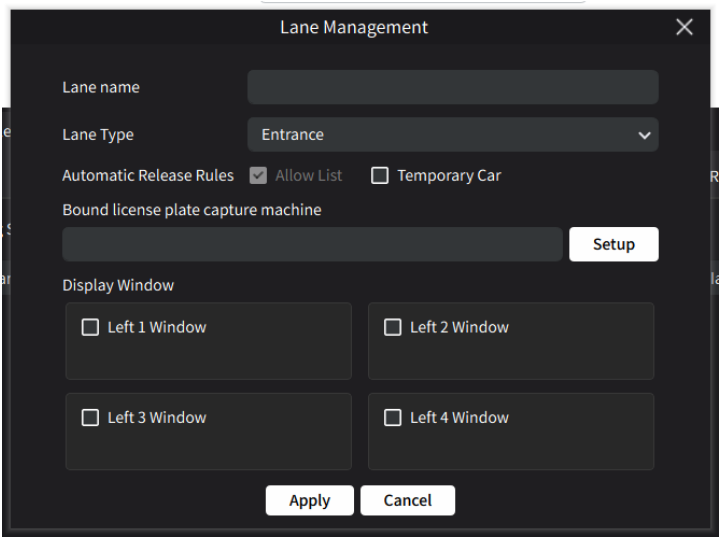
18.1. Parameter Configuration

18.1.1. Entrance and Exit Configuration

1. The number of parking Spaces is configured according to the actual number of parking Spaces, and the maximum number can be set to 300.



2. Click Add button to open the lane management page, and bind the camera and set the lane parameters.



Lane Type: Entrances and exits can be configured according to the actual lane type.

Automatic Release Rules: The license plate in the allow list is automatically released by default and cannot be cancelled. If the temporary car is checked, the temporary car will be automatically released when it is recognized in the lane。

Bound license plate capture machine: Click Setup button, and select the online license plate camera added to the VMS for binding in the opening menu.

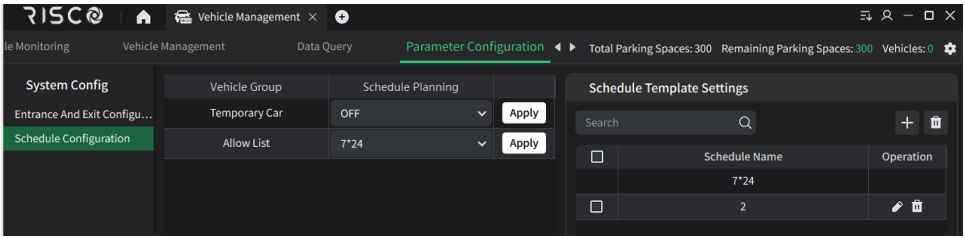
Display Windows: Select the camera screen output window bound to the current lane.

Notes:

1. A temporary car is a license plate that does not exist on allow and block list.
2. Only one license plate capture camera can be bound to each lane, and the already bound camera cannot be used again.
3. The ANPR camera bound to the lane must disable the license plate linkage IO function on the stand-alone IPC.

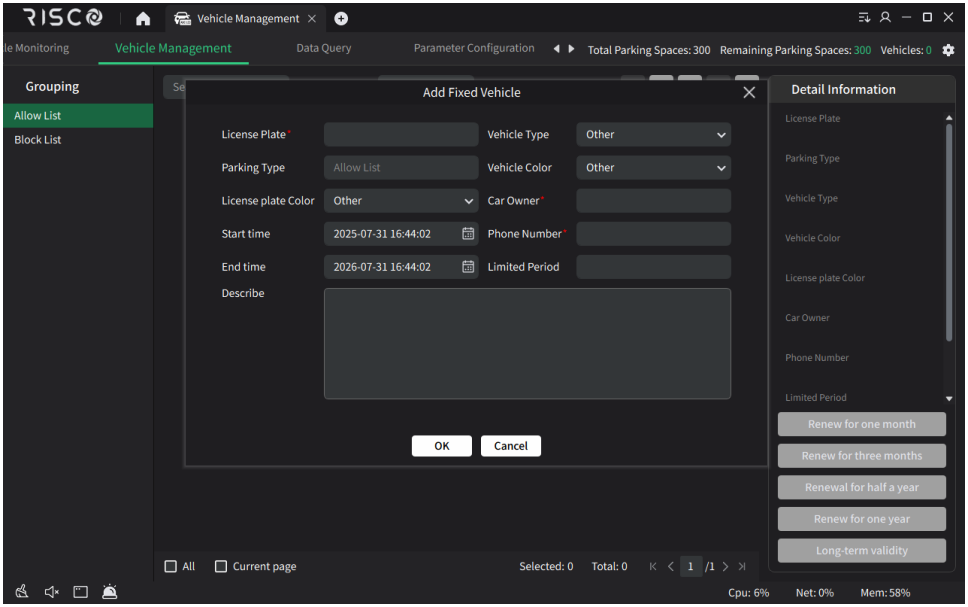
18.1.2. Schedule Configuration

On this page, you can configure allow list, temporary vehicle automatic release schedule, and perform the operation of adding and deleting the schedule.



