# **CTAVUE**<sup>®</sup> <sup>BY</sup> Securing Your World.

GSD GROUP

# **USER MANUAL**

VIDEO MANAGEMENT SOFTWARE PRO

## **1.VMS Pro Introduction**

#### 1.1. VMS Pro Overview

Video Management Software (VMS) is used to manage several security monitoring devices. The VMS Pro client works with devices such as XVRs, NVRs, and IP cameras.

The software features include:

- Resetting the password.
- Supporting usage by multiple users.
- Adding a single device, devices in batches, and devices with different protocols.
- Configuring devices remotely.
- Viewing videos from multiple devices in real time and playing back the recordings.
- Supporting the cruise view of videos from multiple devices.
- Playing back recordings and viewing captured images remotely.
- Configuring various types of alarm detections.
- Configuring electronic maps so you can locate devices anytime to deploy and manage the devices easily.
- Querying and exporting logs.
- Supporting face recognition, human and vehicle recognition, and license plate recognition.
- Supporting intelligent configuration and attendance management.
- Supporting intelligent 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, and viewing images and videos separately.

#### **1.2. VMS Pro Running Configuration**

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

- Operating system: Windows 7, Windows 10, Windows 11, macOS 11.6 or later
- CPU: Intel<sup>®</sup> Core<sup>™</sup> i5-4590 @ 3.3 GHz or higher
- Memory: 4 GB or higher
- Graphics card: NVIDIA GT 730 or higher

#### **1.3. VMS Pro Main Interface**

The VMS Pro main interface is shown in the following figure. Each part is described in the table below the figure.

| © s   | ideo Management<br>oftware | <u>ه</u> | ⊞_ (           | 7 📖                | <u>ଡ</u> ୀ                  |              |                        |           |               | 13:23:24 202     | 2-06-27 CPU |
|-------|----------------------------|----------|----------------|--------------------|-----------------------------|--------------|------------------------|-----------|---------------|------------------|-------------|
|       |                            |          |                |                    |                             |              |                        |           |               |                  | 6           |
|       |                            |          |                |                    |                             | Oper         | ation                  |           |               |                  |             |
|       |                            | Ę        | 3              | Γ                  | ு                           |              | 品                      | AI        | 処             | -                |             |
|       |                            | Mainv    | iew            | Remote<br>PlayBack | Local PlayBack              | Log Search   | Topology<br>Management | AI Search | Data Analysis | AI Scene         |             |
|       |                            |          |                |                    |                             |              |                        |           |               |                  |             |
|       |                            |          |                | 7                  |                             | Co           | nfiq                   |           |               |                  |             |
|       | _                          |          | ~              |                    |                             |              |                        | 3         | ~ @           | ×                |             |
|       | De                         | evice    | ہے<br>Alarm Co | onfig Cr           | Jise Setting Accor<br>Manag | Junt Local I |                        | e Syste   | m Config Emap | Config AI Config |             |
|       |                            |          |                |                    |                             |              |                        |           | 4             |                  |             |
|       |                            |          |                |                    |                             |              |                        |           |               |                  |             |
|       | 8                          |          |                |                    |                             |              |                        |           |               |                  |             |
|       |                            |          |                |                    |                             |              |                        |           |               |                  |             |
| Alarm | £ ⊈× ⊡                     | 2        |                |                    |                             |              |                        |           |               |                  | × ם ج       |

| No. | Item         | Description   |
|-----|--------------|---|
| 1   | Function tab | Start and log into VMS Pro. On the main interface that appears, you will find the supported functions. If you click a function icon, you go to the function page. |
|     |              | Click $\checkmark$ or $\checkmark$ to mute or unmute the alarm prompt.  |
|     | Event        | Click 💽 or 🔟 to deny or allow the alarm pop-up.   |
| 2   | management   | Click 🙆 to clear alarms.  |
|     |              | Click Alarm to view alarms. For more information, see<br>Chapter 15 "Alarm Settings".   |

|   |                           | Click 🔄 to set the resolution.   |
|---|---------------------------|--|
|   | User management           | Click 🖸 to pop up the player.  |
| 3 |                           | Click $\stackrel{\mbox{\ensuremath{\boxtimes}}}{=}$ and select $\stackrel{\mbox{\ensuremath{\bigoplus}}}{=}$ to lock the screen. Then a password is required to log into the system. |
|   |                           | Click $\stackrel{\triangle}{=}$ and select $\stackrel{\triangle}{=}$ to switch users.  |
|   |                           | Click $\stackrel{\textcircled{a}}{=}$ and select $\stackrel{}{=}$ to view the software name and version number.  |
| 4 | S y s t e m<br>management | Click to go to the <b>System Config</b> page, where you can set the language, auto login and password to be remembered, file type and storage path, and alarm sound.                 |
|   |                           | Click — to minimize the software window.   |
| 5 | W i n d o w<br>management | Click <b>D</b> to maximize the software window.  |
| 5 |                           | Click 🗗 to restore the default window layout.  |
|   |                           | Click 🔀 to exit the software.  |
| 6 | System status             | View the current system time, CPU usage, username, and login time.   |

# 2.Registration and Login

#### 2.1. Creating an Administrator Account

During your first login to VMS Pro, set the administrator password and security questions as prompted by the system. The password is used to log into the system, and the security questions are used to reset the password by answering the questions.



Step 1: Double-click VMS Pro. The Initialization screen is displayed, as shown in the following the figure:

|                      | Initialization                  | ×     |
|----------------------|---------------------------------|-------|
| 1.Password Setting   | 2.Password Prote                | ction |
| (i) Please set admin | password at first installation. |       |
| Password             | •••••                           | 1     |
| Password Strength    |                                 |       |
| Confirm Password     | ••••••                          |       |
|                      | Auto Login After Registration   |       |
|                      |                                 |       |
|                      | (                               | Next  |

Set the administrator password. The parameters are described in the following table:

| Parameter                     | Description  |
|-------------------------------|--|
| Password                      | Length: 8 to 32 characters without spaces;<br>allowed: uppercase letters, lowercase letters,<br>digits, and special characters.  |
| Password Strength             | Password complexity. Red indicates that the<br>password is not complex or secure, and green<br>indicates that the password is complex and<br>secure. Set a highly secure password as<br>prompted by the password strength. |
| Confirm Password              | Ensure that the passwords are consistent.  |
| Auto Login After Registration | If selected, you log into the system<br>automatically after registration. Otherwise,<br>the login screen is displayed.   |

#### Step 2: Click Next after you set the password.

**Step 3:** Select questions and enter the answers. If you forget your password, you can reset the password by answering the questions.

Step 4: Then click Finish to save the settings.

|  | Initialization                  | ×    |
|--|---------------------------------|------|
| •••••••••••••••••••••••••••••••••••••• | 2.Password Protection           |      |
| <ul> <li>Please set securi</li> </ul>  | ity questions.                  |      |
| Question 1                             | What is your nickname?          |      |
| Answer                                 | milk                            |      |
| Question 2                             | When is your father's birthday? |      |
| Answer                                 | 0518                            |      |
|  |                                 |      |
|  | Fi                              | nish |

#### 2.2. Logging into VMS Pro

1. After device initialization, enter the account and password to log into VMS Pro.



Step 1: Double-click VMS Pro

The login screen is displayed, as shown in the following figure:

|               | Account Login                      | × |
|---------------|------------------------------------|---|
|               | 👌 admin 🗸 🗸                        | 1 |
|               |                                    |   |
| Account Login | Z Remember Password 🛛 🗌 Auto Login |   |
| Device Login  | Login                              |   |
| VMS Client    | Forgot Password2                   |   |

Step 2: Set parameters. The parameters are described in the following table:

| 各 User name ✓     | Enter the username and password.   |  |
|-------------------|--|--|
| 🔁 Password        |  |  |
| Remember Password | If selected, the system has remembered the password when you log in again.   |  |
| Auto Login        | If selected, the password is remembered, and you log into the system automatically.  |  |
| Forgot Password?  | If you forget your password, you can reset<br>the password by answering the questions. For<br>more information, see Section 2.3 "Resetting<br>the Password". |  |

#### Step 3: Click Login.

The system interface is displayed, as shown in the following figure:

| Software 14-05-25  | ⊑≗∅₋□×         |
|--|----------------|
| ( <u>km</u> ) outware 14:05:35   | 2022-06-27 CPU |
|  |                |
| Operation  |                |
|  | ጋ-ትጉ           |
|  | <b>45</b>      |
| Mainview Remote Local PlayBack Log Search Topology AI Search Data Analysis AI<br>PlayBack Management                       | Scene          |
|  |                |
|  |                |
| Config   |                |
|  |                |
|  | AL             |
| Device Alarm Config Cruise Setting Account Local Record File System Config Emap Config<br>Management Management Management | AI Config      |
|  |                |
|  |                |
|  |                |
|  |                |
|  |                |
|  |                |
| Alarm & ⊄× ⊡   | ☆□ ☆           |

2. Log into VMS Pro through device login.



Step 1: Double-click WMS Pro

**Step 2:** After the login screen is displayed, click **Device Login** on the left. The device login screen is displayed, as shown in the following figure:

|               | Device Login           | × |
|---------------|------------------------|---|
|               | Device IP/ID           |   |
|               | Port                   |   |
| Account Login | ▲ User name ▲ Password |   |
| Device Login  | Remember Password      |   |
| VMS Client    | Login                  |   |

Step 3: Set parameters. The parameters are described in the following table:

| Parameter          | Description             |
|--------------------|-------------------------|
| 📼 Device IP/ID 🛛 🗸 | Enter the device IP/ID. |
| Client port        | Enter the port number.  |

| Გ User name       | Enter the username and password.   |
|-------------------|--|
| 🔂 Password 🗸 🗸    |  |
| Remember Password | If selected, the system has remembered the password when you log in again. |

Step 4: Click Login. The system interface is displayed, as shown in the following figure:

| Video Management 🔗   | <b>⊞</b>  | 티오 <b>이</b> - 미×        |
|--|---|-------------------------|
| Software1  | +   | 14:08:45 2022-06-27 CPU |
| Search Q<br>v root<br>v root<br>v DVR<br>v IPC CAMERA<br>v NS316 | •   |                         |
| ▶ N7508  | 28/06/2022 14:09:53   |                         |
| TZ camera  |   |                         |
| 👫 IPC 🧷  |   |                         |
| CustomGroup  |   |                         |
|  | $\mathbb{Q} \times \square  \text{Strategy0}  \vee  \textcircled{B}  \leftarrow  \boxed{1 / 1 \rightarrow 1}$ | Stretch → ⊞ + 🖫 [□] (2) |
| Alarm 🖄 🗘 🖬  |   | ☆ □ ☆                   |

Note: For more information about device login, see Chapter 3 "Device Login".

#### 2.3. Resetting the Password

If you forget your password, you can reset the password by answering the questions.

Step 1: Double-click WMS Pro to go to the login screen.

**Step 2:** Click **Forgot Password?** . The screen of password security questions is displayed, as shown in the following figure:

| <b>i</b> |            | Password Reset                  | ×    |
|----------|------------|---------------------------------|------|
|          | i Please a | nswer security questions.       |      |
|          | Question 1 | What is your nickname?          |      |
|          | Answer     | milk                            |      |
|          | Question 2 | When is your father's birthday? |      |
|          | Answer     | 0518                            |      |
|          |            | Cancel                          | Next |

**Step 3:** Answer the questions and click **Next**. The password reset screen is displayed, as shown in the following figure:

| <b>i</b> |                    | Password Reset | ×      |
|----------|--------------------|----------------|--------|
|          | i Please reset adr | nin password.  |        |
|          | Password           | •••••          | ]      |
|          | Password Strength  |                |        |
|          | Confirm Password   | ••••••         |        |
|          |                    |                |        |
|          |                    |                | Finish |

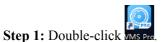
#### **Step 4:** Set the password. The parameters are described in the following table:

| Parameter         | Description   |
|-------------------|---|
| Password          | Length: 8 to 32 characters without spaces; allowed: uppercase letters, lowercase letters, digits, and special characters. |
| Password Strength | Password security. Red indicates that the password is insecure, and green indicates that the password is secure.          |
| Confirm Password  | Ensure that the passwords are consistent.   |

**Step 5:** Click **Finish** to save the settings.

# **3.Device** Login

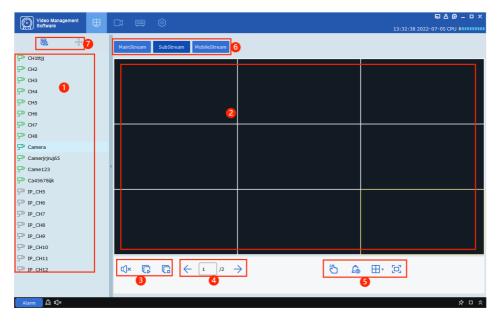
#### 3.1. Device Login



Step 2: After the login screen is displayed, click **Device Login** on the left. The device login screen is displayed.

Step 3: Set parameters. The parameters are described in the following table.

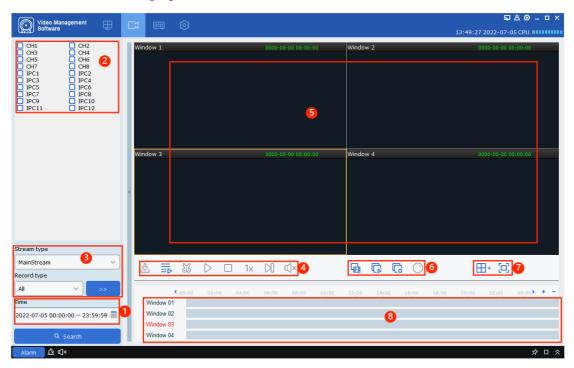
Step 4: Click Login to go to the following page:



| No. | Item             | Description   |
|-----|------------------|---|
| 1   | Device area      | View all the devices bound with the current IP address.                                     |
| 2   | Preview area     | View the windows of devices if the devices are connected properly.                          |
| 3   | Control area     | Control the play and stop of all windows.   |
| 4   | Page switch area | Switch pages if there are multiple preview pages.   |
| 5   | Screen area      | Set the number of windows, full screen mode, manual alarm switch, and alarm display switch. |
| 6   | Stream area      | Select a steam to play.   |
| 7   | Switch area      | Switch between the device tree and PTZ control.   |

#### **3.2. Remote Recording Playback**

**Step 1:** On the function tab, click **Remote Playback** to go to the remote recording playback page, as shown in the following figure:



Each part is described in the following table:

| No. | Item                  | Description  |
|-----|-----------------------|--|
| 1   | Time                  | Select the time period for search.   |
| 2   | Channel area          | Select the channel for playback.   |
| 3   | Search area           | Select the recording type and stream type for search.<br>Click Q Search  |
|     |                       | Control the recording playback and sound.  |
|     |                       | •  ■: Play back recordings of multiple channels synchronously.   |
|     |                       | • D: Start playing back a recording.   |
|     |                       | • 00: Pause recording playback.  |
|     |                       | • • • Stop playing back a recording.   |
| 4   | Playback control area | • D: Move one frame forward when playing back a recording.   |
|     |                       | • 🖄: Download a recording.   |
|     |                       | • 1x: Speed up or slow down a recording.   |
|     |                       | Click $\triangleleft \times$ to enable the sound, or click $\triangleleft \otimes$ to adjust the sound volume. |

| 5 | Recording playback area       | View videos and split windows through multiple ways.<br>When viewing a video, you can capture images, record<br>the video, and use digital zoom.<br><b>Capture:</b> Select a video window that has enabled<br>recording, and click or right-click to select<br>Capture to capture an image.<br>Digital zoom: Click to zoom in the select area.<br><b>Recording:</b> Select a video window that has enabled<br>recording, and click .<br>Screenshot: Select a device window that has enabled<br>recording, and click . |
|---|-------------------------------|---|
| 6 | Video control area            | <ul> <li>Play back recordings of multiple channels synchronously.</li> <li>Stop playing back recordings of all channels.</li> <li>Use the specific mode for fisheye devices.</li> <li>Intelligent Search.</li> </ul>  |
| 7 | Video window and display mode | Click 🖽 to select the number of video windows. Click<br>Click or right-click to select<br>screen mode for a video window.   |
| 8 | Time progress area            | View the existing recording information.  |

#### 3.3. Device Recording Download

**Step 1:** Select a video window that has enabled recording, and click <sup>1</sup>/<sub>2</sub> in the playback control area. A dialog box is displayed, as shown in the following figure:

| <b>(</b> )      |                        | Downlo                 | ad record file |             | >               |
|-----------------|------------------------|------------------------|----------------|-------------|-----------------|
|                 |                        | Chann                  | el 1           |             |                 |
| Index           | Start time             | End time               |                |             | Video Save Path |
|                 | 2021-03-11<br>00:00:00 | 2021-03-11<br>00:00:29 | 15.70M         | No download |                 |
| 2               | 2021-03-11<br>00:00:24 | 2021-03-11<br>00:01:13 | 25.46M         | No download |                 |
| 3               | 2021-03-11<br>00:01:09 | 2021-03-11<br>00:01:36 | 14.64M         | No download |                 |
| 4               | 2021-03-11<br>00:01:36 | 2021-03-11<br>00:02:07 | 16.02M         | No download |                 |
| 5               | 2021-03-11<br>00:02:00 | 2021-03-11<br>00:02:56 | 29.05M         | No download |                 |
| 6               | 2021-03-11<br>00:02:51 | 2021-03-11<br>00:03:49 | 29.88M         | No download |                 |
| 7               | 2021-03-11<br>00:03:42 | 2021-03-11<br>00:04:40 | 30.03M         | No download |                 |
| 8               | 2021-03-11<br>00:04:33 | 2021-03-11<br>00:05:31 | 30.21M         | No download |                 |
| 9               | 2021-03-11             | 2021-03-11             | 29.13M         | No download |                 |
| Select size:    | ОМ                     |                        |                |             |                 |
| Disk Free size: | : 22G                  |                        |                |             |                 |
| Dowload direc   | tory: C:/Users/        | czj/VMS Pro/devi       | ce/video       |             |                 |
|                 |                        |                        |                | do          | wnload stop     |

Step 2: Select the recording you want to download and specify the storage path.

Step 3: Click download.

Note: For information about System Config, see Chapter 19 "System Configuration".

#### 3.4. Remote Settings

On the page below, you can set device parameters remotely.

| 무 <sup>#</sup> Channel                              | Analog Channels IP Channels |           |        |  |
|---|-----------------------------|-----------|--------|--|
| Channel   Live                                      | Channel                     | Name      | Status |  |
| Image Control   PTZ                                 | CH1                         | CH1ttjj   |        |  |
| Video Cover   Motion   PIR                          | CH2                         | CH2       |        |  |
| Deterrence  | СНЗ                         | СНЗ       |        |  |
| 음, Record   | CH4                         | CH4       |        |  |
| Encode   Record   Capture                           | CH5                         | CH5       |        |  |
|   | СН6                         | CH6       |        |  |
| Ռ Alarm   | СН7                         | CH7       |        |  |
| Motion   I/O   PIR                                  | CH8                         | CH8       |        |  |
| Combination Alarm                                   |                             |           |        |  |
| PTZ Linkage   Exception                             | Save Refresh Close All      | Start All |        |  |
| Alarm Schedule  <br>Voice Prompts   Disarming       |                             |           |        |  |
| Voice i Tompis   Disuming                           |                             |           |        |  |
|   |                             |           |        |  |
| ⊘ AI  |                             |           |        |  |
| -   |                             |           |        |  |
| Al     Setup   Recognition       Alarm   Statistics |                             |           |        |  |
| Setup   Recognition                                 |                             |           |        |  |

#### 3.5. System Configuration

On the function tab, click **System Config** to go to the system configuration page. For detailed operations, see Chapter 19 "System Configuration".

## **4.Device Management**

On VMS Pro, you can add devices (such as IP cameras, NVRs, and XVRs) through auto search, adding a single device, and adding devices in batches. After adding devices, you can configure and operate the devices remotely.

#### 4.1. Adding Devices

VMS Pro supports multiple ways to add devices. Choose a suitable method according to the number of devices to be added, network segment, and other factors.

1. Auto search is recommended when you need to add devices in batches and the devices are in the same network segment, or when you do not know the device IP address but know the network segment.

**Step 1:** On the devices page, click for to go to the main menu. On the homepage, click **Device Management** in the configuration area. The device management page is displayed, as shown in the following figure:

| All equipment         Auto Search         Grouping         CustomGroup           1         Auto Search         Grouping         CustomGroup           2         No.         Device Name         10         Device Type         Protect         Version         Status         Port         ChannelNum         D         Operation           1         IPC         172.20.57.43         IPC         Private         V31.35.8.2.2.220422         0         80         1         IPC         0   | $\bigcirc$ | Vide<br>Softv | o Management<br>ware | ŵ 📟           |          |         |                     |             |      |    | 14:04:04        | ⊑ A Ø – □<br>2022-06-27 CPU |
|---|------------|---------------|----------------------|---------------|----------|---------|---------------------|-------------|------|----|-----------------|-----------------------------|
| No.         Device Name         IP         Device Type         Protocol         Version         Status         Port         ChannelNum         ID         Operation           1         IPC         172.20.57.43         IPC         Private         V31.35.8.2.2_220422         6         80         1         1         0         0         1           2         DVR         172.20.57.43         IPC         Private         V8.2.3-20220606         80         20         1         0         0         1           3         IPC CAMERA         172.20.57.37         IPC         Private         V8.1.3.5,170801         80         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0         1         0         0 <t< th=""><th></th><th></th><th></th><th>Aut</th><th>o Search</th><th>Gro</th><th>uping</th><th>CustomGroup</th><th></th><th></th><th>14.04.04</th><th>2022-00-27 CPO</th></t<> |            |               |                      | Aut           | o Search | Gro     | uping               | CustomGroup |      |    | 14.04.04        | 2022-00-27 CPO              |
| 1       IPC       172.20.57.43       IPC       Private       V31.35.8.2.2_220422       ■       80       1       IM       0       0       1         2       DVR       172.20.57.26       DVR       Private       V8.2.3-20220606       80       20       IM       0  |            |               |                      |               |          |         |                     |             |      |    |                 |                             |
| 2       DVR       172.20.57.26       DVR       Private       V8.2.3-20220606       ■       80       20       翻       0       0       1         3       IPC CAMERA       172.20.57.37       IPC       Private       V2.1.3.5_170801       ■       80       1       0       0       1       0       0       1         4       NS316       172.16.16.006       NVR       Private       V8.1.0-20200624       ■       9000       16       16       0       0       1         5       N7508       172.20.57.12       NVR       Private       V8.2.2-2020428       ■       80       8       1       0       0       1         6       PTZ camera       172.16.16.153       IPC       Private       V3.45.8.2.2_202015       ■       8899       1       1       0       0       1  |            |               | Device Name          |               |          |         |                     |             |      |    |                 |                             |
| 3       IPC CAMERA       172.20.57.37       IPC       Private       V2.1.3.5_170801       ■       80       1       0  |            | 1             | IPC                  | 172.20.57.43  | IPC      | Private | V31.35.8.2.2_220422 |             | 80   | 1  | 1000<br>1000    | 0 0 🖬                       |
| 4       N5316       172.16.16.106       NVR       Private       V8.1.0-20200624       9000       16       B       0       0       1         5       N7508       172.20.57.12       NVR       Private       V8.2.2-20220428       80       8       B       0       0       1         6       PTZ camera       172.16.16.153       IPC       Private       V37.45.8.2.2_20615       8899       1       B       0       0       1  |            | 2             | DVR                  | 172.20.57.26  | DVR      | Private | V8.2.3-20220606     |             | 80   | 20 | 000             | 0 0 🖬                       |
| 5       N7508       172.20.57.12       NVR       Private       V8.2.2-20220428       80       8       8       0       0       1         6       PTZ camera       172.16.16.153       IPC       Private       V37.45.8.2.2_202015       8899       1       8       0       0       1   |            | 3             | IPC CAMERA           | 172.20.57.37  | IPC      | Private | V2.1.3.5_170801     |             | 80   | 1  |                 | Ø 🌣 🛅                       |
| 6 PTZ camera 172.16.16.153 IPC Private V37.45.8.2.2_220615 🔳 8899 1 🧱 🤌 🏮 📋   |            | 4             | N5316                | 172.16.16.106 | NVR      | Private | V8.1.0-20200624     |             | 9000 | 16 | 946<br>302      | Ø 😳 🛅                       |
|   |            | 5             | N7508                | 172.20.57.12  | NVR      | Private | V8.2.2-20220428     | •           | 80   | 8  | 1000            | Ø 🔯 🛅                       |
| 7 RS-SW08 172.020.057 SWITCH Private V8.2.2-20220527 • 443 9 🖍 🤇 🗖  |            | 6             | PTZ camera           | 172.16.16.153 | IPC      | Private | V37.45.8.2.2_220615 |             | 8899 | 1  | 840<br>840<br>8 |                             |
|   |            |               |                      |               |          |         |                     |             |      |    |                 |                             |

**Step 2:** Click **Auto Search** on the device management page to go to the **Auto Search** page, as shown in the following figure:

|       | All equipment   | Auto Sear     | ch     | Groupin    | g          | CustomGroup       |                   |              |            |                |           |
|-------|-----------------|---------------|--------|------------|------------|-------------------|-------------------|--------------|------------|----------------|-----------|
| otoco | I type: Private | ✓ Search      | Filter |            | -          |                   |                   |              | total nur  | nber: 26 selec | t number: |
| 0.    | Device Type     | IP            | Port   | Media Port | ChannelNum | Mac address       | Version           | Active state | ID         | Operation      |           |
| 1     | SWITCH          | 172.20.57.100 | 443    | 0          | 9          | 00-23-63-93-62-05 | V8.2.2-20220606   | activated    |            | 0              |           |
| 2     | NVR             | 172.20.57.12  | 80     | 9000       | 8          | 00-23-63-91-52-5F | V8.2.2-20220428   | activated    | 888        | 0              |           |
| 3     | IPC             | 172.20.57.37  | 80     | 9988       | 1          | 00-16-6C-F7-A5-E2 | V2.1.3.5_170801   | No           |            | 0              |           |
| 4     | DVR             | 172.20.57.26  | 80     | 9000       | 20         | 00-23-63-97-46-E6 | V8.2.3-20220606   | activated    | 888        | 0              |           |
| 5     | IPC             | 172.20.57.43  | 80     | 9000       | 1          | 00-23-63-8B-A4-E1 | V31.35.8.2.2_2204 | activated    | 888        | 0              |           |
| 5     | IPC             | 172.20.57.39  | 80     | 9000       | 1          | 00-23-63-67-88-BD | V2.31.5.2_200417  | No           | 髝          | + Ø            |           |
| 7     | IPC             | 172.20.57.98  | 80     | 9988       | 1          | 00-23-63-67-88-C1 | V2.31.4.8_180327  | No           | 器          | + Ø            |           |
| в     | IPC             | 172.20.57.27  | 80     | 9988       | 1          | 00-23-63-67-88-B2 | V2.31.4.8_180327  | No           | 器          | + Ø            |           |
| 9     | IPC             | 172.20.57.44  | 80     | 9988       | 1          | 00-23-63-67-88-9C | V2.31.5.2_200417  | No           | 12         | + Ø            |           |
| 0     | IPC             | 172.20.57.42  | 80     | 9000       | 1          | 00-23-63-67-8B-D3 | V2.31.5.2_200417  | No           | 010<br>010 | + 0            |           |
| 1     | IPC             | 172.20.57.24  | 80     | 9988       | 1          | 00-23-63-67-8B-14 | V2.1.3.7_180112   | No           | 12         | + Ø            |           |
| 2     | IPC             | 172.20.57.31  | 80     | 9000       | 1          | 00-23-63-67-88-BF | V2.31.5.2_200417  | No           | 120        | + Ø            |           |
| 3     | IPC             | 172.20.57.32  | 80     | 9988       | 1          | 00-23-63-67-88-B1 | V2.1.3.5_170829   | No           | 38         | + Ø            |           |
| 4     | IPC             | 172.20.57.34  | 80     | 9988       | 1          | 00-23-63-67-88-C0 | V2.31.5.2_200417  | No           | 100        | + Ø            |           |
| .5    | IPC             | 172.20.57.35  | 80     | 990        | 1          | 00-23-63-67-88-98 | V2.31.5.2_200417  | No           | 100        | + Ø            |           |
| 6     | IPC             | 172.20.57.29  | 80     | 9988       | 1          | 00-23-63-67-88-B9 | V2.31.5.2_200714  | No           | 888        | + Ø            |           |
| .7    | IPC             | 172.20.57.49  | 80     | 9988       | 1          | 00-23-63-6F-8D-BF | V4.2.3.7_180110   | No           |            | + Ø            |           |
| _     |                 |               |        |            |            |                   |                   |              |            |                | ,         |

Step 3: Select the device you want to add, and click 🔸. Alternatively, select one or more devices and click Add in the lower right corner. A dialog box is displayed, as shown in the following figure:

| (i)      | Add Device | ×   |
|----------|------------|-----|
| user     |            |     |
| password |            |     |
|          |            | Add |

**Step 4:** Enter the username and password of the device that has been logged into, and click **Add** to complete the operation.

