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# **About This Document**

### **Intended Audience**

This document is intended for the personnel who:

- Work with Network Video Recorders (NVRs)
- Know video surveillance basics

### **Document Versions**

#### Version 02 (2020-03-26)

Compared with Version 01 (2019-12-17), Version 02 (2020-03-26) includes the changes described in the following table.

| Change Type      | Description  |
|------------------|--|
| Feature change   | Added viewing controls specific to fisheye cameras |
| Editorial change | Update screenshots.                                |

#### Version 01 (2019-12-17)

Compared with Version 00 (2019-04-12), Version 01 (2019-12-17) includes the changes described in the following table.

| Change Type      | Description                    |  |  |  |
|------------------|--------------------------------|--|--|--|
| Feature change   | Added the following functions: |  |  |  |
|                  | Face Detection                 |  |  |  |
|                  | Vehicle Parking                |  |  |  |
|                  | Access Control                 |  |  |  |
|                  | Visitor Traffic Statistics     |  |  |  |
|                  | Video Wall                     |  |  |  |
| Editorial change | Update screenshots.            |  |  |  |

#### Version 00 (2019-04-12)

This is a draft.

## Compatibility

The following table provides the products, NVR software version, and vStation Pro version to which this document applies.

| Product      | All types of V7 NVRs  |
|--------------|---|
|              | NOTE:   |
|              | Unless otherwise specified, all functions in this document apply to all types of V7 NVRs. |
| NVR Software | All versions  |
| Version      |   |

vStation Pro Version V7R1B2

# **Getting Started**

### Overview

The vStation Pro uses a server/client architecture, which means a vStation Pro Client (hereinafter referred to as the client) and a vStation Pro Server (hereinafter referred to as the server) are provided when you install the vStation Pro. One server can provide services for multiple clients.

With the client, you can view live videos, play back records, manage cameras, configure NVRs, and find persons of interest using artificial intelligence (AI) functions on maps.

The vStation Pro provides the following AI functions.

- Face Detection
- Figure Detection
- Vehicle Parking
- Access Control
- Visitor Traffic Statistics

## Installing the vStation Pro

### Preparations

Ensure that your personal computer (PC) has the following configurations:

- Operating system: 32/64-bit Windows 7/10
- Processor: Intel Pentium IV 3.0 GHz or higher
- Memory: 2 GB or larger
- Resolution: 1280\*720 or higher
- NIC speed: 1000 Mbps

### Procedure

To install the vStation Pro:

- 1. Download the vStationProSetup.exe from the CD-ROM of the product package.
- 2. Double-click vStationProSetup.exe.
- 3. Select a display language.



KEDACOM 苏州科达科技股份有限公司 Suzhou Keda Technology Co.,Ltd 4. Follow the instructions.

If you want to install only the server, deselect Client Main Prog and IPCSearch.

| vStation Pro V7R1 Setup                                    |  |   |
|--|--|---|
| vStation Pro   | Choose Components<br>Choose which features of vStation                   | n Pro V7R1 you want to install.   |
| Check the components you<br>install. Click Next to continu | u want to install and uncheck the com<br>ue.                             | ponents you don't want to   |
| Select components to insta                                 | II: Basic Component<br>Server Main Prog<br>Client Main Prog<br>IPCSearch | Description<br>Position your mouse<br>over a component to<br>see its description, |
| Space required: 188.5MB                                    |  |   |
|  | < <u>B</u> ack   | Next > Cancel   |

5. Create an account of the server installed on your PC. The following is an example.

| vStation Pro V7R1 Setup  |  |  |
|--|--|--|
| vStation Pro   | tion<br>ver running option   |  |
| The server needs to create an ac<br>through the account. The length<br>the number and letter are require | ccount so that you can access the server<br>of the password is at least 8 characters, and<br>ed. |  |
| Port   | 6000 (1025-65535)  |  |
| User Name  | DocTest  |  |
| Password   | •••••  |  |
| Confirm Password   | •••••  |  |
|  |  |  |
|  |  |  |
|  | < <u>B</u> ack <u>N</u> ext > Cancel   |  |

This account is also the unique administrator of the client. In this document, this account is applied. The **Port** can be any port (from the range 1025-65535) on your PC and this port will be assigned to the server. This port is configurable and details are provided in section "Configuring the Server".

- 6. Click Next.
- 7. Select a path and click Install.

| • vStation Pro V7R1 Setup                                  | ,  |
|--|--|
| vStation Pro   | Choose Install Location<br>Choose the folder in which to install vStation Pro V7R1.  |
| Setup will install vStation P<br>Browse and select another | ro V7R1 in the following folder. To install in a different folder, click<br>folder. Click Install to start the installation. |
| Destination Folder<br>F:\Program Files (x86)               | \vStation Pro\ Browse  |
| Space required: 188.5MB<br>Space available: 88.2GB         |  |
|  | < Back Install Cancel  |

8. Click Finish when the installation is completed.

After the preceding steps are performed, you can find the Server and



icons on the desktop.

## **Configuring the Server**

To configure the server:



2. Under **Operating Status**, determine whether to enable the server to start up together with the Windows startup.



In this step, you can check the server status.

3. Under **Port**, you can configure the server port and HTTP port.

| 🔯 vStatio           | n Pro S | Server |       |      |             |          | —     | × |
|---------------------|---------|--------|-------|------|-------------|----------|-------|---|
| Operating<br>Status |         | Port   |       | Lang | uage        | Import/E | xport |   |
|                     |         |        |       |      |             |          |       |   |
|                     | vStatio | n Port | 6000  |      | (1025-65535 | i)       |       |   |
|                     | HTTP F  | Port   | 46789 |      | (1-65535)   |          |       |   |
|                     |         |        |       |      |             |          |       |   |
|                     |         |        |       |      |             |          |       |   |
|                     |         |        |       |      |             |          | ОК    |   |
|                     |         |        |       |      |             |          |       |   |

vStation Port: This is a port on your PC and it is assigned to the server.

**HTTP Port**: This is also a port on your PC and it is assigned to the server. This port is used to receive face/figure detection captures and face detection alarms pushed from an AI NVR. For details, see step 10 of section "Arming AI Cameras".

4. Under Language, you can choose a display language for the server.

| 🗘 vSta          | ntion Pro | Server         |             |          |   | —             | × |
|-----------------|-----------|----------------|-------------|----------|---|---------------|---|
| Opera<br>Status | ting<br>; | Port           |             | Language |   | Import/Export |   |
|                 |           |                |             |          |   |               |   |
|                 |           |                |             |          |   |               |   |
|                 | Dis       | play Language: | English     |          | ₹ |               |   |
|                 |           |                | 简体中文        |          |   |               |   |
|                 |           |                | English     |          |   |               |   |
|                 |           |                | Русский     |          |   |               |   |
|                 |           |                | Español     |          |   |               |   |
|                 |           |                | 繁體中文        |          |   |               |   |
|                 |           |                | Český Jazyk |          |   |               |   |
|                 |           |                | Türkçe      |          |   |               |   |
|                 |           |                |             |          |   |               |   |
|                 |           |                |             |          |   |               |   |

5. Under Import/Export, you can import or export configurations of NVRs.

| 🖸 vStation Pro Server — × |  |      |          |               | - ×   |
|---------------------------|--|------|----------|---------------|-------|
| Operating<br>Status       |  | Port | Language | Import/Export |       |
|                           |  |      |          |               |       |
| Path:                     |  |      |          | Export        | Start |
|                           |  |      |          |               |       |
| Path:                     |  |      |          | Import        | Start |
|                           |  |      |          |               |       |
|                           |  |      |          |               |       |
|                           |  |      |          |               |       |

# Logging In to the Client

To log in to the client:



2. Allow the vStation Pro through the Windows Firewall.

| Windows Secur  | 🔐 Windows Security Alert  |   |  |  |  |
|--|---|---|--|--|--|
| Windows Firewall has blocked some features of this program |   |   |  |  |  |
| Windows Firewall h   | as blocked som  | e features of vStation.Pro.Client.exe on all public and private |  |  |  |
| 0  | Name: vStation.Pro.Client.exe<br>Publisher: Unknown   |   |  |  |  |
|  | Path:   | F:\program files (x86)\vstation pro\vstation.pro.client.exe     |  |  |  |
| Allow vStation.Pro.  | Allow vStation.Pro.Client.exe to communicate on these networks:  Private networks, such as my home or work network  Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)  What are the risks of allowing a program through a firewall? |   |  |  |  |
|  | Allow access Cancel   |   |  |  |  |
|  |   |   |  |  |  |
| Windows Security Alert                                     |   |   |  |  |  |
| Windows Firewall has blocked some features of this program |   |   |  |  |  |

|    | Windows Firewall has blocked some features of vStation.Pro.Server.exe on all public and private<br>networks. |                                   |  |  |  |  |  |  |  |  |  |  |  |
|----|--|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|
|    |  | <u>N</u> ame:                     | vStation.Pro.Server.exe  |  |  |  |  |  |  |  |  |  |  |
| 1  | ¥  | Publisher:                        | Unknown  |  |  |  |  |  |  |  |  |  |  |
|    |  | Pat <u>h</u> :                    | F:\program files (x86)\vstation pro\vstation.pro.server.exe                          |  |  |  |  |  |  |  |  |  |  |
|    | Allow vStation.Pro.Server.exe to communicate on these networks:  |                                   |  |  |  |  |  |  |  |  |  |  |  |
|    | ♥ P <u>u</u> blic netwo<br>because the   | rks, such as th<br>se networks of | ose in airports and coffee shops (not recommended<br>ten have little or no security) |  |  |  |  |  |  |  |  |  |  |
|    | What are the risks   | of allowing a pr                  | rogram through a firewall?   |  |  |  |  |  |  |  |  |  |  |
|    |  |                                   | Allow access Cancel  |  |  |  |  |  |  |  |  |  |  |
| κ. |  |                                   |  |  |  |  |  |  |  |  |  |  |  |

In the login dialog box, specify parameters displayed.

User Manual for vStation Pro

| O vStation Pro |  |    |
|----------------|--|----|
|                |  |    |
|                |  |    |
|                | IP 172. 16. 192. 245 : 6000  |    |
|                | DocTest  |    |
|                |  |    |
|                | Semember Me Se Auto Login  |    |
|                | Log In   |    |
|                |  |    |
|                |  |    |
|                |  |    |
| Parameters     | are described as follows.  |    |
|                | IP of the server.  |    |
|                | The server IP is the IP address of your PC where the server is installed | J. |
|                | 6000 is the server port, which can be reconfigured on the server.        |    |

|    | 🔯 vStation Pro Server — X   |  |  |  |  |  |  |  |  |  |
|----|---|--|--|--|--|--|--|--|--|--|
|    | Operating Port Language Import/Export   |  |  |  |  |  |  |  |  |  |
| _  |   |  |  |  |  |  |  |  |  |  |
| IP | vStation Port 6000 (1025-65535)   |  |  |  |  |  |  |  |  |  |
|    | HTTP Port 46789 (1-65535)   |  |  |  |  |  |  |  |  |  |
|    |   |  |  |  |  |  |  |  |  |  |
|    |   |  |  |  |  |  |  |  |  |  |
|    |   |  |  |  |  |  |  |  |  |  |
|    | NOTE:   |  |  |  |  |  |  |  |  |  |
|    | If the IP address of your PC is changed, the server IP will be changed automatically.   |  |  |  |  |  |  |  |  |  |
|    | Account of the server, which is created in step 4 of section "Procedure .   |  |  |  |  |  |  |  |  |  |
|    | vStation Pro V7R1 Setup   |  |  |  |  |  |  |  |  |  |
|    | VStation Pro enter server running option  |  |  |  |  |  |  |  |  |  |
|    | The server needs to create an account so that you can access the server<br>through the account. The length of the password is at least 8 characters, and<br>the number and letter are required. |  |  |  |  |  |  |  |  |  |
|    | Port 6000 (1025-65535)  |  |  |  |  |  |  |  |  |  |
|    | User Name DocTest   |  |  |  |  |  |  |  |  |  |
|    | Password  |  |  |  |  |  |  |  |  |  |
|    | Confirm Password  |  |  |  |  |  |  |  |  |  |
|    |   |  |  |  |  |  |  |  |  |  |
|    | < <u>Back</u> <u>Next</u> > Cancel  |  |  |  |  |  |  |  |  |  |
| ۵  | Password of the server account  |  |  |  |  |  |  |  |  |  |
|    |   |  |  |  |  |  |  |  |  |  |

3. Click Log In.

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After logged in to the client, do not close the server.

### **Setup Wizard**

For the first login, the Setup Wizard will show up to guide you to add NVRs as follows.

1. On the displayed page, select the target NVR you want to add.

Ensure that the target NVR is located on the same broadcast domain (in a LAN) as your PC. You can also select multiple target NVRs.

| Station Pro |                          |                         |                    |               |                 | CPU: Memory:     | 10%<br>46%    | × ₹ – £ | × ۲ |
|-------------|--------------------------|-------------------------|--------------------|---------------|-----------------|------------------|---------------|---------|-----|
|             | (5                       |                         |                    |               |                 |                  |               |         |     |
|             | ( ) Auto Search          | + Add                   |                    |               |                 |                  |               |         |     |
|             | Please select the target | device and click Next . |                    |               |                 |                  |               |         |     |
|             | IP                       | Device Name             | Device Type        | Subnet Mask   | Default Gateway | Software Version | Serial Number | Enabled |     |
|             | 172.16.192.104           | Network Video Rec       | NVR2881-16128B/I   | 255.255.248.0 | 0.0.0.0         | 7.2.4.257(daily) | 0181CA07XX    | Yes     |     |
|             | 172.16.193.152           | Network Video Rec       | NVR1821-08032A     | 255.255.248.0 | 172.16.192.254  | 7.2.4.256(daily) | VB12455269    | Yes     |     |
|             | 172.16.192.102           | Network Video Rec       | NVR1821-04032A     | 255.255.224.0 | 172.16.192.254  | 7.2.4.257(daily) | VB12455269    | Yes     |     |
|             | 172.16.192.100           | Entry 1                 | NVR1821-08064A     | 255.255.224.0 | 172.16.192.254  | 7.2.4.257(daily) | VB12455269    | Yes     |     |
|             | 172.16.193.139           | Network Video Rec       | NVR2821-04009B/2LI | 255.255.224.0 | 172.16.192.254  | 7.2.3.324        | KDC0205245    | Yes     |     |
|             | 172.16.192.181           | Entry 2                 | NVR1821-08032A     | 255.255.248.0 | 172.16.192.254  | 7.2.4.236(daily) | 1623007386    | Yes     |     |
|             | 172.16.192.235           | Network Video Rec       | NVR1821-04009A     | 255.255.248.0 | 172.16.192.254  | 7.2.3.329        | 0181CA0TAD    | Yes     |     |
|             | 172.16.193.120           | Network Video Rec       | NVR1821-04009A     | 255.255.248.0 | 172.16.192.254  | 7.2.3.326        |               | Yes     |     |
|             | 172.26.1.100             | CORRIDOR 1              | NVR2881-16032B     | 255.255.255.0 | 0.0.0.0         | 7.2.3.37         | OLD8712345    | Yes     |     |
|             | 172.16.193.153           | Network Video Rec       | NVR1821-04009A     | 255.255.248.0 | 172.16.192.254  | 7.2.3.326        | 1540001400    | Yes     |     |
|             | 172.16.196.66            | Network Video Rec       | NVR2860E-08064A    | 255.255.224.0 | 172.16.192.254  | 7.2.2.713        | VB12455269    | Yes     |     |
|             | 192.168.1.100            | Operation Room 1-1      | NVR1821-04009A     | 255.255.255.0 | 0.0.0.0         | 7.2.4.228(daily) | 1540001400    | Yes     |     |
|             | 172.16.198.17            | Network Video Rec       | NVR1821-04009A     | 255.255.224.0 | 172.16.192.254  | 7.2.3.279        | VB12455269    | Yes     |     |
|             | _                        |                         |                    |               |                 |                  |               |         |     |
|             |                          |                         |                    |               |                 |                  |               |         |     |
|             | Search                   |                         |                    |               |                 |                  | Next          | Cancel  |     |
|             |                          |                         |                    |               |                 |                  |               |         |     |

If the target NVR is not located on the same broadcast domain (in a LAN) as your PC but you can ping it from your PC, manually add it as follows:

1) Click + Add

Add Device

 In the Add Device dialog box, specify parameters displayed. The following is an example.