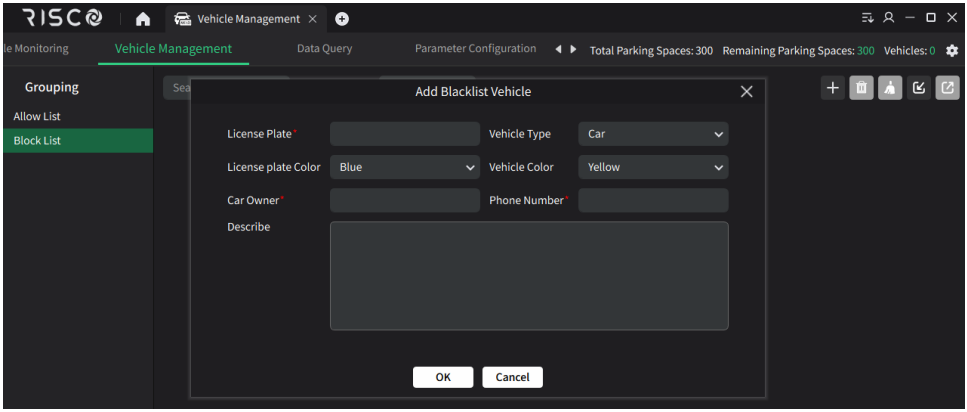
18.2. Vehicle Group Management

1. Enter the vehicle management-Allow List page, click + button, open the vehicle information Settings page, shown as the below picture.



On this page, you can input the license plate number, type, color, owner's name and contact number, validity period, remarks and other information of the vehicle.

1. Select the added vehicles, you can click button to delete the vehicle. Click clear group button, you can delete all the vehicles in the current list.
2. Select the added vehicles, click button to export the vehicle information to the local computer.
3. Click button to import the vehicle information from the local computer into the allow list group.
4. Select the added vehicle and click the renewal button to renew the vehicle. The renewal period can be half a month, one month, six months, one year or long term.
5. Enter the **Vehicle management--Block List** page, click + button, open the vehicle information settings page, as shown in the below picture.



On this page, you can input the license plate number, type, color, owner's name and contact number, remarks and other information of the vehicle. Select the added vehicle, click button to delete the vehicle.

Click clear group button, you can delete all the vehicles in the current list.

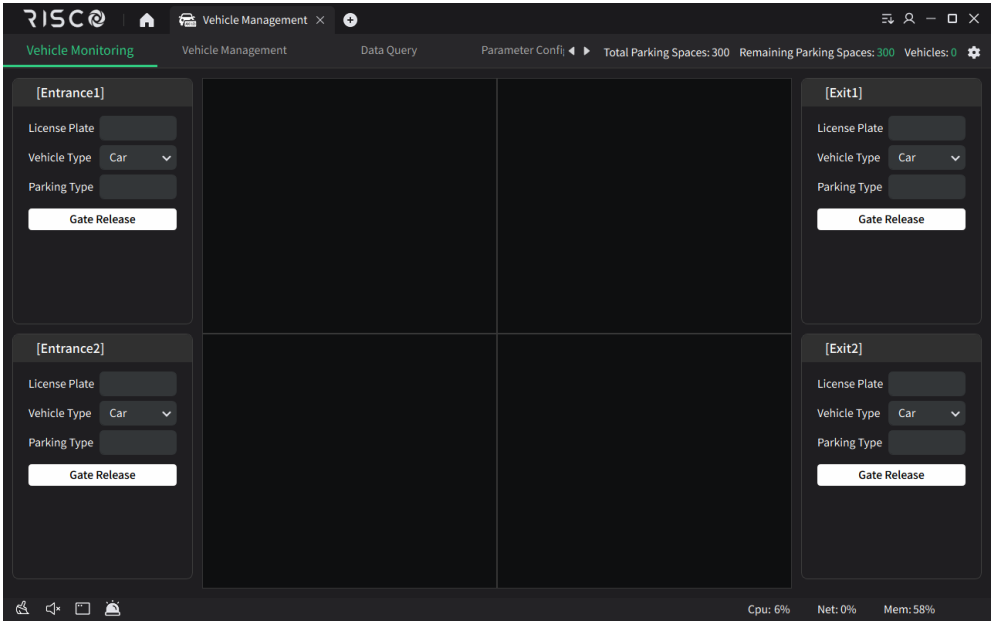
Select the added vehicles, click button to export the vehicle information to the local computer.

click button to import the vehicle information from the local computer into the blacklist group.

Note: Vehicles on the allow and block list support mutual transfer.

18.3. Vehicle Monitoring

On this page, you can preview the real-time picture of the license plate camera that has completed lane binding and manually release the operation.



Automatic release: The camera recognizes the license plate information, and the VMS automatically opens the gate by linking to the IO according to the automatic release rules of the current lane.

Manual release: When the vehicle information is in the blacklist or the temporary automatic release configuration of the current lane is not enabled, the barrier gate is opened manually by operating the linked IO.