The added devices are displayed, as shown in the following figure:

Note: The added devices are logged into through port 80 by default.

| 9 | Vide<br>Soft | o Management<br>ware | <u>ଜ</u> 📖    | 1 ⊞_+  |         |                     |             |      |    | 14:10:54 | ⊑ A Ø – □<br>2022-06-27 CPU |
|---|--------------|----------------------|---------------|--------|---------|---------------------|-------------|------|----|----------|-----------------------------|
|   | All          | equipment            | Auto          | Search | Gro     | uping               | CustomGroup |      |    |          |                             |
|   |              |                      |               |        |         |                     |             |      |    |          | 26+                         |
|   |              | Device Name          |               |        |         |                     |             |      |    |          |                             |
|   | 1            | IPC                  | 172.20.57.43  | IPC    | Private | V31.35.8.2.2_220422 |             | 80   | 1  |          | 00 🖬                        |
|   | 2            | DVR                  | 172.20.57.26  | DVR    | Private | V8.2.3-20220606     |             | 80   | 20 | 諧        | 00 🖬                        |
|   | з            | IPC CAMERA           | 172.20.57.37  | IPC    | Private | V2.1.3.5_170801     |             | 80   | 1  |          | 0 0 🖬                       |
|   | 4            | N5316                | 172.16.16.106 | NVR    | Private | V8.1.0-20200624     |             | 9000 | 16 | 100      | 0 0 🖬                       |
|   | 5            | N7508                | 172.20.57.12  | NVR    | Private | V8.2.2-20220428     |             | 80   | 8  | 諧        | 0 0 🖬                       |
|   | 6            | PTZ camera           | 172.16.16.153 | IPC    | Private | V37.45.8.2.2_220615 |             | 8899 | 1  | 랾        | 0 0 🖬                       |
|   | 7            | RS-SW08              | 172.020.057   | SWITCH | Private | V8.2.2-20220527     |             | 443  | 9  |          | 0 0 🖬                       |
|   |              |                      |               |        |         |                     |             |      |    |          |                             |
|   |              |                      |               |        |         |                     |             |      |    |          |                             |
|   |              |                      |               |        |         |                     |             |      |    |          |                             |
|   |              |                      |               |        |         |                     |             |      |    |          |                             |

The supported operations on the page are shown in the following table:

| Icon                        | Description   |
|-----------------------------|---|
| Ø                           | Click the icon. The <b>Modify Device</b> window<br>appears, where you can modify device<br>information, including the device name, login<br>type, IP address or domain name, protocol,<br>port, username, and password.                               |
| 0                           | Click the icon to go to the <b>Device Remote</b><br><b>Setting</b> page, where you can configure the<br>device recording channel, recording, network,<br>alarm event, storage, system, among others.  |
| 1                           | Click the icon to delete the device.  |
| ■, <mark>,</mark> , , and ■ | <ul><li>Green: The device is connected properly.</li><li>Red: Unactivated. You need to set the initial password.</li><li>Yellow: The login information is incorrect or the account is locked.</li><li>Gray: The device cannot be connected.</li></ul> |
| and C                       | Export or import device information. For detailed operations, see 3 "Add a device by importing the configuration file".   |

**Note:** After you add devices, the **Auto Search** page remains open that you can continue to add devices. After you add devices, go to the device list to check whether the devices are online.

2. Add a device manually.

We recommend you add a device manually if you add a single device and know the device IP address or domain name.

**Step 1:** On the **Device Management** page, click +. The **Add Device** window is displayed, as shown in the following figure:

| <b>i</b>       | Add Device   | × |
|----------------|--------------|---|
|                |              |   |
| Device Name:   | 172.16.10.32 |   |
|                |              |   |
| Login Type:    | IP v         |   |
| 10/10-         | 172 16 10 22 |   |
| IP/ID:         | 172.16.10.32 |   |
| Protocol:      | Private V    |   |
|                |              |   |
| Web/Media Port | 80           |   |
|                |              |   |
| User Name:     | admin        |   |
|                |              |   |
| Password:      | ····· ~      |   |
|                | Add Cancel   |   |
|                |              |   |

| <b>Step 2:</b> Set parameters. The parameters are described in the following table: |
|---|
|---|

| Parameter      | Description   |
|----------------|---|
| Device Name    | The device name. We recommend you name a device after the device monitoring area for maintenance.   |
| Login Type     | <ul> <li>The method to add the device.</li> <li>IP/Domain: Add the device through the device IP address or domain name.</li> </ul>  |
|                | • IP2PID: Add the device through the device serial number.  |
| IP/ID          | Set this parameter if you choose to add the<br>device through the IP address or domain<br>name. The device IP address or domain<br>name.<br>Set this parameter if you choose to add the<br>device through P2PID. The device serial<br>number. |
| Protocol       | Select a private protocol or other protocols.   |
| Web/Media Port | Enter a web or media port. If you log in<br>using a web port, more functions are<br>supported, including AI config and AI scene.  |
| User Name      | The username to log into the device.  |
| Password       | The password to log into the device.  |

Step 3: Click Add to add the device.

Note: To cancel the addition, Click Cancel to exit the Add Device window.

After the device is added, it connects to VMS Pro automatically. Then the status is , otherwise, the status is .

3. Add a device by importing the configuration file.

Step 1: On the Device Management page, click . A dialog box is displayed.

Step 2: Select and open the device .xml file that is saved locally.

Step 3: Click Open to import the device.

**Note:** Use this method if the device was added before and the device configuration file was exported to local storage.

#### 4.2. Modifying Device Information

Modify device information if the information (such as the username, password, and IP address or domain name) is incorrect.

Note: This section describes how to modify device information.

Step 1: On the Device Management page, click **2**. The Modify Device window is displayed.

Step 2: Modify the device information.

| <b>i</b>      | Modify Device           | × |
|---------------|-------------------------|---|
| Device Name:  | 172.16.10.32            |   |
| Login Type:   | IP ~                    |   |
| IP:           | 172.16.10.32            |   |
| Protocol:     | Private ~               |   |
| Port          | 80                      |   |
| User Name:    | admin                   |   |
| Password:     | •••••                   |   |
| Login status: | Device login successful |   |
|               | Modify Cancel           |   |

Step 3: Click Modify to save the changes.

#### 4.3. Searching for Devices by Network Segment

By setting a network segment, you can search for and find all devices in the network segment.

Step 1: On the Device Management page, click Auto Search. The auto search page appears.

Step 2: Click filter. The Search by segment dialog box is displayed, as shown in the following figure:

| Search by segment |               |                    |  |  |  |  |  |  |
|-------------------|---------------|--------------------|--|--|--|--|--|--|
| ment:             | 172.16.10.32  |                    |  |  |  |  |  |  |
| ent:              | 172.16.10.100 |                    |  |  |  |  |  |  |
|                   | Search        |                    |  |  |  |  |  |  |
|                   | nent:         | nent: 172.16.10.32 |  |  |  |  |  |  |

Step 3: Enter the network segment as needed and click Search. The search results are shown in the following figure:

|       | All equipment          | Auto Sear     | ch     | Grouping   | J.         |                   |                   |              |         |                        |
|-------|------------------------|---------------|--------|------------|------------|-------------------|-------------------|--------------|---------|------------------------|
| otoco | ol type: Private       | ✓ search      | filter |            |            |                   |                   |              | total n | umber: 23 select numbe |
|       |                        |               |        | Media Port | ChannelNum | Mac address       |                   | P2PID        |         |                        |
| 6     | 8                      | 172.16.10.70  | 80     | 9000       | 1          | 00-0C-18-EF-FF-ED | V27.45.7.0_210204 |              | + Ø     | 0                      |
| 7     | CH292H3_16M            | 172.16.10.105 | 80     | 9988       | 1          | 00-23-63-6B-C5-C5 | V2.31.4.8_180713  | 0400<br>0100 | + Ø     |                        |
| 8     | CH292H3_16M            | 172.16.10.234 | 80     | 9988       | 1          | 00-23-63-6D-0B-30 | V2.31.5.2_200714  |              | + Ø     |                        |
| 9     | CH29XH3_16M            | 172.16.10.42  | 80     | 9000       | 1          | 00-23-63-A3-0D-17 | V21.47.7.0_210204 |              | + Ø     |                        |
| 10    | DVR8-4480RN            | 172.16.10.144 | 85     | 9000       | 12         | BC-51-FE-27-1A-E6 | V8.1.0-20210311   |              | + Ø     |                        |
| 11    | IP CAMERA              | 172.16.10.157 | 80     | 9000       | 1          | 00-13-25-34-77-80 | V21.45.7.0_210304 |              | + Ø     |                        |
| 12    | N5016N                 | 172.16.10.32  | 80     | 9000       | 16         | 88-2E-6D-4B-11-2A | V8.1.0-20210204   |              | 0       |                        |
| 13    | N5064N                 | 172.16.10.72  | 80     | 9000       | 64         | 88-61-62-93-CD-B2 | V8.1.0-20210311   | 1200         | + Ø     |                        |
| 14    | N5208EN                | 172.16.10.125 | 80     | 9000       | 8          | 88-8D-2D-2A-3C-A3 | V8.1.0-20200728   |              | + Ø     |                        |
| 15    | N5464N                 | 172.16.10.154 | 80     | 8000       | 64         | 88-8F-68-8B-49-51 | V8.1.0-20210303   |              | + Ø     |                        |
| 16    | N7604                  | 172.16.10.74  | 80     | 9000       | 4          | 88-88-59-12-35-90 | V8.1.0-20210309   |              | + Ø     |                        |
| 17    | N7708                  | 172.16.10.77  | 80     | 9000       | 8          | 00-55-7B-B8-6A-F3 | V8.1.0-20210309   |              | + Ø     |                        |
| 18    | NHD-885F               | 172.16.10.151 | 80     | 9000       | 1          | BC-51-FE-09-E1-17 | V4.41.5.2_200622  |              | + Ø     |                        |
| 19    | RS-CH728H4C-<br>WA28PW | 172.16.10.41  | 80     | 9000       | 1          | 00-23-63-8A-6C-36 | V22.25.6.2_210221 |              | + Ø     |                        |
| 20    | SC30KQ_128M            | 172.16.10.126 | 80     | 9000       | 1          | 00-23-63-2A-75-2F | V31.35.7.0_210224 |              | + Ø     |                        |
| 21    | SSC339G                | 172.16.10.71  | 80     | 9000       | 1          | 00-23-63-89-16-07 | V21.45.7.0_210226 |              | + Ø     |                        |
| 22    | cam5                   | 172.16.10.137 | 80     | 9000       | 1          | 00-23-63-78-C3-FC | V12.45.7.0_210310 |              | + Ø     |                        |
| 23    | codec                  | 172.16.10.44  | 80     | 9000       | 1          | CE-34-17-76-96-29 | V15.25.7.0_210126 |              | + 0     |                        |

#### 4.4. Searching for Devices by Protocol

**Step 1:** On the **Device Management** page, click **Auto Search**. The auto search page appears, as shown in the following figure:

|      | All equipment | Auto Sear     | ch     | Groupin    | g          | CustomGroup       |                   |           |           |                 |        |
|------|---------------|---------------|--------|------------|------------|-------------------|-------------------|-----------|-----------|-----------------|--------|
| toco | type: Private | ✓ Search      | Filter |            |            |                   |                   |           | total nur | nber: 29 select | number |
|      |               |               |        | Media Port | ChannelNum | Mac address       |                   |           |           | Operation       |        |
|      | SWITCH        | 172.20.57.100 | 443    | 0          | 9          | 00-23-63-93-62-05 | V8.2.2-20220707   | activated |           | Ø               |        |
|      | NVR           | 172.20.57.58  | 80     | 9000       | 8          | 00-23-63-94-A8-9C | V8.2.3-20220719   | activated | 868       | Ø               |        |
|      | IPC           | 172.20.57.36  | 80     | 9000       | 1          | 00-23-63-92-14-61 | V31.35.8.2.2_2206 | activated | 202       | Ø               |        |
|      | IPC           | 172.20.57.23  | 80     | 9000       | 1          | 00-23-63-94-06-BF | V35.45.7.1_220126 | No        | 100       | Ø               |        |
|      | IPC           | 172.20.57.41  | 80     | 9000       | 1          | 00-23-63-78-AA-06 | V4.33.5.2_200605  | No        | 55        | 0               |        |
|      | IPC           | 172.20.57.47  | 80     | 9988       | 1          | 00-11-22-33-44-55 | V6.21.5.0_181227  | No        |           | 0               |        |
|      | IPC           | 172.20.57.45  | 80     | 9000       | 1          | 00-23-63-A3-83-69 | V4.41.5.2_200301  | No        | 翻         | 0               |        |
|      | IPC           | 172.20.57.37  | 80     | 9988       | 1          | 00-16-6C-F7-A5-E2 | V2.1.3.5_170801   | No        |           | Ø               |        |
|      | DVR           | 172.20.57.26  | 80     | 9000       | 20         | 00-23-63-97-46-E6 | V8.2.3-20220708   | activated | 855       | Ø               |        |
| )    | IPC           | 172.20.57.43  | 80     | 9000       | 1          | 00-23-63-8B-A4-E1 | V31.35.8.2.2_2206 | activated | 55        | Ø               |        |
| L    | IPC           | 172.20.57.29  | 80     | 9988       | 1          | 00-23-63-67-88-89 | V2.31.5.2_200714  | No        | 55        | + Ø             |        |
| 2    | IPC           | 172.20.57.35  | 80     | 990        | 1          | 00-23-63-67-88-98 | V2.31.5.2_200417  | No        | 嬲         | + 0             |        |
| 3    | IPC           | 172.20.57.42  | 80     | 9000       | 1          | 00-23-63-67-8B-D3 | V2.31.5.2_200417  | No        | 翻         | + Ø             |        |
| L I  | IPC           | 172.20.57.39  | 80     | 9000       | 1          | 00-23-63-67-88-BD | V2.31.5.2_200417  | No        | 868       | + Ø             |        |
| 5    | IPC           | 172.20.57.98  | 80     | 9988       | 1          | 00-23-63-67-88-C1 | V2.31.4.8_180327  | No        | 252       | + Ø             |        |
| 5    | IPC           | 172.20.57.31  | 80     | 9000       | 1          | 00-23-63-67-88-BF | V2.31.5.2_200417  | No        | 200       | + Ø             |        |
| 7    | IPC           | 172.20.57.24  | 80     | 9988       | 1          | 00-23-63-67-8B-14 | V2.1.3.7_180112   | No        | 855       | + Ø             |        |
|      |               |               |        |            |            |                   |                   |           | 010       |                 | -      |

**Step 2:** In the **protocol type: Private** drop-down list, select other protocols, such as the Onvif, Hikvision, Dahua protocol, and click **Search**. The search results are displayed, as shown in the following figure:

|        | All equipment             | uto Search   |    | Grouping   |            | CustomGroup       |    |           |                           |
|--------|---------------------------|--------------|----|------------|------------|-------------------|----|-----------|---------------------------|
| protoc | ol type: Onvif 🗸 Se       | arch Filter  |    |            |            |                   |    | total r   | number: 28 select number: |
| No.    |                           |              |    | Media Port | ChannelNum |                   |    | Operation |                           |
| 1      | IPC                       | 172.20.57.41 | 80 | 0          | 1          | 00-23-63-78-AA-06 | No | Ø         |                           |
| 2      | IPC                       | 172.20.57.36 | 80 | 0          | 1          | 00-23-63-92-14-61 | No | Ø         |                           |
| 3      | IPC                       | 172.20.57.43 | 80 | 0          | 1          | 00-23-63-8B-A4-E1 | No | Ø         |                           |
| 4      | IPC                       | 172.20.57.45 | 80 | 0          | 1          | 00-23-63-A3-83-69 | No | Ø         |                           |
| 5      | CH292H3-16M               | 172.20.57.37 | 80 | 0          | 1          | 00-16-6C-F7-A5-E2 | No | Ø         |                           |
| 6      | IPC                       | 172.20.57.23 | 80 | 0          | 1          | 00-23-63-94-06-BF | No | Ø         |                           |
| 7      | IPC                       | 172.20.57.47 | 80 | 0          | 1          | 00-11-22-33-44-55 | No | Ø         |                           |
| 8      | HIKVISION%20DS-2CD3T25-I3 | 172.20.57.48 | 80 | 0          | 1          | 10-12-FB-40-EB-B6 | No |           |                           |
| 9      | 4K-HY08                   | 172.20.57.26 | 80 | 0          | 1          | 3C-B9-06-B7-B7-7B | No | Ø         |                           |
| 10     | IPC                       | 172.20.57.39 | 80 | 0          | 1          | 00-23-63-67-88-BD | No | + 0       |                           |
| 11     | IPC                       | 172.20.57.40 | 80 | 0          | 1          | 00-16-6C-FA-CF-75 | No | + 0       |                           |
| 12     | IPC                       | 172.20.57.25 | 80 | 0          | 1          | 00-23-63-92-61-F1 | No | + 0       |                           |
| 13     | IPC                       | 172.20.57.27 | 80 | 0          | 1          | 00-23-63-67-88-B2 | No | + 0       |                           |
| 14     | IPC                       | 172.20.57.28 | 80 | 0          | 1          | 00-16-6D-F7-A6-24 | No | + 0       |                           |
| 15     | IPC                       | 172.20.57.24 | 80 | 0          | 1          | 00-23-63-67-8B-14 | No | + 0       |                           |
| 16     | IPC                       | 172.20.57.35 | 80 | 0          | 1          | 00-23-63-67-88-98 | No | + 0       |                           |
| 17     | IPC                       | 172.20.57.33 | 80 | 0          | 1          | 00-16-6C-F7-A5-50 | No | + 0       |                           |
| 18     | IPC                       | 172.20.57.31 | 80 | 0          | 1          | 00-23-63-67-88-BF | No | + 0       |                           |
| Search | o complete!               |              |    |            |            |                   |    |           | Add Cancel                |

Step 3: Add the devices you need. For detailed operations, see Section 4.1 "Adding Devices".

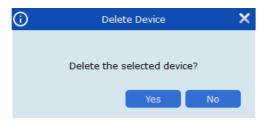
#### 4.5. Deleting Devices

If you do not need to manage the added devices, delete them. You can delete a single device or delete devices in batches.

1. Delete a single device.

**Step 1:** On the **Device Management** page, find the device you want to delete, and click in next to it.

A dialog box is displayed, as shown in the following figure:



Step 2: Click Yes to delete the device.

Click No to cancel deletion.

2. Delete devices in batches.

Step 1: On the Device Management page, select the checkbox in front of the devices you want to delete.

Step 2: Click in the upper right corner. A dialog box is displayed.

Step 3: Click Yes to delete the selected devices.

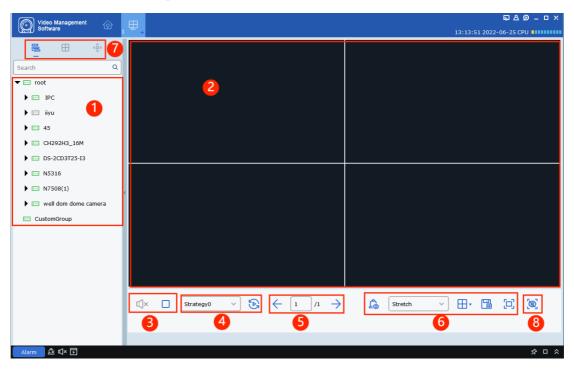
Click No to cancel deletion.

# **5.**Preview

After you add devices on VMS Pro, you can go to the preview page to view videos in real time.

#### 5.1. Interface Introduction

This section describes each part and function by area.



From the main menu, choose **Mainview** to go to the preview page. The functions on the preview page are described in the following table:

| No. | Item                  | Description  |
|-----|-----------------------|--|
| 1   | Device tree           | Groups are divided by default. Double-click to open a<br>group, which contains the added devices. Drag a<br>device or channel, or double-click a channel to<br>preview the channel. Right-click to select a main<br>stream, open or close all channels, start playback and<br>intercom, and synchronize channel names. |
| 2   | Preview window area   | View videos and split windows through multiple<br>ways.<br>When viewing a video, you can capture images,<br>record the video, enable cruise view, use voice<br>intercom, use digital zoom, and more. For detailed  |
| 3   | Audio control area    | Control the sound and stop all windows.  |
| 4   | Cruise selection area | When cruise plans exist, you can select a cruise plan<br>for this area to enable cruise.   |
| 5   | Page switch area      | When multiple pages exist on the preview page, you can switch pages.   |

| 6 | Video ratio, window number<br>setting, and view creation<br>area | Co: Remove the alarm and recording identifiers from the preview window.  |  |
|---|--|--|--|
|   |  | Stretch $\checkmark$ : Adjust the aspect ratio.  |  |
|   |  | 고: Display in full screen mode.  |  |
|   |  | ⊞ : Adjust the number of windows.  |  |
|   |  | When multiple fixed devices are connected and<br>you often need to preview their monitoring windows,<br>you can enable the preview windows and save them<br>as a view. Later, when you open the view, you<br>preview the windows of the multiple devices. The<br>created view is added to the view tab in the device list<br>area. The view can also be added to cruise plans. |  |
| 7 | List switch area   | <ul> <li>Elick the icon to go to the view tab and check custom views.</li> <li>Click the icon to go to the PTZ control tab to control devices through PTZ.</li> </ul>  |  |
| 8 | Intelligent alarm display  | Solution: Click to view the alarm prop-up in the sidebar and view intelligent alarms from the added devices on VMS Pro.  |  |

#### 5.2. Real-time Preview

View camera images in real time, record videos locally, capture images, use voice intercom, use digital zoom, and more.

1.Enable preview.

Use one of the following methods to enable preview:

- Select a preview window, and double-click the desired device in the device list area.
- Drag the desired device in the device list to the preview window.
- Right-click a device group, and select **Open all ch** to open the preview window of device channels.

Note: If you enable preview, you can also enable the preview of all cameras under the view.

2.Operate preview.

The supported operations in preview mode are shown in the following table:

| No. | Task | Description | Operation |
|-----|------|-------------|-----------|
|-----|------|-------------|-----------|

| 1 | M a n u a l<br>recording | Save a manual recording to local storage. | Select a video window that has enabled<br>preview, and click in the window or right-<br>click to select start record to start<br>recording. Click again or right-click to select<br>stop record to stop recording.<br>Note: To set the recording storage path, go to<br>the configuration area and click System<br>Config. |
|---|--------------------------|---|--|
| 2 | M a n u a l<br>capture   | Capture an image manually.                | Select a video window that has enabled<br>preview, and click in the window or right-<br>click to select capture to capture an<br>image manually.<br>Note: To set the image storage path, go to the<br>configuration area and click System Config.  |

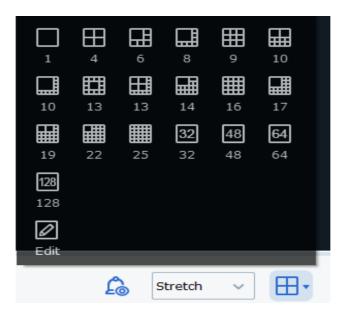
| 3 | V o i c e<br>intercom | Use voice intercom<br>with connected<br>devices. | Select a video window that has enabled<br>preview, and click in the window or right-<br>click to select intercom. Click is again or right-click to<br>select intercom. Stop talk to stop voice intercom.<br>Note: Voice intercom is supported between the<br>client and devices.  |  |
|---|-----------------------|--|---|--|
| 4 | Digital<br>zoom       | Zoom in the selected area in a video.            | Select a video window that has enabled<br>preview, and click 💽 in the window. Click the<br>preview window and hold to select an area of<br>interest, which can be zoomed in many times.<br>Click 🔍 again to close digital zoom.   |  |
|   |                       |  | Select a video window that has enabled preview or playback, and click at the bottom of the window.  |  |
| 5 | Add a tag             | Add a time tag.                                  | Add Tag       X         Channel       CH1         Tag Time 03/01/2021 11:08:17         Tag Name       Tag         Save       Cancel         Open the live view or playback screen of a         video, and click the       button in the menu bar         at the bottom of the screen to pop up the tag         event confirmation menu. |  |

| 6  | Quick<br>playback         | Quickly play back a<br>recording 10 minutes<br>ago before you view<br>the recording<br>currently. | Select a video window that has enabled<br>preview, and click in the window to enter<br>quick playback.<br>Click to pause playback, click to enable<br>or disable the sound, and click to exit<br>playback and enter the preview page. You can<br>also drag the progress bar to select the playback<br>position. |
|----|---------------------------|---|---|
| 7  | Close a window            | None  | Right-click the window you want to close, and select Stop preview   |
| 8  | Close all windows         | None  | Right-click a device group, and select<br>Open all ch   |
| 9  | Full screen<br>mode       | Enter full screen<br>mode for a specified<br>window.  | Select a video window that has enabled<br>preview, and right-click to select<br>Sullscreen, and double-click to open the<br>window that needs full screen. Or, double-click<br>to open the window that needs full screen and<br>right-click to select Sullscreen to enter full                                  |
| 10 | Adjust<br>window<br>ratio | Adjust the aspect ratio.  | In the lower right corner of the video window, select $\frac{\text{Stretch}}{\text{v}}$ to adjust the window ratio.   |
| 11 | Select<br>windows         | Select the number of windows on a page.   | In the lower right corner of the video window, select $\square$ to set the number of windows.   |

| 12 | I m a g e<br>adjustment   | Adjust the brightness,<br>contrast, saturation, and hue<br>of a channel.<br>And you can change the<br>channel name, and set the<br>date and time.  | <ol> <li>Select a video window that has<br/>enabled preview, and click</li> <li>Video setting</li> <li>The Video setting dialog box is<br/>displayed.</li> <li>Adjust the image in Color as needed,<br/>adjust the hue in <u>Color</u>, and change<br/>the name in <u>Name</u>.</li> </ol> |
|----|---|--|--|
| 13 | F i s h e y e<br>View Mode  | Only available for fisheye<br>devices. The fisheye<br>installation mode is related to<br>the view mode. Different<br>installation modes differ in<br>view modes.   | Select a video window that has enabled<br>preview. Right-click to select<br>Fisheye . Select a view mode<br>you need based on the actual situation.<br>For more information, see Chapter 9<br>"Fisheye View Mode".   |
| 14 | F i s h e y e<br>installation<br>mode                                 | Only available for fisheye<br>devices. Select an installation<br>mode based on the device<br>installation. Fisheye<br>installation modes include<br>(ceiling mounting), ((wall<br>mounting), and (ground<br>mounting). | Select a video window that has enabled<br>preview, and right-click to select   |
| 15 | S w i t c h<br>c h a n n e l<br>stream type                           | The supported stream types<br>include main stream,<br>substream, and mobile<br>stream.   | Find a device channel, right-click to select the desired device, and select the stream type as needed.   |
| 16 | Switch all<br>c h a n n e l<br>s t r e a m<br>types with<br>one click | The supported stream types<br>include main stream,<br>substream, and mobile<br>stream.   | In a device group, right-click to select<br>the desired device to switch all channel<br>stream types to a stream type as needed<br>with one click.   |

2.Adjust the number of monitoring windows

Click I in the window setting area to adjust the number of view windows.