- 3) Click OK.
- 4) Skip to step 5.

#### 2. Click Next.

3. In the displayed dialog box, specify parameters displayed.

| 🗿 Usernan | O Username and Password ×                            |                   |              |        |  |  |  |  |  |  |  |  |
|-----------|--|-------------------|--------------|--------|--|--|--|--|--|--|--|--|
| IP:       | IP:172.16.192.222 Device Name:Network Video Recorder |                   |              |        |  |  |  |  |  |  |  |  |
|           | Please enter a username of the device.               |                   |              |        |  |  |  |  |  |  |  |  |
|           |  |                   |              |        |  |  |  |  |  |  |  |  |
|           | Please enter a password.                             |                   |              |        |  |  |  |  |  |  |  |  |
|           |  |                   |              |        |  |  |  |  |  |  |  |  |
|           | ÷  | 80                |              |        |  |  |  |  |  |  |  |  |
|           | Use  | the same username | and password |        |  |  |  |  |  |  |  |  |
|           |  |                   |              |        |  |  |  |  |  |  |  |  |
|           |  |                   |              |        |  |  |  |  |  |  |  |  |
|           |  |                   | ОК           | Cancel |  |  |  |  |  |  |  |  |

Parameters are described as follows.

| <b>.</b>     | Username of the target NVR   |
|--------------|--|
| <b>A</b>     | Password of the username   |
| ÷            | Connection port of the target NVR                                    |
| Use the same | If the target NVRs have the same account and password, you can check |
| username and | this option to add these NVRs in a shorter time.                     |
| naseword     | If you do not check this option, you need to enter a username and    |
| password     | password for each target NVR.  |

- 4. Click OK.
- 5. (Optional) On the displayed page, you can double-click anywhere in the red box to change the target NVR information, such as the IP or port number.

| Station Pr   | 0 |         |                    |                               |                    |                      |                               | CPU:<br>Memory:        | 9%<br>46%  | Х च – в × |
|--------------|---|---------|--------------------|-------------------------------|--------------------|----------------------|-------------------------------|------------------------|------------|-----------|
| Add Device   |   | In this | s step, you can dc | ouble-click the target device | to edit the device | nformation. If you a | are sure that the device info | rmation is correct, cl | ick Next . |           |
| Verification |   |         | IP/URL             | Device Name                   | Connection Port    | Device Type          | Usemame                       | Connection Status      |            | Reconnect |
|              |   |         | 172.16.192.123     | 172.16.192.123                | 80                 | NVR                  | admin                         | Connecting Failed      |            |           |
| Dana         |   |         | 172.16.192.138     | 172.16.192.138                | 80                 | NVR                  | admin                         | Connected              |            |           |
| • Done       |   |         | 172.16.192.222     | 172.16.192.222                | 80                 | NVR                  | admin                         | Connected              |            |           |
|              |   |         | 172.16.246.70      | NVR with P                    | 80                 | NVR                  | admin                         | Connected              |            |           |
|              |   | Δ       | ۸dd Device         | Delete Device                 |                    |                      |                               |                        |            |           |
|              |   |         | tuu Device         | Delete Device                 |                    |                      |                               |                        |            |           |
|              |   |         |                    |                               |                    |                      |                               | Prev                   | ious Next  | Cancel    |
|              |   |         |                    |                               |                    |                      |                               |                        |            |           |

6. Click Next.

7. (Optional) Determine whether to show the Setup Wizard every time the client is started.

| O vStation Pro  | CPU:11% ⊡ I ▼ - □ × |
|---|---------------------|
| Add Device<br>Verification<br>© Done<br>Output<br>Vou have added 1 devices. | Memory: 50%         |
| ☑ Always Show Setup Wizard  | Done                |

8. Click Done.

# **Control Panel**

Under **Control Panel**, you can configure the following items.



These items involve the following actions.

|               | 0                        |                   |   |
|---------------|--------------------------|-------------------|---|
| O==<br>Device | Adding NVRs              | Group             | Grouping Cameras Registering with<br>Different NVRs |
| User          | Adding Client Accounts   | Local             | Configuring Client Settings                         |
| Settings      | Configuring NVR Settings | En)<br>Language   | Choosing the Display Language                       |
| O<br>E-Map    | Configuring E-Map        | ि<br>AI           | Face Detection                                      |
| Log           | Querying Logs            | N+1 Hot<br>Backup | Configuring N+1 Hot Backup                          |

# Adding NVRs

#### Under Device, you can add NVRs.

| Station Pro                                   | 🗄 Control Panel 🗙 🕂 |  |               |                               | CPU: 10% 대 오<br>Memory: 55% 대 오 | ₹ — & ×   |  |  |  |  |  |  |
|---|---------------------|--|---------------|-------------------------------|---------------------------------|-----------|--|--|--|--|--|--|
| O==<br>Device Group                           | User Local Set      | C En | ා<br>E-Map Al | 三: 中<br>Log N+1 Hot<br>Backup |                                 |           |  |  |  |  |  |  |
| You can search, add, and delete devices here. |                     |  |               |                               |                                 |           |  |  |  |  |  |  |
| IP/URL  | Device Name         | Connection Port                          | Device Type   | Usemame                       | Connection Status               | Reconnect |  |  |  |  |  |  |
| 172.16.192.123                                | 172.16.192.123      | 80                                       | NVR           | admin                         | Connected                       | Reconnect |  |  |  |  |  |  |
| 172.16.192.138                                | 172.16.192.138      | 80                                       | NVR           | admin                         | Connected                       |           |  |  |  |  |  |  |
| 172.16.192.222                                | 172.16.192.222      | 80                                       | NVR           | admin                         | Connected                       |           |  |  |  |  |  |  |
|   |                     |  |               |                               |                                 |           |  |  |  |  |  |  |
| Auto Search                                   | Add Delete Devie    | ce                                       |               |                               |                                 | Refresh   |  |  |  |  |  |  |

#### Method 1

To add a target NVR from searching results:

- 1. Click Auto Search
- 2. Select the target NVR from the search results and click

You can also select multiple target NVRs you want to add.

 In the displayed dialog box, enter a username, a password, and a port number. In this step, you can check the following option if the multiple target NVRs use the same username, password, and port number.

Use the same username and password

4. Click OK.

#### Method 2

To manually add a target NVR, see step 1 of section "Setup Wizard".

### **Grouping Cameras Registering with Different NVRs**

Under **Group**, you can group cameras registering with different NVRs together. In this way, you can query these cameras' videos directly without bothering to unfold different NVRs in the first place. In the following figure, these cameras register with different NVRs.



A maximum of 32 camera groups can be created. To create a camera group:

- 1. Click + Add
- 2. In the displayed dialog box, enter a group name. The following is an example.



3. Click OK.

KEDACOM 苏州科达科技股份有限公司 Suzhou Keda Technology Co.,Ltd 4. Drag cameras under the **Device List** to the middle pane. The following is an example.

| SvStation Pro Control Panel × |               |         |      | +     |          |                |            |         |           | CPU:<br>Memory: | 15% ↔ 옷 ▼ - & × |                    |
|-------------------------------|---------------|---------|------|-------|----------|----------------|------------|---------|-----------|-----------------|-----------------|--------------------|
| (<br>c                        | O==<br>Device | Group   | User | Local | Settings | En<br>Language | O<br>E-Map | {ଞ<br>▲ | E:<br>Log | 바다<br>N+1 Hot   |                 |                    |
|                               |               |         |      |       |          |                |            |         |           | Backup          |                 |                    |
|                               |               | Gr      | oup  |       | No.      | So             | urce       |         |           | Device          |                 | Device List        |
|                               | 💷 Doc         | :Test-1 |      | 8     |          | NVR            | with P     |         |           | D1 IPCameratest |                 |                    |
|                               |               |         |      |       |          | 172.16         | .192.138   |         |           | D1 D1 221       |                 | ▶ 回 172.16.192.138 |
|                               |               |         |      |       |          | 172.16         | .192.123   |         |           | D1 221          |                 | ▶                  |
|                               |               |         |      |       |          |                |            |         |           |                 |                 | * 原語 NVR with P    |
|                               |               |         |      |       |          |                |            |         |           |                 |                 | D1 IPCameratest    |
|                               |               |         |      |       |          |                |            |         |           |                 |                 | D2 zhou-246        |
|                               |               |         |      |       |          |                |            |         |           |                 |                 | □1 D3 zhou_tset3   |
|                               |               |         |      |       |          |                |            |         |           |                 |                 | 📑 D4 z-1           |
|                               |               |         |      |       |          |                |            |         |           |                 |                 |                    |
|                               |               |         |      |       |          |                |            |         |           |                 |                 |                    |
|                               |               |         |      |       |          |                |            |         |           |                 |                 |                    |
|                               |               |         |      |       |          |                |            |         |           |                 |                 |                    |
|                               |               |         |      |       |          |                |            |         |           |                 |                 |                    |
|                               |               |         |      |       |          |                |            |         |           |                 |                 |                    |
|                               |               |         |      |       |          |                |            |         |           |                 |                 |                    |
|                               | + Add         |         |      |       |          |                |            |         |           | Save            | Clear           |                    |
|                               |               |         |      |       |          |                |            |         |           |                 |                 |                    |

#### 5. Click Save.

To rename a camera group, double-click it and enter a new name.

To delete a camera group, click 🛛 and confirm your operation.

To remove a camera from a camera group, click 🔯 and confirm your operation.

## **Adding Client Accounts**

Under User, you can add client accounts.

|           | ,      | ,        |               |             |          |       |      |     |                | CPU     | _ | 14%         |     |     |     |
|-----------|--------|----------|---------------|-------------|----------|-------|------|-----|----------------|---------|---|-------------|-----|-----|-----|
| 🔘 vStatio | on Pro | E Contra | ol Panel 🗙    | 🗜 Live      |          |       |      |     |                | Memory: |   | <b>5</b> 7% | ≳ ₹ | - 6 | 7 × |
| 0==       | F      | Q        | <u>^</u> &    | <i>(</i> 0) | Ē        | 0     | S    |     | 쉬수             |         |   |             |     |     |     |
| Device    | Group  |          |               | Settings    |          | E-Man | LC-3 |     | ITI<br>N+1 Hot |         |   |             |     |     |     |
| Derice    | Cloup  | 030      | 2000          | Octango     | Language | L-map |      | LUg | Backup         |         |   |             |     |     |     |
| (Â)       |        | D        | ocTest        |             |          |       |      |     |                |         |   |             |     |     |     |
| × ₽       |        | Ch       | ange Password |             |          |       |      |     |                |         |   |             |     |     |     |
|           |        |          |               |             |          |       |      |     |                |         |   |             |     |     |     |
|           |        |          |               |             |          |       |      |     |                |         |   |             |     |     |     |
|           |        |          |               |             |          |       |      |     |                |         |   |             |     |     |     |
|           |        |          |               |             |          |       |      |     |                |         |   |             |     |     |     |
|           |        |          |               |             |          |       |      |     |                |         |   |             |     |     |     |
|           |        |          |               |             |          |       |      |     |                |         |   |             |     |     |     |
|           |        |          |               |             |          |       |      |     |                |         |   |             |     |     |     |
|           |        |          |               |             |          |       |      |     |                |         |   |             |     |     |     |
|           |        |          |               |             |          |       |      |     |                |         |   |             |     |     |     |
|           |        |          |               |             |          |       |      |     |                |         |   |             |     |     |     |
|           |        |          |               |             |          |       |      |     |                |         |   |             |     |     |     |

To add a client account:





2. Enter a username and password and confirm the password. The following is an example.

| O vStation Pro | 88 | Control | Panel X          | 군 Live                  | +              |           |                 |                 |                     | CPU: Memory:                   | 8%<br>57% | <u> ۹</u> | ₹ — | ъ×   | : |
|----------------|----|---------|------------------|-------------------------|----------------|-----------|-----------------|-----------------|---------------------|--------------------------------|-----------|-----------|-----|------|---|
|                |    | ୧       | ×                | $\langle \circ \rangle$ | En             | $\odot$   | Ł               |                 | 남<br>다              |                                |           |           |     |      |   |
| Device Group   |    | Jser    | Local            | Settings                | Language       | E-Map     |                 | Log             | N+1 Hot<br>Backup   |                                |           |           |     |      |   |
| A A            |    |         | ld User          |                         |                |           |                 |                 |                     |                                |           |           |     |      |   |
| 📯 DocTest      |    |         | Username         | Jonny Park              | er             |           |                 |                 |                     |                                |           |           |     |      |   |
|                |    |         | Password         | •••••                   |                |           | (A password mus | t be at least 8 | characters long and | d contain letters and digits.) |           |           |     |      |   |
|                |    | Confir  | rm Password      | •••••                   |                |           |                 |                 |                     |                                |           |           |     |      |   |
|                |    | Devi    | ice Authorizatio | n                       | Operation Auth | orization |                 |                 |                     |                                |           |           |     |      |   |
|                |    |         | All              |                         |                |           |                 |                 | Device              | Device List                    | Group     |           |     |      |   |
|                |    |         | Viewing and      | I Playback              |                |           |                 |                 | < 🗌 172             | .16.192.123                    |           |           |     |      |   |
|                |    |         | Downloaded       | d records               |                |           |                 |                 | < 🗌 172             | .16.192.138                    |           |           |     |      |   |
|                |    |         | Settings         |                         |                |           |                 |                 | < 🗌 172             | .16.192.222                    |           |           |     |      |   |
|                |    |         | PTZ Contro       | I                       |                |           |                 |                 | < 🗌 NVF             | R with P                       |           |           |     |      |   |
|                |    |         |                  |                         |                |           |                 |                 |                     |                                |           |           |     |      |   |
|                |    |         |                  |                         |                |           |                 |                 |                     |                                |           |           |     |      |   |
|                |    |         |                  |                         |                |           |                 |                 |                     |                                |           |           |     |      |   |
|                |    |         |                  |                         |                |           |                 |                 |                     |                                |           |           |     |      |   |
|                |    |         |                  |                         |                |           |                 |                 |                     |                                |           | ŎК        |     | Back |   |

The more complex a password is, the stronger it is. You are advised to use a strong password to ensure your data safety. Periodically changing your password at 3-month intervals would be appreciated. If your network environment is risky, you should change your password at weekly or monthly intervals. Additionally, do not leak your username and password.