Parking statistics: Real-time statistics of the number of vehicles entering and the number of remaining parking space.

Notes:

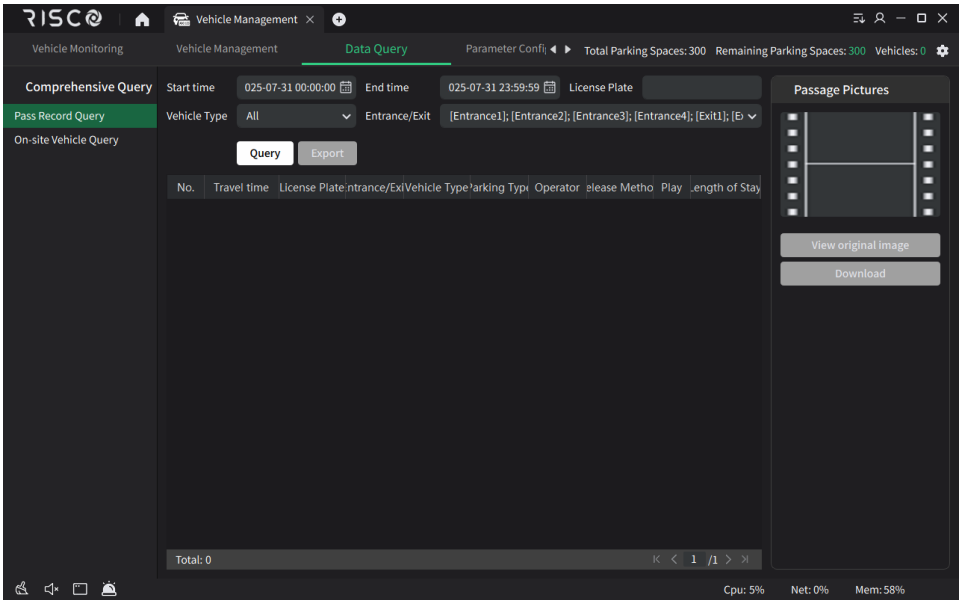
1. When manually releasing the vehicle, the license plate number should be entered first, otherwise the IO linkage cannot be carried out.
2. If the temporary vehicle is automatically released at the exit, it is necessary to ensure that the export identification license plate is consistent with the registration number of the vehicle when entering.
3. When the export manual release is performed, if the input license plate exists in the entrance record, the remaining parking space will be increased by 1. If the input license plate number does not exist in the entrance record, the remaining parking space will remain unchanged.
4. Allow list vehicles whose validity period expires need to be manually released when entering or leaving.

5. When the parking lot has no more space, vehicles need to be manually released when entering.

18.4. Data Query

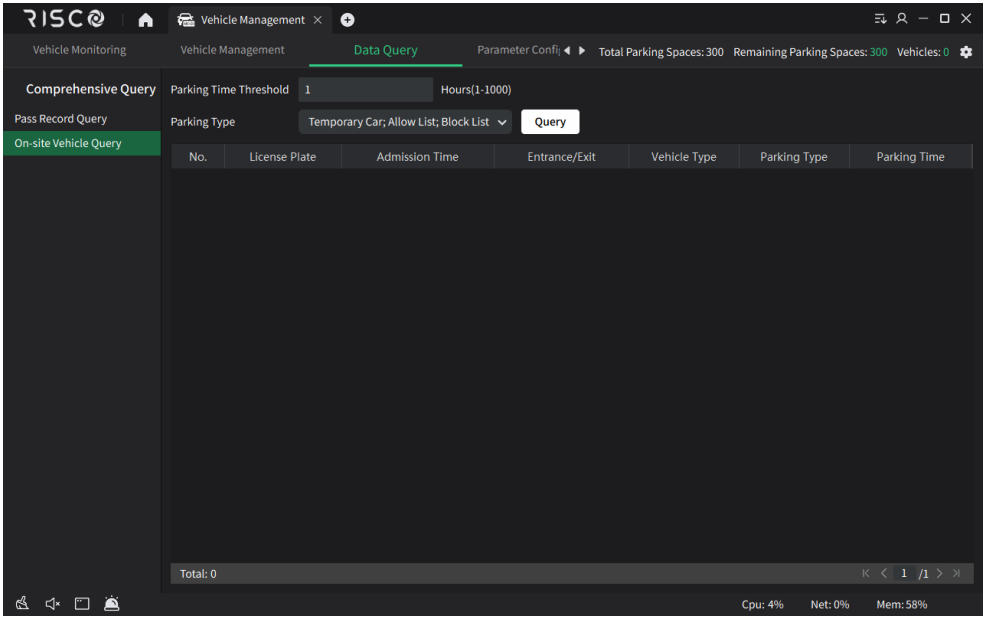
18.4.1. Pass Record Query

On this page, you can query and export the vehicle traffic records of all entrances and exits within the set time range, view the corresponding license plate screenshots and related video clips of relevant records, and download and backup.



18.4.2. On-site Vehicle Query

On this page, you can query the vehicles parked in the current parking lot for more than 1H. You can customize the timeout threshold and parking type for query.



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