#### 5.3. View Tab

On the preview page, click to go to the view page, where you can set and check custom views.

| 00             | - (ộ:  |  |  |  |  |
|----------------|--|--|--|--|--|
| 🕶 root         |  |  |  |  |  |
| <b>•••</b> 111 | New view TAB<br>New Group<br>Alter<br>Delete |  |  |  |  |
|                |  |  |  |  |  |

#### 1. Add a group:

Right-click root on the view tab to open a menu. Only groups can be added from root. Click New Group as shown in the following figure:

| (i)  | New Group | × |
|------|-----------|---|
| Name | 0K Cancel |   |
|      |           |   |

Name the group and click **OK** to create the group.

2. Add a view tab:

In a custom group, right-click to select New view TAB. The view tab page is shown in the following figure:

|            | Add Plan   | ×           |
|------------|------------|-------------|
| Task Name: |            | ⊞•          |
|            |            |             |
|            |            |             |
|            |            |             |
|            |            |             |
|            |            |             |
|            | Unbound    |             |
|            |            |             |
|            |            |             |
|            |            |             |
|            |            |             |
|            |            | Cancel Save |
|            | Task Name: |             |

Click III in the upper right corner to select the split views you need. In the left device tree, select and drag a channel to the Unbound view area, which subsequently changes to Channel Name:Camera11; Stream Type: Sub Stream; , indicating a binding success. Right-click to select

Unbind to cancel the binding relationship.

Unbind All to cancel all binding relationships.

Set Main Stream to set the channel to main stream.

Set sub Stream to set the channel to substeam.

Set mobile Stream to set the channel to mobile stream.

Customize a name in Task Name: and click Save to save the view tab.

3. Modify or delete a view tab:

On the view tab contents, select Alter to modify a view tab or group.

On the view tab contents, select **delete** to delete a view tab or group.

4. Switch the view tab preview:

After you add multiple view tabs, double-click a view tab to switch the preview quickly.

# 5.4. PTZ Control

#### 1. PTZ page:

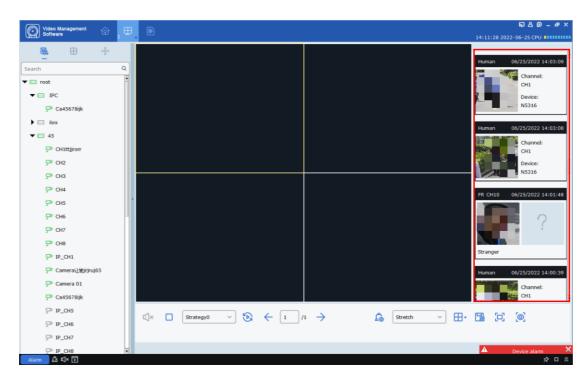
On the preview page, click it to go to the PTZ control plane. The functions supported by PTZ depend on the device.

|          | ⊕ <u></u>        |
|----------|------------------|
|          | 0                |
| 8        | Q +<br>A +       |
|          | () +             |
| Index    | Refresh<br>+ m → |
| Interval | 3 0 (1~255)S     |
| Preset   | ⊳□               |
| No. Time | Status           |
| 02       |                  |
| 03       |                  |

| No. | Item                              | Description   |  |  |
|-----|-----------------------------------|---|--|--|
| 1   | PTZ control plane                 | Select a PTZ window and click one of the directions to adjust the viewing angle.<br>Select a PTZ window, and click I to enable auto scans. Click the icon again to stop auto scans.   |  |  |
| 2   | Adjust the zoom, focus, and iris. | - Adjust the zoom<br>and focus speed.<br>- Q +<br>- Adjust the zoom,<br>focus, and iris.  |  |  |
| 3   | Auto focus                        | AutoFocus: auto focus; Refresh: refresh an operation; default: restore default values.  |  |  |
| 4   | Cruise                            | <ul> <li>Click + to add a position, click <sup>™</sup></li> <li>to delete a position, and click → to move to the position.</li> <li>Interval 3 (1~255)S Set a pause interval. ○ Click ○ to start cruise, and click</li> <li>to stop cruise. Up to 255 positions can be added in the table below.</li> </ul> |  |  |

# 5.5. Sidebar AI Alarm Images

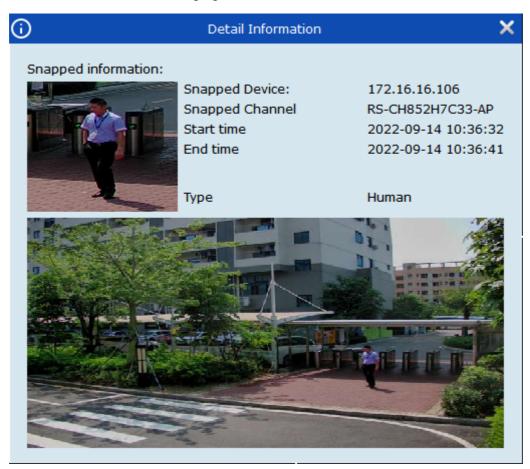
Click the intelligent alarm display button (2). Then alarm notifications from smart devices are displayed on the right side of the page.



Select an alarm event from the alarm notifications. Right-click to view the event information or play back the related recording.

Playback: Open the playback window to play back the recording.

Detail Information: See the following figure:



Snapped Device: the capture device Snapped Channel: the capture channel Start time: the alarm start time End time: the alarm end time Type: the alarm type

Face capture shows additional information about a person. If "unmatched" is shown on a captured image, no comparison images exist. The additional information includes gender, age, expression,

| Gender     | Female         |
|------------|----------------|
| Age        | 23             |
| Glasses    | Exist          |
| Mask       | Exist          |
| Expression | Expressionless |

and whether the person wears a face mask and glasses.

Right-click the image to add it to a face group if necessary.

When a comparison image exists in the face group, the following figure appears:



Group and Similarity are shown.

Right-click the image to modify the face group information if necessary.

When you expand details, the detailed comparison appears, as shown in the following figure:

| <b>(</b> )  |  |  | Detail Informatio | n  |   |        |        | × |
|---|--|--|-------------------|--|---|--------|--------|---|
| Snapped infor<br>Gender<br>Age<br>Glasses<br>Mask<br>Expression | mation:<br>Male<br>24<br>Exist<br>None<br>Expressionless | Snapped Device:<br>Snapped Channel<br>Start Time<br>End Time<br>Type<br>Alarm Policy<br>Similarity |                   | meiyourenlian<br>小吳<br>[27<br>[<br>[<br>[<br>[<br>[<br>[ | Sex<br>Country<br>Native Place<br>Email | male v |        |   |
| 1   |  | T  |                   |  |   |        | Modify |   |
|   |  |  |                   |  |   |        | Modify |   |

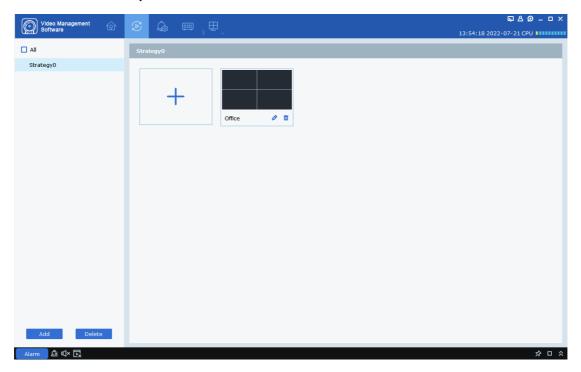
# **6.Cruise Settings**

Realize the cruise of windows by configuring a cruise plan.

## 6.1. Configuring Cruise Plans

Step 1: From the main menu, choose Cruise Setting to go to the cruise settings page, as shown in the following figure.

The system creates a cruise plan named **Strategy0** by default. To change the name, click  $\checkmark$ . Click  $\square$  to delete the plan.



Step 2: Configure a task. You can configure multiple tasks.

- (1) Click +. The Add Task page is displayed, as shown in the following figure.
- (2) Set **Task Name** and **Task Time**, and select the number of cruise windows in ⊞• based on the actual situation.

| 0        | Add Task      |             | ×   |
|----------|---------------|-------------|-----|
| > 📼 root | Task Name: Ta | sk time: 10 | ⊞•  |
|          | Unbound       | Unbound     |     |
|          | Unbound       | Unbound     |     |
|          |               | Cancel S    | ave |

- Add Task × **(**) 🕶 📼 root Task Name: Office Task time: 10 ⊞• F 💷 IPC CH29XH3\_16M DAHUA DS-2CD3T25-I3 🕨 📼 DVR Channel Name:IPC1\_DS-2CD3T25-I3; Stream Type: Sub Stream; Channel Name:rftg658; Stream Type: Sub Stream; IP CAMERA IP CAMERA(1) IP CAMERA(2) F IPC CAMERA 🕨 🗆 N5316 🕨 📼 NVR 🕨 📼 PTZ camera 🕨 💷 ipc-1 Channel Name:IPC; Stream Type: Sub Stream; Channel Name:Ca45678ijk; Stream Type: Sub Stream; Cancel Save
- (3) Drag device channels to the video window in a desired order. After the channels are bound, the following figure is shown:

(4) Click **Save** to complete cruise plan settings, as shown in the following figure:

| Video Management Or Software | C 4 m , ₽   | <u>ب ۵</u> ۵ – ۵ ×      |
|------------------------------|---|-------------------------|
| (VMS) CONTRACT               |   | 13:53:08 2022-07-21 CPU |
| 🗋 All                        |   |                         |
| Strategy0                    |   |                         |
|                              | Image: Control of the second secon |                         |
| Add Delete                   |   |                         |
| Alarm 🖄 🗹 × 🕞                |   | × □ ×                   |

# 6.2. Starting Cruise

Step 1: From the main menu, choose Main Window to go to the preview page.

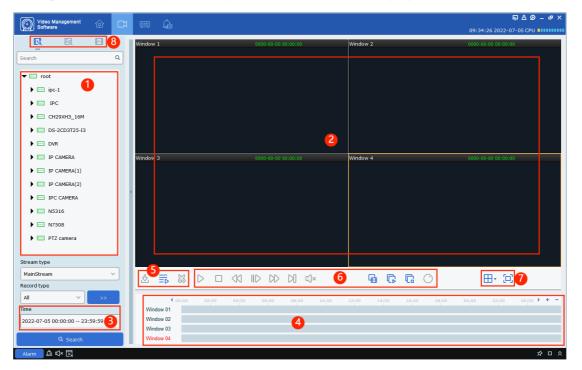
**Step 2:** Select a cruise plan such as  $rategyo \sim$  in the lower part of the page.

**Step 3:** Click <sup>See</sup> to start the cruise plan.

# 7.Remote Playback

# 7.1. Remote Playback Introduction

From the main menu, Choose **Remote Playback** to go to the playback page, where you can play and export device recordings and images, as shown in the following figure:



| No. | Function | Description   | Operation  |   |
|-----|----------|---|--|---|
|     |          |   | Capture  | Select a video window that has<br>enabled recording, and click or<br>right-click to select Capture to<br>capture an image.  |
|     |          |   | Digital zoom   | Select a video window that has enabled recording, and click <b>Q</b> .  |
|     |          | c k The area<br>where a<br>recording is<br>played back. | Stop playing   | Select a video window that has<br>enabled playback, and click $\Box$ or<br>right-click to select<br>Stop Play   |
|     | Playback |   | Recording  | Select a video window that has<br>enabled playback, and click or<br>right-click to select<br>Start record   |
| 1   | window   |   | Enable fisheye   | Select a video window that has<br>enabled playback, and click $\bigcirc$ or<br>right-click to select<br>$\bigcirc$ Fisheye. Only available for<br>devices that support the fisheye<br>mode.   |
|     |          |   | Full screen mode   | Click 🗇 or right-click to select  |
|     |          |   | Add a tag  | Click 🖉<br>to add a tag in playback.  |
|     |          | Screenshot  | Click to take a screenshot. To<br>be specific, click and hold the left<br>mouse button, and drag to select a<br>part of the play area. |   |
|     |          |   | Set query<br>conditions for<br>device recordings.  | On the <b>Devices</b> tab, after you<br>select a device or view, select<br>recording or image query, and<br>select a date. If recordings exist<br>on that day, you can find a<br>subscript in the lower right corner<br>of the date. Then from<br>Search Config 7, set the capture<br>type, stream type, start time and |

The functions on the page are described in the following table:

| 2 | Query time | The time when<br>a recording or<br>image is<br>recorded. |   |  |
|---|------------|--|---|--|
|   |            |  | Set query<br>conditions for<br>device images. |  |
|   |            |  |   |  |

| 3    | Time progress            | View the<br>existing                          |                           | ay progress bar becomes higher.<br>blay progress bar becomes lower.  |
|------|--------------------------|---|---------------------------|--|
| area |                          | recording information.                        | : Move the progress       | bar to display the area.   |
|      |                          |   | Export device recordings. | See Section 7.3 "Exporting Device Recordings".   |
| 4    | Download, sync play, and | Play back, cut,<br>or export<br>recordings as | Cut device recordings.    | Drag the start point and end point<br>in the progress bar to cut a<br>recording.   |
|      | cut                      | needed.                                       | Synchronous<br>playback.  | Select multiple channels, click the<br>sync play button, and click play.<br>Recordings of all channels can be<br>played synchronously. |
|      |                          |   | G                         | Play recordings of all channels.   |
|      |                          |   | G                         | Stop playing back recordings of all channels.  |
|      |                          | a y b a c k<br>rol bar<br>Sound.              |                           | Start playing back a recording.  |
|      |                          |   | 4                         | Move recording playback backward.  |
|      |                          |   | 00                        | Pause recording playback.  |
| 5    | Playback                 |   |                           | Stop playing back a recording.   |
|      | control bal              |   | D                         | Move a frame forward when playing back a recording.  |
|      |                          |   | DD                        | Fast forward the playback of a recording.  |
|      |                          |   | Ľ]×                       | Enable or disable the sound.   |
|      |                          |   | Ģ                         | Use intelligent playback.  |
|      |                          |   | $\bigcirc$                | Enter fisheye mode to play.  |
|      |                          |   |                           | Slow down the playback of a recording.   |
| 6    | 5 Window                 | window  | ⊞·                        | Select the desired display mode<br>and the number of video<br>windows.   |
|      | control                  |   |                           | Select the full screen mode for a video window.  |
|      |                          | Switch  | E                         | Go to the recording playback page.   |
|      | 7                        | playback<br>between<br>recordings and         |                           | Go to the image playback page,<br>see Section 7.4 "Playing Back<br>Device Images".   |
|      |                          |   | 50                        |  |

| images. | F | Go to the playback by tag page. |
|---------|---|---------------------------------|
|---------|---|---------------------------------|

## 7.2. Playing Back Device Recordings

#### **Prerequisites:**

The selected device channel has a recording.

#### **Procedure:**

Step 1: Select **I** the tab on the **Remote Playback** page.

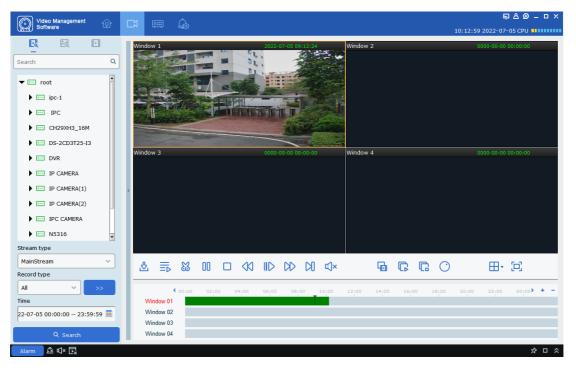
Step 2: Select a device channel in device groups.

Step 3: Set the query conditions for recordings.

1. Select the recording type, stream type, and data and time.

2. Click Search. Then the recording progress bar is shown in the time progress area.

**Step 4:** Select a window with a recording, and click  $\triangleright$ . Then the recording starts playing back, as shown in the following figure:



### 7.3. Export device recordings.

#### **Prerequisites:**

The selected device channel has a recording.

#### 1. Cut and download a recording:

Step 1: Select **I** the tab on the **Remote Playback** page.

Step 2: Select a device channel in device groups.

**Step 3:** Set the query conditions for recordings.

1. Select the recording type, stream type, and data and time.

2. Click Search. Then the recording progress bar is shown in the time progress area.

**Step 4:** Select a window with a recording, and click  $\triangleright$ . Then the recording starts playing back.

**Step 5:** Click  $\bigotimes$  and cut a part of the recording in the progress bar as needed, and click  $\square$  to export the cut recording. A dialog box is displayed, as shown in the following figure:

| <b>(</b> )      | Download record file            | ×    |
|-----------------|---------------------------------|------|
| start time:     | 2021-03-11 00:00:00             |      |
| end time:       | 2021-03-11 00:10:54             |      |
| Window 1        |                                 |      |
|                 | 0%                              |      |
|                 |                                 |      |
|                 |                                 |      |
|                 |                                 |      |
| Select size:    | 377.32M                         |      |
| Disk Free size: | 22.41G                          |      |
| Dowload directo | ory: C:/Users/czj/VMS Pro/video |      |
|                 | download                        | stop |

| <b>(</b> )      | Download record file 🛛 🗙        |
|-----------------|---------------------------------|
| start time:     | 2021-03-11 00:00:00             |
| end time:       | 2021-03-11 00:10:54             |
|                 | 23%                             |
|                 |                                 |
|                 |                                 |
| Select size:    | 377.32M                         |
| Disk Free size: | 22.41G                          |
| Dowload directo | ory: C:/Users/czj/VMS Pro/video |
|                 | download stop                   |

Step 6: Specify the export path. Click download. Then the export progress appears.

Step 7: After the cut recording is exported, close the window.

#### 2. Download by recording file time:

Step 1: Select **I** the tab on the **Remote Playback** page.

Step 2: Select a device channel in device groups.

Step 3: Set the query conditions for recordings.

1. Select the recording type, stream type, and data and time.

2. Click Search. Then the recording progress bar is shown in the time progress area.

| Step 4: Click a window with a recording, and click 🕹 in the playback control tool bar. Then all |
|---|
| recordings of the channel on that day are displayed, as shown in the following figure:          |

| (i)             |                        | Downlo                 | ad record file |             |                 | × |
|-----------------|------------------------|------------------------|----------------|-------------|-----------------|---|
|                 |                        | Channe                 | el 1           |             |                 |   |
| Index           | Start time             | End time               |                |             | Video Save Path | • |
|                 | 2021-03-11<br>00:00:00 | 2021-03-11<br>00:00:29 | 15.70M         | No download |                 | 1 |
| 2               | 2021-03-11<br>00:00:24 | 2021-03-11<br>00:01:13 | 25.46M         | No download |                 |   |
| 3               | 2021-03-11<br>00:01:09 | 2021-03-11<br>00:01:36 | 14.64M         | No download |                 |   |
| 4               | 2021-03-11<br>00:01:36 | 2021-03-11<br>00:02:07 | 16.02M         | No download |                 |   |
| 5               | 2021-03-11<br>00:02:00 | 2021-03-11<br>00:02:56 | 29.05M         | No download |                 |   |
| 6               | 2021-03-11<br>00:02:51 | 2021-03-11<br>00:03:49 | 29.88M         | No download |                 |   |
| 7               | 2021-03-11<br>00:03:42 | 2021-03-11<br>00:04:40 | 30.03M         | No download |                 |   |
| 8               | 2021-03-11<br>00:04:33 | 2021-03-11<br>00:05:31 | 30.21M         | No download |                 |   |
| 9               | 2021-03-11             | 2021-03-11             | 29.13M         | No download |                 | • |
| Select size:    | OM                     |                        |                |             |                 |   |
| Disk Free size: | 22G                    |                        |                |             |                 |   |
| Dowload direct  | ory: C:/Users/c        | zj/VMS Pro/video       | 5              |             |                 |   |
|                 |                        |                        |                | dov         | wnload stop     |   |

**Step 5:** Select recordings as needed by time period and specify the export path. Click **download**. Then the export progress appears, as shown in:

| <b>i</b>        |                        | Downlo                 | ad record file |             | ×                 |
|-----------------|------------------------|------------------------|----------------|-------------|-------------------|
|                 |                        | Channe                 | el 1           |             |                   |
| Index           | Start time             | End time               |                |             | Video Save Path 🗕 |
| ☑ 1             | 2021-03-11<br>00:00:00 | 2021-03-11<br>00:00:29 | 15.70M         | 75%         |                   |
| 2               | 2021-03-11<br>00:00:24 | 2021-03-11<br>00:01:13 | 25.46M         | No download |                   |
| <b>3</b>        | 2021-03-11<br>00:01:09 | 2021-03-11<br>00:01:36 | 14.64M         | No download |                   |
| 4               | 2021-03-11<br>00:01:36 | 2021-03-11<br>00:02:07 | 16.02M         | No download |                   |
| 5               | 2021-03-11<br>00:02:00 | 2021-03-11<br>00:02:56 | 29.05M         | No download |                   |
| 6               | 2021-03-11<br>00:02:51 | 2021-03-11<br>00:03:49 | 29.88M         | No download |                   |
| 7               | 2021-03-11<br>00:03:42 | 2021-03-11<br>00:04:40 | 30.03M         | No download |                   |
| 8               | 2021-03-11<br>00:04:33 | 2021-03-11<br>00:05:31 | 30.21M         | No download |                   |
| 9               | 2021-03-11             | 2021-03-11             | 29.13M         | No download | •                 |
| Select size:    | 15.70M                 |                        |                |             |                   |
| Disk Free size: | 22G                    |                        |                |             |                   |
| Dowload direct  | ory: C:/Users/c        | zj/VMS Pro/vide        | 0              |             |                   |
|                 |                        |                        |                | do          | wnload stop       |

# 7.4. Playing Back Device Images

#### **Prerequisites:**

The selected device channel has a recording.

#### **Procedure:**

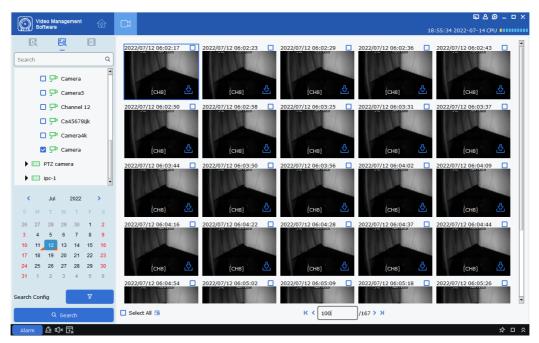
**Step 1:** Select **E** the tab on the **Remote Playback** page.

Step 2: Select a device channel in device groups.

Step 3: Set the query conditions for images in Search Config

1. Select the recording type, stream type, and data and time.

2. Click **Search**. The images are displayed on the right next to device groups, as shown in the following figure:

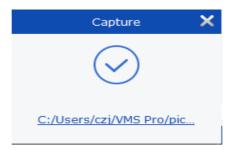


Step 4: Play back the images.

Click  $(1)^{167}$  to switch pages.

### 7.5. Exporting Device Images

On the image playback page, click with in the lower right corner of an image. After the image is exported, a dialog box is displayed, as shown in the following figure:



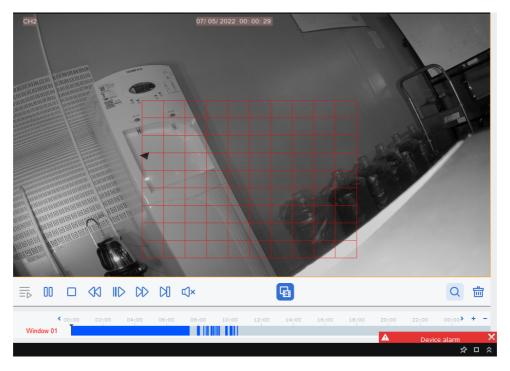
Also, you can select the checkbox in the upper right corner of an image.

Or, click Select All to select all images and click 🖼 to save the images in batches.

Note: To set the image storage path, choose System Config on the main menu.

### 7.6. Playing Back Recordings Using Intelligent Search

Stop playing a recording, and click in on the playback page to enter intelligent search. Only recordings of one channel can be played back if you use intelligent search. The time periods with recordings are marked blue in the timeline.



During playback, click the window and drag to select an area that needs search. Click  $\square$  for intelligent playback in the selected area.

Click to delete the area and click <sup>[1]</sup> to exit intelligent playback.

## 7.7. Playing Back Recordings Using Tags

#### **Prerequisites:**

A tag was added during preview or playback.

#### **Procedure:**

Step 1: Select 🛄 the tab on the **Remote Playback** page.

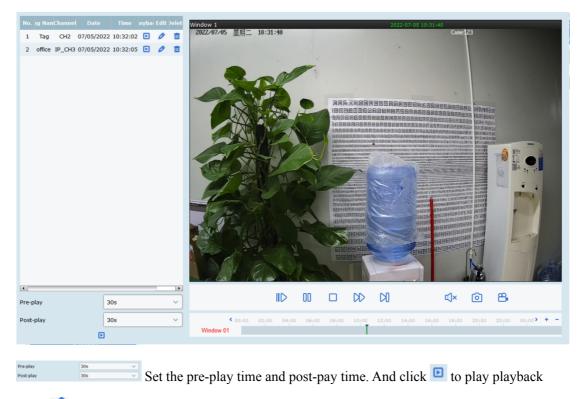
Step 2: Select a device channel in device groups.