3. Grant the account device/operation authorization.

|  | e Authorizat  | ion Opera                  | ation Authorization                                     |                     |  |                                 |              |             |      |  |
|--|---|----------------------------|---|---------------------|--|---------------------------------|--------------|-------------|------|--|
| <b>~</b>   | All   |                            |   |                     | Device   | Device List                     | Group        |             |      |  |
| <b>_</b>   | Viewing an  | nd Playback                |   |                     | < 🗹 172.16.1   | 192.123                         |              |             |      |  |
|  | Downloade   | ed records                 |   |                     | < 🗹 172.16.1   | 192.138                         |              |             |      |  |
|  | Settings  |                            |   |                     | < 🔽 172.16.192.222   |                                 |              |             |      |  |
|  | PTZ Contr   | ol                         |   |                     | < 🔽 NVR with   | h P                             |              |             |      |  |
|  |   |                            |   |                     |  |                                 |              |             |      |  |
|  |   |                            |   |                     |  |                                 |              |             |      |  |
|  |   |                            |   |                     |  |                                 |              |             |      |  |
|  |   |                            |   |                     |  |                                 |              |             | _    |  |
|  |   |                            |   |                     |  |                                 |              | OK          | Back |  |
|  |   |                            |   |                     |  |                                 |              |             |      |  |
|  |   |                            |   |                     |  |                                 |              |             |      |  |
| Device   | Authorizatio  | on Opera                   | tion Authorization                                      |                     |  |                                 |              |             |      |  |
| Device<br>Tab Page                                   | Authorizatio  | on Opera                   | tion Authorization                                      |                     |  |                                 |              |             |      |  |
| Device   | Authorizatio  | Opera                      | tion Authorization                                      | E-Map               | Al Events  | Real-Time Capture               | s 🔽 New Tab  |             |      |  |
| Device   | Authorizatio  | on Opera                   | tion Authorization                                      | 🕑 E-Map             | ✓ AI Events  | Real-Time Capture               | es 🔽 New Tab |             |      |  |
| Device<br>Tab Page<br>Control<br>Operation           | Authorizatio  | on Opera                   | lion Authorization                                      | ♥ E-Map             | Al Events  | ✓ Real-Time Capture             | is 🔽 New Tab |             |      |  |
| Device<br>Tab Page<br>Control<br>Operation           | e Authorizatio<br>I Panel<br>e devices                  | on Opera                   | tion Authorization<br>✓ Playback<br>Configure local s   | ⊡ E-Map<br>settings | ✓ Al Events ☐ Configure E-Map s                              | ✓ Real-Time Capture<br>settings | is ☑ New Tab | AI settings |      |  |
| Device<br>Tab Page<br>Control<br>Operation<br>Manage | e Authorizatio  | on <u>Opera</u>            | ion Authorization<br>✓ Playback<br>☐ Configure local s  | ✓ E-Map<br>Nettings | ✓ AI Events Configure E-Map s                                | ✓ Real-Time Capture<br>settings | is           | Al settings |      |  |
| Device Tab Page Control Operation Manage Enable      | e Authorizatio<br>I Panel<br>e devices<br>e screen auto | on Opera                   | ion Authorization<br>✓ Playback<br>☐ Configure local s  | ✓ E-Map<br>Hettings | ✓ AI Events ☐ Configure E-Map s                              | ☑ Real-Time Capture<br>settings | is           | AI settings |      |  |
| Device Tab Page Control Operation Manage Enable      | e Authorizatio  | Opera<br>✓ Live<br>Hocking | tion Authorization<br>✓ Playback<br>☐ Configure local s | ✓ E-Map<br>wettings | ☑ AI Events  | ✓ Real-Time Capture<br>settings | is           | Al settings |      |  |
| Device Tab Page Control Operation Manage Enable      | e Authorizatic<br>I Panel<br>e devices<br>• screen auto | on Opera                   | V Playback     Configure local s                        | ✓ E-Map<br>Hettings | <ul> <li>✓ AI Events</li> <li>☐ Configure E-Map s</li> </ul> | ✓ Real-Time Capture<br>settings | is ♥ New Tab | AI settings |      |  |

If you want to grant the account the live video viewing and playback authorization for all cameras under NVR A (for example, 172.16.192.123), check the following:



NOTE:

If you want to grant the account the authorization for all cameras under all NVRs, select all NVRs.

If you want to grant the account the record download authorization for all cameras under NVR A, check the following:

| Devi | ce Authorization     | Operation Authorization |       |        |                           |        |       |
|------|----------------------|-------------------------|-------|--------|---------------------------|--------|-------|
|      | All                  | 1                       | Devic | e      | <ul> <li>Devic</li> </ul> | e List | Group |
|      | Viewing and Playback |                         | <     | 172.16 | .192.123                  |        |       |
|      | Downloaded records   |                         |       | 172.16 | .192.138                  |        |       |
|      | Settings             |                         |       | 172.16 | .192.222                  |        |       |
|      | PTZ Control          |                         |       | NVR w  | /ith P                    |        |       |
|      |                      |                         |       |        |                           |        |       |

If you want to grant the account the NVR configuration authorization for all NVRs on the vStation Pro, check the following:

|              | Devic          | e Authorization | Operati               | on Authorization |                |               |                    |           |           |
|--------------|----------------|-----------------|-----------------------|------------------|----------------|---------------|--------------------|-----------|-----------|
|              |                | All             |                       |                  |                |               | Device             | 💿 De      | vice List |
|              |                | Viewing and Pla | ayback                |                  |                |               | 172.16             | 6.192.123 |           |
|              |                | Downloaded red  | cords                 |                  |                |               | ✓ 172.16           | 6.192.138 |           |
|              |                | Settings        |                       |                  |                |               | ✓ 172.16           | 6.192.222 |           |
|              |                | PTZ Control     |                       |                  |                |               | NVR w              | vith P    |           |
|              |                |                 |                       |                  |                |               |                    |           |           |
| (            | Device Authori | zation Op       | eration Authorization |                  |                |               |                    |           |           |
| Tab          | Page           |                 |                       |                  |                |               |                    |           |           |
| <b>v</b>     | Control Panel  | V Live          | Playback              | 🔽 E-Map          | Al Events      | 🔽 Real-Time C | Captures 🔽 New Tab |           |           |
| Ope          | ration         |                 |                       |                  |                |               |                    |           |           |
|              | Aanage device  | s               | Configure loca        | l settings       | Configure E-Ma | p settings    | Configure AI       | settings  |           |
| <b>[</b> ] E | Enable screen  | auto-locking    |                       |                  |                |               |                    |           |           |

If you want to grant the account the screen auto-locking authorization for the vStation Pro, check the following:

| Devic     | e Authori    | zation       | Operation Authoriz | ation    |                 |                 |                       |       |
|-----------|--------------|--------------|--------------------|----------|-----------------|-----------------|-----------------------|-------|
|           | All          |              |                    |          |                 | Device          | Device List           | Group |
|           | Viewing      | and Playback |                    |          |                 | < 🗹 172.1       | 16.192.123            |       |
|           | Downlo       | aded records |                    |          |                 | < 🔽 172.1       | 16.192.138            |       |
|           | Setting      | 5            |                    |          |                 | < 🗹 172.1       | 16.192.222            |       |
|           | PTZ Co       | ontrol       |                    |          |                 | < 🗹 NVR         | with P                |       |
|           |              |              |                    |          |                 |                 |                       |       |
| Device    | Authorizatio | on Opera     | tion Authorization |          |                 |                 |                       |       |
| Tab Page  |              |              |                    |          |                 |                 |                       |       |
| Control   | Panel        | 🛃 Live       | Playback           | 🔽 E-Map  | Al Events       | 🔽 Real-Time Cap | otures 🔽 New Tab      |       |
| Operation |              |              |                    |          |                 |                 |                       |       |
| Manage    | edevices     |              | Configure local s  | settings | Configure E-Map | settings        | Configure AI settings |       |
| Enable :  | screen auto  | ⊢locking     |                    |          |                 |                 |                       |       |

If you want to grant the account the creating a custom tab page authorization for NVR A, check the following:

| Devid      | e Auth     | orization        | Operation Authoriz | zation  |                 |                |                       |       |
|------------|------------|------------------|--------------------|---------|-----------------|----------------|-----------------------|-------|
|            | All        |                  |                    |         |                 | Device         | Device List           | Group |
|            | View       | ing and Playback |                    |         |                 | < 🗹 172.1      | 16.192.123            |       |
|            | Dowr       | nloaded records  |                    |         |                 | < 🗌 172.1      | 16.192.138            |       |
|            | Setti      | ngs              |                    |         |                 | < 🗌 172.1      | 16.192.222            |       |
|            | PTZ        | Control          |                    |         |                 | < 🗌 NVR        | with P                |       |
|            |            |                  |                    |         |                 |                |                       |       |
| Device Au  | ithorizati | on Operati       | on Authorization   |         |                 |                |                       |       |
| Tab Page   |            |                  |                    |         |                 |                |                       |       |
| Control Pa | inel       | 🔽 Live           | Playback           | 🗹 Е-Мар | Al Events       | Real-Time Capt | ures 🔽 New Tab        |       |
| Operation  |            |                  |                    |         |                 |                |                       |       |
| Manage d   | evices     |                  | Configure local se | ettings | Configure E-Map | settings       | Configure AI settings |       |
| Enable sc  | reen auto  | o-locking        |                    |         |                 |                |                       |       |

If you want to grant the account the authorization of managing devices, configuring local settings, configuring E-Map settings, and configuring AI settings for NVR A, check the following:

|   | Devid                      | ce Authorization      | Operation Authoriz | ation   |                 |                    |                       |       |
|---|----------------------------|-----------------------|--------------------|---------|-----------------|--------------------|-----------------------|-------|
|   |                            | All                   |                    |         |                 | Device             | Device List           | Group |
|   |                            | Viewing and Playback  |                    |         |                 | < 🗹 172.16.1       | 92.123                |       |
|   |                            | Downloaded records    |                    |         |                 | < 🗌 172.16.1       | 92.138                |       |
|   |                            | Settings              |                    |         |                 | < 🗌 172.16.1       | 92.222                |       |
|   |                            | PTZ Control           |                    |         |                 | < 🗌 NVR wit        | h P                   |       |
|   |                            |                       |                    |         |                 |                    |                       |       |
|   | Device A                   | uthorization Operatio | on Authorization   |         |                 |                    |                       |       |
| 1 | ab Page                    |                       |                    |         |                 |                    |                       |       |
|   | Control P                  | anel 🔽 Live           | Playback           | 🗹 E-Map | Al Events       | Real-Time Captures | : 🔽 New Tab           |       |
| ¢ | Operation                  |                       |                    |         |                 |                    |                       |       |
| C | Manage o                   | levices               | Configure local se | attings | Configure E-Map | settings           | Configure AI settings |       |
|   | Enable screen auto-locking |                       |                    |         |                 |                    |                       |       |

If you want to grant the account the authorization of only managing devices for NVR A, check the following:

| Devic      | e Authorization      | Operation Authori  | zation  |                   |                   |                       |       |
|------------|----------------------|--------------------|---------|-------------------|-------------------|-----------------------|-------|
|            | All                  |                    |         |                   | Device            | Device List           | Group |
|            | Viewing and Playback |                    |         |                   | < 🗹 172.1         | 6.192.123             |       |
|            | Downloaded records   |                    |         |                   | < 🗌 172.1         | 6.192.138             |       |
|            | Settings             |                    |         |                   | < 🗌 172.1         | 6.192.222             |       |
|            | PTZ Control          |                    |         |                   | < 🗌 NVR           | with P                |       |
|            |                      |                    |         |                   |                   |                       |       |
| Device Au  | uthorization Operati | on Authorization   |         |                   |                   |                       |       |
| Tab Page   |                      |                    |         |                   |                   |                       |       |
| Control Pa | anel 🔽 Live          | Playback           | 🗹 E-Map | Al Events         | 🔽 Real-Time Captu | ıres 🔽 New Tab        |       |
| Operation  |                      |                    |         |                   |                   |                       |       |
| Manage de  | evices               | Configure local se | ettings | Configure E-Map s | settings          | Configure AI settings |       |
| Enable sc  | reen auto-locking    |                    |         |                   |                   |                       |       |

#### NOTE:

This method also applies to the authorization granting of **configuring local settings**, **configuring E-Map settings**, **and configuring AI settings**.