**Step 3:** Select the time period, enter keywords, and click **Search**. All available tags are searched if you do not enter keywords.

| 10 K                | •       | No. | Tag Name | Channel | Date       | Time     | Playback | Edit | Delete   |
|---------------------|---------|-----|----------|---------|------------|----------|----------|------|----------|
| Search              | ۹       | 1   | Tag      | CH2     | 07/05/2022 | 10:32:02 | D        | 0    | <b>a</b> |
| ▼ ⊡ root            | 1       | 2   | office   | IP_CH3  | 07/05/2022 | 10:32:05 | Ð        | 0    | <b>İ</b> |
| ▶ ipc-1             |         |     |          |         |            |          |          |      |          |
| IPC                 |         |     |          |         |            |          |          |      |          |
| CH29XH3_16M         |         |     |          |         |            |          |          |      |          |
| ▶ 📼 DS-2CD3T25-I3   |         |     |          |         |            |          |          |      |          |
| ▼ IIII DVR          | 1       |     |          |         |            |          |          |      |          |
| 🗆 🖵 Сніщіј          |         |     |          |         |            |          |          |      |          |
| 🗹 🖵 СН2             |         |     |          |         |            |          |          |      |          |
| 🗆 💬 снз             |         |     |          |         |            |          |          |      |          |
| 🗆 💬 сн4             |         |     |          |         |            |          |          |      |          |
| 🗆 💬 снз             |         |     |          |         |            |          |          |      |          |
| 🗆 💬 сне             |         |     |          |         |            |          |          |      |          |
| 🗆 💬 СН7             | -       |     |          |         |            |          |          |      |          |
| Start Time          |         |     |          |         |            |          |          |      |          |
| 2022-07-05 00:00:00 | <b></b> |     |          |         |            |          |          |      |          |
| End Time            |         |     |          |         |            |          |          |      |          |
| 2022-07-05 23:59:59 |         |     |          |         |            |          |          |      |          |
| Keyword             |         |     |          |         |            |          |          |      |          |
| Q Search            |         |     |          |         |            |          |          |      |          |

The search results are displayed on the right, with each indicating a tag. The tags are shown in the form of a table.

Click 🔲 to go to the playback page.



Click  $\checkmark$  to modify the tag name. Click  $\checkmark$  to delete the tag.

# 8.Local Playback

# 8.1. Local Playback Introduction

From the main menu, choose **Local Playback** to go to the playback page, where you can play back and export recordings and images from the client, as shown in the following figure:

| Video Management 🔗             | m                      |             |                     |             |             |             | ē                 | 80_ U X     |
|--------------------------------|------------------------|-------------|---------------------|-------------|-------------|-------------|-------------------|-------------|
| Software 🗠                     |                        |             |                     |             |             |             | 14:59:31 2022-07- | 05 CPU      |
| Search Q                       | Window 1               |             | 0000-00-00 00:00:00 |             | Window 2    |             |                   |             |
| Current Device Delete Device   |                        |             |                     |             |             |             |                   | 1           |
| le root                        |                        |             |                     |             |             |             |                   |             |
| ,                              |                        |             |                     |             |             |             |                   |             |
| •                              |                        |             |                     |             |             |             |                   |             |
| •                              |                        |             |                     | 4           |             |             |                   |             |
|                                |                        |             |                     |             |             |             |                   |             |
|                                |                        |             |                     |             |             |             |                   |             |
|                                | Window 3               |             | 0000-00-00 00:00:00 |             | Window 4    | 000         |                   |             |
|                                |                        |             |                     |             |             |             |                   |             |
|                                |                        |             |                     |             |             |             |                   |             |
|                                |                        |             |                     |             |             |             |                   |             |
|                                |                        |             |                     |             |             |             |                   |             |
|                                |                        |             |                     |             |             |             |                   |             |
|                                |                        |             |                     |             |             |             |                   |             |
|                                |                        |             |                     |             | ļ.          |             |                   |             |
|                                | & ≣⊳                   |             |                     | >1 🗆        | 3 🕞         | <b>G</b> () | <b>H</b> 5        |             |
| Record type                    | 0                      |             |                     |             |             |             |                   |             |
|                                |                        | 00:00 02:00 | 04:00 06:00         | 08:00 10:00 | 12:00 14:00 | 16:00 18:00 | 20:00 22:00       | 00:00 > + - |
| Time 2                         | Window 01<br>Window 02 |             |                     |             |             |             |                   |             |
| 2022-07-05 00:00:00 23:59:59 🔳 | Window 02<br>Window 03 |             |                     |             | 3           |             |                   |             |
| Search                         | Window 04              |             |                     |             |             |             |                   |             |
| Alarm 🕰 🕸 🕞                    |                        |             |                     |             |             |             |                   | × □ ☆       |

| No. | Function                | Description  | Ope   | Operation  |  |  |  |
|-----|-------------------------|--|---|--|--|--|--|
| 1   | Device tree             | The device tree<br>shows device<br>groups and<br>channels. | You can select a current or deleted device. |  |  |  |  |
| 2   | Query time              | Query the time of a recording.                             | date<br>can f                               | Select a device in the device tree, and select the date and time. If recordings exist on that day, you can find a subscript in the lower right corner of the date. Click <b>Search</b> . |  |  |  |
|     |                         |  | Ē   | Play ba  | ck recordings synchronously.   |  |  |
|     |                         |  | $\triangleright$                            | Start pl   | aying back a recording.  |  |  |
|     |                         |  | 00  | Pause r  | ecording playback.   |  |  |
|     |                         |  |   | Stop pla   | aying back a recording.  |  |  |
|     | Discharl                | Control the  |   | Move a recordin  | frame forward when playing back a ng.  |  |  |
| 3   | Playback<br>control bar | recording playback and                                     | DD  | Fast for   | ast forward the playback of a recording.   |  |  |
|     | s                       | sound.   |   | Slow do  | Slow down the playback of a recording.   |  |  |
|     |                         |  | G   | Start pl   | Start playing back recordings of all channels.   |  |  |
|     |                         |  | G   | Stop pla   | aying back recordings of all channels.   |  |  |
|     |                         |  | 0   | Enable   | the fisheye mode.  |  |  |
|     |                         |  | Captu                                       | ure  | Select a video window that has<br>enabled playback, and click or<br>right-click to select Capture to<br>capture an image.  |  |  |
|     |                         |  | Digit                                       | al zoom  | Select a video window that has enabled playback, and click   |  |  |
|     | 4 Playback<br>window    |  | The area                                    | Stop   | playing  | Select a video window that has<br>enabled playback, and click or<br>right-click to select Stop Play. |  |
| 4   |                         | where a<br>recording is<br>played back.                    | Reco  | rding  | Select a video window that has<br>enabled playback, and click or<br>right-click to select Start record.  |  |  |
|     |                         |  | E n<br>fishe                                | able<br>ye   | Select a video window that has<br>enabled playback, and click $\bigcirc$ or<br>right-click to select $\bigcirc$ Fisheye.<br>Only available for devices that<br>support the fisheye mode. |  |  |

The functions on the page are described in the following table:

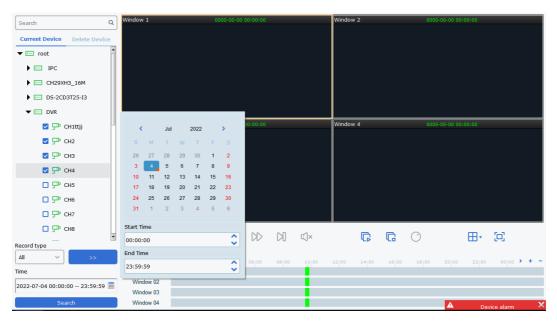
|   |                      |   | Full screen mode                    | Click 🖾  | or right-click to select  |
|---|----------------------|---|-------------------------------------|----------|---|
| 5 | Window               | Set the video<br>window                           | ⊞•                                  |          | Select the desired<br>display mode and the<br>number of video<br>windows. |
|   | control              | display mode.                                     | 🖵 or 🗗 🛛 Fu                         | llscreen | Select the full screen<br>mode for a video<br>window.                     |
| 6 | Time progress<br>bar | View the<br>existing<br>recording<br>information. | +/-: Zoom in or out the pro         |          | ogress bar.   |
| 7 | Recording download   | Download<br>recordings<br>locally.                | Click do to the file download page. |          |   |

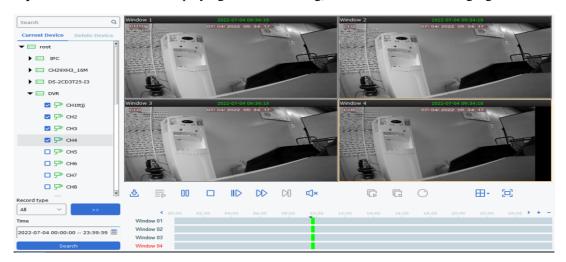
## 8.2. Local Recording Playback

Playback here refer to recording operations based on local recording plans, see Chapter 17 "Local Recording Plans". The following section describes how to play back local recordings.

Step 1: From the main menu, choose Local Playback to go to the local recording playback page.

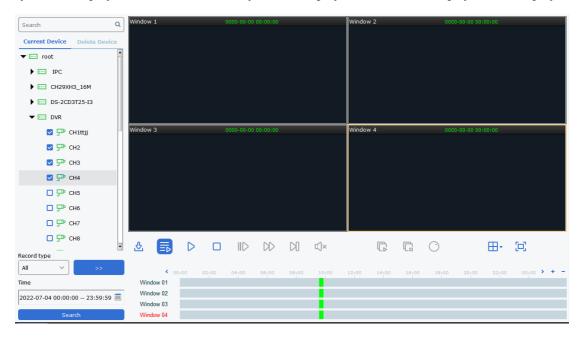
**Step 2:** In device groups, select a device as needed, set the date, and click **Search**. The search result can be viewed in the recording progress bar, as shown in the following figure:





**Step 3:** Click  $\triangleright$  or  $\overline{\Box}$  to start playing back a recording, as shown in the following figure:

**Note:** Local recording playback is in asynchronous mode. To enable synchronous playback, click  $\equiv$  to enter the synchronous play mode, as shown in the following figure: After you enter the synchronous play mode, click  $\triangleright$  to start synchronous play and click  $\Box$  to stop synchronous play.



# 9.Fisheye View Mode

Only fisheye devices support setting the installation mode and view mode. The view modes and installation modes are described in the following table:

| Parameter                                    | Description   | Description   |  |  |  |  |
|--|---|---|--|--|--|--|
| View mode                                    | by default. The<br>below:<br>1. Ceiling mou<br>2P, 4. | 1. Ceiling mounting VR, cylinder, 1P, 1P+1, 1P+3, 1P+6, 1P+8, 1+3, 1+8, 2,  |  |  |  |  |
| Ceiling/<br>Wall/<br>G r o u n d<br>mounting | Original image  | The original image that is not warped.  |  |  |  |  |
| C e i l i n g<br>mounting                    | <b>D</b> : 2  | Two independent sub-images that support zoom and movement.  |  |  |  |  |
|  | 🛞: VR   | VR mode. Double-click to enter VR mode. Images support zoom and movement.   |  |  |  |  |
|  | C: cylinder   | Cylinder display mode. Drag the mouse up and down to switch<br>the cylinder display mode to plane display.  |  |  |  |  |
|  | <b>B</b> : 4  | Four independent sub-images that support zoom and movement.   |  |  |  |  |
|  | • 2P  | Two related 180° expanded rectangular images. The two sub-<br>windows form a 360° panorama anytime, also known as dual<br>panorama. Both rectangular expanded images support moving<br>the starting point leftward and rightward in an interconnected<br>way. |  |  |  |  |
|  | C: 1P   | 360° expanded rectangular panorama that supports zoom and movement.   |  |  |  |  |
| Ceiling/<br>Ground<br>mounting               | ₲ <u>:</u> 1P+1                                       | 360° expanded rectangular panorama+1 independent sub-<br>image. The sub-image and sub-frame in the expanded<br>panorama support zoom and movement. The expanded<br>rectangular panorama does not support zoom and movement.                                   |  |  |  |  |
|  | (h): 1P+3   | $360^{\circ}$ expanded rectangular panorama + 3 independent sub-<br>images. The sub-image and sub-frame in the expanded<br>panorama support zoom and movement. The expanded<br>rectangular panorama does not support zoom and movement.                       |  |  |  |  |
|  | € 1P+6  | 360° expanded rectangular panorama+6 independent sub-<br>images. The sub-image and sub-frame in the expanded<br>panorama support zoom and movement. The expanded<br>rectangular panorama does not support zoom and movement.                                  |  |  |  |  |

| 1                  |                |   |
|--------------------|----------------|---|
|                    | € 1P+8         | 360° expanded rectangular panorama+8 independent sub-<br>images. The sub-image and sub-frame in the expanded<br>panorama support zoom and movement. The expanded<br>rectangular panorama does not support zoom and movement.  |
| Parameter          | Description    |   |
| Ceiling/<br>Ground | ⊞: 1+3         | Original image + 3 independent images. The sub-image and sub-frame in the original image support zoom and movement. The original image supports zoom.   |
| mounting           | ⊞: 1+8         | Original image + 8 independent images. The sub-image and sub-frame in the original image support zoom and movement. The original image supports zoom.   |
|                    | 🛞: VR          | VR mode. Double-click to enter VR mode. Images support zoom and movement.   |
|                    | □: 1P          | 360° expanded rectangular panorama from left to right that changes the vertical viewing angle. Zoom and movement are not supported.   |
|                    | <b>⊞</b> : 4   | Four independent sub-images that support zoom and movement.   |
| Wall               | ₩: 1P+3        | 360° expanded rectangular panorama+3 independent sub-<br>images. The sub-image and sub-frame in the expanded<br>panorama support zoom and movement. The expanded<br>rectangular panorama that changes the vertical viewing angle.<br>Zoom and movement are not supported. |
| mounting           | ₩: 1P+8        | 360° expanded rectangular panorama+8 independent sub-<br>images. The sub-image and sub-frame in the expanded<br>panorama support zoom and movement. The expanded<br>rectangular panorama that changes the vertical viewing angle.<br>Zoom and movement are not supported. |
|                    | <b>智</b> : 1+3 | Original image + 3 independent images. The sub-image and sub-frame in the original image support zoom and movement. The original image supports zoom and movement.  |
|                    | <b>E</b> : 1+8 | Original image + 8 independent images. The sub-image and sub-frame in the original image support zoom and movement. The original image supports zoom and movement.  |

### 9.1. Entering Fisheye Mode in Live View

Step 1: In the preview window, click or right-click to select O Fisheye to enter fisheye mode, as shown in the following figure:



The functions are described in the following table:

| No. | Parameter                             | Description                           |
|-----|---------------------------------------|---------------------------------------|
| 1   | F i s h e y e<br>installation<br>mode | Switch the fisheye installation mode. |
| 2   | Fisheye View<br>Mode                  | Switch the fisheye view mode.         |
| 3   | Live view                             | View the fisheye live view.           |

**Step 2:** Set the fisheye installation mode and view mode. Then you can control fisheye devices through PTZ.

## 9.2. Entering Fisheye Mode During Recording Playback

Click I in the playback window to enter fisheye mode. For detailed operations, see Section 9.1 "Entering Fisheye Mode in Live View".



# **10.Log Query**

Query and export logs from the client and devices.

## **10.1.Querying Client Logs**

Step 1: From the main menu, choose Log Search to go to the log search page.

Step 2: Select 😼 . The local client Local Log page is displayed.

**Step 3:** Select a current or deleted device for search. Set the username, time, log type, and device as needed. Local client logs include alarm, system, and operation logs.

**Step 4:** Click **Search**. The search results of client logs are displayed, as shown in the following figure:

|           | Video Management<br>Software | ŵ 🗈                 |           |           |              |      |            |        |         |       | ⊑ & Ø – □      | × |
|-----------|------------------------------|---------------------|-----------|-----------|--------------|------|------------|--------|---------|-------|----------------|---|
|           |                              |                     |           |           |              |      | )          |        |         | _     | 2022-07-05 CPU |   |
|           | Start Time:                  | 2022/07/05 00:00:00 | Log Type: | Alarm Log |              | ~    | Keyword    | Search | (       | 2     | Search Backup  | p |
|           | End Time:                    | 2022/07/05 23:59:59 | Sub Type: | All       |              | ~    | User Name: | All    | `       | · _   |                |   |
| <u></u> 육 | Current Device               | Delete Device       | No. Grou  | p Name    | Channel Name | Туре | Tim        | e      | Details |       |                |   |
| £:        | Search                       | ٩                   |           |           |              |      |            |        |         |       |                |   |
|           | 🕨 📼 root                     |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         |       |                |   |
|           |                              |                     |           |           |              |      |            |        |         | Total | Device alarm   | × |
| Alarm     | _ & ⊄× ⊡,                    |                     |           |           |              |      |            |        |         |       | 分 口            | * |

Note: After the query is successful, you can click **Backup** to export the client logs.

### **10.2.Querying Remote Device Logs**

Step 1: From the main menu, choose Log Search to go to the log search page.

Step 2: Select 🖨 . The remote device Remote Log page is displayed.

Step 3: Set the time, log type, and device as needed. Remote device logs include system, configuration, alarm, user, record, storage, and intelligent logs.

**Step 4:** Click **Search.** The search results of device logs are displayed, as shown in the following figure:

Note: After the query is successful, you can click **Backup** to export the device logs.

|   |              |                     |        |             |              |            |                        |             | 10:44:01 2022-07-05 CPU |
|---|--------------|---------------------|--------|-------------|--------------|------------|------------------------|-------------|-------------------------|
|   | Start Time:  | 2022/07/05 00:00:00 | ) 🛅 Lo | g Type: All |              | ~ ] Кеу    | word Search            | ٩           |                         |
|   | End Time:    | 2022/07/05 23:59:59 |        |             |              |            |                        |             | Search Back             |
| 5 | 📼 PTZ camera |                     | No.    | Device Name | Channel Name |            | Time                   | Details     |                         |
| 1 | N5316        |                     | 1      | DVR         | CH2          | Alarm Log  | 07/05/2022<br>00:01:48 | FdStart     |                         |
| _ | N7508        |                     | 2      | DVR         | CH2          | Alarm Log  | 07/05/2022<br>00:02:15 | FdEnd       |                         |
|   | DVR          |                     | 3      | DVR         | IP_CH2       | Alarm Log  | 07/05/2022 00:04:19    | MotionStart |                         |
|   | IP CAMERA(1) |                     | 4      | DVR         | IP_CH2       | Alarm Log  | 07/05/2022<br>00:04:46 | MotionEnd   |                         |
|   | □ ipc-1      |                     | 5      | DVR         |              | System Log | 07/05/2022 00:07:50    | NTP         |                         |
|   |              |                     | 6      | DVR         | IP_CH2       | Alarm Log  | 07/05/2022 00:09:45    | MotionStart |                         |
|   |              |                     | 7      | DVR         | IP_CH2       | Alarm Log  | 07/05/2022 00:10:12    | MotionEnd   |                         |
|   |              |                     | 8      | DVR         | IP_CH2       | Alarm Log  | 07/05/2022<br>00:11:54 | MotionStart |                         |
|   |              |                     | 9      | DVR         | IP_CH2       | Alarm Log  | 07/05/2022 00:12:21    | MotionEnd   |                         |
|   |              |                     | 10     | DVR         | IP_CH2       | Alarm Log  | 07/05/2022<br>00:13:27 | MotionStart |                         |
|   |              |                     | 11     | DVR         | IP_CH2       | Alarm Log  | 07/05/2022<br>00:14:05 | MotionEnd   |                         |
|   |              |                     | 12     | DVR         | CH2          | Alarm Log  | 07/05/2022 00:15:50    | FdStart     |                         |
|   |              |                     | 13     | DVR         | CH2          | Alarm Log  | 07/05/2022 00:16:17    | FdEnd       |                         |
|   |              |                     | 14     | DVR         | CH2          | Alarm Log  | 07/05/2022 00:17:21    | FdStart     |                         |
|   |              |                     | 15     | DVR         | CH2          | Alarm Log  | 07/05/2022 00:17:48    | FdEnd       |                         |
|   |              |                     | 16     | DVR         | CH2          | Alarm Log  | 07/05/2022 00:17:58    | FdStart     |                         |
|   |              |                     | 17     | DVR         | CH6          | Alarm Log  | 07/05/2022<br>00:17:58 | FdStart     |                         |
|   |              |                     | 18     | DVR         | CH2          | Alarm Log  | 07/05/2022<br>00:18:25 | FdEnd       |                         |
|   |              |                     | 19     | DVR         | CH6          | Alarm Log  | 07/05/2022<br>00:18:25 | FdEnd       |                         |
|   |              |                     | 20     | DVR         | IP CH2       | Alarm Log  | 07/05/2022             | MotionStart | 1616 Items K < 1 /54    |

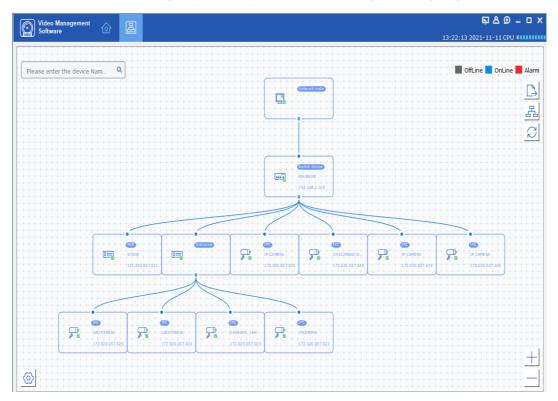
# **11.Topology Management**

Manage intelligent network management PoE switches and display the switches in topology. To use this function, ensure that the switches are added to the client and that their status is online.

On the topology display page, you can view the topological relationships among the devices added to the client. Also, you can perform related configuration operations.

## **11.1.Related Operations**

From the main menu, click Topology Management to enter the topology display page.



#### **Interface introduction**

- In the upper left corner, you can enter a device alias or IP address to view the corresponding topology.
- In the upper right corner, you can find the meaning of icon colors, export or refresh the topology, and view the path.
- In the lower right corner, you can zoom in or out the topology, or use your mouse wheel to zoom in or out.
- In the lower left corner, you can set the topology layer.

#### Note:

When you enter the topology page for the first time and the topology is not shown, click to refresh the page.

#### Description of related operations and icons

| Action/Icon                      | Operation                             | Description   |  |  |  |  |  |
|----------------------------------|---------------------------------------|---|--|--|--|--|--|
| Double-click<br>a device.        | View the detailed device information. | View the device type, IP address, panel status, and port information.                   |  |  |  |  |  |
| Right-click a                    | View the device status.               | For more information, go to the <b>Device Status</b> page.                              |  |  |  |  |  |
| device.                          | Handle alarms.                        | View alarms and events, and clear alarms.   |  |  |  |  |  |
|                                  | Perform remote configuration.         | For more information, go to the <b>Remote Config</b> page.                              |  |  |  |  |  |
|                                  | Modify the device name.               | Modify the device name that is shown in the topology.                                   |  |  |  |  |  |
|                                  | Set as root node.                     | Set the device as root node in the topology.  |  |  |  |  |  |
|                                  | Upgrade devices.                      | Upgrade the NVRs, DVRs, and IP cameras connected to the switches in the VMS Pro system. |  |  |  |  |  |
| $\stackrel{\frown}{\rightarrow}$ | Export the topology.                  | Select a path to export the current topology.   |  |  |  |  |  |
| 品                                | View the path.                        | Select the IP camera and current device to view the path.                               |  |  |  |  |  |
| Q                                | Refresh the topology.                 | Refresh the topology page.  |  |  |  |  |  |

## **11.2.Topology Settings**

#### **Procedure:**

Click O in the lower left corner of the page for simple topology configuration.

- Set the topology layers: 1-10;
- Click **OK** to save the settings.



Note:

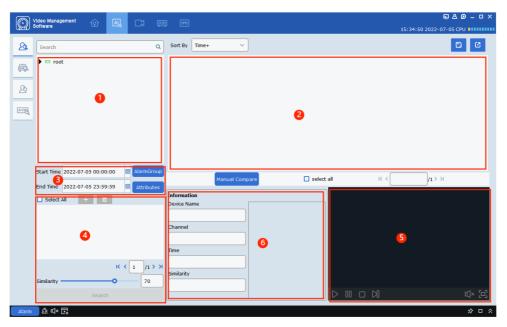
After you change settings, click  $\mathcal{C}$  to refresh and view the latest topology.

# **12.Intelligent Search**

Intelligent search includes face search, human and vehicle search, and repeat visitor search. The face detection function supports detecting passersby in a specified area, capturing clear face images, recognizing the face features, and recognizing humans and vehicles.

### 12.1.Face Search

**Step 1:** From the main menu, choose **AI Search**. Then click **Face Search** to enter the face search page, as shown in the following figure:

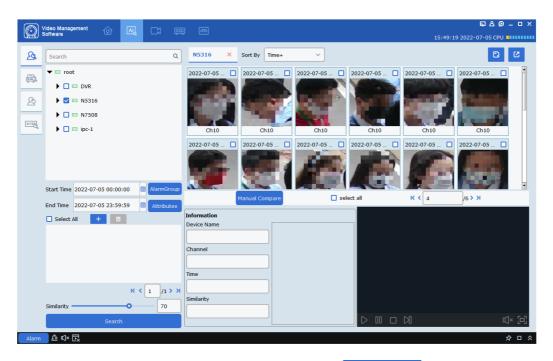


Note: The device is required to support face recognition.

Each part is described in the following table:

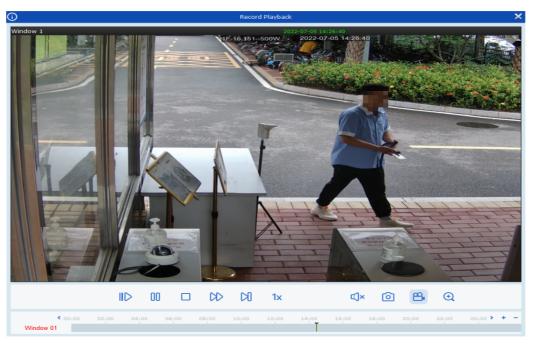
| No. | Item                       | Description   |
|-----|----------------------------|---|
| 1   | Device tree                | View the listed device channels.  |
| 2   | Search result display area | View the images that are searched out based on settings.  |
| 3   | Search setting area        | Set the date, group, and attributes for search.<br>The attributes include gender, age, face mask,<br>glasses, and expression. |
| 4   | Comparison search area     | Click + to add a local or device image. Click<br>Similarity to set similarity, and click<br>Search for comparison search.     |
| 5   | Recording playback area    | From the search results, select a recording to play in the playback area.   |
| 6   | Face information           | View the face information from the database.  |

**Step 2:** Select a device channel and a face group, set the date, and click **Search**. The search results are displayed, as shown in the following figure:



Click ± to select an image from the device and click Manual Compare. Then the images with a similarity higher than the specified value will appear. Click one card to view the details below or play back the recording.

**Step 3:** Click an image of the recording you want to view, and click  $\square$  in the playback area to enter the recording playback page. Click  $\square$  to enter full screen mode, as shown in the following figure:



Search for images with an image

Step 1: From the main menu, choose AI Search. Then click Face Search to enter the face search page.

**Step 2:** Select a device channel and a face group, set the date, and click <sup>+</sup> to add a face image. You can add a local image or select a device image. Set the similarity in

Similarity 80

%, and click Search. The images with a similarity

higher than 80% will appear.

### 12.2.Human and Vehicle Search

On the **AI Search** page, click the human and vehicle search icon to enter the human and vehicle page, as shown in the following figure:

|        | /ideo Management<br>Software  | ्रे 🛃                              | C1      | 0::: | ு                                  |        |         |       |   |            |     |      | 6             | ⊒ A © _ I |                  |
|--------|---|------------------------------------|---------|------|------------------------------------|--------|---------|-------|---|------------|-----|------|---------------|-----------|------------------|
| (And S | sontware  |                                    |         |      |                                    |        |         |       |   |            |     | 16:0 | 06:26 2022-07 | -05 CPU   |                  |
| 2      | Search  |                                    |         | ٩    | DVR                                | ×      | Sort By | Time+ |   | ~          |     |      |               | 0.0       | ;                |
| 2<br>2 | <ul> <li>root</li> <li>DVR</li> <li>NS316</li> <li>N7508</li> <li>ipc-1</li> </ul>            | 0                                  |         |      |                                    |        |         |       |   | 8          |     |      |               |           |                  |
|        | Start Time  | 2022-07-05 0                       | 0:00:00 | E s  | napped info                        | rmatio | n:      |       |   | select all | к ( |      | /1 > >        |           |                  |
|        | End Time Line Crossing Deter Perimeter Intrusion Pedestrian Detectic Human Non-motorized Vehi | Detection<br>in<br>Vehicle<br>icle | 3:59:59 |      | pevice Name<br>Channel<br>ime<br>D |        |         |       | 4 |            |     | 5    |               | ₽×        | 67               |
|        |   | Search                             |         |      |                                    |        |         |       |   |            | บุณ |      |               | Щ× ,      | L <sup>L</sup> L |
| Alarm  | ı∆ u× ⊡x  |                                    |         |      |                                    |        |         |       |   |            |     |      |               | \$        | □ ☆              |

| No. | Item                                  | Description  |
|-----|---------------------------------------|--|
| 1   | Device tree                           | View the listed device channels.   |
| 2   | Search setting area                   | Select the time range, human, vehicle, or non-motorized vehicle, and click <b>Search</b> . |
| 3   | Human and vehicle search display area | View the captures that are searched out based on the specified time range.                 |
| 4   | Device information display area       | View the detailed device information.  |
| 5   | Recording playback area               | Play back recordings.  |

Step 1: Select a device or device group in the device tree.

Step 2: Select the time range and human or vehicle below the device tree, and click Search.

Step 3: The search results are displayed in the form of cards in the display area. Click a card to view the detailed device information below, and play back the recording in the playback area. Click the box in the upper right corner of a card, and click to export the information.

### 12.3.Repeat Visitor Search

**Step 1:** On the **AI Search** page, click the repeat visitors icon to enter the repeat visitors page, as shown in the following figure:

| © s   | 'ideo Management<br>oftware | ŵ 🔍 C1 (            |                |                |           | <b>1</b> 6:10:55 2022-07- | •05 CPU ■ |
|-------|-----------------------------|---------------------|----------------|----------------|-----------|---------------------------|-----------|
| 24    | Search                      | C                   | Sort By Count- | V Minimum Occu | rrences 1 |                           | 0 2       |
|       | 🕨 📼 root                    |                     |                |                |           |                           |           |
| 29    |                             |                     |                |                |           |                           |           |
| A-123 |                             | 0                   |                |                | 3         |                           |           |
|       |                             |                     |                |                |           |                           |           |
|       |                             |                     |                |                |           |                           |           |
|       |                             |                     |                |                |           |                           |           |
|       |                             |                     | Select all     |                |           | K < <b>1</b>              | /1 > >I   |
|       |                             |                     | No. Channel    | Start time     | End time  |                           |           |
|       | Time                        | 2022-07-05 00:00:00 |                |                |           |                           |           |
|       | 2                           | 2022-07-05 23:59:59 |                |                |           | 5                         |           |
|       | Min Interval                | 0 s Attribute       | 25             | 4              |           |                           |           |
|       | Similarity                  | 50 % Group          |                |                |           |                           |           |
|       |                             | Search              |                |                |           |                           | ű× ⊡      |
| Alarm | ı∆ q× ⊡                     |                     |                |                |           |                           | ☆□☆       |

| No. | Item        | Description                      |
|-----|-------------|----------------------------------|
| 1   | Device tree | View the listed device channels. |

| 2 | Search setting area                     | Search for the number of times that a face appears<br>by setting the time period, the minimum interval,<br>and similarity. The attributes and group are used<br>to filter search results. |
|---|---|---|
| 3 | Human search display area               | View the profiles of people and the number of<br>times people appear, which are searched out<br>based on the specified time range.  |
| 4 | Repeat visitor information display area | View the number of repeat visits, time, device<br>channel that are displayed in the order of time.  |
| 5 | Recording playback area                 | Select a recording in the repeat visitor<br>information display area and play the recording in<br>the playback area.  |

Step 2: Select a device or device group, set the time, minimum interval, and similarity. To query a person, select the group the person belongs to in Group. Click Attributes to select attributes if necessary and click Search, as shown in the following figure:

| Video Man<br>Software | agement 🕎                             |  | Ľ3    | 0 <b></b> 60           |  |                          |             | 16                                 | ⊑ & ⊈<br>22:19 2022-07-05 CPI | ) –    |
|-----------------------|---------------------------------------|--|-------|------------------------|--|--------------------------|-------------|------------------------------------|-------------------------------|--------|
| <u>A</u> Search       | 1                                     |  | Q N53 | 16 So                  | ort By Count-  | V Minimum C              | Occurrences | 1                                  | D                             | Ľ      |
|                       | oot<br>DVR<br>N5316<br>N7508<br>ipc-1 |  | A     | ppeared times:2:       | zhangjinbia       zhangjinbia       Appeared time       yanglianglia | s:19 Appeared            | times:14    | chengxiang 🖉 🗋<br>Appeared times:5 | pangjifeng /                  | •      |
|                       |                                       |  | Se el | lect all<br>Start time | e End t  | ime <sup>y</sup> laybacl |             |                                    | K < 1                         | /1 > > |
| Time                  |                                       | 2022-06-15 00:00:00<br>2022-06-28 23:59:59 |       | Start time             |  | іте <sup>ч</sup> аурасі  |             |                                    |                               |        |
| Min Inte              | rval                                  | 0 s Attrib                                 | utes  |                        |  |                          |             |                                    |                               |        |
| Similarit             | У                                     | 50 % Gro                                   | up    |                        |  |                          |             |                                    |                               |        |
|                       | Se                                    | arch                                       |       |                        |  |                          | ▶ 00        |                                    | [                             | 1× [0] |
| Alarm 🖄 🗘             | K 🗗                                   |  |       |                        |  |                          |             |                                    |                               | ☆ □ ☆  |

Step 3: The query results are displayed in the form of cards in the query display area. A card consists of the upper part, central part, and lower part. The lower part **Appeared times:16** shows the number of times the person appears. The central part shows the image recorded by the device. The upper part **Stranger Stranger** shows the person name, **A**, and box. The name is first queried in the personnel information stored in the device. If the name does not exist, **Stranger** is displayed. Click **Appeared times** to go to the detailed information page. If the repeat visitor information is stored in the device, the detailed information is displayed, as shown in the following figure:

| 0                            | Detail Information  |
|------------------------------|---|
| Details Edit                 |   |
|                              |   |
|                              | I-03-11 11:12:08 Name Iqq<br>I-03-11 11:12:08 Age 22  |
| Score 8<br>Alarm Policy Deny | Country   |
|                              | Native Place       Id Code       Id Code       Occupation       Phone Number       Email       Residence       Remark       Additional Face Image |
|                              |   |

If the person is a stranger, no information is displayed on the page. If you know the person, add the person information to the device or modify the information. Click **Edit** pointed by the arrow, as shown in the following figure:

| C | D               |       | Detail Infor | mation |   | ×   |
|---|-----------------|-------|--------------|--------|---|---|
|   | Details         | Edit  | <br>-        |        |   |   |
|   |                 |       |              |        |   |   |
|   | Name            | lqq   | Sex          | male   | ~ |   |
|   | Age             | 22    | Country      |        |   |   |
|   | Nationality     |       | Native Place |        |   | and the second se |
|   | Id Code         |       |              |        |   |   |
|   | Occupation      |       |              |        |   | Long and a  |
|   | Phone Number    |       | Email        |        |   | Modify  |
|   | Residence       |       |              |        |   |   |
|   | Remark          | 1     |              |        |   | _   |
|   | Additional Face | Image |              |        |   |   |
|   |                 |       |              |        |   | _   |
|   |                 |       |              |        |   |   |
|   |                 |       |              |        |   |   |
|   | <               | ц.    |              |        |   | >   |
|   |                 | Т     |              |        |   |   |
|   |                 |       |              |        |   | ▲   |
|   |                 |       |              |        |   |   |
|   |                 |       |              |        |   | Save  |
|   |                 |       |              |        |   |   |

After you enter the information, click **Save** pointed by the arrow in the above figure to save the information to the device.

To export the queried information, select the box in  $\square$  Or, click Select All below the images and click  $\square$  in the upper right corner.

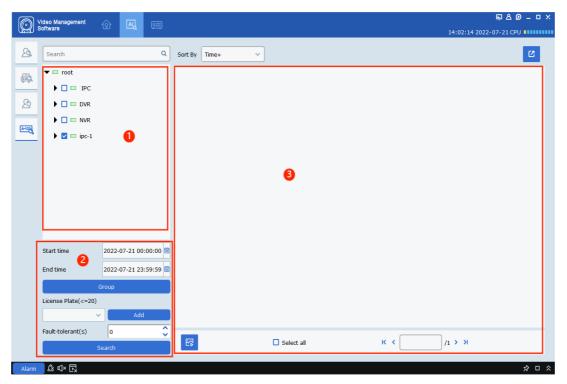
**Step 4:** If you click a card, the information bar in the lower part shows the information each time the repeat visitor is captured.

| No. | Channel | Start Time             | End Time               | Playback | Ĥ |
|-----|---------|------------------------|------------------------|----------|---|
| 1   | IPC3    | 2019-11-22<br>05:35:05 | 2019-11-22<br>05:35:06 | Þ        | ۲ |
| 2   | IPC3    | 2019-11-22<br>05:35:47 | 2019-11-22<br>05:35:48 | Þ        |   |
| 3   | IPC3    | 2019-11-22<br>05:35:51 | 2019-11-22<br>05:35:52 | D        |   |
| 1   | TDCO    | 2019-11-22             | 2019-11-22             | N        | - |

The information bar shows the capture channel, start time and end time, and video playback in the order of capture time. Click  $\triangleright$  in the **Playback** column if you want to play back the recording in the playback window next to the information bar. For information about playback operations, see Table 6-1.

# **12.4.License Plate Search**

**Step 1:** On the AI Search page, click the License Plate Search icon to enter the license plate search page, as shown in the following figure:



Note: The device is required to support license plate recognition.

Each part is described in the following table:

| No. | Item                       | Description   |
|-----|----------------------------|---|
| 1   | Device tree                | View the devices that support license plate recognition.                                |
| 2   | Search setting area        | Set the date, group, license plate, and number of fault-tolerant characters for search. |
| 3   | Search result display area | View the license plates that are searched out based on settings.                        |

**Step 2:** Select the device channel, date, and license plate group, and enter the license plate number you want to search. Then click **Add** to add the plate number to the search list, and click **Search**. The search results are displayed, as shown in the following figure:

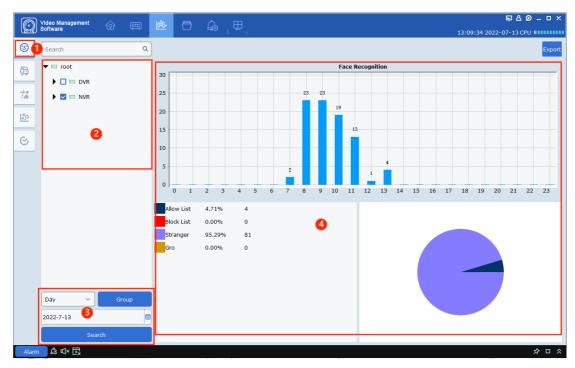
| 24    | Search Q                                   | Sort By Time+ V   | ß |
|-------|--|---|---|
|       | ▼ □ root<br>▶ □ □ IPC                      | 2022-07-21 1 [ 2022-07-21 1 [ 2022-07-21 1 ] 2022-07-21 1 ]                 |   |
| £     | <ul> <li>► DVR</li> <li>► ■ NVR</li> </ul> | * KX57LPE * KX57LPE * KX57LPE * KX57LPE                                     |   |
| A-122 | • ipc-1                                    | [CH6]KX57LPE         [CH3]KX57LPE         [CH3]KX57LPE         [CH3]KX57LPE |   |
|       |  |   |   |
|       |  |   |   |
|       |  |   |   |
|       | Start time 2022-07-21 00:00:00             |   |   |
|       | End time 2022-07-21 23:59:59               |   |   |
|       | License Plate(<=20)                        |   |   |
|       | KX57LPE 💼 0 🗘                              |   |   |

# 13.Data Analysis

From the main menu, click **Data Analysis** to go to the data analysis page. Data analysis involves five modules: face statistics, human and vehicle statistics, cross counting, heat map, and face attendance statistics.

## **13.1.Face Statistics**

On the **Data Analysis** page, the face detection page is displayed by default, as shown in the following figure:



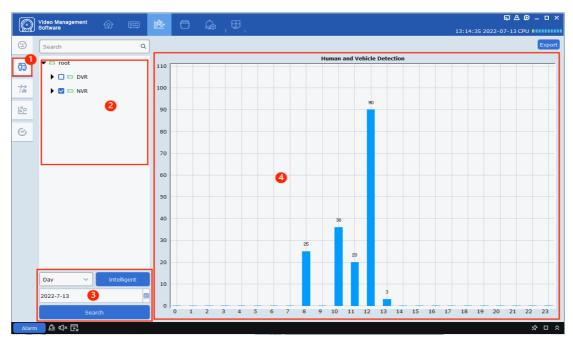
| No. | Item                             | Description   |
|-----|----------------------------------|---|
| 1   | Face detection statistics module | Click to enter the face detection statistics page.    |
| 2   | Device tree                      | View device channels.                                 |
| 3   | Search setting area              | Set the date, time range, and group for search.       |
| 4   | Result display area              | A column chart or pie chart shows the search results. |

Select a device, set the date, time range, and group, and click Search.

The search results are shown by a pie chart or column chart in the display area.

# **13.2.Human and Vehicle Statistics**

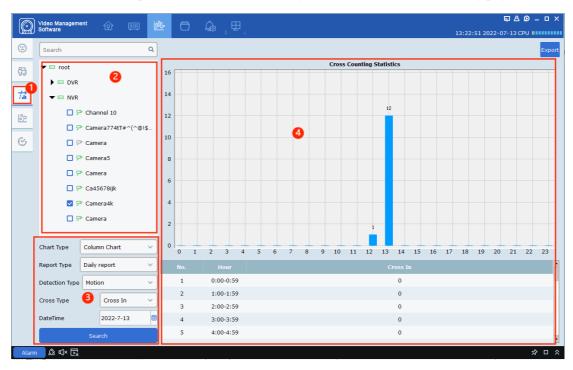
On the **Data Analysis** page, click the human and vehicle detection icon to enter the human and vehicle detection statistics page, as shown in the following figure:



| No. | Item                             | Description   |
|-----|----------------------------------|---|
| 1   | Face detection statistics module | Click to enter the human and vehicle detection statistics page. |
| 2   | Device tree                      | View device channels.   |
| 3   | Search setting area              | Set the date, time range, and group for search.                 |
| 4   | Result display area              | A column chart or pie chart shows the search results.           |

# 13.3.Cross Counting

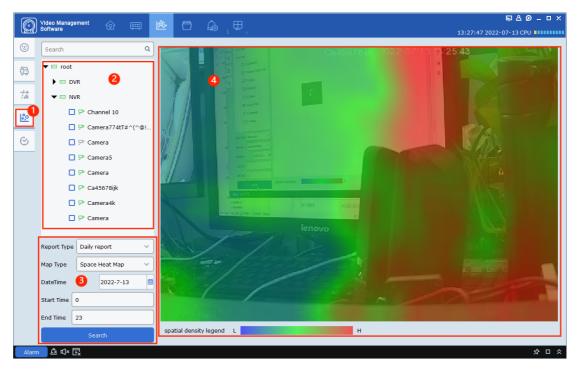
On the Data Analysis page, click the cross counting icon to enter the cross counting page.



| No. | Item                  | Description  |
|-----|-----------------------|--|
| 1   | Cross counting module | Click to enter the cross counting page.  |
| 2   | Device tree           | View device channels.  |
| 3   | Search setting area   | Set the display type, which can be a column chart<br>and line chart. Set the report type, detection type,<br>cross counting type, and time for search. |
| 4   | Result display area   | A column chart, line chart, or table shows the search results.   |

# 13.4.Heat Maps

Heat maps display the activity degree in the camera monitoring area. On the **Data Analysis** page, click the heat map icon to enter the heat map page, as shown in the following figure:



| No. | Item                              | Description   |  |  |  |  |
|-----|-----------------------------------|---|--|--|--|--|
| 1   | Heat map module                   | Click to enter the heat map page.   |  |  |  |  |
| 2   | Device tree View device channels. |   |  |  |  |  |
| 3   | Search setting area               | Set the date, time range, detection type, and<br>display mode for search. The space heat map is<br>displayed in image mode, and the time heat map<br>is displayed in a column chart. The heat degree<br>value is shown. |  |  |  |  |
| 4   | Result display area               | A column chart or image shows the search results.   |  |  |  |  |

#### **13.5.**Face Attendance Statistics

| Nome:         Search           Export         Name:         Search           No         Name         Clock in         End of clocking         Replay           1         lizhiyang_0_0_[q2_f         2022-07-13 08:08:43         0           2         lizhiyang_0_0_[q2_f         2022-07-13 08:08:43         0           3         lizhiyang_0_0_[q2_f         2022-07-13 08:08:44         0           4         lizhiyang_0_0_[q2_f         2022-07-13 08:08:44         0           5         lizhiyang_0_0_[q2_f         2022-07-13 09:13:48         0           6         zhangjinbiao_0_0_[         2022-07-13 09:13:48         0           7         zhangjinbiao_0_0_[         2022-07-13 12:07:12         0           8         zhangjinbiao_0_0_[         2022-07-13 12:07:15         0           9         zhangjinbiao_0_0_[         2022-07-13 12:07:15         0 |     |    | Start Time         | 2022-7-13             | End Time: 2022-7-13 | <b>m</b> |
|--|-----|----|--------------------|-----------------------|---------------------|----------|
| No.         Name         Clock in         End of clocking         Replay           1         lizhiyang_0_0_[g2_f         2022-07-13 08:08:43         1           2         lizhiyang_0_0_[g2_f         2022-07-13 08:08:43         1           3         lizhiyang_0_0_[g2_f         2022-07-13 08:08:44         1           4         lizhiyang_0_0_[g2_f         2022-07-13 08:08:44         1           5         lizhiyang_0_0_[g2_f         2022-07-13 09:13:48         1           6         zhangjinbiao_0_0_[         2022-07-13 09:13:51         4           7         zhangjinbiao_0_0_[         2022-07-13 11:54:14         1           8         zhangjinbiao_0_0_[         2022-07-13 12:07:12         2022-07-13 12:07:15  | Eve |    | Data Sources       | N5316 ~               |                     | Search   |
| 2       iizhiyang_0_0_[62_f       2022-07-13 08:08:40       2022-07-13 08:08:44       I         3       iizhiyang_0_0_[62_f       2022-07-13 08:08:40       2022-07-13 08:08:44       I         4       iizhiyang_0_0_[62_f       2022-07-13 09:13:47       2022-07-13 09:13:48       I         5       iizhiyang_0_0_[62_f       2022-07-13 09:13:48       2022-07-13 09:13:51       I         6       zhangjinbiao_0_0[       2022-07-13 11:54:09       2022-07-13 11:54:14       I         7       zhangjinbiao_0_0[       2022-07-13 12:07:12       2022-07-13 12:07:12       I         8       zhangjinbiao_0_0[       2022-07-13 12:07:12       2022-07-13 12:07:15       I  | _   |    | Name               | Clock in              | End of clocking     | Replay   |
| 3       lizhiyang_0_0[g2_f       2022-07-13 08:08:40       2022-07-13 08:08:44       1         4       lizhiyang_0_0[g2_f       2022-07-13 09:13:47       2022-07-13 09:13:48       1         5       lizhiyang_0_0_0[g2_f       2022-07-13 09:13:48       2022-07-13 09:13:51       1         6       zhangjinbiao_0_0[       2022-07-13 11:54:09       2022-07-13 11:54:14       1         7       zhangjinbiao_0_0[       2022-07-13 12:07:11       2022-07-13 12:07:12       1         8       zhangjinbiao_0_0[       2022-07-13 12:07:12       2022-07-13 12:07:15       1   |     | 1  | lizhiyang_0_0_[g2_ | f 2022-07-13 08:08:40 | 2022-07-13 08:08:43 |          |
| 4       lizhiyang_0_0_[g2_f       2022-07-13 09:13:47       2022-07-13 09:13:48       I         5       lizhiyang_0_0_[g2_f       2022-07-13 09:13:48       I         6       zhangjinbiao_0_0[       2022-07-13 11:54:14       I         7       zhangjinbiao_0_0[       2022-07-13 12:07:11       2022-07-13 12:07:12       I         8       zhangjinbiao_0_0[       2022-07-13 12:07:12       2022-07-13 12:07:15       I  |     | 2  | lizhiyang_0_0_[g2_ | f 2022-07-13 08:08:40 | 2022-07-13 08:08:44 |          |
| 5       lizhiyang_0_0_[g2_f       2022-07-13 09:13:48       2022-07-13 09:13:51       4       1         6       zhangjinbiao_0_0_[       2022-07-13 11:54:19       2022-07-13 11:54:14       1         7       zhangjinbiao_0_0_[       2022-07-13 12:07:11       2022-07-13 12:07:12       1         8       zhangjinbiao_0_0_[       2022-07-13 12:07:12       2022-07-13 12:07:15       1   |     | з  | lizhiyang_0_0_[g2_ | f 2022-07-13 08:08:40 | 2022-07-13 08:08:44 |          |
| a       b       maximum_21       a       a         b       c       zhangjinbiao_0_0_[       2022-07-13 11:54:09       2022-07-13 11:54:14       b         c       7       zhangjinbiao_0_0_[       2022-07-13 12:07:11       2022-07-13 12:07:12       c         c       8       zhangjinbiao_0_0_[       2022-07-13 12:07:12       2022-07-13 12:07:15       c  |     | 4  | lizhiyang_0_0_[g2_ | f 2022-07-13 09:13:47 | 2022-07-13 09:13:48 |          |
| 7       zhangjinbiao_0_0_[       2022-07-13 12:07:11       2022-07-13 12:07:12       1         8       zhangjinbiao_0_0_[       2022-07-13 12:07:12       2022-07-13 12:07:15       1  |     | 5  | lizhiyang_0_0_[g2_ | f 2022-07-13 09:13:48 | 2022-07-13 09:13:51 | 4        |
| 8 zhangjinbiao_0_0[         2022-07-13 12:07:12         2022-07-13 12:07:15  |     | 6  | zhangjinbiao_0_0_  | [ 2022-07-13 11:54:09 | 2022-07-13 11:54:14 |          |
|  |     | 7  | zhangjinbiao_0_0_  | [ 2022-07-13 12:07:11 | 2022-07-13 12:07:12 |          |
| 9 zhangjinbiao_0_0_[ 2022-07-13 12:07:12 2022-07-13 12:07:15   |     | 8  | zhangjinbiao_0_0_  | [ 2022-07-13 12:07:12 | 2022-07-13 12:07:15 |          |
|  |     | 9  | zhangjinbiao_0_0_  | [ 2022-07-13 12:07:12 | 2022-07-13 12:07:15 | •        |
| 10 zhangjinbiao_0_0_[ 2022-07-13 12:07:14 2022-07-13 12:07:15  |     | 10 | zhangjinbiao_0_0_  | [ 2022-07-13 12:07:14 | 2022-07-13 12:07:15 | •        |
| 11 chengxiangqian 2022-07-13 12:08:25 2022-07-13 12:08:31  |     | 11 | chengxiangqian     | 2022-07-13 12:08:25   | 2022-07-13 12:08:31 | D        |

On the **Data Analysis** page, click Sto enter the attendance statistics page.

| No. | Item                         | Description   |
|-----|------------------------------|---|
| 1   | Attendance statistics module | Click to enter the attendance statistics page.                              |
| 2   | Tab                          | Switch between the pages of attendance records and attendance calculations. |
| 3   | Search setting area          | Select a device, and set the start time and end time for search.            |
| 4   | Result display area          | A table shows the search results.   |

Attendance records: Display the attendance start time and end time of everyone every time in the area covered by the device, and the related recording events.

Attendance calculations: Calculate the attendance status of people base on the attendance rules set in attendance management.

# **14.Intelligent Scene**

From the main menu, choose AI Scene to go to the AI scene page.

### 14.1.Cross Counting

On the AI scene page, click in to enter the cross counting scene, as shown in the following figure:

| 🔕 Al Sce | ne               |               |        |         |     | ×                                |
|----------|------------------|---------------|--------|---------|-----|----------------------------------|
| 盘        | □ N7508<br>□ DVR | Channel Group | Search | Setup 2 |     |                                  |
| 69<br>69 |                  |               |        |         |     | )<br>ب                           |
| æ        | 0                |               |        |         |     | 5                                |
|          |                  | +             |        |         | +   | Please Enter                     |
|          |                  |               | 3      |         |     | 0 0 0<br>Inside Enter Exit       |
|          |                  |               |        |         |     | Channel Type 0:00 1:00 2:00 3:00 |
|          |                  |               |        |         |     | 6                                |
|          |                  | +             |        |         | +   | •                                |
|          |                  |               |        |         |     |                                  |
|          |                  |               |        | 4       | e q | 4                                |
|          |                  |               |        |         |     |                                  |

| No. | Item        | Description  |
|-----|-------------|--|
| 1   | Device tree | View and select devices.   |
| 2   | Tab         | Switch among the pages of channel preview, group preview, scene search, and configuration. |

| 3 | Preview area          | Preview channel scene. During preview, you see<br>the total number of people who are involved in<br>the channel, who enter the channel, who leave<br>the channel, and who stay in the channel<br>respectively. If no channels are available, is<br>shown in the center of each window. Click the<br>icon to enter the settings page and add channels.   |
|---|-----------------------|---|
| 4 | Function control area | Click to switch split views. The options are<br>1, 4, 6, 8, and 9. Switch split screen,<br>Click to go to the previous page,Click to<br>go to the next page. Or, enter a page number to<br>go to the page. Click to control whether the<br>number of channels is displayed or not. Select a<br>channel and click , then the channel count is<br>cleared. Click then the counts of all device<br>channels are cleared. |

| 5 | Display area            | View the number and status of the selected channels or groups.<br>Normally, the icon is green if the number of people who stay in does not exceed the limit. The displayed number of allowed people is also green. And you can see <b>Please Enter</b> . However, the icon is red if the number of people who stay in exceeds the limit. The displayed number of allowed people is also red. And you can see <b>Please Wait</b> .<br>In the display area, you can click to turn the area into full screen mode. If the display of advertisements is not set, the display area is in full screen mode. Otherwise, the advertisements are played in turn. In this case, all numbers, icons, and text in the display area are shown on the right side of the screen, so you can view the specific numbers regarding the channel in real time.<br>To exit full screen mode, right-click to exit. And, you return back to the original window. |
|---|-------------------------|---|
| 6 | Statistics display area | View the number of people who enter, leave, and stay in respectively in each hour within one day. If a number is 0, it is shown as $-$ .  |

Click the **Group** tab to enter the group preview. The group preview is different from the channel preview. For channel preview, you can set the parameters of each channel. For group preview, you can only set the parameters of the whole group, and each channel only shows the number of people who enter and leave respectively. The group preview can be shown in map mode.