4. Click OK.

## **Configuring Client Settings**

Under Local, you can configure client settings.

| 🔘 vStatio | n Pro | Control Panel   | × +              |                   |                 |                     |               |                     | CPU:<br>Memory: |        | 9%<br>49% | ≳ ₹ | - 6 | 5 × |
|-----------|-------|-----------------|------------------|-------------------|-----------------|---------------------|---------------|---------------------|-----------------|--------|-----------|-----|-----|-----|
| 0==       |       | 8 2             | \$ (?)           | En                | $\odot$         | 6                   | =             |                     |                 |        |           |     |     |     |
| Device    | Group | User Lo         | xcal Settings    | Language          | E-Map           |                     | Log           | N+1 Hot             |                 |        |           |     |     |     |
|           |       |                 |                  |                   |                 |                     |               | васкир              |                 |        |           |     |     |     |
|           |       | Viewing         | Protocol         |                   |                 | TCP                 |               |                     |                 |        | Î         |     |     |     |
|           |       |                 | Stream Preferre  | ł                 |                 | Main                |               | Secondary           |                 |        |           |     |     |     |
|           |       |                 | Picture Quality  |                   |                 | Ordinary            |               | High                |                 |        |           |     |     |     |
|           |       |                 | Ratio            |                   |                 | ● Fill              |               | O 4:3               | 0 16:9          |        |           |     |     |     |
|           |       |                 | When Double-Cl   | ck Viewing Window |                 | Push Viewir         | ng Contents   |                     |                 |        |           |     |     |     |
|           |       |                 | Viewing Window   | Border            |                 | Common              |               |                     |                 |        |           |     |     |     |
|           |       | Record          | Local Record Sa  | ve Path           |                 | s (x86)/vStat       | ion Pro/IPC   | Search/language/zh  | NvStationRecord | Browse |           |     |     |     |
|           |       |                 | Downloaded Rei   | ord Save Path     |                 | s (x86)/vStat       | ion Pro/IPC   | Search/language/zh  | NvStationRecord | Browse |           |     |     |     |
|           |       |                 | Download F       | ecord Player Toge | ther with Recc  | ords                |               |                     |                 |        |           |     |     |     |
|           |       | Snapshot        | Save Path for S  | napshots During V | iewing          | les (x86)/vSt       | ation Pro/IP  | CSearch/language/:  | zh\vStationSnap | Browse |           |     |     |     |
|           |       |                 | Save Path for S  | napshots During P | layback         | les (x86)/vSt       | ation Pro/IP  | 'CSearch/language/: | zh\vStationSnap | Browse |           |     |     |     |
|           |       | Alarm Linkage   | Sound Aler       |                   |                 | F:\Program F        | ⁼iles (x86)\v | Station Pro\alarm.w | av              | Browse |           |     |     |     |
|           |       |                 |                  |                   |                 | Save                |               |                     |                 |        |           |     |     |     |
|           |       |                 |                  |                   |                 |                     |               |                     |                 |        |           |     |     |     |
|           |       |                 | Dwell Time for L | inkage of Alarm C | apture/Live Vic | leo/Alarm Playba    | ick 15        | (10-99999)s         |                 |        |           |     |     |     |
|           |       | Setup Wizard    | Always Sho       | w Setup Wizard    |                 |                     |               |                     |                 |        |           |     |     |     |
|           |       | Login           | Auto             |                   |                 | Autostart           | at Windows    | s Startup           |                 |        |           |     |     |     |
|           |       | Lock Screen     | Enable           |                   |                 | 0 mi                | nutes later f | the vStation screen | will be locked  |        |           |     |     |     |
|           |       | Compatible Mode | Run this pro     | gram in compatibl | e mode. (*Take  | e effect after rest | arting.)      |                     |                 |        |           |     |     |     |
|           |       |                 |                  |                   |                 | Save                |               |                     |                 |        |           |     |     |     |

Parameters displayed are described as follows.

|         | Protocol                            | Viewing protocol  |  |  |  |  |
|---------|-------------------------------------|---|--|--|--|--|
|         | Stream Preferred                    | Stream preferred for viewing  |  |  |  |  |
|         | Picture Quality                     | Picture quality   |  |  |  |  |
|         | Ratio                               | Video ratio   |  |  |  |  |
|         |                                     | The available values are as follows:  |  |  |  |  |
|         |                                     | Switch Between Main/Secondary Stream<br>Push Viewing Contents<br>View in Full Screen  |  |  |  |  |
| Viewing | When Double-Click<br>Viewing Window | <ul> <li>View in Full Screen         This option enables the video played in the viewing window to be viewed in full screen mode.         </li> <li>Switch Between Main/Secondary Stream         This option switches between the main/secondary streams in the viewing window.         </li> <li>Push Viewing Contents         This option pushes the video played in a viewing window to viewing windows configured to receive pushed contents. For details, see section "Receiving Pushed Contents".     </li> </ul> |  |  |  |  |
|         | Viewing Window                      | Select a border type for each viewing window.   |  |  |  |  |

|                  | Border  | The available values are as follows:   |
|------------------|---|--|
|                  |   | Common   |
|                  |   | Appealing  |
|                  |   | Common The following is an example   |
|                  |   | <ul> <li>Appealing</li> </ul>  |
|                  |   | The following is an example.   |
|                  |   | 84202 Factor and a second seco |
|                  | Local Record Save   | Path for saving local records. For details, see section "Viewing Control"  |
|                  | Downloaded  | Path for saving downloaded camera records. For details, see  |
| Record           | Record Save Path  | section "Downloading Records".   |
|                  | Download Record<br>Player Together<br>with Records                | Whether to download our record player when records are being downloaded.   |
| Snanshot         | Save Path for<br>Snapshots During<br>Viewing                      | Path for saving local captures. For details, see section "Viewing Control".  |
| Chaponot         | Save Path for<br>Snapshots During<br>Playback                     | Path for saving captures made during playbacks. For details, see section "Playback Controls".  |
|                  | Sound Alert   | When this option is checked, the sound alert will be raised if the client receives an alarm from an NVR or camera. The sound alert will stop when the related alarm is cleared.  |
| Alarm<br>Linkage | Dwell Time for<br>Linkage of Alarm<br>Capture/Live<br>Video/Alarm | For details, see section "Showing Linked Alarms".  |
|                  | Plavback  |  |

| Wizard              | Setup Wizard                               | started.  |
|---------------------|--|---|
| Login               | Auto                                       | Whether to enable automatic login   |
| Lock<br>Screen      | Enable                                     | Whether to enable screen auto-locking.<br>If check Enable, you need to enter a value in the following text<br>box.<br>0 minutes later the vStation screen will be locked                            |
| Compatib<br>le Mode | Run this program<br>in compatible<br>mode. | You are advised to check this option if you cannot run the vStation<br>Pro on a PC using the Windows 7/10 operating system. If the<br>problem persists, contact the local authorized Kedacom agent. |

# **Configuring NVR Settings**

Under **Settings**, you can configure NVRs.

| 🗿 vStatio    | on Pro | 🔡 Cor | ntrol Panel X  | 모 Live                    | +          |         |            |     |                   | CPU:<br>Memory: | 64 | 1%<br>1% | × ; | ₹ — | 8×     |
|--------------|--------|-------|----------------|---------------------------|------------|---------|------------|-----|-------------------|-----------------|----|----------|-----|-----|--------|
| 0==          |        | 8     | X              | $\langle \hat{O} \rangle$ | En         | $\odot$ | <u>ل</u> ع |     |                   |                 |    |          |     |     |        |
| Device       | Group  | User  | Local          | Settings I                | anguage    | E-Map   |            | Log | N+1 Hot<br>Backup |                 |    |          |     |     |        |
| 0            |        |       |                |                           |            |         |            |     |                   |                 |    |          |     |     |        |
| Reywo        | nd .   |       | Davias Nama    |                           | Connection | . Rot   |            |     |                   | Connection Stat | 10 | Pottingo |     |     |        |
| 172.16.192.1 | 123    |       | 172 16 192 123 |                           | 80         | in ron  |            | NVR |                   | Online          | 10 | Settings |     |     |        |
| 172.16.192.1 | 138    |       | 172.16.192.138 |                           | 80         |         |            | NVR |                   | Online          |    | Settings |     |     |        |
| 172.16.192.2 | 222    |       | 172.16.192.222 |                           | 80         |         |            | NVR |                   | Online          |    |          |     |     |        |
| 172.16.246.  | 70     |       | NVR with P     |                           | 80         |         |            | NVR |                   | Online          |    |          |     |     |        |
|              |        |       |                |                           |            |         |            |     |                   |                 |    |          |     |     |        |
|              |        |       |                |                           |            |         |            |     |                   |                 |    |          |     |     |        |
|              |        |       |                |                           |            |         |            |     |                   |                 |    |          |     |     |        |
|              |        |       |                |                           |            |         |            |     |                   |                 |    |          |     |     |        |
|              |        |       |                |                           |            |         |            |     |                   |                 |    |          |     |     |        |
|              |        |       |                |                           |            |         |            |     |                   |                 |    |          |     |     |        |
|              |        |       |                |                           |            |         |            |     |                   |                 |    |          |     |     |        |
|              |        |       |                |                           |            |         |            |     |                   |                 |    |          |     |     |        |
|              |        |       |                |                           |            |         |            |     |                   |                 |    |          |     |     |        |
|              |        |       |                |                           |            |         |            |     |                   |                 |    |          |     | R   | efresh |
|              |        |       |                |                           |            |         |            |     |                   |                 |    |          |     |     |        |

To configure an NVR, click **Settings** on its row. For details on how to configure an NVR, see the related user guide.

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| 🗿 vStatio                  | on Pro     | Control  | Panel ×  | Live                      | +       |            |             |    |       | CPU:<br>Memory: | 12% <u></u> 64% | ₹ - | · 8     | × |
|----------------------------|------------|----------|----------|---------------------------|---------|------------|-------------|----|-------|-----------------|-----------------|-----|---------|---|
| 0==                        |            | 2        | <b>%</b> | $\langle \hat{o} \rangle$ | En      | $\bigcirc$ | <u>(</u> @  | =: | 中     |                 |                 |     |         |   |
| Device                     | Group      | 🗿 Settin | gs       |                           | 172.1   | 6.246.70   |             |    |       |                 | - 🗆 ×           |     |         |   |
| Q Keywo                    | rd         |          |          |                           |         |            |             |    |       |                 |                 |     |         |   |
| IP                         |            |          |          |                           |         |            |             |    |       |                 |                 |     |         |   |
| 172.16.192.<br>172.16.192. | 123<br>138 |          |          | 8                         |         |            | <b>E</b>    |    | Ê     |                 | 2               |     |         |   |
| 172.16.192.<br>172.16.246. | 222<br>70  |          | Local    |                           | Channel |            | Camera      |    | Event | Network         | Capture         |     |         | _ |
|                            |            |          |          |                           |         |            |             |    |       |                 |                 |     |         |   |
|                            |            |          |          |                           | NG      |            |             |    |       |                 |                 |     |         |   |
|                            |            |          |          |                           |         |            |             |    |       |                 |                 |     |         |   |
|                            |            |          | Storag   | 9                         | System  |            | Maintenance | 9  |       |                 |                 |     |         |   |
|                            |            |          |          |                           |         |            |             |    |       |                 |                 |     |         |   |
|                            |            |          |          |                           |         |            |             |    |       |                 |                 |     |         |   |
|                            |            |          |          |                           |         |            |             |    |       |                 |                 |     | Refresh |   |

### **Choosing the Display Language**

Under Language, you can configure the display language of the client.

| 🗿 vStatio | on Pro       | Contr | ol Panel 🗙                 | 🗜 Live                    | +        |         |   |     |                   | CPU:<br>Memory: | 38% ••• × | , | - & × |
|-----------|--------------|-------|----------------------------|---------------------------|----------|---------|---|-----|-------------------|-----------------|-----------|---|-------|
| 0==       |              | 8     | <u>}</u>                   | $\langle \hat{O} \rangle$ | En       | $\odot$ | 6 | =:  |                   |                 |           |   |       |
| Device    | Group        | User  | Local                      | Settings                  | Language | E-Map   |   | Log | N+1 Hot<br>Backup |                 |           |   |       |
|           |              |       |                            |                           |          |         |   |     |                   |                 |           |   |       |
|           |              |       |                            |                           |          |         |   |     |                   |                 |           |   |       |
|           | Display Lang | juage | English                    |                           |          |         |   |     |                   |                 |           |   |       |
|           |              |       | 简体中文<br>English<br>Percoge |                           |          |         |   |     |                   |                 |           |   |       |
|           |              |       | Español<br>築體中文            |                           |          |         |   |     |                   |                 |           |   |       |
|           |              |       | Český Jazyk<br>Türkçe      |                           |          |         |   |     |                   |                 |           |   |       |
|           |              |       |                            |                           |          |         |   |     |                   |                 |           |   |       |
|           |              |       |                            |                           |          |         |   |     |                   |                 |           |   |       |
|           |              |       |                            |                           |          |         |   |     |                   |                 |           |   |       |
|           |              |       |                            |                           |          |         |   |     |                   |                 |           |   |       |
|           |              |       |                            |                           |          |         |   |     |                   |                 |           |   |       |
|           |              |       |                            |                           |          |         |   |     |                   |                 |           |   |       |
|           |              |       |                            |                           |          |         |   |     |                   |                 |           |   |       |

## **Configuring E-Map**

The E-Map function works together with the Face Detection function. When a person (labeled as "**Blacklist**" or "**Stranger**") is detected, an alarm notice will be prompted on the related map. NOTE:

- For details about the labels "Blacklist" and "Stranger", see step 7 of section "Arming AI Cameras".
- You must configure the Face Detection function first before you can use the E-Map function.