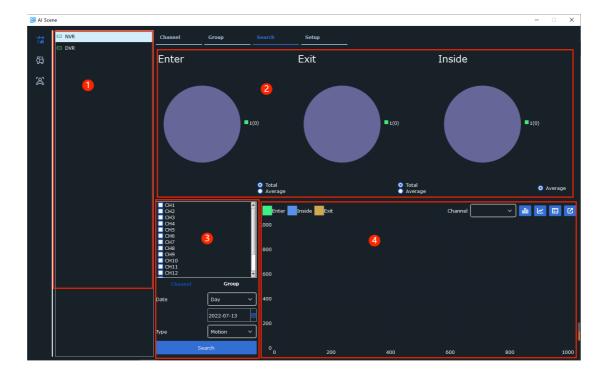
| S Al Scene   |           |                    |             |       |          |   |                                |                   |                          | -    | □ ×  |
|--------------|-----------|--------------------|-------------|-------|----------|---|--------------------------------|-------------------|--------------------------|------|------|
| ₩ N7508      | Channel G | roup Se            | earch       | Setup |          |   |                                |                   |                          |      |      |
| 은 DVR<br>(규) | Group     | <u> </u>           | Select Mode | Live  | Мар      | ( | Group1                         |                   |                          |      | Þ    |
| ¥            |           | +                  | 2           |       | +        |   | 0<br>Inside                    | ) <sup>Plea</sup> | 10<br><sup>Availab</sup> |      | ۲    |
|              |           |                    |             |       |          |   | Group Type                     | 0:00              | 1:00                     | 2:00 | 3:00 |
|              |           |                    |             |       |          |   | Enter<br>Group1 Exit<br>Inside |                   |                          |      | •    |
|              |           | +                  |             |       | +        |   | Enter<br>Group2 Exit           |                   |                          |      | -    |
|              |           |                    |             |       |          |   | Inside                         |                   |                          |      | -    |
|              |           |                    |             |       |          |   | Enter<br>Group3 Exit           |                   |                          |      |      |
|              |           |                    |             |       |          |   | Inside                         |                   |                          |      |      |
|              | _         | _                  |             |       |          |   | Enter<br>Group4 Exit           |                   |                          |      |      |
|              | ⊞• ← 1    | $/1 \rightarrow 0$ | lla<br>I    |       | <b>≜</b> |   |                                |                   |                          |      |      |

Select Mode Live Map Set Select Mode to switch between modes. Live means the preview mode. Map means the map mode. Preview mode is the default one.

Click Map to enter map mode, as shown in the following figure:

| 🔕 Al Sce | ne  |                |             |        |     |        |             |   | -   | ×    |
|----------|-----|----------------|-------------|--------|-----|--------|-------------|---|---|------|
| 盐        | DVR | Channel Group  | Search      | Setup  |     |        |             |   |   |      |
| የቅ       |     | Group Group1 V | Select Mode | e Live | Мар | Grou   | ıp1         |   |   | (C)  |
| æ        |     |                |             |        |     |        |             |   |   |      |
| A        |     |                | »           |        |     | Group  | 0<br>Inside | Please<br>10<br>Availat<br>0<br>Erec<br>2<br>3<br>4<br>5<br>5<br>6<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | Ente<br>0<br>2:00<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 3:00 |
|          |     |                |             |        |     |        | Enter       |   |   |      |
|          |     |                |             |        |     | Group4 | Exit        | • •   | -   |      |

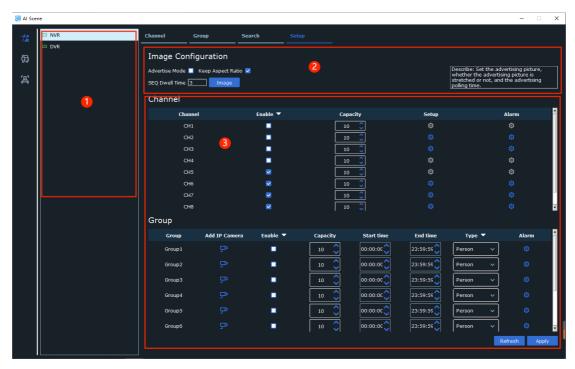
Click I to add a map, click I to modify the map, and click i to enter full screen mode. Click the **Search** tab to go to the cross counting page, as shown in the following figure:



| No. | Item                | Description  |  |
|-----|---------------------|--|--|
| 1   | Device list         | View the devices that support the cross counting scene.  |  |
| 2   | Search display area | Pie charts show the total number and average<br>number of people who enter, leave, and stay in<br>respectively within a time period for each channel<br>or group. Click Total<br>or group. Click Total<br>to toggle between the<br>total and average number of people. |  |
| 3   | Search setting area | Set the channel or group, date, time period, and type for search.  |  |

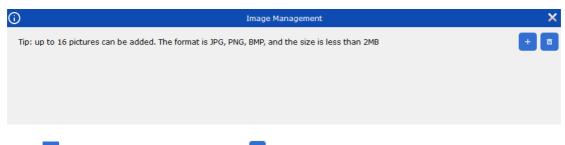
|   |                     | A column chart, line chart, or table shows the trend of the number of people who enter and leave.  |
|---|---------------------|--|
| 4 | Result display area | channel v d le E C From the drop-<br>down list, you can switch the channel or group.<br>The three buttons are used to switch among the<br>column chart, line chart, and table. |
|   |                     | Click the export button to export data.  |

On the **AI scene** page, choose **Setup** to enter the cross counting scene configuration page, as shown in the following figure:



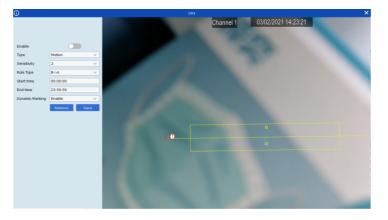
| No. | Item                            | Description  |  |  |
|-----|---------------------------------|--|--|--|
| 1   | Device list                     | View the devices that support the cross counting scene.  |  |  |
| 2   | Advertisement configuration     | <ul><li>Advertise Mode: Whether in advertising mode.</li><li>Keep Aspect Ratio: Whether to keep the aspect ratio.</li><li>SEQ Dwell Time: Indicates the polling time.</li><li>Image button: Enter image management to add and delete advertisement images.</li></ul>   |  |  |
| 3   | Channel and group configuration | Channel configuration:<br>One data item for one channel of a device.<br>Channel: channel number; Enable: display or not;<br>Capacity: Set the limit for the number of people<br>who can enter and stay in. Setup: Set cross<br>counting parameters. See Figure 15-7. Alarm: Set<br>alarm output parameters. See Figure 15-8.<br>Group configuration:<br>A group can contain up to eight groups. Group:<br>group number. Add IP Camera: Click set to<br>configure group channels. Enable: display or not;<br>Capacity: Set the limit for the number of people<br>who can enter and stay in. Start time and End<br>time: Set the start time and end time. Type: Set<br>the detection type, which can be human or<br>vehicle. Alarm: Set alarm output parameters. |  |  |

Add and delete alarm images, as shown in the following figure:



Click  $\stackrel{\bullet}{=}$  to add local images, and click  $\stackrel{\bullet}{=}$  to delete images. Up to 16 polling advertisement images can be added, and each image size cannot exceed 2 MB.

Configure cross counting channels, as shown in the following figure:



Set alarm output parameters, as shown in the following figure:

| (i) |                     | Group1 🗙  |
|-----|---------------------|---|
|     | Buzzer<br>Alarm Out | Disable V   |
|     | Latch Time          | <ul> <li>Local-&gt;1</li> <li>IP_CH8-&gt;1</li> <li>IP_CH5-&gt;1</li> <li>IP_CH6-&gt;1</li> <li>IP_CH4-&gt;1</li> <li>IP_CH2-&gt;1</li> <li>IP_CH1-&gt;1</li> </ul> |

Buzzer: Whether to enable the buzzer.

Alarm Out: alarm output. Local->1: local alarm output; IP\_CH1->1: front-end alarm output.

Latch Time: Duration:

Note: If a channel is selected for a group, the channel on the channel configuration list appears gray and cannot be enabled. Likewise, if a channel is selected on the channel configuration list, then the channel cannot be selected for a group. Also, the same channel cannot exist in two groups simultaneously.

# 14.2.Hybrid Detection

On the AI scene page, click 📰 to enter the hybrid detection scene, as shown in the following figure:

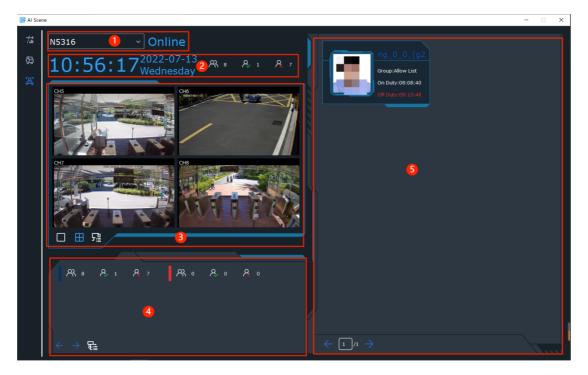


Each part is described in the following table:

| No. | b. Item Description                        |  |  |  |
|-----|--|--|--|--|
| 1   | Device name and status                     | In the drop-down list, you can switch devices.<br>Online: the device is online; Offline: the device is offline.  |  |  |
| 2   | Time, statistics duration setting          | View the current time, and set the statistics duration for the hybrid detection type.  |  |  |
| 3   | Capture statistics and control area        | View the detection types and accumulated capture<br>data of the selected device in the specified<br>duration.  |  |  |
|     | display                                    | Click a type to control whether to hide or show the corresponding display area.  |  |  |
| 4   | Preview area                               | Live view window. Click to switch to a single<br>channel preview, and click to switch to a four-<br>channel preview. Click continuously to switch<br>preview channels. Click to select the preview<br>channels you need. |  |  |
| 5   | Vehicle capture display area               | View the captured vehicle images, capture time, and channel in real time.  |  |  |
| 6   | Non-motorized vehicle capture display area | View the captured non-motorized vehicle images, capture time, and channel in real time.  |  |  |
| 7   | Face capture display area                  | View the captured face images, capture time, and channel in real time.   |  |  |
| 8   | Passerby capture display area              | View the captured passerby images, capture time, and channel in real time.   |  |  |

# 14.3.Face Attendance

On the AI scene page, click is to enter the face attendance scene, as shown in the following figure:



Each part is described in the following table:

| No. | Item                            | Description   |  |  |
|-----|---------------------------------|---|--|--|
| 1   | Device name and status          | Right-click to switch devices. When the device is online, <b>Online</b> in blue is shown. When the device is offline, <b>Offline</b> in red is shown. |  |  |
| 2   | Time, total number display area | View the current time, and the total number of<br>people who should attend, who have attended,<br>and who have not attended respectively.             |  |  |

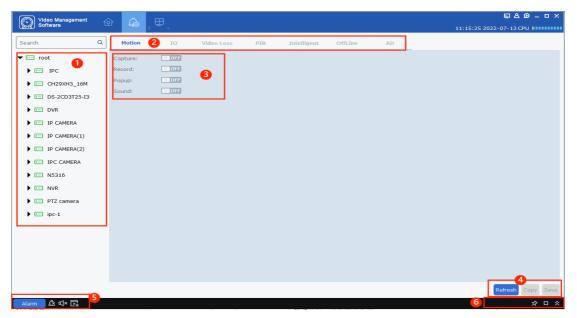
| 3 | Preview area                        | Select a channel in view preview. Click to<br>switch to a single channel preview. Click to<br>switch to a four-channel preview, and click in<br>again to switch pages. Click to open the<br>channel selection window and select the preview<br>channels you need.                                 |  |  |
|---|-------------------------------------|---|--|--|
| 4 | Group attendance statistics area    | View the number of people who should attend,<br>who have attended, and who have not attended<br>respectively in each face group on that day. Click<br>to switch pages, and click to select<br>a group for statistics.   |  |  |
| 5 | Attendance information display area | <ul> <li>View the information and attendance time of people who have attended.</li> <li>When the attendance time is marked white, the attendance is normal.</li> <li>When the attendance time is marked red, the attendance is abnormal.</li> <li>Click &lt; 1 /1 &gt; to switch pages</li> </ul> |  |  |

# **15.Alarm Settings**

On the alarm settings page, you can set and switch on or off channel alarms.

### **15.1.Alarm Interface Introduction**

From the main menu, choose **Alarm Config** to go to the alarm settings page, as shown in the following figure:



The functions on the page are described in the following table:

| No. | Parameter                 | Description   |  |  |  |
|-----|---------------------------|---|--|--|--|
| 1   | Device list               | Open a device group and select a channel.   |  |  |  |
| 2   | Alarm type                | <ul> <li>The alarm type, with the following options:</li> <li>Motion</li> <li>I/O</li> <li>Video Loss</li> <li>PIR</li> <li>Intelligent</li> <li>Offline</li> </ul> |  |  |  |
| 3   | Alarm triggered operation | <ul> <li>The triggered operation, with the following options:</li> <li>Capture</li> <li>Record</li> <li>Popup</li> <li>Sound</li> </ul>                             |  |  |  |
| 4   | Copy and save             | Click <b>Copy</b> to copy the alarm triggered operations of the channel to another channel or device. Click <b>Save</b> to save the settings.                       |  |  |  |

| 5 | Alarm Trigger<br>Window, Pop-<br>Up, And Sound    | Click $\square$ to open the alarm trigger pop-up, and click $\square$ to delete<br>the alarms in the alarm trigger pop-up. Click $\square$ to enable the alarm<br>sound, and click $\square$ to disable the alarm sound. Click $\square$ to allow<br>the alarm pop-up, and click $\square$ to deny the alarm pop-up. |
|---|---|--|
| 6 | Alarm<br>thumbnail and<br>alarm trigger<br>window | Click A, namely Enable/disable auto hide, to choose whether to hide<br>the alarm thumbnail in the preview area. Click I to zoom in the<br>alarm trigger pop-up. Click I to expand or collapse the alarm<br>trigger pop-up.   |

#### **15.2.Alarm Setting Operations**

Step 1: Select a device in the device list, and select a channel of the device.

Step 2: Select an alarm type.

Step 3: Switch on the alarm button under the alarm type, and select the options you need.

Step 4: Click Save.

**Step 5:** To apply the same alarm settings to another channel or device, click **Copy** and select the target channel on the displayed menu. Click **Confirm** to save the settings. (**Note**: The copy function takes effect only after you have saved the alarm trigger operations for a channel.)

### 15.3.Alarm Trigger Window, Pop-Up, And Sound

Click Alarm in the lower left corner to open the alarm trigger window, as shown in the following figure:

|                        | l× Ēx                              |                     |                |            | D 公       |
|------------------------|------------------------------------|---------------------|----------------|------------|-----------|
| Alarm time             |                                    |                     |                |            |           |
| 2022-08-02<br>09:16:50 | 172.16.16.106 二号岗斜角16.102          | Motion detection    | Motion begin   | No capture | No record |
| 2022-08-02<br>09:16:50 | 172.16.16.106 339G_IMX415          | Motion detection    | Motion begin   | No capture | No record |
| 2022-08-02<br>09:16:49 | IP CAMERA(2) Channel 10            | I/O                 | IO alarm begin | No capture | No record |
| 2022-08-02<br>09:16:49 | 172.16.16.106 快递柜车棚16.105          | Motion detection    | Motion begin   | No capture | No record |
| 2022-08-02             |                                    |                     |                |            |           |
| Motion detect          | ion 🔽 Video exception 🔽 PIR 🔽 Alar | m I/O 🔽 Intelligent |                |            |           |

• In the alarm trigger window, you find:

Alarm time, Alarm source, Alarm type, Information, Alarm capture, and Alarm record.

Select an alarm type in  $\bigcirc$  Motion detection  $\bigcirc$  Video exception  $\bigcirc$  PIR  $\bigcirc$  Alarm I/O  $\bigcirc$  Intelligent. Click an image or screenshot to view the details.

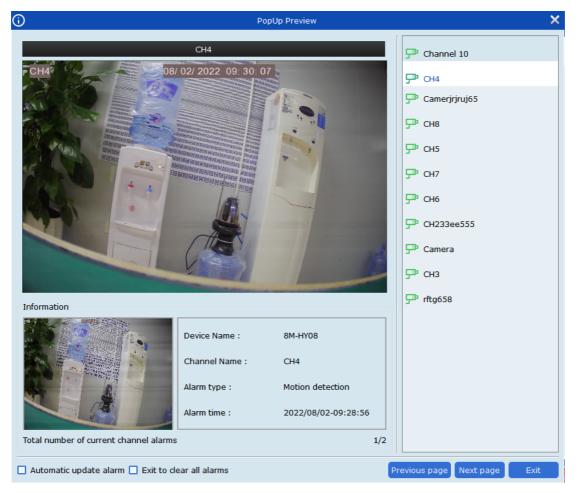
Click **I** to zoom in the alarm information window, as shown in the following figure:

•

•

| 022-08-02<br>9:21:01   | 8M-HY08 Camerjrjruj65               | Motion detection  | Motion begin                          | Capture failed | 30_6_Camerjrjruj65_20220802092101.mp4 |
|------------------------|-------------------------------------|-------------------|---------------------------------------|----------------|---------------------------------------|
| 022-08-02<br>9:20:58   | 172.16.16.106 339G去光敏程序测试<br>16.104 | Intelligent alarm | FD alarm start                        | No capture     | No record                             |
| 022-08-02<br>9:21:00   | CH29XH3_16M rftg658                 | Sound Alarm       | Sound alarm start                     | No capture     | No record                             |
| 022-08-02<br>9:20:58   | 172.16.16.106 二号岗斜角16.102           | Motion detection  | Motion begin                          | No capture     | No record                             |
| 022-08-02              | 172.16.16.106 RS-CH852H7C33-AP      | Intelligent alarm | PD alarm end                          | No capture     | No record                             |
| 022-08-02              | CH29XH3_16M rftg658                 | Sound Alarm       | Sound alarm end                       | No capture     | No record                             |
| 2022-08-02             | N7508 RS-CH852H7C33-AP              | Intelligent alarm | End of human and<br>vehicle detection | No capture     | No record                             |
| 2022-08-02             | CH29XH3_16M rftg658                 | Motion detection  | Motion begin                          | No capture     | No record                             |
| 2022-08-02<br>09:20:54 | 172.16.16.106 1F-16.151500W         | Motion detection  | Motion begin                          | No capture     | No record                             |
| 022-08-02              | 172.16.16.106 339G_IMX415           | Motion detection  | Motion end                            | No capture     | No record                             |
| 022-08-02<br>19:20:54  | 172.16.16.106 339G去光嶽程序测试<br>16.104 | Motion detection  | Motion end                            | No capture     | No record                             |
| 2022-08-02<br>09:20:54 | 172.16.16.106 1F-16.103200W         | Motion detection  | Motion end                            | No capture     | No record                             |
| 2022-08-02<br>09:20:54 | 172.16.16.106 1F-16.101200W         | Motion detection  | Motion end                            | No capture     | No record                             |
| 2022-08-02<br>09:20:52 | CH29XH3_16M rftg658                 | Motion detection  | Motion end                            | No capture     | No record                             |
| 2022-08-02<br>09:20:43 | 172.16.16.106 二号岗斜角16.102           | Motion detection  | Motion end                            | No capture     | No record                             |
| 2022-08-02             | 8M-HY08 CH233ee555                  | Motion detection  | Motion begin                          | 22_7_CH233ee5  | 22_6_CH233ee555_20220802092045.mp4    |
| 2022-08-02             | 8M-HY08 CH3                         | Motion detection  | Motion begin                          | 23_7_CH3_2022  | 23_6_CH3_20220802092045.mp4           |
| 2022-08-02             | 8M-HY08 CH4                         | Motion detection  | Motion begin                          | 24_7_CH4_2022  | 24_6_CH4_20220802092045.mp4           |
| 2022-08-02             | 8M-HY08 CH5                         | Motion detection  | Motion begin                          | 25_7_CH5_2022  | 25_6_CH5_20220802092045.mp4           |
| 022-08-02              | 8M-HY08 CH6                         | Motion detection  | Motion begin                          | 26_7_CH6_2022  | 26_6_CH6_20220802092045.mp4           |
| 2022-08-02             |                                     | Motion dotoction  | Motion bogin                          | 27 7 CH7 2022  | 27 6 CH7 202200202045 mp4             |

The device channels with alarm trigger operations are displayed, so you can view the alarms in real time, as shown in the following figure:



Automatic update alarm: If selected, the alarm channel is shown automatically on VMS Pro when a new alarm is triggered.

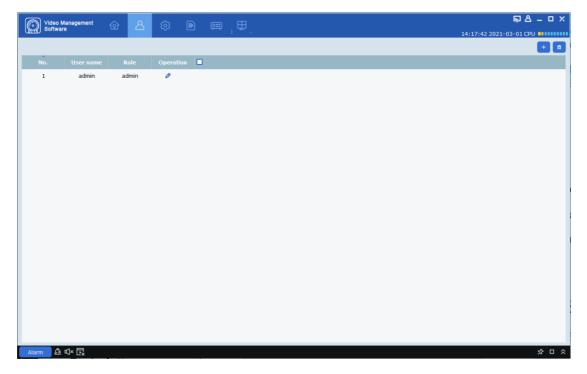
Exit to clear all alarms: If selected, all channel alarms are cleared after you exit the alarm page.

# **16.Account Management**

Add and delete users, and modify user permissions on the account management page.

## 16.1.Adding Users

**Step 1:** From the main menu, choose **Account Management** to enter the account management page, as shown in the following figure:



**Step 2:** Click <sup>+</sup> in the upper right corner. A dialog box is displayed, as shown in the following figure:

| <b>(</b> )   |                  | Add User   | ×    |
|--|------------------|--|------|
|  | Role             | operator   |      |
|  | User Name        |  |      |
|  | Password         |  |      |
|  | Confirm Password |  |      |
| Base Rights Select All Device Manage E-map Manage AI Search AI Config Channel Rights                               | ement 🗹 Attend   | ance management 🗹 Topolo   |      |
| Live View<br>PTZ Control<br>Capture<br>Record<br>Playback<br>Download Record<br>Local Record Sche<br>LocalPlayBack |                  | <ul> <li>root</li> <li< td=""><td>_16M</td></li<></ul> | _16M |
|  |                  |  | ок   |

The parameters are described in the following table:

| Description  |  |  |  |  |  |
|--|--|--|--|--|--|
| The only identifier of a user. The username is unique.               |  |  |  |  |  |
| The user password and password confirmation. The                     |  |  |  |  |  |
| passwords must be consistent.  |  |  |  |  |  |
| Set basic user permissions as needed. The permissions involve:       |  |  |  |  |  |
| Device Management: Device Management                                 |  |  |  |  |  |
| Log Management: Log Management                                       |  |  |  |  |  |
| Alarm Config Management: Alarm configuration management              |  |  |  |  |  |
| E-map Management: Electronic map management                          |  |  |  |  |  |
| Attendance Management: Attendance Management                         |  |  |  |  |  |
| Topology Management: Topology Management                             |  |  |  |  |  |
| AI search: Intelligent search; Data analysis: Data Analysis          |  |  |  |  |  |
| AI Scene: Intelligent scene; AI config: Intelligent<br>Configuration |  |  |  |  |  |
|  |  |  |  |  |  |

**Step 3:** Set channel permissions as needed. Select channels on the right for each permission. The parameters are described in the following table:

| Parameter             | Description          |
|-----------------------|----------------------|
| Live View             | Real-time Preview    |
| PTZ Control           | PTZ Control          |
| Capture               | Capture              |
| Record                | Recording            |
| Playback              | Playback             |
| Download Record       | Export a recording   |
| Local Record Schedule | Local recording plan |
| LocalPlayBack         | Local Playback       |

Step 4: After settings, click **OK** to add the user. To restore default permissions, click **Default** before you click **OK**.

**Note:** The administrator has all rights. The rights cannot be modified or deleted. The permissions for the added users can be modified, and the users can be deleted.

## **16.2.Modifying Users**

| <u>(</u> )   |  | Add User                 | ×                   |
|--|--|--------------------------|---------------------|
|  | Role                                     | operator                 |                     |
|  | User Name                                | abc123                   |                     |
|  | Password                                 | •••••                    |                     |
|  | Confirm Password                         | •••••                    |                     |
| Base Rights<br>Select All<br>Device Manage<br>E-map Manage<br>AI Search<br>AI Config<br>Channel Rights<br>Live View<br>PTZ Control<br>Capture<br>Record<br>Playback<br>Download Record<br>Local Record Sche<br>LocalPlayBack | ement 🗹 Attenda<br>🗹 Data Ar<br>🗹 Change | ance management 🗹 Topolo | ne<br>5.106<br>j333 |
|  |  | Default                  | ок                  |

**Step 1:** Click *P* next to the user you want to modify.

Step 2: On the page that appears, modify the user permissions, username, and password as needed.

Step 3: Click OK to save the modification.

# **16.3.Deleting Users**

Click in next to the user you want to delete. A dialog box is displayed. Click **OK**. Alternatively, click the checkbox of multiple users you want to delete, and click in the upper right corner of the page to delete the users. Note that the super user cannot be deleted.

# 17.Local recording plan

This chapter describes how to configure local recording plans.