### **Configuring the Function**

To configure the E-Map function:

1. Click Folder.

| 🔘 vStatio    | on Pro           | Control F        | Panel X         |                           |                 |                   |                 |                 |                      | CPU:<br>Memory: | 26%<br>49% | ^ ₹ | - |        |
|--------------|------------------|------------------|-----------------|---------------------------|-----------------|-------------------|-----------------|-----------------|----------------------|-----------------|------------|-----|---|--------|
| 0==          | E                | 2                | ×               | $\langle \hat{O} \rangle$ | En              | $\odot$           | €®              | =:              |                      |                 |            |     |   |        |
| Device       | Group            | User             | Local           | Settings                  | Language        | E-Map             |                 | Log             | N+1 Hot<br>Backup    |                 |            |     |   |        |
| Press the Fo | lder button to a | dd pictures in t | the target fold | er to the E-Map           | or directly dra | g the folder to I | the current are | a. Double-click | a folder to open it. |                 |            |     |   | Folder |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |
|              |                  |                  |                 |                           |                 |                   |                 |                 |                      |                 |            |     |   |        |

2. Upload the target map folder. The following is an example.

| 🔘 vStatio     | on Pro           | E Control Pa      | anel ×          | +               |                  |                   |                 |                 |                               | CPU:<br>Memory: | = 12%<br>= 49% | <u> </u> | _ | 5 ×    |
|---------------|------------------|-------------------|-----------------|-----------------|------------------|-------------------|-----------------|-----------------|-------------------------------|-----------------|----------------|----------|---|--------|
| O==<br>Device | Group            | O<br>User         | 2<br>Local      | (O)<br>Settings | En<br>Language   | )<br>E-Map        | থ্টি<br>Al      | E::<br>Log      | 나나<br>나다<br>N+1 Hot<br>Backup |                 |                |          |   |        |
| Press the Fo  | lder button to a | dd pictures in th | ne target folde | er to the E-Map | or directly drag | g the folder to t | he current area | a. Double-click | a folder to open it.          |                 |                |          |   | Folder |
|               |                  |                   |                 |                 |                  |                   |                 |                 |                               |                 |                |          |   |        |
| Twyfo         | vrd 🖸            | Reading           |                 |                 |                  |                   |                 |                 |                               |                 |                |          |   |        |
|               |                  |                   |                 |                 |                  |                   |                 |                 |                               |                 |                |          |   |        |
|               |                  |                   |                 |                 |                  |                   |                 |                 |                               |                 |                |          |   |        |
|               |                  |                   |                 |                 |                  |                   |                 |                 |                               |                 |                |          |   |        |
|               |                  |                   |                 |                 |                  |                   |                 |                 |                               |                 |                |          |   |        |
|               |                  |                   |                 |                 |                  |                   |                 |                 |                               |                 |                |          |   |        |

- 3. Double-click the target map folder and then the target map.
- 4. Drag AI cameras to the map.

Ensure that these AI cameras have been armed. For details, see section "Arming AI Cameras" of the Face Detection function.

The following is an example.



In the preceding figure, AI cameras are dragged to the spots where they are installed. You can press and hold a blue sector (as shown in the following figure) to change the camera coverage.



Right-clicking an AI camera will show you the following labels that allow you to label cameras on a map.



5. (Optional) Using other options.

In the top righter corner, you can find the following options.

| 🖌 Draw            | Draw lines to connect AI cameras on the map to form a camera network. |
|-------------------|---|
| Clear             | Clear all lines.  |
| + Add Sub-<br>Map | Add a sub-map to a map. Sub-maps will be displayed above maps.        |

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### **Querying the Function Effect**

To query the function effect, choose **- E-Map** on an idle viewing window of the **Live** page. By default, the first map which tops the map list is displayed. The following is an example.



When a face detection alarm is generated, you can find the following.



As shown in the following figure:

- The person named Zee Chueng is labeled as Blacklist.
- The face detection alarm is generated at 10:15 December 17th of 2019.
- The left picture is the person's face capture while the right one the person's face picture saved in a personnel group.
- The similarity between the face capture and face picture is 89%, which exceeds the similarity threshold. In such a case, the face detection alarm is generated.
- In the bottom right corner, a red spot blinks, indicating that a face detection alarm is already generated.
- The alarm notice and the red spot will show only for 10s, regardless of whether the alarm is cleared or not.

The number displayed on a camera indicates the number of history face detection alarms generated on this camera. If you click such numbers, you can query history face detection alarms. The following are examples.





# **Using the AI Application**

For details, see section "Using AI Applications".

# **Querying Logs**

Under Log, you can query logs.

| Station Pro        | ol Panel × +  |  | CPU: 9% ⊡ 옷 ⊽ — & ×<br>Memory: 51% ⊡ 옷 ⊽ — & × |
|--------------------|---|--|--|
| Device Group User  | Local Settings Language E-Map                       | <ul> <li>会</li> <li>上og</li> <li>N+1 Hot<br/>Backup</li> </ul> |  |
| Cevice List        | Log Category All Start Time III 2019-12-04 10:22:02 |  | ▼ Source All ▼                                 |
| 172. 16. 192. 123  | No. Source  | Туре   | Details Recorded At                            |
| 499 112.16.142.222 |   |  |  |
|                    |   |  |  |
|                    | Export  |  |  |

To query logs:

1. Specify Log Category.



#### 2. Select a specific log type.



#### 3. Specify Source.



- 4. Select a start time and an end time.
- 5. Click Search.

The following is an example for search results.

| Station Pro  | Control Panel | × +                      |   |               |  |                       | CPU:            | 16% |  |
|--|---------------|--------------------------|---|---------------|--|-----------------------|-----------------|-----|--|
| O==  | User Loca     | 3 (O<br>al Setting       | gs Language                                 | O<br>E-Map    | {ଛି<br>▲                                   | Log N+1 Hot<br>Backup |                 |     |  |
| Device List  | Li<br>s       | og Category<br>tart Time | All (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | ₹<br>10:22:02 | <ul> <li>Type</li> <li>End Time</li> </ul> | All                   | <b>⊽</b> Source | All | ₹  |
| <ul> <li>172, 16, 192, 123</li> <li>172, 16, 192, 138</li> </ul> |               | No.                      | Source<br>admin                             |               |  | Type<br>Jser login    | Details         |     | Recorded At 2019-12-05 09:46:49            |
| <ul> <li>172.16.192.222</li> <li>NVR with P</li> </ul>           |               |                          | admin                                       |               |  | Jser login            |                 |     | 2019-12-05 09:40:26                        |
|  |               | 3<br>4                   | admin<br>Local                              |               |  | Jser login            |                 |     | 2019-12-05 09:00:11<br>2019-12-05 08:19:46 |
|  |               |                          | Local                                       |               |  |                       |                 |     | 2019-12-05 08:19:46<br>2019-12-05 08:19:46 |
|  |               | 7                        | Local                                       |               | Dela                                       | ted a sharest         |                 |     | 2019-12-05 08:19:46                        |
|  |               | 9                        | admin                                       |               | Dele                                       | ted a channel         |                 |     | 2019-12-05 08:19:45                        |
|  |               |                          | admin<br>Local                              |               |  | lser logout           |                 |     | 2019-12-05 08:19:45<br>2019-12-05 08:19:28 |
|  |               | 12                       | Local                                       |               |  | 1                     |                 |     | 2019-12-05 08:19:25                        |
|  |               | 13<br>Export             | admin                                       |               |  | Jser Ioain            |                 |     | 2019-12-05 08:19:24 *                      |

6. Click **Export** to export search results.

## **Configuring N+1 Hot Backup**

#### NOTE:

The N+1 hot backup function applies only to the NVR2860E of V7.

The N+1 hot backup function enables one standby NVR to work for multiple main or standby NVRs to prevent service interruption. By default, an NVR works in standby mode. To enable a standby NVR to work for other NVRs:

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Suzhou Keda Technology Co.,Ltd

- 1. Select the NVR from the **Device List**.
- Add the following information for each target NVR. The following is an example.

| IP of Main Device: | 100.100.67.13 |
|--------------------|---------------|
| Port Number:       | 80            |
| Username:          | admin         |
| Password:          | Add           |

- 3. Click Add.
- 4. Click Refresh

| O Main      | n Mode 💿 Stand   | dby Mode O  | peration Succeeded | I          |        |
|-------------|------------------|-------------|--------------------|------------|--------|
| Status:     | Idle             |             |                    |            |        |
| List of M   | ain Devices:     |             | Refr               | esh        | Delete |
|             | IP               | Port        | Username           | Status     |        |
|             | 100.100.67.13    | 80          | admin              | Connecting |        |
|             |                  |             |                    |            |        |
| Then, y     | rou can find the | e following | g.                 |            |        |
| List of Mai | in Devices:      |             | Refr               | resh       | Delete |
|             | IP               | Port        | Username           | Status     |        |
|             | 100.100.67.13    | 80          | admin              | Connected  |        |

The status **Idle** indicates that the standby NVR is not processing services for any NVR.

| Main Mode | Standby Mode |
|-----------|--------------|
| Status:   | Idle         |

If the status turns to **Backing up**, the standby NVR is processing services of an NVR. The following is an example.

| 🔵 Mair    | Main Mode Standby Mode          |                  |          |                   |  |  |  |  |  |  |  |
|-----------|---------------------------------|------------------|----------|-------------------|--|--|--|--|--|--|--|
| Status:   | Status: 100.100.69.4 Backing up |                  |          |                   |  |  |  |  |  |  |  |
| List of M | ain Devices:                    |                  | Re       | fresh Delete      |  |  |  |  |  |  |  |
|           | IP                              | Port             | Username | Status            |  |  |  |  |  |  |  |
|           | 100.100.67.13                   | 80               | admin    | Connected         |  |  |  |  |  |  |  |
|           | 100.100.69.4                    | 80               | admin    | Connecting Failed |  |  |  |  |  |  |  |
|           |                                 |                  |          |                   |  |  |  |  |  |  |  |
|           |                                 |                  |          |                   |  |  |  |  |  |  |  |
|           |                                 |                  |          |                   |  |  |  |  |  |  |  |
|           |                                 |                  |          |                   |  |  |  |  |  |  |  |
| KED       |                                 | <b>IN 1 IN 1</b> | ᆂᇝᄽᆞᆂᆱ   |                   |  |  |  |  |  |  |  |

KEDACOM 苏州科达科技股份有限公司 Suzhou Keda Technology Co.,Ltd To set a standby NVR to work in main mode:

- 1. Select the NVR from the **Device List**.
- 2. Select Main Mode.
- 3. Click **OK** to confirm your operation.



# Live Viewing

### **Main Interface**

The following is the main interface of the **Live** page.

| Station Pro   | × + Area A | CPU:<br>Memory:41% ⊡ ♀ マ - & × |
|---|------------|--------------------------------|
| E   |            |                                |
| Device List     Group     I72.16.192.123     With 172.16.192.222     Unit 172.16.192.192     Unit 172.16.192     Unit 172.172     Uni |            |                                |
| Area B  |            |                                |
|   | Area       | c                              |

The items in area A are described as follows:

| CPU: 12%<br>Memory: 45% | Real-time CPU/memory usage |                                 |                 |        |                 |                 |  |  |  |
|-------------------------|----------------------------|---------------------------------|-----------------|--------|-----------------|-----------------|--|--|--|
| ••                      | Stop splitting             | Stop splitting the main screen. |                 |        |                 |                 |  |  |  |
|                         | Create a nev               | v tab.                          |                 |        |                 |                 |  |  |  |
|                         | O vStation Pro             | + New Tab                       | × +             |        | CPU:<br>Memory: | 12% ⊡ Ջ ⊽ – ♂ × |  |  |  |
|                         | General                    |                                 |                 |        |                 |                 |  |  |  |
|                         | Ţ                          | I                               |                 |        |                 | а<br>О          |  |  |  |
|                         | Live                       | Playback                        | Е-Мар           | Custom | Control Panel   | Al Events       |  |  |  |
| 1                       | Current user               |                                 |                 |        |                 |                 |  |  |  |
|                         | Log out or qu              | uery the cli                    | ent versio      | n      |                 |                 |  |  |  |
|                         | AboutvSta                  | ition Pro                       |                 | ×      |                 |                 |  |  |  |
| _                       |                            | vStat                           | ion Pro         |        |                 |                 |  |  |  |
| $\overline{\nabla}$     |                            | Versi                           | Version: V7R1B2 |        |                 |                 |  |  |  |
|                         |                            | Relea                           | ase Date: 20191 | 1203   |                 |                 |  |  |  |
|                         |                            |                                 |                 | ОК     |                 |                 |  |  |  |

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| €  | Create or tour schemes. For details, see section "Creating or Touring Schemes".   |  |  |  |  |  |  |  |
|----|---|--|--|--|--|--|--|--|
|    | Select a tab page to show.  |  |  |  |  |  |  |  |
|    | <ul> <li>Edit the Live tab page or create a live viewing tab page. This involves the following steps:</li> <li>1. Click </li> <li>2. Select a screen layout.</li> <li>3. (Optional) Draw a pane to combine multiple viewing windows.</li> <li>3. (Optional) Draw a pane to combine multiple viewing windows.</li> <li>4. Enter a name for the tab page.<br/>The following is an example.</li> <li>5. Click </li> <li>6. (Optional) Click </li> <li>7 for help information.</li> </ul> |  |  |  |  |  |  |  |
|    | View Area C in full screen mode.  |  |  |  |  |  |  |  |
| Ē, | Stop all viewings.  |  |  |  |  |  |  |  |
|    | Select a screen layout.   |  |  |  |  |  |  |  |
|    | main screen. The following is an example.   |  |  |  |  |  |  |  |

| 🗿 vStatic  | on Pro  | Control   | Panel ×  | +               |          |            |          |     |              | CPU:13% | - 8 |
|--|---|---|----------|-----------------|----------|------------|----------|-----|--------------|---------|-----|
| O==  | Group   |   | <b>%</b> | (O)<br>Settings | En       | )<br>E-Man | <u>ک</u> |     | h<br>Nta Hot |         |     |
| Device   | vStatic   | on Pro  | Live     |                 | Longuago | c-map      |          | r09 |              |         | - 0 |
| You can s  |   |   |          |                 |          |            |          |     |              | 0 0 C 1 | 1 🗘 |
| <ul> <li>172.</li> <li>172.</li> <li>172.</li> <li>100.</li> <li>100.</li> <li>172.</li> </ul> | Q         Kaywa           ▶         172           ▶         172           ▶         172           ▶         172           ▶         172           ♥         172           ♥         172           ♥         172           ♥         172           ♥         100           ♥         100           ♥         NVF | ord<br>16.192.123<br>16.192.138<br>16.192.222<br>100.83.1<br>100.68.208<br>2 with P |          |                 |          |            |          |     |              |         |     |
| Auto S   |   |   |          |                 |          |            |          |     |              |         |     |

The items in area B are described as follows:

|   | Device list  | Camera group list                                    |  |  |  |
|---|--|--|--|--|--|
| ≣ | E Device List  | E Device List ☐ Group                                |  |  |  |
|   | Q     Keyword       ✓     ☑     172.16.192.222       ☑     D1 Face Capture-Renlian | <ul> <li>Q Keyword</li> <li>▼ ፼ DocTest-1</li> </ul> |  |  |  |
|   | D2 Newtork recorder  | D1 Face Capture-Renlian                              |  |  |  |
|   | D3 Door camera-82.200  | D2 Newtork recorder                                  |  |  |  |
|   | D10 Virtual Channel  | D3 Door camera-82.200                                |  |  |  |

The table helps you read icons in Area B.

| <u>Q</u> == | The NVR is online                 | 0:: | The NVR is offline.    |
|-------------|-----------------------------------|-----|------------------------|
| <b>:</b>    | Recordings are in progress on the |     | The camera is offline. |
|             | camera.                           |     |                        |

The items in area C are described in section "Options on an Idle Viewing Window".

## **Viewing Control**

When a viewing is started, you can find the following viewing controls.


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|     | For more deta<br>Help.  | ails, access the fishe   | Show tv<br>Note: P<br>they are<br>Additior<br>Show fo<br>Show fis<br>Show fis | vo PTZ-capabl<br>TZ-capable vid<br>taken from fis<br>nally, PTZ-capab<br>our PTZ-capab<br>sheye videos a<br>sheye videos a | e videos.<br>deos are close-<br>heye videos.<br>able videos sup<br>le videos.<br>and three PTZ-c<br>and eight PTZ-c | up videos of<br>port the e-PT<br>capable video<br>capable video | specific an<br>Z function.<br>is.<br>is.<br>PC Web | eas and |
|-----|---|--|---|--|---|---|--|---------|
|     | PTZ Controls<br>Make a local  | capture and the cap  | ture will   | be saved in th   | ne path specific  | ed by <b>Save F</b>   | Path for   |         |
| Ð   | Snapshots D   | Save Path for Snapshots During Vi<br>Save Path for Snapshots During Vi                                 | trol Pane<br>iewing<br>layback  | el > Local > Si<br>les (x86)/vStation Pro/<br>les (x86)/vStation Pro/  | 1 <b>apshot</b> ).<br>IPCSearch/language/zh\v\$<br>IPCSearch/language/zh\v\$  | StationSnap B   | rowse  |         |
| •   | Start a local o<br>Save Path (C   | recording and the rec<br>control Panel > Loca<br>Local Record Save Path<br>Downloaded Record Save Path | cords will<br>Il > <b>Reco</b>  | be saved in t<br>rd).<br>s (x86)/vStation Pro/IP<br>s (x86)/vStation Pro/IP  | he path specifi<br>'CSearch/language/zh\vSt<br>'CSearch/language/zh\vSt   | ed by <b>Local</b><br>ationRecord B<br>ationRecord B            | Record<br>rowse                                    |         |
| 9   | Configure the<br>Alarm Output<br>Alarm Output<br>Local 1                                    | alarm outputs of a ca  | amera.  | Open/Close Aut   | o Cleared After (s) Type<br>10 Nt   | Opera<br>D ONC S  | X<br>tion  |         |
| »   | <ul> <li>Viewing<br/>Enabling</li> <li>Seconda</li> <li>© ©</li> <li>Pan&amp;Eou</li> </ul> | Secondary Streams<br>Secondary Stream<br>ry Stream   | will switcl   | h to the second  | dary stream vie   | wing.   |  |         |
| KEI | DACOM 苏   | 州科达科技股份有降  | 限公司   |  |   |   |  |         |

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When you want to take a close-up of a particular area, you can enable the camera to go to

Ð

the area and focus on the area center by clicking

• E-PTZ

Click click



After this, the selected area will be zoomed in.

To cancel the zooming, draw a pane in the reverse direction.

#### • Viewing Streaming Details

| Click 🔛 to view str             | eaming details |
|---------------------------------|----------------|
| ି Secondary Stream 🌒 🔿 ହି 🕒 ସ୍ନ | -•             |
| Video Decoding Frame Rate       | 25             |
| Video Decoding Bitrate          | 4414           |
| Video Resolution                | 1920*1080      |
| Received Video Frames           | 10710          |
| Lost Video Frames               | 0              |
| Video Loss Rate                 | 0%             |
| Audio Decoding Bitrate          | 0              |
| Received Audio Frames           | 0              |
| Lost Audio Frames               | 0              |
| Audio Loss Rate                 | 0%             |
| Audio Compression               |                |
| Video Compression               | H264           |

• Adjusting the Output Volume Adjust the output volume by dragging the volume slider.

For a fisheye camera, you can find the following options.

⊲⊳

| Mount   |   | × |
|---------|---|---|
| •       | 9 | ◕ |
| Display |   |   |
| 0       |   | Ü |
| ۲       |   | ۲ |
| ۲       |   |   |
|         |   |   |

The preceding options are described in the following table.

| <b>I</b> | Ceiling mount, wall mount, desktop mount  |
|----------|---|
| o<br>0   | <ul> <li>Show fisheye videos.<br/>Note: Fisheye videos are full-view videos.</li> <li>Show 180° view videos.<br/>Note: 180° view videos are rectangular videos that are transformed from corrected fisheye videos.</li> <li>Show 360° view videos.</li> </ul>   |
| • • •    | <ul> <li>Show 360° view videos and one PTZ-capable video.</li> <li>Show 360° view videos and three PTZ-capable videos.</li> <li>Show 360° view videos and six PTZ-capable videos.</li> <li>Show 360° view videos and eight PTZ-capable videos.</li> </ul>   |
|          | <ul> <li>Show two PTZ-capable videos.<br/>Note: PTZ-capable videos are close-up videos of specific areas and they are taken from fisheye videos.<br/>Additionally, PTZ-capable videos support the e-PTZ function.</li> <li>Show four PTZ-capable videos.</li> <li>Show fisheye videos and three PTZ-capable videos.</li> <li>Show fisheye videos and eight PTZ-capable videos.</li> </ul> |

For more details, access the fisheye camera through the IPC Web and refer to the IPC Web Help.

## **PTZ Controls**

## **Basic Controls**

#### NOTE:

PTZ controls take effect on only PTZ cameras.

#### PTZ controls are described as follows.

| Г ^ Л<br>< & ><br>L V J | Direction buttons.<br>You can click to reset<br>the camera to the factory<br>position.                         | \$ <b></b> \$        | Adjust the PTZ speed.  |
|-------------------------|--|----------------------|--|
|                         | Click Expand to s<br>Increase or decrease the<br>focus. Alternatively, use                                     | show more PTZ contro | ols.   |
| $\Theta$ $\Theta$ A     | the automatic focus.<br>Increase or decrease the<br>aperture. Alternatively,<br>use the automatic<br>aperture. | © \                  | Enable or disable the<br>backlight.<br>Enable or disable the wiper.<br>Zoom in or out. |

### **Presets and Paths**

### **Creating a Preset**

NOTE:

Only ONVIF/VSIP cameras support this operation.

#### To create a preset for a camera:

1. Move the camera in operation to a position using arrow buttons.

| Г | ^      | Г |
|---|--------|---|
| < | ¢      | > |
| L | $\sim$ | L |

2. Enter a preset number in the **Preset** text filed.

The following is an example.

| Preset | 1 | Call | Save | Delete |  |
|--------|---|------|------|--------|--|
|--------|---|------|------|--------|--|

3. Click Save.

After the preceding steps are performed, a preset is saved. Clicking

go to the preset.



Call

### **Touring Presets**

Go to the IPC Web of the camera in operation to tour its presets. For details, see the camera user manual.

### **Touring Paths**

You can only tour paths and these paths can be configured only on the IPC Web of the camera in operation.

| KE           | DACOM  | Live View    | Playba       |                                       | napshot                   | Settings         |          |         |          |          |      |            |        |     |   | 👤 admin | Help | p <b>E→</b> Lo | gout |   |
|--------------|--------|--------------|--------------|---------------------------------------|---------------------------|------------------|----------|---------|----------|----------|------|------------|--------|-----|---|---------|------|----------------|------|---|
|              | Camera | Basic Config | Guard Tour   | Preset R                              | lestricted Patrol         | Path Mode        | Mixed Mo | de S    | chedule  | d Tas    | k Po | ositioning |        |     |   |         |      |                | -    | • |
|              | Image  |              |              |                                       |                           |                  | - 4      | -       |          |          |      |            |        |     |   |         |      |                |      |   |
| <u>[+†+]</u> | OSD    |              |              |                                       |                           |                  |          |         | <b>T</b> | ***<br>• | ٨    |            |        |     |   |         |      |                |      |   |
| $\oplus$     | Video  |              |              |                                       |                           |                  | • (*     |         | Ð        | Q        | A    |            |        |     |   |         |      |                |      |   |
| $\sim$       | Audio  |              |              |                                       |                           |                  | • •      | 4       | 0        | 0        | A    |            |        |     |   |         |      |                |      |   |
| ΞŃ           | PTZ    |              | The device m | ay have been o                        | disconnected and          |                  |          |         |          | 50       |      |            |        |     |   |         |      |                |      |   |
| Ē            |        |              |              | d transferring st<br>resource limitat | tream because of<br>tion. |                  |          |         |          |          |      |            |        |     |   |         |      |                |      |   |
|              |        |              |              |                                       |                           |                  |          |         |          |          |      |            |        |     |   |         |      |                |      |   |
| $\simeq$     |        |              |              |                                       |                           |                  |          |         |          |          |      |            |        |     |   |         |      |                |      |   |
| $\gg$        |        |              |              |                                       |                           |                  |          |         |          |          |      |            |        |     |   | -       |      |                |      |   |
|              |        | Pa           | trol Path    |                                       | Patrol P                  | ath 1            | ~        | S       | ave      |          | Dele | ete        | Load   | Sto | p |         |      |                |      |   |
|              |        |              | Add          | Modify                                | Delete                    |                  |          |         |          |          |      |            |        |     |   |         |      |                |      | l |
|              |        | Patro        | I Spot       | Preset                                |                           | Stay Time 5~1800 | (S)      | Enable  | Patrol S | pots     |      | Patrol Spo | t Name |     |   |         |      |                |      |   |
|              |        | 1            |              | 1                                     |                           | 10               |          | Already | Set      |          |      | preset-1   |        |     |   |         |      |                |      |   |
|              |        | 2            |              | 2                                     |                           | 10               |          | Already | Set      |          |      | preset-2   |        |     |   |         |      |                |      |   |
|              |        | 3            |              | 3                                     |                           | 10               |          | Already | Set      |          |      | preset-3   |        |     |   |         |      |                |      | ļ |
|              |        | <            |              | A                                     |                           | 10               |          | Already | Sat      |          |      | nrocat_/   |        |     |   |         |      |                | , '  |   |

To tour paths of a camera:

1. Enter a path number in the **Tour Path** text filed. The following is an example.



## Adjusting a Video

To adjust a video, drag the following sliders.



## **Creating or Touring Schemes**

## **Creating a Single Screen Scheme**

To create a single screen scheme:

- 1. On the **Live** page, select a screen layout using and bind cameras and viewing windows together.
- 2. Choose -> Create Scheme.

| Scheme Se | ettings       |                         |             | ×             |
|-----------|---------------|-------------------------|-------------|---------------|
| Schemes   | ↓ Tour Scheme | Multi-Screen     Scheme |             |               |
|           |               |                         |             |               |
|           |               |                         |             |               |
|           |               |                         |             |               |
|           |               |                         |             |               |
|           |               |                         |             |               |
|           |               |                         |             |               |
|           |               |                         |             |               |
|           |               |                         |             |               |
|           |               |                         |             |               |
|           |               |                         |             |               |
|           |               |                         | Edit Oshama | Crasta Dahama |
|           |               |                         | Euit Scheme | create Scheme |

3. Enter a scheme name.

The following is an example.

| New Scheme  |             |    | ×      |
|-------------|-------------|----|--------|
|             |             |    |        |
| Scheme Name | SchemeTest1 |    |        |
|             |             |    |        |
|             |             | ОК | Cancel |

### 4. Click **OK**.

After the preceding steps are performed, a scheme is created. The following is an example.



### **Touring Single Screen Schemes**

To tour single screen schemes:

- 1. Choose <sup>⊥</sup> Tour Scheme</sup> > + Add Tour Plan.
- 2. Enter a tour plan name.

| Scheme Se       | ettings       |                        |           |          |            |               | ×          |
|-----------------|---------------|------------------------|-----------|----------|------------|---------------|------------|
| Schemes         | ⊥ Tour Scheme | Multi-Screen<br>Scheme |           |          |            |               |            |
|                 |               |                        |           | Up       | Down       |               |            |
| Tour Sch        | eme           | Scheme Name            |           | Dwell Ti | me         | Scheme L      | .ist       |
|                 |               | O New                  |           |          | ×          | E SchemeTest1 |            |
|                 |               | _                      |           |          |            | I SchemeTest2 |            |
|                 |               |                        |           |          |            |               |            |
|                 |               | Tour Plan Name         | TourTest1 |          |            |               |            |
|                 |               |                        |           |          |            |               |            |
|                 |               |                        |           | ОК       | Cancel     |               |            |
|                 |               |                        |           |          |            |               |            |
|                 |               |                        |           |          |            |               |            |
|                 |               |                        |           |          |            |               |            |
|                 |               |                        |           |          |            |               |            |
| + Add Tour Plan | Ur            | nified Dwell Time      | 10~3600s) | Save     | Clear List |               | Start Tour |

- 3. Click OK.
- 4. Drag schemes listed under **Scheme List** to the middle pane. The following is an example.

| Scheme Se       | ettings     |                            |            |            | >             | × |
|-----------------|-------------|----------------------------|------------|------------|---------------|---|
| Schemes         | ⊥ Tour Sche | me   Multi-Screen Scheme   |            |            |               |   |
|                 |             |                            | Up         | Down       |               |   |
| Tour Sch        | ieme        | Scheme Name                | Dwell Time | э          | Scheme List   |   |
| 🖽 TourTest1     | 8           | SchemeTest1                | 30         | 8          | E SchemeTest1 |   |
|                 |             |                            |            |            | SchemeTest2   |   |
|                 |             |                            |            |            |               |   |
|                 |             |                            |            |            |               |   |
|                 |             |                            |            |            |               |   |
|                 |             |                            |            |            |               |   |
|                 |             |                            |            |            |               |   |
|                 |             |                            |            |            |               |   |
|                 |             |                            |            |            |               |   |
|                 |             |                            |            |            |               |   |
| + Add Tour Plan |             | Unified Dwell Time (10~360 | 0s) Save   | Clear List | Start Tour    | r |

- 5. (Optional) Change the order of a scheme by clicking **Up** or **Down**.
- 6. (Optional) Double-click a scheme to change its dwell time.



(Optional) Enter a value for Unified Dwell Time.
 After this, all schemes in a tour plan use this unified dwell time.

#### 8. Click Save.

9. Click Start Tour.

After the preceding steps are performed, you can find the following two icons in the top right corner of the screen.



### **Creating a Multi-Screen Scheme**

To create a multi-screen scheme:

- 1. On the Live page, select a screen layout and drag cameras to viewing screens.
- 2. Click to send the screen to a display (for example, display 1).
- 3. Click **to** add a new tab page.
- 4. Click
- 5. Repeat steps 1 and 2.

In this step, send the screen to another display (for example, display 2).