**Step 1:** From the main menu, choose **Local Record** to enter the recording plan path selection page, as shown in the following figure:

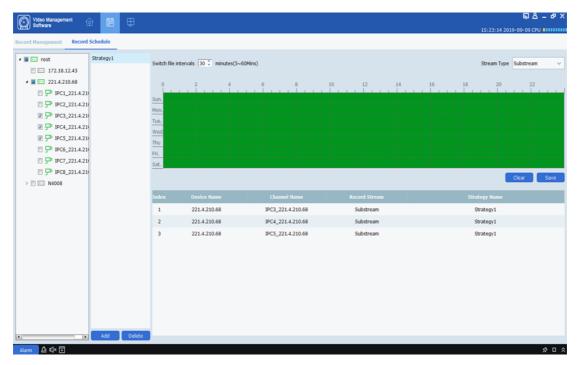
| <b>i</b> | Select Path |                     |                   |                |               | ×                 |                       |
|----------|-------------|---------------------|-------------------|----------------|---------------|-------------------|-----------------------|
|          |             |                     |                   |                |               |                   | Overwrite Auto 🗸 Save |
|          | Index       | Video Save Path     | Modify Video Path | Total Size(GB) | Free Size(GB) | Reserved Size(GB) | Disk Status           |
|          | 1           | C:/localRecordFile/ | 0                 | 84.999         | 28.793        | 3.000             |                       |
|          | 2           | D:/localRecordFile/ | 0                 | 120.007        | 35.985        | 3.000             |                       |
|          | 3           | E:/localRecordFile/ | 0                 | 80.010         | 61.332        | 3.000             |                       |
|          | 4           | F:/localRecordFile/ | 0                 | 180.739        | 96.919        | 3.000             |                       |
|          |             |                     |                   |                |               |                   |                       |
|          |             |                     |                   |                |               |                   |                       |
|          |             |                     |                   |                |               |                   |                       |
|          |             |                     |                   |                |               |                   |                       |

Step 2: Select a path and click Save. The local recording plan page is displayed, as shown in the following figure:

| tecor | d Man | agement Record      | Schedule          |               |             |       |                      |
|-------|-------|---------------------|-------------------|---------------|-------------|-------|----------------------|
|       |       |                     |                   |               |             |       | Overwrite Auto 🗸 Sav |
| 0 1   | dex   | Video Save Path     | Modify Video Path |               |             |       |                      |
| 1     | 1     | C:/localRecordFile/ | 0                 | 84.999        | 28.785      | 3.000 |                      |
|       | 2     | D:/localRecordFile/ | 0                 | 120.007       | 35.985      | 3.000 |                      |
| 1     | 3     | E:/localRecordFile/ | 0                 | 80.010        | 61.332      | 3.000 |                      |
|       | 4     | F:/localRecordFile/ | ø                 | 180.739       | 96.919      | 3.000 |                      |
| b     | ıdex  | Device Name         | Channel Name      | Record Stream | Record Stat | tus   | Strategy Name        |
|       |       |                     |                   |               |             |       |                      |
|       |       |                     |                   |               |             |       |                      |
|       |       |                     |                   |               |             |       |                      |
|       |       |                     |                   |               |             |       |                      |
|       |       |                     |                   |               |             |       |                      |
|       |       |                     |                   |               |             |       |                      |
|       |       |                     |                   |               |             |       |                      |
|       |       |                     |                   |               |             |       |                      |

Step 3: Double-click the area to set Reserved Size (GB), click Overwrite in the upper right corner to overwrite the time, and click Save.

**Step 4:** Click **Record Schedule** to enter the recording plan settings page. In the device tree, select a device you need. Click and hold the left mouse button, and drag to set the specific record time in the grid area, and click **Save**, as shown in the following figure:



**Step 5:** After settings, go back to the **Record Management** page, select the checkbox of the device channel you need or select all channels, and click **Start Record** in the lower right corner to start recording. After recording starts, **Writing** appears in the **Disk Status** column, and **recording** appears in the **Record Status** column on the record management page, which means the disk is recording locally, as shown in the following figure:

| C    |         | o Management        |                   |                |               |                   | 토 A _ & ×                         |
|------|---------|---------------------|-------------------|----------------|---------------|-------------------|-----------------------------------|
|      |         |                     |                   |                |               |                   | 15:28:39 2019-09-09 CPU           |
| Reco | ord Man | agement Record      | Schedule          |                |               |                   |                                   |
|      | Indox   | Video Save Path     | Modify Video Path | Total Size(GB) | Free Size(GB) | Reserved Size(GB) | Overwrite Auto v Save Disk Status |
|      | 1       | C:/localRecordFile/ |                   | 84.999         | 28.735        | 3.000             | Disk Status                       |
|      | 2       | D:/localRecordFile/ | 0                 | 120.007        | 35.985        | 3.000             |                                   |
|      | 3       | E:/localRecordFile/ | 0                 | 80.010         | 61.332        | 3.000             |                                   |
|      | 4       | F:/localRecordFile/ | 0                 | 180.739        | 96.861        | 3.000             | Writing                           |
|      |         |                     |                   |                |               |                   |                                   |
|      | Index   | Device Name         | Channel Name      | Record Stream  | Record Status |                   | Strategy Name                     |
|      | 1       | 221.4.210.68        | IPC3_221.4.210.68 | Substream      | recording     |                   | Strategy1                         |
|      | 2       | 221.4.210.68        | IPC4_221.4.210.68 | Substream      | recording     |                   | Strategy1                         |
|      | 3       | 221.4.210.68        | IPC5_221.4.210.68 | Substream      | recording     |                   | Strategyl                         |
|      |         |                     |                   |                |               |                   | Start Record Stop Record          |
| Ali  | arm .   | ů ⊄× ⊡              |                   |                |               |                   | × • ×                             |

**Step 6:** Click **Stop Record** in the lower right corner to stop local recording. Then **Writing** disappears from the **Disk Status** column, and **Recording Stop** appears in the **Record Status** column on the recording management page, as shown in the following figure:

|       |                     |                   |               |                |       | Overwrite Auto 🗸 📄 |
|-------|---------------------|-------------------|---------------|----------------|-------|--------------------|
| Index |                     |                   |               |                |       |                    |
| 1     | C:/localRecordFile/ | 0                 | 84.999        | 28.733         | 3.000 |                    |
| 2     | D:/localRecordFile/ | 0                 | 120.007       | 35.985         | 3.000 |                    |
| 3     | E:/localRecordFile/ | 0                 | 80.010        | 61.332         | 3.000 |                    |
| 4     | F:/localRecordFile/ | 0                 | 180.739       | 96.846         | 3.000 |                    |
| Index |                     | Channel Name      | Record Stream | Record Status  |       | Strategy Name      |
| 1     | 221.4.210.68        | IPC3_221.4.210.68 | Substream     | Recording Stop |       | Strategy1          |
| 2     | 221.4.210.68        | IPC4_221.4.210.68 | Substream     | Recording Stop |       | Strategy1          |
| 3     | 221.4.210.68        | IPC5_221.4.210.68 | Substream     | Recording Stop |       | Strategy1          |
|       |                     |                   |               |                |       |                    |
|       |                     |                   |               |                |       |                    |
|       |                     |                   |               |                |       |                    |
|       |                     |                   |               |                |       |                    |
| 3     | 221.4.210.68        | IPC5_221.4.210.68 | Substream     | Recording Stop |       | Strategy1          |

**Step 7:** From the main menu, choose **Local Playback** to go to the local playback page. Select the channel, and find that the calendar marks the date with local recordings, as shown in the following figure:

| Video Management  Software     | ு         | Ē                | 1              |          |          |          |          |          |       |     |       |       |       |            |             |            | ⊇&ø_ □ ×    |
|--------------------------------|-----------|------------------|----------------|----------|----------|----------|----------|----------|-------|-----|-------|-------|-------|------------|-------------|------------|-------------|
| Software                       |           |                  | J              |          |          |          |          |          |       |     |       |       |       |            | 10:15:4     | 1 2022-08  | 8-02 CPU    |
| Search Q                       | Window    | 1                |                |          |          | 00       | 00-00-00 | 00:00:00 |       |     | Windo | w 2   |       | 000        | 0-00-00 00: | :00:00     |             |
| Current Device Delete Device   |           |                  |                |          |          |          |          |          |       |     |       |       |       |            |             |            |             |
| CH29XH3_16M                    |           |                  |                |          |          |          |          |          |       |     |       |       |       |            |             |            |             |
| IP CAMERA                      |           |                  |                |          |          |          |          |          |       |     |       |       |       |            |             |            |             |
| IP CAMERA(1)                   |           |                  |                |          |          |          |          |          |       |     |       |       |       |            |             |            |             |
| IP CAMERA(2)                   |           |                  |                |          |          |          |          |          |       |     |       |       |       |            |             |            |             |
| ▼ N7508                        |           |                  |                |          |          |          |          |          |       |     | _     |       |       |            |             |            |             |
| Channel 10                     | <         |                  | Aug            |          | 2022     |          | >        | 00:00:00 |       |     | Windo | w 4   |       |            |             |            |             |
| ☑ 🖵 Camera774tT#               |           | м                | т              |          | т        | F        |          |          |       |     |       |       |       |            |             |            |             |
| 🗹 🖵 Camera                     | 31        | 1                | 2              | 3        | 4        | 5        | 6        |          |       |     |       |       |       |            |             |            |             |
| ☑ 💬 Camera5                    | 14        | 8<br>15          | 9<br>16        | 10<br>17 | 11<br>18 | 12<br>19 | 13<br>20 |          |       |     |       |       |       |            |             |            |             |
| 🗖 🖵 rftg658                    | 21        | 22               | 23             | 24       | 25       | 26       | 27       |          |       |     |       |       |       |            |             |            |             |
| 🗖 🖵 Camera                     | 28<br>4   | <b>29</b><br>5   | <b>30</b><br>6 | 31<br>7  | 1        | 2<br>9   | 3<br>10  |          |       |     |       |       |       |            |             |            |             |
| 🗖 💬 Came123                    | 4         | 5                | 0              | 1        | 8        | 9        | 10       |          |       |     |       |       |       |            |             |            |             |
| □ 🖵 RS-CH852H7C 🖕              | Start Tir | me               |                |          |          |          | ^        |          |       | сĺ× |       | e     | e     | $\bigcirc$ |             | ⊞∙         | 5-0         |
| Record type                    | 00:00:    | 00               |                |          |          |          |          |          | N     | Щ×  |       | G     | G     | $\bigcirc$ |             | <b>•••</b> | 臼           |
| All × >>                       | End Tim   | ie               |                |          |          |          |          |          |       |     |       |       |       |            |             |            |             |
| Time                           | 23:59:    | 59               |                |          |          |          | \$       | 06:00    | 08:00 |     |       | 14:00 | 16:00 | 18:00      |             |            | 00:00 > + - |
| 2022-08-02 00:00:00 23:59:59 🔳 |           | dow 02<br>dow 03 |                |          |          |          |          |          |       |     |       |       |       |            |             |            |             |
| Search                         | Wind      | dow 04           |                |          |          |          |          |          |       |     |       |       |       |            | A           | De         | vice alarm  |
| Alarm 🖄 🕼 🕞                    |           |                  |                |          |          |          |          |          |       |     |       |       |       |            |             |            | * 🗆 🛠       |

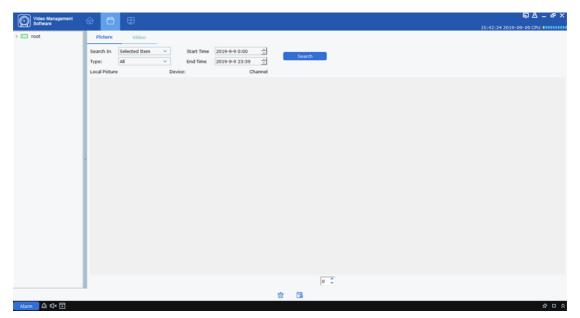
Step 8: For detailed operations about local playback, see Chapter 8 "Local Playback".

## **18.File Management**

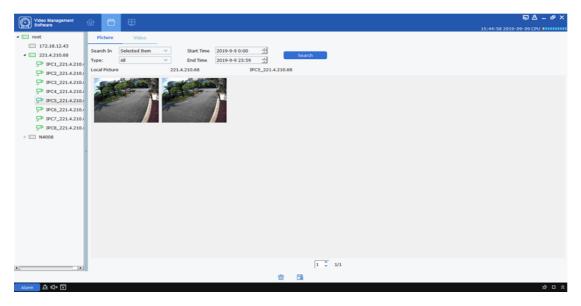
View and play back local recordings and images. The recordings and images include those recordings and captures in preview.

## **18.1.Playing Back and Exporting Local Images**

**Step 1:** From the main menu, choose **File Management** to go to the file management page, as shown in the following figure:



**Step 2:** In device groups on the left, select the desired device channel, set the date and time, and click **Search** to search for images. The search results are displayed, as shown in the following figure:



Step 3: Double-click the image you want to view.

Note: Right-click the image and select Show in Explorer , then the folder that stores the image is

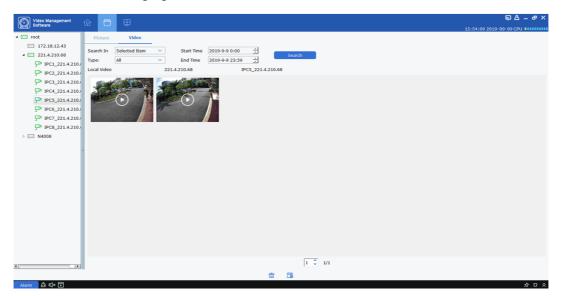
displayed. Right-click to select <sup>Deleted File</sup> to delete the image. The function is the same as i

at the bottom of the page. Right-click to select Copy File to export the image to another directory. The function is the same as at the bottom of the page.

## **18.2.**Playing Back and Exporting Local Recordings

Step 1: From the main menu, choose File Management to go to the file management page. Then click Video to switch to the video page.

**Step 2:** In device groups on the left, select the desired device channel, set the date and time, and click **Search** to search for recordings. Recordings are displayed if they exist in the specified date, as shown in the following figure:



**Step 3:** Double-click the local recording you want to play back, then the recording starts playing, as shown in the following figure:



Note: Right-click the recording image and select Show in Explorer, the folder that stores the recording is displayed. Right-click to select Deleted File to delete the recording. The function is the same as at the bottom of the page. Right-click to select Copy File to export the

recording to another directory. The function is the same as  $\square$  at the bottom of the page.

# **19.System Configuration**

Set the software system parameters, which involves general settings and file settings.

**Step 1:** From the main menu, choose **System Config** to go to the system configuration page, as shown in the following figure:

| Configure some general parameters.   (c.g. view scale, language selection, etc.)     Default     Save  | Video Management 🔗                    |                      |         | ⊑20□×            |
|--|---------------------------------------|----------------------|---------|------------------|
| Language: English<br>Keep System Logs for: One month<br>Enable Auto-Jogin<br>Resume Live View Status<br>Configure some general parameters.<br>(e.g. view scale, language selection, etc.)<br>Default Save  | Software 🖾                            |                      | 14:21:- | 9 2022-07-13 CPU |
| Keep System Logs for:       One month v         Enable Auto-login       Resume Live View Status         Resume Live View Status       View Status         Configure some general parameters.<br>(e.g. view scale, language selection, etc.)       Zare | General                               | File config Hot Keys |         |                  |
| Configure some general parameters. (e.g. view scale, Janguage selection, etc.)   | Language:                             | English ~            |         |                  |
| Resume Live View Status          Configure some general parameters.         (e.g. view scale, language selection, etc.)         Default       Save   | Keep System Logs for:                 | One month v          |         |                  |
| Resume Live View Status          Configure some general parameters.         (e.g. view scale, language selection, etc.)         Default       Save   |                                       |                      |         |                  |
| Resume Live View Status          Configure some general parameters.         (e.g. view scale, language selection, etc.)         Default       Save   | Enable Auto-login                     |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| (e.g. view scale, language selection, etc.) Default Save   |                                       |                      |         |                  |
| Default Save   |                                       |                      |         |                  |
|  | (e.g. view scale, language selection, | ett.)                |         | )                |
|  |                                       |                      | Default |                  |

| Parameter   |                                      | Description  |  |  |  |
|-------------|--------------------------------------|--|--|--|--|
|             | Language                             | English is supported.  |  |  |  |
|             |                                      | The retention period of system logs:   |  |  |  |
| General     | Keep System Logs for                 | • One week   |  |  |  |
| General     |                                      | • Half a month   |  |  |  |
|             |                                      | One month  |  |  |  |
|             | Enable Auto-Login                    | Enable auto login.   |  |  |  |
|             | Resume Live View Status              | Restore live view.   |  |  |  |
|             |                                      | The file storage type, with the following options:   |  |  |  |
|             | File type                            | • rf   |  |  |  |
|             |                                      | • AVI  |  |  |  |
|             |                                      | • mp4  |  |  |  |
|             |                                      | The maximum file size, with the following options:   |  |  |  |
|             | Max File Size                        | • 1G   |  |  |  |
| File config |                                      | • 2G   |  |  |  |
|             | Alarm when disk space is less thanMB | Set a value. When the disk space<br>is lower than the value, an alarm<br>is triggered. Select the checkbox<br>and set the value. |  |  |  |
|             | Path of Saved Pictures               | Set the storage path of local images.  |  |  |  |
|             | Path of Saved Videos                 | Set the storage path of local recordings.  |  |  |  |
|             | Alarm Sound                          | Set the alarm sound of each alarm trigger type.  |  |  |  |

**Step 2:** Set system parameters. The parameters are described in the following table:

|          | Real play in full screen (enable<br>full screen mode); Maintain<br>(enable preview mode); Remote<br>playback (enable remote<br>playback)   |   |
|----------|--|---|
| Hot Keys | System config (open system<br>settings); Alarm event (open<br>alarms); Cruise Setting (open<br>cruise settings); Device<br>Management (open device<br>management); Lockscreen (lock<br>the screen) | Use a hotkey to quickly enter a module, where you can double-<br>click the hotkey in the latter part<br>to change it. |
|          | Switch user (switch users);<br>Open/Close alarm sound (enable<br>or disable the alarm sound)   |   |
|          | Local Record (open local recording)  |   |

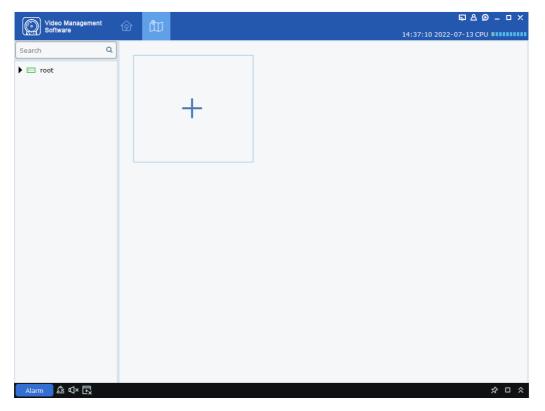
Step 3: Click Save to complete system settings.

# **20.Electronic Map Management**

Using an electronic map, you can view the position where an alarm channel exists, and view the videos and alarms of the channel.

## 20.1.Adding Maps

**Step 1:** From the main menu, click **Emap Config** to go to the map configuration page, as shown in the following figure:



**Step 2:** Click + on the page. A map selection dialog box is displayed, as shown in the following figure:

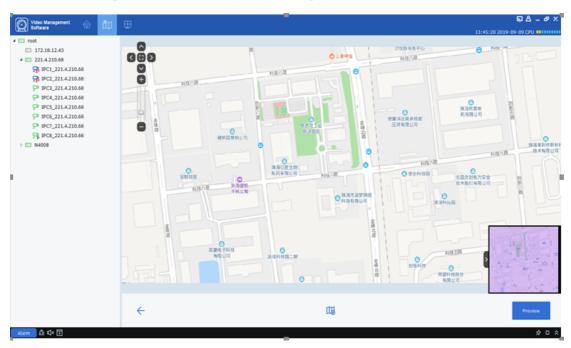
| <b>(</b> ) |           | Add Emap           | ×      |
|------------|-----------|--------------------|--------|
|            |           |                    |        |
|            | Map Name: | Street_Zone        |        |
|            | Path:     | esktop/png (2).png | D      |
|            |           |                    |        |
|            |           | Yes                | Cancel |

Step 3: Name the map and specify the map path.

Step 4: Click Yes to save.

## 20.2. Editing Maps

Double-click a map you want to edit to go to the edit page, as shown in the following figure:



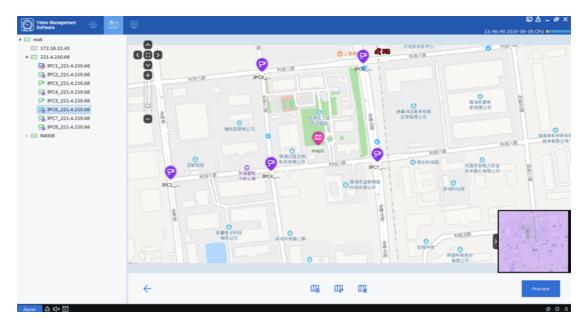
Step 1: In device groups on the left, drag the devices you need to specific positions on the map.

Step 2: Click <sup>III</sup> to add hot areas on a map.

Note: To add hot areas, you need to add a new map.

| 👰 Video Management 💮 🛍   | 퇴 옵 _ 8 × |
|--|-----------|
| <ul> <li>■ root</li> <li>■ 172.18.12.43</li> <li>■ 221.4.210.68</li> <li>➡ FC1_221.4.210.68</li> <li>➡ FC2_221.4.210.68</li> <li>➡ FC3_221.4.210.68</li> <li>➡ FC3_221.4.210.68</li> <li>➡ FC3_221.4.210.68</li> <li>➡ FC3_221.4.210.68</li> <li>➡ FC3_221.4.210.68</li> <li>➡ FC3_221.4.210.68</li> </ul> |           |
| SP PC_221.4.210.68<br>SP PC8_221.4.210.68<br>> ■ N4008   |           |
|  |           |
| Marman 合 de 同  | \$ D &    |

**Step 3:** Add hot areas to the map, and drag the devices you need to specific positions on the map, as shown in the following figure:



**Note:** Click **Preview** in the lower right corner to receive real-time alarms from devices. Doubleclick a device to view the device monitoring view.

Double-click the hot area icon to enter the hot area map. Click **Preview** in the lower right corner to receive real-time alarms from devices. Double-click a device to view the device monitoring view. Click  $\triangle$  to view clearly the alarms from devices on a map.

## **20.3.Modifying and Deleting Devices**

1. Click a device icon, and double-click or click  $\mathcal{P}$  to enter the device modification page, as shown in the following figure:

| i) Modify Hot Spot             | ×       |
|--------------------------------|---------|
| Hot spot name: CH1_1080P-HY16N |         |
| Linked camera:                 |         |
| CH1_1080P-HY16N                |         |
|                                |         |
|                                |         |
|                                |         |
|                                |         |
| Hot spot color: Black 🗸 Icon:  |         |
| Hot spot background color:     | White 🗸 |
| Yes                            | No      |

#### **Parameter description:**

Hot spot name: The name of the camera spot

Linked camera: The related cameras

Hot spot color: The color of the camera spot

Icon: The icon of the camera spot

Hot spot background color: The background color of the camera spot name

2. Click a device icon, and click  $\mathbb{P}$ . The device deletion dialog box is displayed. Click **OK** to complete the deletion.

# **21.Intelligent Configuration**

## **21.1.Recognition Management**

On the **AI Config** page, click **Recognition** to open the face edit page. The page includes model configuration, face database management, database synchronization, and license plate management.

#### 1. Model configuration

Manage face models and select various face calculation methods. Click the model configuration icon to enter the model configuration page, as shown in the following figure:

| Recognition A | tendance management |                    |                      |                         |
|---------------|---------------------|--------------------|----------------------|-------------------------|
| NVR           |                     |                    |                      | Save                    |
| 📼 DVR         | Auto Select Model   |                    |                      |                         |
|               | Device/Channel      | Face Recognition   | Face Detection Model | Enable Face Recognition |
| 2             | local               | V0.0.0.1-release   |                      |                         |
|               | IP CH2              | V0.5.0.0.2-release | V0.5.1.2.1-release   |                         |
|               | IP CH3              | V0.4.0.0.2-release | V0.4.1.6.1-release   |                         |
|               | IP CH6              | V0.4.0.0.2-release | V0.4.1.6.1-release   |                         |
|               | IP CH8              | V0.4.0.0.2-release | V0.4.1.6.1-release   |                         |
|               |                     |                    | 3                    |                         |
|               |                     |                    | 3                    |                         |
|               |                     |                    | 3                    |                         |
|               |                     |                    | 3                    |                         |
|               |                     |                    | 3)                   |                         |

| No. | Item                  | Description  |  |  |  |
|-----|-----------------------|--|--|--|--|
| 1   | Model management tab  | Click to enter the model management page.  |  |  |  |
| 2   | Device tree           | View and select devices.   |  |  |  |
| 3   | Model management area | <ul> <li>Enter the page, and select a device to view the device model information. In which,</li> <li>local in the Device/Channel column indicates the device model.</li> <li>Ch1indicates the IP camera model. Only one model can be selected. If you have enabled Auto Select Model, you cannot select a model manually. After settings, click Save to save the selected model.</li> </ul> |  |  |  |
|     |                       | <b>Face Recognition</b> : View the face recognition version.   |  |  |  |
|     |                       | Face Detection Model: View the face detection model version.   |  |  |  |
|     |                       | Save: Save changes.  |  |  |  |
|     |                       | Refresh: Refresh data.   |  |  |  |

### 2. Face database management

Add and delete face groups, modify face group information. The face database management page is shown in the following figure:

|       | Video Management<br>Software | ঞ     | A        |           |            |                                       |          |      |                 | ⊑&ø □×       |
|-------|------------------------------|-------|----------|-----------|------------|---------------------------------------|----------|------|-----------------|--------------|
|       | Software                     | L.    |          |           |            |                                       |          |      | 15:04:18 2022-0 | 07-13 CPU    |
|       | Recognition                  | Atter | ndance m | anagement | _          |                                       |          |      |                 |              |
| G.    | NVR                          |       |          |           |            |                                       |          |      | Add             | Save Refresh |
|       | DVR                          |       |          |           |            | Group Name                            | Delete   | Edit | E               | nable        |
|       | 2                            |       |          |           | Allow List |                                       |          | 0    |                 |              |
| _     |                              |       |          |           | Block List |                                       |          | 0    |                 |              |
| :::   |                              |       |          |           | Stranger   |                                       |          |      |                 |              |
| A-12  |                              |       |          |           | Test Group |                                       | <b>İ</b> | 0    |                 |              |
|       |                              |       |          |           | Group 1    |                                       | <b>İ</b> | 0    |                 |              |
|       |                              |       |          |           | Group 2    |                                       | Ť.       | 0    |                 |              |
|       |                              |       |          |           | Group 3    |                                       | <b>İ</b> | 0    |                 |              |
|       |                              |       |          | 1         |            | 3                                     |          |      |                 |              |
|       |                              |       |          |           |            | • • • • • • • • • • • • • • • • • • • |          |      |                 |              |
|       |                              |       |          |           |            |                                       |          |      |                 |              |
|       |                              |       |          |           |            |                                       |          |      |                 |              |
|       |                              |       |          |           |            |                                       |          |      |                 |              |
|       |                              |       |          |           |            |                                       |          |      |                 |              |
|       |                              |       |          |           |            |                                       |          |      |                 |              |
|       |                              |       |          |           |            |                                       |          |      |                 |              |
|       |                              |       |          |           |            |                                       |          |      |                 |              |
|       |                              |       |          |           |            |                                       |          |      |                 |              |
|       |                              |       |          |           |            |                                       |          |      |                 |              |
|       |                              |       |          |           |            |                                       |          |      |                 |              |
| Alarm | ≜ ⊈× ⊡,                      |       |          |           |            |                                       |          |      |                 | ☆□ ☆         |
|       |                              |       |          |           |            |                                       |          |      |                 |              |

| No. | Item                         | Description                                       |
|-----|------------------------------|---|
| 1   | Face database management tab | Click to enter the face database management page. |
| 2   | Device tree                  | View and select devices.                          |

|   |                                | Up to 16 face groups can be created for one device. Allow list, Block list, and Stranger are fixed and cannot be deleted. |
|---|--------------------------------|---|
|   |                                | <b>Group Name</b> : View the face group name which can be changed.  |
|   |                                | <b>Delete</b> : Delete a face group except for the th fixed groups.   |
| 3 | Face databased management area | <b>Edit</b> : Add, delete, and modify the images in a face group.   |
|   |                                | Enable: View the face group status.   |
|   |                                | Add: Add a face group.  |
|   |                                | Save: Save changes.   |
|   |                                | Refresh: Refresh data.  |

Add, delete, and edit face image information. Select a group and click <sup>2</sup> to enter the group setting page, as shown in the following figure:

|  |               |                |        | >         |
|--|---------------|----------------|--------|-----------|
| Select all Refresh Delete Import export Download import template | Edit Face     |                |        |           |
|  | Name          |                |        |           |
|  | Sex           | male ~         | í      |           |
|  | Age           |                | í      |           |
|  | Country       |                | í      |           |
|  | Nationality   |                | í      |           |
|  | Native Place  |                | í      |           |
|  | 4             | larm Channel 🟮 | Voice  | Prompts 🕸 |
|  | Id Code       |                |        |           |
|  | Occupation    |                |        |           |
|  | Phone Numbe   | er             |        |           |
|  | Email         |                |        |           |
|  | Residence     |                |        |           |
|  | Remark        |                |        |           |
|  |               |                |        |           |
|  |               |                |        |           |
|  | Sync to Devic |                |        | _         |
|  | No.           | Device         | Status | Result    |
|  |               | IP CAMERA(1)   |        |           |
|  | 2             | 172.16.16.106  |        |           |
|  | 3             | IP CAMERA(4)   | •      |           |
|  | ☑ 4           | 8M-HY08        | •      |           |
|  | 5             | N7508          |        |           |
|  | •             |                |        |           |
| K < 1 /1 >>  |               |                |        | Save      |

Add face images: Click **Import**. The import method dialog box is displayed, as shown in the following figure:



Device Image: Search for face images captured by devices and import the images to a specific group.