6. Repeat steps 3, 4, and 1 in sequence.

### 7. Choose **Multi-Screen Scheme > Add Multi-Screen Scheme**.

| Station Pro | E Control Panel | 🗜 Live | × + | CPU:<br>Memory: |   | <b>17%</b><br>52% | ** | ^ ₹ | ₹ — | × |
|-------------|-----------------|--------|-----|-----------------|---|-------------------|----|-----|-----|---|
|             |                 |        |     |                 | D | Π                 | Ľ  | Ц   | Ç,  | đ |

After this, the current multi-screen settings (on display 1, display 2, and the local) are saved as a multi-screen scheme.

The following is an example.



You can double-click a multi-screen scheme to load it.

# **Options on an Idle Viewing Window**

## **Preparations**

- The following functions are configured.
  - ✓ Face Detection
  - ✓ Figure Detection
  - ✓ Access Control
  - ✓ Visitor Traffic Statistics
  - ✓ Vehicle Parking
  - ✓ Configuring E-Map
- You have performed step 10 of section "Arming AI Cameras".

## **Using Options**

The following table describes the options available.

| Active alarms                           | This option allows you to query active alarms except Al alarms. |
|---|---|
| Face Detection Captures                 | For details, see section Face Detection.                        |
| Figure Detection Captures               | For details, see section Figure Detection.                      |
| Face Detection Alarms                   |   |
| Face Detection Alarm Captures (Channel) | For details, and addition Face Datastion                        |
| Face Detection Alarm Captures (Group)   | For details, see section face Detection.                        |
| Person Capture Statistics               |   |
| Е-Мар                                   | For details, see section "Configuring E-Map".                   |
| Vehicle Detection Captures              |   |
| Vehicle Detection Panorama Captures     |   |
| Vehicle Detection Logs                  | For details, see section "Vehicle Parking".                     |
| Vehicle Capture Statistics              |   |
| Vehicle Entries and Exits               |   |
| Linked Alarms                           |   |
| Linked Alarm Captures                   | For details, and addition "Showing Linked Alarma"               |
| Linked Live Videos                      | For details, see section Showing Linked Alarms .                |
| Linked Alarm Playbacks                  |   |
| Receive Pushed Contents                 | For details, see section "Receiving Pushed Contents".           |
| ACD Groups                              |   |
| Access Control Entries and Exits        | For details, see section "Access Control".                      |
| Personnel Import for Access Control     |   |
| Visitor Traffic Statistics              | For details, and apotion "\/initor Traffic Statistics"          |
| Customer Flow                           |   |

### **Showing Linked Alarms**

The alarms mentioned in this section are all the alarms related to the motion detection and intelligent feature detection.

Before using the function, ensure the following:

- The target NVR has HDDs installed and the HDDs have been formatted.
- The target camera registers with the target NVR using the ONVIF protocol and the camera registers only with this NVR.
- The motion detection and intelligent feature detections are enabled and configured for the target camera. The following is an example.



Additionally, the alarm linkage actions must include "**Recording**" and "**Snapshot**" (since there are no restrictions on snapshot channels, you can select any channels you want).

| 0      | Settings                  | 100.100.83.1   | - 🗆 × |
|--------|---------------------------|--|-------|
| ÷      | Event                     | Motion Detection Intelligent Feature Video Loss Tampering  |       |
|        | Basic Intelligent Feature | Channel D1-84110   |       |
|        | Alarm Input               | Settings Duration Linkage Action   |       |
| Ŗ      |                           | Regular Linkage         Linkage         Recording         Snapshot         PTZ         D1  |       |
| Ē      |                           | Sound Alert         Local->1         ↓         D1         ↓         Prese           Mail         Local->2         D2         ■         D2         ■         1  | t E   |
| \$     |                           |  |       |
| Å      |                           | □ Send to HDMI2 □ Local->5 □ D5 □ D5   |       |
| $\Box$ |                           | Local->6     Do     Do |       |
| ×      |                           | □ Local->8 □ D8 □ D8 □ D8 □ D8   |       |
| Ē.     |                           | □ Local->10 □ D10 □ D10 □ D10 □ D4-1 □ D11 □ D11   |       |
|        |                           | D6-1 D12 D12   | -     |

• The following parameter uses the default value.

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|  | 🗜 Live 🗄 Playback 🗙 Settings   | L admin ⑦ Help ⊣ Log Out | <u> </u> |
|--|--|--------------------------|----------|
| ← Recording  | Snapshot Schedule  |                          |          |
| Recording Schedule  Transition | Channel  Capturng Mode  Scheduled and Event Triggered Aways Disabled  Advanced Channel Settings  Advanced Channel Settings  Advanced Channel Settings  Advanced Channel Settings  Scheduled Capture Interval 20 s (5-300)  Thu Scheduled Capture Interval 20 s (5-300)  Copy To Save |                          |          |

• The vStation Pro servers to which you want the target NVR to push alarms information have been added. The following is an example.

| ক্রি Configure Archive   | ক্রি Import Pict | ure    | P <sub>i≡</sub> Arming | P vStation Pro Server |
|--------------------------|------------------|--------|------------------------|-----------------------|
| Server IP 172.16.192.245 |                  |        |                        |                       |
| Settings                 | Query            | Delete |                        |                       |
| IP                       | Port             |        |                        |                       |
| 172.16.192.245           | 46789            |        |                        |                       |
| 172.16.189.23            | 46789            |        |                        |                       |

• For the target camera, the recording mode is set to Scheduled and Event Triggered.

| 0         | Settings           | 100.100.83.1  | — | $\times$ |
|-----------|--------------------|---|---|----------|
| ÷         | Capture            | Recording Schedule  |   |          |
|           | Recording Schedule | Channel D1-84110  |   |          |
| P         | Snapsnot Schedule  | Recording Mode O Always Enabled O Scheduled and Event Triggered Always Disabled |   |          |
|           | Advanced           | X Delete 🔟 Delete All Advanced Channel Settings                                 |   |          |
| u, i      | Auvanceu           | 0 2 4 6 8 10 12 14 16 18 20 22 24   |   |          |
| Ħ         |                    | Mon.  |   |          |
| æ         |                    | Tue.  |   | Π        |
| ¥Q2/      |                    | Wed.  |   |          |
| Ê         |                    | Thu.  |   |          |
| $\square$ |                    | Sat.  |   |          |
| aa        |                    | Sun.  |   |          |
| **        |                    | Holiday   |   |          |
| Ē         |                    |   |   |          |
|           |                    | Copy To Save  |   | -        |
|           |                    | < III   |   | Þ.       |

• For the target camera, the capturing mod is set to **Scheduled and Event Triggered**.

| Capture Snapshot Schedule   Recording Schedule Channel   Snapshot Schedule D1-84110   Snapshot Schedule Capturing Mode   Holiday   Advanced     Mon.   Tue.   Wed.   Thu.   Fri.   Sat.   Sat. <th><b>O</b> S</th> <th>ettings</th> <th>100.100.83.1</th> <th></th> <th></th> | <b>O</b> S | ettings             | 100.100.83.1   |  |  |
|--|------------|---------------------|--|--|--|
| Recording Schedule   Snapshot Schedule   Holiday   Advanced     Mon.   Tue.   Wed.   Tue.   Wed.   Thu.   Fri.   Sat.  | ÷          | Capture             | Snapshot Schedule  |  |  |
| Snapshot Schedule         Holiday         Advanced         Wed.         Wed.         Thu.         Fri.         Satt.         Sun.         Holiday  |            | Recording Schedule  | Channel D1-84110   |  |  |
| Holiday       Advanced       Advanced Channel Settings         Advanced       0       2       4       6       8       10       12       14       16       18       20       22       24         Mon.   |            | Snapshot Schedule   | Capturing Mode   |  |  |
| Copy To       Save   | Ĩ¢<br>⊡a   | Holiday<br>Advanced | X Delete II Advanced Channel Settings  |  |  |
| oopy to odde   |            |                     | 0       2       4       6       8       10       12       14       16       18       20       22       24         Mon. |  |  |

To show linked alarms, on an idle viewing window of the Live page, choose -> Linked Alarms. The following is an example.

| Generated On        | Alarm Channel | Alarm Type       | $_{ m Operation} 	imes$ |
|---------------------|---------------|------------------|-------------------------|
| 2019-12-17 17:40:36 | 84110         | Motion Detection | Picture                 |
|                     |               |                  |                         |
|                     |               |                  |                         |
|                     |               |                  |                         |
|                     |               |                  |                         |
|                     |               |                  |                         |
|                     |               |                  |                         |
|                     |               |                  |                         |
|                     |               |                  |                         |
|                     |               |                  |                         |

Clicking **Picture** will show you the alarm capture on the viewing window.

To show alarm captures, choose -> Linked Alarm Captures. The following is an example.



The alarm capture will be displayed for a period of time determined by the following parameter.

| 🗿 vStatio | n Pro | E Control P   | anel ×                      | 古 Video Wall            | £ι              | .ive           | +              |                 |                   | CPU:<br>Memory: |        | 42%<br>66% | ++ |
|-----------|-------|---------------|-----------------------------|-------------------------|-----------------|----------------|----------------|-----------------|-------------------|-----------------|--------|------------|----|
| 0==       |       | 8             | ×                           | $\langle \circ \rangle$ | En              | $\odot$        | <u>{</u>       | =:              | 悼                 |                 |        |            |    |
| Device    | Group | User          | Local                       | Settings                | Language        | Е-Мар          | AI             | Log             | N+1 Hot<br>Backup |                 |        |            |    |
|           |       |               |                             |                         |                 |                |                |                 |                   |                 |        |            |    |
|           |       | Record        | Loca                        | al Record Save          | Path            |                | s (x86)/vSta   | ition Pro/IPCS  | earch/language/zh | vStationRecord  | Browse |            |    |
|           |       |               | Downloaded Record Save Path |                         |                 |                |                | ition Pro/IPCS  | earch/language/zh | vStationRecord  | Browse |            |    |
|           |       |               |                             | Download Reco           | rd Player Togel | ther with Reco | rds            |                 |                   |                 |        |            |    |
|           |       | Snapshot      | Sav                         | e Path for Snap         | shots During Vi | ewing          | les (x86)/vS   | tation Pro/IPC  | Search/language/z | h\vStationSnap  | Browse |            |    |
|           |       |               | Sav                         | e Path for Snap         | shots During Pl | ayback         | les (x86)/vS   | itation Pro/IPC | Search/language/z | h\vStationSnap  | Browse |            |    |
|           |       | Alarm Linkage |                             | Sound Alert             |                 |                |                |                 |                   |                 |        |            |    |
|           |       |               | Dwe                         | II Time for Linka       | age of Alarm Ca | pture/Live Vid | eo/Alarm Playb | ack 15          | (10-99999)s       |                 |        |            |    |

To show a linked live video from the camera where an alarm is generated, choose -> Linked Live Videos. The following is an example.



The live video viewing will last for a period of time determined by the following parameter.

KEDACOM 苏州科达科技股份有限公司 Suzhou Keda Technology Co.,Ltd

| 🗿 vStatio | on Pro | 🔠 Control Pa  | anel × È | ゴ Video Wall              | Ψı              | ive            | +   |                |                           | CPU:<br>Memory: |        | 42%<br>66% |
|-----------|--------|---------------|----------|---------------------------|-----------------|----------------|---|----------------|---------------------------|-----------------|--------|------------|
| 0==       |        | $\gtrsim$     | ×        | $\langle \hat{O} \rangle$ | En              | $\bigcirc$     | <b>(</b> 2)   | =:             |                           |                 |        |            |
| Device    | Group  | User          | Local    | Settings                  | Language        | E-Map          | AI  | Log            | N+1 Hot<br>Backup         |                 |        |            |
|           |        |               |          |                           |                 |                |   |                |                           |                 |        |            |
|           |        | Record        | Local    | Record Save               | Path            |                | s (x86)/vSta  | tion Pro/IPCS  | earch/language/zh\vStatio | nRecord         | Browse |            |
|           |        |               | Downl    | loaded Record             | Save Path       |                | s (x86)/vStation Pro/IPCSearch/language/zh/vStationRecord |                |                           |                 | Browse |            |
|           |        |               |          | ownload Reco              | rd Player Togel | her with Reco  | ords  |                |                           |                 |        |            |
|           |        | Snapshot      | Save     | Path for Snap             | shots During Vi | ewing          | les (x86)/vS  | tation Pro/IPC | Search/language/zh\vStat  | tionSnap        | Browse |            |
|           |        |               | Save     | Path for Snap             | shots During Pl | ayback         | les (x86)/vS  | tation Pro/IPC | Search/language/zh\vStat  | tionSnap        | Browse |            |
|           |        | Alarm Linkage | s        | ound Alert                |                 |                |   |                |                           |                 |        |            |
|           |        |               | Dwell    | Time for Linka            | age of Alarm Ca | pture/Live Vio | deo/Alarm Playb   | ack 15         | (10-99999)s               |                 |        |            |

To show a linked alarm playback from the camera where an alarm is generated, choose -> Linked Live Videos. The following is an example.