Local Image: Select face images saved locally and import the images to a specific group.

Local Image Directory: Select a local directory that stores face images and import the images in batches to a specific group.

Export face images: Select face images in the current group, and click **Export**. Then select a local storage path to export the images to local storage.

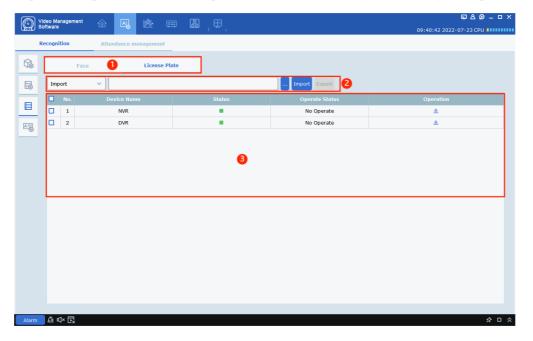
Download the import template: Click **Download import template**, and select a local storage path to download the import template to local storage. Edit images based on the description in the template file. Click **Local Image** to import .csv files to upload images and the related information in batches.

Delete face images: Select face images in the current group, and click **Delete** to delete the selected images.

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

#### 3. Database synchronization

Import and export face and license plate databases on the recognition management page.



| No. | Item               | Description  |
|-----|--------------------|--|
| 1   | Database selection | Click to enter the face or license plate database page.      |
| 2   | Import and export  | Import and export databases, and select local storage paths. |
| 3   | Device list        | View the devices that support database operation.            |

Import or export a database: Click 🙆 . A dialog box is displayed.

| <b>(</b> )  | Upload DataBase |    | × |
|-------------|-----------------|----|---|
| Select Path |                 | 0% | ⊳ |

Select a path and click  $\square$ . After the progress bar is full, the import or export succeeds.

4. License plate management

On the **AI Config** page, click **Solution** to enter the plate management page, where you can add and delete license plate groups and edit group information.

| $\bigcirc$ | Video Management<br>Software | ŵ 🖪          |            |            |   |        | 15   | : A الح الح 2022-07-22 CF | 9 – 0 × |
|------------|------------------------------|--------------|------------|------------|---|--------|------|---------------------------|---------|
|            | Recognition                  | Attendance I | nanagement |            |   |        |      |                           |         |
| G.         | I NVR                        |              | 1          |            |   |        |      | Add Refresh               | Save    |
| _          | 📼 DVR                        |              |            | Group Name | 2 | Delete | Edit | Enable                    |         |
|            |                              |              |            | Allow List |   |        | Ø    |                           |         |
|            |                              |              |            | Block List |   |        | Ø    |                           |         |
| _          |                              |              |            | Unknown    |   |        |      |                           |         |
| A-12       |                              |              |            |            | 2 |        |      |                           |         |
|            |                              |              | _          |            |   |        |      |                           |         |
| Alarm      | _ & ⊄× E,                    |              |            |            |   |        |      |                           | \$ □ \$ |

| No. | o. Item Description  |   |  |  |  |
|-----|--|---|--|--|--|
| 1   | Device tree  | View and select devices.  |  |  |  |
|     |  | Up to 64 license plate groups can be created for<br>one device. Allow list, Block list, and Unknown<br>are fixed and cannot be deleted. |  |  |  |
|     | License plate databased<br>management area<br>License plate databased<br>management area | <b>Group Name</b> : View the license plate group name which can be changed.   |  |  |  |
|     |  | Delete: Delete a license plate group you created.   |  |  |  |
| 2   |  | Edit: Add, delete, and modify license plate information.  |  |  |  |
|     |  | Enable: View the license plate group status.  |  |  |  |
|     |  | Add: Add a license plate group.   |  |  |  |
|     |  | Save: Save changes.   |  |  |  |
|     |  | Refresh: Refresh data.  |  |  |  |

Select a group and click *loc* to enter the license plate setting page, as shown in the following figure:

| <b>(</b> ) |      |               |       |           |          |       |               |              |             | ×                          |
|------------|------|---------------|-------|-----------|----------|-------|---------------|--------------|-------------|----------------------------|
|            | Edit | License Plate | Color | Car Brand | Car Type | Owner | Gender        | Id Code      | Phone       | Plate Detail               |
|            |      |               |       |           |          |       |               |              |             | License Plate              |
|            |      |               |       |           |          |       |               |              |             | Color                      |
|            |      |               |       |           |          |       |               |              |             | Car Brand                  |
|            |      |               |       |           |          |       |               |              |             | Car Type                   |
|            |      |               |       |           |          |       |               |              |             | Owner                      |
|            |      |               |       |           |          |       |               |              |             | Gender                     |
|            |      |               |       |           |          |       |               |              |             | Phone                      |
|            |      |               |       |           |          |       |               |              |             | Id Code                    |
|            |      |               |       |           |          |       |               |              |             | Occupation                 |
|            |      |               |       |           |          |       |               |              |             | Residence                  |
|            |      |               |       |           |          |       |               |              |             |                            |
| •          |      |               |       |           |          |       |               |              | _           | Remark                     |
|            |      |               |       |           |          |       | K < 1         |              | 1 > >I      |                            |
|            |      |               |       |           |          | Im    | port Import F | orm CSV Impo | rt Form Cap | ture Delete Move To export |

Click **Import**. The license plate information input page is displayed, as shown in the following figure:

| (j)             | Plate  | e Edit          | ×         |
|-----------------|--------|-----------------|-----------|
| License Plate   |        |                 |           |
| Color           | Blue ~ | )               |           |
| Car Brand       |        | Car Type        |           |
| Owner           |        | Gender          | male v    |
| Id Code         |        |                 |           |
| Occupation      |        |                 |           |
| Phone           |        |                 |           |
| Residence       |        |                 |           |
| Remark          |        |                 |           |
| Alarm Channel 🜻 |        | Voice Prompts 🧔 | Save Exit |

Enter the relevant license plate information on the page, and set the corresponding audio and alarm channel.

Click **Export** and select a local storage path to export the license plate information from the current group. The file format is .csv.

Click Import form CSV and select a local .csv file to import vehicle information in batches.

Click **Import form Capture**. On the page that appears, search for license plate images captured by devices. Select images from the search results, and edit and import the information.

Click Move to to move the selected license plate information to another group.

Click **Delete** to delete the selected license plate information.

## **21.2.Attendance Management**

From the main menu, choose **AI Config** to go to the AI configuration page. Click **Attendance management**, as shown in the following figure.

| Video Managemer         |   |
|-------------------------|---|
| Software                | 17:26:13 2022-07-13 CPU   |
| Recognition             | Attendance management   |
| Basic rules             | Setting of commuting time   |
| Overtime setting        | arrive time [8:30 C Valid time of sign in 7:00 C - [8:30 C  |
| Holiday settings        | leave time 17:30 Valid time of signing out 17:30 - 18:30  |
| Leave type setting      | Weekend settings  |
| Personnel<br>management | Set weekend time 📋 Monday 📋 Tuesday 📋 Wednesday 📋 Thursday 📄 Friday 🗹 Saturday 🗹 Sunday                 |
|                         | Absence settings  |
|                         | Checked in, late more than 30 Minutes, recorded as absence. If 0, this item will not take effect        |
|                         | Signed off, early leave more than 30 Minutes, recorded as absence. If 0, this item will not take effect |
|                         | No sign in,Recorded as Late V   |
|                         | Not signed out,Recorded as Leave Early 🗸 🗸  |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         | Save  |
| Alarm 🖄 🗹 🗐             | × □ ×   |

The functions on the attendance management page are described in the following table:

| Parameter     | Description   |  |  |  |
|---------------|---|--|--|--|
|               | The alarm setting type, with the following options: |  |  |  |
|               | Basic rules   |  |  |  |
| Alarm setting | Overtime setting                                    |  |  |  |
| type          | Holiday settings                                    |  |  |  |
|               | • Leave type setting                                |  |  |  |
|               | Personnel management                                |  |  |  |

#### 1. Basic rules

| Video Management        |  |
|-------------------------|--|
| Software                | 17:26:13 2022-07-13 CPU  |
| Recognition             | Attendance management  |
| Basic rules             | Setting of commuting time  |
| Overtime setting        | arrive time (8:30 🗘 Valid time of sign in 7:00 🗘 - (8:30 🗘   |
| Holiday settings        | leave time 17:30 Valid time of signing out 17:30 - 18:30 Valid time of signing out 17:30 Valid time ot 17:30 Valid time of signing out 17:30 Valid time ot 17:30 Valid time ot 17:30 Valid tim |
| Leave type setting      | Weekend settings   |
| Personnel<br>management | Set weekend time 🔲 Monday 📄 Tuesday 📄 Wednesday 📄 Thursday 📄 Friday 🔽 Saturday 💟 Sunday  |
|                         | Absence settings   |
|                         | Checked in, late more than 30 Minutes, recorded as absence. If 0, this item will not take effect   |
|                         | Signed off, early leave more than 30 Minutes, recorded as absence. If 0, this item will not take effect  |
|                         | No sign in,Recorded as Late V  |
|                         | Not signed out,Recorded as Leave Early   |
|                         |  |
|                         |  |
|                         |  |
|                         |  |
|                         | Save   |
|                         |  |
| Alarm 🖄 🕸 🕞             | ×□ <   |

Setting of commuting time : Set office hours, and set valid time periods for clock-in and clock-out.

Weekend settings : Set weekend days. The days selected are days off.

**Absence settings**: Set absence. If a person has signed in and the late arrival time exceeds the office start hour by X minutes, the person is recorded absent. If a person has signed off and the early leave time exceeds the office end hour by X minutes, the person is recorded absent. For both cases, if the value is 0, the data is invalid. If sign-in or sign-out is not recorded, the value can be set to absent or early leave.

#### 2. Overtime setting

| Video Management<br>Software | o الم الم الم الم الم الم الم الم الم الم   |
|------------------------------|---|
| Software                     | 19:11:34 2022-07-13 CPU   |
| Recognition                  | Attendance management   |
| Basic rules                  | Working day overtime level  |
| Overtime setting             | Overtime level 🛛 🔄 Overtime level 1 🖸 🔂 Overtime level 2 🗹 📑 Overtime level 3           |
| Holiday settings             | Time 0h 2h 4h 6h 8h 10h 12h 14h 16h 18h 20h 22h 24h                                     |
| Leave type setting           | Monday  |
| Personnel<br>management      | Tuesday   |
|                              | Wednesday   |
|                              | Thursday  |
|                              | Friday  |
|                              | Saturday  |
|                              | Sunday  |
|                              | Man hour Ratio  |
|                              | Overtime level 1 1.5 Overtime level 2 2.0 Overtime level 3 3.0                          |
|                              | Weekend overtime rule setting   |
|                              | Computing method   Normal operation  Overtime level 1 Overtime level 2 Overtime level 3 |
|                              | Save  |
| Alarm 🖄 🗹 × 🕞                |   |

Working day overtime level : Working day overtime level. Three levels in total. If the checkbox of an overtime level is selected, the level is selected. Drag the color bar to set the time range of overtime levels.

Man hour Ratio : Man hour ratio. Set the man hour ratio for each overtime level. The overtime length is counted accordingly by the ratio.

Weekend overtime rule setting : Weekend overtime rule. Set the overtime level for weekend overtime. The overtime length is counted accordingly by the level.

Click Save to save the overtime rules to the system database.

#### 3. Holiday settings

| Recognition                    |       | Attendance r | management |                         |             |     |           |        |           |     |     |              |      |     |
|--------------------------------|-------|--------------|------------|-------------------------|-------------|-----|-----------|--------|-----------|-----|-----|--------------|------|-----|
| Basic rules                    | + Add | 🖹 Delete     |            |                         |             |     | 2022 🗘    | ×.     | Jun       |     | > < |              | 2022 |     |
| Overtime setting               | I H   |              |            | Holiday Type<br>Regular |             |     | Operation | Sun    | Mon       | Tue | Wed | Thu          | Fri  | Sa  |
| Holiday settings               |       | SSS          | 1          | Regular<br>holiday      | 06/16-06/17 | Yes | 0         | 29     | 30        | 31  | 1   | 2            | 3    | 4   |
| eave type setting<br>Personnel |       |              |            |                         |             |     |           | 5      | 6         | 7   | 8   | 9            | 10   | 11  |
| management                     |       |              |            |                         |             |     |           | 12     | 13        | 14  | 15  | 16<br>\$\$\$ | 17   | 18  |
|                                |       |              |            |                         |             |     | 2         | 19     | 20        | 21  | 22  | 23           | 24   | 25  |
|                                |       |              |            |                         |             |     |           | 26     | 27        | 28  | 29  | 30           | 1    | 2   |
|                                |       |              |            |                         |             |     |           | 3      | 4         | 5   | 6   | 7            | 8    | 9   |
|                                |       |              |            |                         |             |     |           | 2022/0 | 06/16     |     |     |              |      | SSS |
|                                |       |              |            |                         |             |     |           |        | configura |     |     |              |      |     |

Set holiday or time off in lieu arrangements. The parameters are described in the following table:

| Parameter    | Description  |
|--------------|--|
| Holiday Name | Holiday name. The name is required. If left blank, you will be reminded. |
| Holiday Days | The number of holiday days   |
| Holiday Type | The holiday type   |
| Date         | The holiday start date and end date                                      |
| Annual Cycle | Cycled annually or not   |
| Operation    | Modify the set holiday   |

After you click + Add, the holiday settings appear, and you can select a holiday type. If you select **Regular holiday**, enter the holiday name, set the start time, enter the number of holiday days, select the overtime level, and select whether to cycle annually. If you select **Irregular holiday**, the method to set the date is different. As the holiday start date is different every year, you need to set the year, date, weekend, and day.

Click click

|               |                      |                   |               | <             | Jul            |               | 2022          |              | >            |   |
|---------------|----------------------|-------------------|---------------|---------------|----------------|---------------|---------------|--------------|--------------|---|
|               |                      |                   |               | м             | т              | W             | т             | F            |              |   |
| <b>(</b> )    | Add                  | ×                 | 26<br>3<br>10 | 27<br>4<br>11 | 28<br>5<br>12  | 29<br>6<br>13 | 30<br>7<br>14 | 1<br>8<br>15 | 2<br>9<br>16 |   |
| Туре          | 💿 Regular holiday 🔘  | Irregular holiday |               | 18<br>25      | 12<br>19<br>26 | 20<br>27      | 21 28         | 22<br>29     | 23<br>30     |   |
| Holiday Name  | Please enter Holiday | Name              | 31            | 1             | 2              | 3             | 4             | 5            | 6            |   |
| Start date    | 2022-8-2             | Ē                 |               |               |                |               |               |              | Ye           | s |
| Holiday Days  | 1                    |                   |               |               |                |               |               |              |              |   |
| Calculated as | Normal operation     | ~                 |               |               |                |               |               |              |              |   |
|               | Annual Cycle         |                   |               |               |                |               |               |              |              |   |
|               | ОК                   | Cancel            |               |               |                |               |               |              |              |   |
|               |                      |                   |               |               |                |               |               |              |              |   |
|               | $\bigcirc$           | Add               |               |               |                | ×             |               |              |              |   |
|               | Туре                 | 🔾 🔿 Regular holi  | iday 🧿        | ) Irregu      | ular ho        | liday         |               |              |              |   |
|               | Holiday Name         | Please enter H    | Holiday       | Name.         |                |               |               |              |              |   |
|               | Start date           | 2021              | ~             | Jan           |                | ~             |               |              |              |   |
|               | same month           | the first         | ~             | Monday        | /              | ~             |               |              |              |   |
|               | Holiday Days         | 1                 |               |               |                |               |               |              |              |   |
|               | Calculated as        | Normal operat     | tion          |               |                | ~             |               |              |              |   |
|               |                      | Annual Cycl       | e             |               |                |               |               |              |              |   |
|               |                      | ОК                |               | C             | ancel          |               |               |              |              |   |

After you add a holiday, the holiday date is marked on the calendar.

| +    | Add 🛛 🗖 Delete |   |                    |             |    | 2021 | 0 | <       | Mar        |              | > <    |     | 2021 | >   |
|------|----------------|---|--------------------|-------------|----|------|---|---------|------------|--------------|--------|-----|------|-----|
|      |                |   |                    |             |    |      |   | Sun     | Mon        | Tue          | Wed    | Thu | Fri  | Sat |
|      | 111            | 1 | Regular<br>holiday | 03/04-03/05 | No | 0    | - | 28      | 1          | 2            | 3      | 4   | 5    | 6   |
|      |                |   |                    |             |    |      |   |         |            |              |        | 111 |      |     |
|      |                |   |                    |             |    |      |   | 7       | 8          | 9            | 10     | 11  | 12   | 13  |
|      |                |   |                    |             |    |      |   |         |            |              |        |     |      |     |
|      |                |   |                    |             |    |      |   | 14      | 15         | 16           | 17     | 18  | 19   | 20  |
|      |                |   |                    |             |    |      |   |         |            |              |        |     |      |     |
|      |                |   |                    |             |    |      |   | 21      | 22         | 23           | 24     | 25  | 26   | 27  |
|      |                |   |                    |             |    |      | , |         |            |              |        |     |      |     |
|      |                |   |                    |             |    |      |   | 28      | 29         | 30           | 31     | 1   | 2    | 3   |
|      |                |   |                    |             |    |      |   |         |            |              |        |     |      |     |
|      |                |   |                    |             |    |      |   | 4       | 5          | 6            | 7      | 8   | 9    | 10  |
|      |                |   |                    |             |    |      |   |         |            |              |        |     |      |     |
|      |                |   |                    |             |    |      |   | 2021/0  | 3/04       |              |        |     |      | 111 |
|      |                |   |                    |             |    |      |   | Holiday | configural | tion details |        |     |      |     |
|      |                |   |                    |             |    |      |   | 111 Re  | corded as  | Normal ope   | ration |     |      |     |
|      |                |   |                    |             |    |      | _ |         |            |              |        |     |      |     |
| 1000 |                |   |                    |             |    |      |   |         |            |              |        |     |      |     |

4. Leave type setting

| Video Manageme<br>Software | ent 🏠 📖 🗛             |     |                      |           |   |  |      |          | Ę A          | ©  |
|----------------------------|-----------------------|-----|----------------------|-----------|---|--|------|----------|--------------|----|
| Software                   |                       |     |                      |           |   |  |      | 19:15:21 | 2022-07-13 0 | PU |
| Recognition                | Attendance management |     |                      |           |   |  |      |          |              |    |
| Basic rules                | + Add 🔯 Delete        | + / | Add 🗉 Delete         |           |   |  |      |          |              |    |
| Overtime setting           | Search                | ۹ 🗖 | Туре                 | Operation |   |  |      |          |              |    |
|                            | 🗬 Leave               |     | Paternity<br>leave   | Ø         |   |  |      |          |              |    |
| Holiday settings           | Compensatory leave    |     | Parental leave       | Ø         |   |  |      |          |              |    |
| ave type setting           | R Be away on business | 0   | Sick leave           | Ø         |   |  |      |          |              |    |
| Personnel                  | R Fill Check          |     | Home leave           | 0         |   |  |      |          |              |    |
| management                 |                       |     | Annual leave         | 0         |   |  |      |          |              |    |
|                            |                       |     | Maternity<br>leave   | 0         |   |  |      |          |              |    |
|                            |                       |     | Compassion<br>leave  | 0         |   |  |      |          |              |    |
|                            |                       |     | Bereavement<br>leave | 0         |   |  |      |          |              |    |
|                            |                       |     |                      |           |   |  |      |          |              |    |
| m _ & ⊄× ⊡,                |                       |     |                      |           | _ |  | <br> |          |              |    |

Classify holiday types. The categories are listed on the left, and the sub-categories are listed next to the categories. Read the types from and save the types to the local database.

Click + Add or Delete to add or delete a leave type.

Search for a category in Search , and click , Then the sub-categories of the category are listed on the right side of the page.

Click of a sub-category to modify it.

#### 5. Personnel management

| Video Manageme<br>Software | nt  |       | 0:::      |               |           |     |         |              | ⊑ A Ø – □<br>19:16:36 2022-07-13 CPU |
|----------------------------|-----|-------|-----------|---------------|-----------|-----|---------|--------------|--------------------------------------|
| Recognition                |     | Atter | idance ma | nagement      |           |     |         |              |                                      |
| <b>Basic rules</b>         | NVF | ł     |           | Get personn   | el Export |     |         |              |                                      |
| Overtime setting           |     |       |           | Face Group ID | Sex       | Age | Id Code | Phone Number | Operation                            |
| Holiday settings           |     | 1     | fhk       | 2             | male      | 24  |         |              | 0 0 🖬                                |
|                            |     | 2     | lpl       | 2             | female    | 28  |         |              | 00 🖬                                 |
| eave type setting          |     | 3     | yhj       | 2             | male      | 29  |         |              | Ø © 🖬                                |
| Personnel<br>management    |     | 4     | yhj       | 2             | male      | 29  |         |              | Ø © 🛅                                |
|                            |     | 5     | fct       | 2             | male      | 33  |         |              | 001                                  |
|                            |     | 6     | cxq       | 2             | male      | 34  |         |              | Ø 🗘 🛅                                |
|                            |     |       |           |               |           |     |         |              |                                      |
| Jarm 🕹 ⊄× 🗗                |     |       | _         |               |           |     |         |              | ☆ □                                  |

Select a device in Get personnel and click the button. Then the local database is queried, and the device face information is synchronized to VMS Pro. The information includes the name, face group ID, gender, age, ID code, contact, and more.

Click **Export** to export the selected face information to local storage. In the **Operation** column, click  $\checkmark$  to modify the face information, as shown in the following figure:

| ( | <b>)</b>        |                    | Edit         | :                  | ×    |
|---|-----------------|--------------------|--------------|--------------------|------|
|   | Add To Group    | roup 1 🗸 🗸         |              |                    |      |
|   | Name            | juelly             | Sex          | female ~           |      |
|   | Age             | 36                 | Country      | υκ                 |      |
|   | Nationality     | london             | Native Place | cambridge          |      |
|   | Id Code         | S588712888         |              |                    |      |
|   | Occupation      | london             |              |                    |      |
|   | Phone Number    | 235891576          | Email ts     | gd82ajdy@gmail.com | Add  |
|   | Residence       | london             |              |                    |      |
|   | Remark          | ntr gerhh egrgre r | egrerg rthg  |                    |      |
|   | Additional Face | Image              |              |                    |      |
|   | <               | ÷                  |              |                    | >    |
|   |                 |                    |              |                    | Save |

All the information listed can be modified. And you can upload multiple face images. Click into delete the face information. Click • to add later sign-in for people who did not sign in due to business, leave, and time off in lieu. The later sign-in types are the same as the leave types, as shown in the following figure:

| (j)      |      |  |          |          | Fill Ch | eck |    |          |          |          |          |          |          |     | ×        |
|----------|------|--|----------|----------|---------|-----|----|----------|----------|----------|----------|----------|----------|-----|----------|
| <b>D</b> |      |  |          |          |         |     |    |          |          |          | Add      |          |          |     |          |
|          | Edit |  | Start Ti | End Time |         |     |    | <b>.</b> | Mar      | ×c       | 2021 >   |          |          |     |          |
|          |      |  |          |          |         |     |    | S        | М        | т        | W        | т        | F        |     | 5        |
|          |      |  |          |          |         |     |    | 28       | 1        | 2        | 3        | 4        |          |     | 6        |
|          |      |  |          |          |         |     |    | 7        | 8        | 9        | 10       | 11       | 12       |     | .3       |
|          |      |  |          |          |         |     |    | 14<br>21 | 15<br>22 | 16<br>23 | 17<br>24 | 18<br>25 | 19<br>26 |     | 20<br>27 |
|          |      |  |          |          |         |     |    | 28       | 29       | 30       | 31       | 1        | 2        |     | 3        |
|          |      |  |          |          |         |     |    | 4        | 5        | 6        | 7        | 8        | 9        | 1   | .0       |
|          |      |  |          |          |         |     | Ма | in Ty    | pe Be    | away o   | n busi   | ness     |          |     | ~        |
|          |      |  |          |          |         |     | Su | ь тур    | e Bu     | siness t | ravel    |          |          |     | ~        |
|          |      |  |          |          |         |     | St | art Ti   | me       | 0:00     | С E      | nd Time  | 0        | :00 | 0        |
|          |      |  |          |          |         |     | Re | mark     |          |          |          |          |          |     |          |
|          |      |  |          |          |         |     |    |          |          |          |          | Sa       | ve       | Q   | uit      |

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