The playback starts around 10 seconds before the time when the alarm is generated and it lasts for a period of time determined by the following parameter.

| 🗿 vStatio | n Pro | 🔠 Control P   | anel × | ద Video Wall              | 맞               | ive  | +            |                |                     | CPU:<br>Memory: |        | 42%<br>66% | ** |
|-----------|-------|---------------|--------|---------------------------|-----------------|--|--------------|----------------|---------------------|-----------------|--------|------------|----|
| 0==       |       | $\gtrsim$     |        | $\langle \hat{O} \rangle$ | En              | $\odot$  | <b>(</b> 2)  | =:             |                     |                 |        |            |    |
| Device    | Group | User          | Local  | Settings                  | Language        | E-Map  | AI           | Log            | N+1 Hot<br>Backup   |                 |        |            |    |
|           |       |               |        |                           |                 |  |              |                |                     |                 |        |            |    |
|           |       | Record        | Loca   | al Record Save            | Path            |  | s (x86)/vSta | tion Pro/IPCS  | earch/language/zh\v | StationRecord   | Browse |            |    |
|           |       |               | Dow    | nloaded Record            | Save Path       |  | s (x86)/vSta | tion Pro/IPCS  | earch/language/zh\v | StationRecord   | Browse |            |    |
|           |       |               |        | Download Reco             | rd Player Toge  | her with Recor                                     | ds           |                |                     |                 |        |            |    |
|           |       | Snapshot      | Save   | e Path for Snap           | shots During Vi | ewing  | les (x86)/vS | tation Pro/IPC | Search/language/zh  | vStationSnap    | Browse |            |    |
|           |       |               | Save   | e Path for Snap           | shots During Pl | ayback   | les (x86)/vS | tation Pro/IPC | Search/language/zh  | vStationSnap    | Browse |            |    |
|           |       | Alarm Linkage |        | Sound Alert               |                 |  |              |                |                     |                 |        |            |    |
|           |       |               | Dwe    | II Time for Linka         | age of Alarm Ca | am Capture/Live Video/Alam Playback 15 (10-99999)s |              |                |                     |                 |        |            |    |

### **Receiving Pushed Contents**

On an idle viewing window, you can choose **Receive Pushed Contents** to receive pushed viewing contents, which are pushed in the following way:

1. Set When Double-Click Viewing Window to Push Viewing Contents.

|          |        |           |         |                           | -              |            |                          |            |                   | -               |    |      |     |  |
|----------|--------|-----------|---------|---------------------------|----------------|------------|--------------------------|------------|-------------------|-----------------|----|------|-----|--|
| 🗿 vStati | on Pro | Control F | Panel X | 首 Video Wall              | £١             | _ive       |                          |            |                   | CPU:<br>Memory: | 33 | °⊡ × | - 8 |  |
| 0==      |        | 8         | ×       | $\langle \hat{O} \rangle$ | En             | $\bigcirc$ | <u>{</u>                 | =:         | 悼                 |                 |    |      |     |  |
| Device   | Group  | User      | Local   | Settings                  | Language       | E-Map      | AI                       | Log        | N+1 Hot<br>Backup |                 |    |      |     |  |
|          |        |           |         |                           |                |            | TOP                      |            |                   |                 |    |      |     |  |
|          |        | Viewing   | Pro     | Protocol                  |                |            |                          |            |                   |                 |    |      |     |  |
|          |        |           | Stre    | eam Preferred             |                |            | Main                     |            | Seconda           | ary             |    |      |     |  |
|          |        |           | Pic     | ture Quality              |                |            | Ordinary                 |            | 🔿 High            |                 |    |      |     |  |
|          |        |           | Rat     | tio                       |                |            | <ul> <li>Fill</li> </ul> |            | 4:3               | 16:9            |    |      |     |  |
|          |        |           | Whe     | en Double-Click \         | /iewing Window |            | Push Viewir              | g Contents |                   |                 |    |      |     |  |
|          |        |           |         |                           |                |            |                          |            |                   |                 |    |      |     |  |

- 2. Click Save.
- 3. Select an idle viewing window and choose **Receive Pushed Contents**. After this, you can find the following on the idle viewing window.



You can push viewing contents to multiple idle viewing windows.

4. On the Live page, double-click any viewing window with videos being viewed.

After the preceding steps are performed, you can find the pushed viewing contents on the idle viewing window. The following is an example.



To stop receiving pushed viewing contents, click in the top right corner.

# **Playing Back**

NOTE:

When a record is played back for the first time, the playback will start from the very beginning.

## **Starting an Instant Playback**

On the Live page, clicking III in the top right corner allows you to start an instant playback.



You can click to choose the instant playback length. For example, if you choose **10 min** and the current time is 16:30, the instant playback will start at 16:20.



After the instant playback is started, you can find the following controls.



## Starting a Multi-Record Playback

NOTE:

A maximum of 16 channels can be played back at the same time.

To start a channel playback, on the **Playback** page, drag the target channel from the **Device List** on the left panel to the target playback window. You can also drag multiple channels to playback windows.

## About the Playback Start Time

A playback is started immediately after the target channel is dragged to the target playback window. By default, the playback starts from the current day's earliest time when the record is available. For example, if a recording is started at 1:00, the playback will be started from 1:00 by default.

You can click to change the playback start time.



A blue date indicates a record-available date and the timeline at the bottom is accurate to the minute.



### **Playback Controls**

Playback controls on the top of the page are described as follows.

| Ц      | Ç. == 🕩   |  |  |  |  |  |  |  |  |
|--------|---|--|--|--|--|--|--|--|--|
|        | View the playback page in full screen mode.                           | Stop all playbacks.  |  |  |  |  |  |  |  |
|        | Change the screen layout.   | Separate the <b>Playback</b> page from the main screen.  |  |  |  |  |  |  |  |
| Playba | Playback controls at the bottom of the page are described as follows. |  |  |  |  |  |  |  |  |
|        | 2019-04-01 00:53:25 🛛 🗧 📕 📢 🕕 🕨                                       | ▶ ▶ 날                       ●  |  |  |  |  |  |  |  |
| 00     | Starting a Synchronous Playback                                       | Stop the playback.   |  |  |  |  |  |  |  |
| K      | Go backward 30s with each click.                                      | Slow the playback down. Every click will slow down the speed from 1/2X to 1/4X and then 1/8X and finally 1/16X. When the speed is 1/16X, clicking it will make the speed normal again. |  |  |  |  |  |  |  |

|            | Pause the playback.  | ▶  | Play back frame by frame.<br>If you click this button at an interval of 500 ms,<br>one frame will be played back. To go back to<br>the normal playback, click .                  |
|------------|--|----|--|
| ►          | Accelerate the playback. Every click<br>will increase the speed from 2X to 4X<br>and then 8X 16X 32X and finally 64X.<br>When the speed is 64X, clicking it will<br>make the speed normal again. | ۶I | Go forward 30s with each click.  |
| Ŧ          | Downloading Records  | Ø  | Take a capture. This icon displays after you         click       Image: Captures are saved in the path         specified by Save Path for Snapshots         During Playback.     |
| *          | Click it to start a recording during a<br>playback. Click it again to stop the<br>recording.<br>The record is saved in an external<br>storage unit.  | ©, | Electronically zoom in or out. To zoom in, draw<br>a pane in the target area starting from a top left<br>corner. To cancel the zooming, draw a pane in<br>the reverse direction. |
| <b>(</b> ) | Adjust the speaker volume or mute the speaker.   | -  | -  |

## **Starting a Synchronous Playback**

NOTE:

The synchronous playback function applies only to the NVR2860E of V7.

To start a synchronous playback:

- 1. During a playback, click 😑.
- 2. Drag target cameras to playback windows.



|      |      |       |       |       |      | ×    |
|------|------|-------|-------|-------|------|------|
|      | •    | 20    | 19Y 4 | М     | ►    |      |
| Sun. | Mon. | Tues. | Wed.  | Thur. | Fri. | Sat. |
| 31   | 1    | 2     | 3     | 4     | 5    | 6    |
| 7    | 8    | 9     | 10    | 11    | 12   | 13   |
| 14   | 15   | 16    | 17    | 18    | 19   | 20   |
| 21   | 22   | 23    | 24    | 25    | 26   | 27   |
| 28   | 29   | 30    |       |       |      |      |
| 5    |      |       |       |       |      |      |
| 01   | : 0  | 2:    | 32    | Toda  | iy ( | ОК   |

Usually, cameras have different record-available dates. For synchronous playbacks, all these dates

are blue, for example, 2. From the view of the set theory, these blue dates are the union of the

selected cameras' record-available dates. For example, records are available on March 1 for camera 1 and records are available on March 2 for camera 2. In such a case, the dates March 1 and 2 are blue. Additionally, all these blue dates are displayed no matter which playback window is currently selected, which means you cannot see the record-available dates of a specific camera. By default, the playback starts from the very beginning of the first record-available date

4. Click •

## **Downloading Records**

NOTE:

If you cannot download records, check whether you have the record download authorization. For details, see section "Adding Client Accounts".

To download records of a camera:

1. During a playback of the camera, click



2. Click the NVR with which the camera registers.



3. Select the camera from the Channel List.



4. Specify Data Type, Event Type, Start Time, and End Time.

| O Download ×  |               |                     |            |                     |                    |             |  |  |  |
|---|---------------|---------------------|------------|---------------------|--------------------|-------------|--|--|--|
| $\underset{\text{List}}{\overset{\text{Return to Device}}{\leftarrow}}$ | Query         | ⊥ Download List     |            |                     |                    |             |  |  |  |
| Channel List  | Data Type Rec | ord                 | Event Type | All                 | $\hat{\mathbf{C}}$ |             |  |  |  |
| ☑ D1 Face Capture-Renli   | Start Time    | 2010 04 01 10:22:52 | End Time   | 2010 04 02 10:22:52 |                    |             |  |  |  |
| D2 Newtork recorder   | Start fille   | 2019-04-01 19.22.32 |            |                     |                    |             |  |  |  |
| <br>□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □                                   | ( 🗌 No. (     | Channel Star        | t Time     | End Time            |                    | Record Type |  |  |  |
| D10 Virtual Channel   |               |                     |            |                     |                    |             |  |  |  |

- 5. Click Query.
- 6. Select records you want to download and click **Download**.

| Download  |             |             |         |                     |            |                       |       | ×        |
|---|-------------|-------------|---------|---------------------|------------|-----------------------|-------|----------|
| $\underset{\text{List}}{\overset{\text{Return to Device}}{\leftarrow}}$ | Que         | у           | 4       | Download List       |            |                       |       |          |
| Channel List  | Data Typ    | e R         | ecord   | 0                   | Event Type | All                   |       |          |
| D1 Face Capture-Renlia  | 0           | -           | 2010.0  | 4 01 10 00 50       |            | 4 2010 04 02 10 22 52 |       |          |
| D2 Newtork recorder   | Start 1 im  | e 🛄         | 2019-04 | 4-01 19:22:52       | End Time   | 2019-04-02 19:22:52   |       |          |
| D3 Door camera-82.20  |             | <b>v</b> p. | Channel | Start Tir           | ne         | End Time              | Rec   | ord Type |
| D10 Virtual Channel   | ✓ 1         |             | 1       | 2019-04-01 19:22:52 |            | 2019-04-01 19:36:38   |       | Â        |
|   | 2           |             | 1       | 2019-04-01 19:36:38 |            | 2019-04-01 20:10:48   |       |          |
|   | ✓ 3         |             | 1       | 2019-04-01 20:10:48 |            | 2019-04-01 20:44:57   |       |          |
|   | ✓ 4         |             | 1       | 2019-04-01 20:44:57 |            | 2019-04-01 21:19:06   |       |          |
|   | 5           |             | 1       | 2019-04-01 21:19:06 |            | 2019-04-01 21:53:15   |       |          |
|   | 6           |             | 1       | 2019-04-01 21:53:15 |            | 2019-04-01 22:27:24   |       |          |
|   | 7           |             | 1       | 2019-04-01 22:27:24 |            | 2019-04-01 23:01:34   |       |          |
|   | 8           |             | 1       | 2019-04-01 23:01:34 |            | 2019-04-01 23:35:43   |       |          |
|   | 9           |             | 1       | 2019-04-01 23:35:43 |            | 2019-04-02 00:09:53   |       |          |
|   | <b>v</b> 10 |             | 1       | 2019-04-02 00:09:53 |            | 2019-04-02 00:44:02   |       |          |
|   | <b>v</b> 11 |             | 1       | 2019-04-02 00:44:02 |            | 2019-04-02 01:18:11   |       |          |
|   | ✓ 12        |             | 1       | 2019-04-02 01:18:11 |            | 2019-04-02 01:52:20   |       | _        |
|   |             | J           |         |                     |            |                       | Query | Download |

7. Select a save path or use the default one.



The save path can be configured under Local.

| Station Pro       | Control Panel | × 🗃 Video Wall  | 모 Live                      | e     | +  |   |                 |         | CPU:<br>Memory:      | _      | 18%<br>66% | ጳ | ₹ | - 8 | × |
|-------------------|---------------|---|-----------------------------|-------|--|---|-----------------|---------|----------------------|--------|------------|---|---|-----|---|
| Device Group      | User Lo       | kal Settings  | En<br>Language              | E-Map | ୍<br>ଛ<br>▲  | Log   | N+1 Ho<br>Backu | ot<br>p |                      |        |            |   |   |     |   |
| Viewing<br>Record |               | Protocol<br>Stream Preferred<br>Picture Quality<br>Ratio<br>When Double-Olick Viewing Window<br>Viewing Window Border<br>Local Record Save Path |                             |       | TCP     Main     Ordinary     Fill     View in Full     Common     s (x86)/vStat |   |                 | Browse  |                      |        |            |   |   |     |   |
|                   |               | Downloaded Record   | Downloaded Record Save Path |       |  | s (x86)/vStation Pro/IPCSearch/language/zhivStationRecord |                 |         | onRecord             | Browse | ]          |   |   |     |   |
| Snapshot          |               | Save Path for Snapshots During Viewing<br>Save Path for Snapshots During Playback   |                             |       | les (x86)/vSt<br>les (x86)/vSt   | Tes (x86)/vStation Pro/IPCSearch/language/zhivStationSnap |                 |         | tionSnap<br>tionSnap | Browse |            |   |   |     |   |
|                   | Alarm Linkage | Sound Alert   |                             |       | Save   |   |                 |         |                      |        |            |   |   |     |   |

#### 8. Click OK.

After this, you can find the following.

| 🗿 Download  | O Download × |         |                     |                     |             |                        |  |  |  |  |  |
|---|--------------|---------|---------------------|---------------------|-------------|------------------------|--|--|--|--|--|
| $\underset{List}{\overset{Return to Device}{\bigoplus}} \ \textcircled{\begin{tabular}{lllllllllllllllllllllllllllllllllll$ |              |         | 业 Download List     |                     |             |                        |  |  |  |  |  |
| Channel List  | No.          | Channel | Start Time          | End Time            | Record Type | Download Progress      |  |  |  |  |  |
| D1 Face Capture-Renlia  | 1            |         | 2019-04-01 19:22:52 | 2019-04-01 19:36:38 |             | 7.51%                  |  |  |  |  |  |
| D2 Newtork recorder   |              |         |                     |                     |             |                        |  |  |  |  |  |
| D3 Door camera-82.200   |              |         |                     |                     |             |                        |  |  |  |  |  |
| D10 Virtual Channel   |              |         |                     |                     |             |                        |  |  |  |  |  |
|   |              |         |                     |                     |             |                        |  |  |  |  |  |
|   |              |         |                     |                     |             |                        |  |  |  |  |  |
|   |              |         |                     |                     |             |                        |  |  |  |  |  |
|   |              |         |                     |                     |             |                        |  |  |  |  |  |
|   |              |         |                     |                     |             |                        |  |  |  |  |  |
|   |              |         |                     |                     |             |                        |  |  |  |  |  |
|   |              |         |                     |                     |             |                        |  |  |  |  |  |
|   |              |         |                     |                     |             |                        |  |  |  |  |  |
|   |              |         |                     |                     |             |                        |  |  |  |  |  |
|   |              |         |                     |                     |             |                        |  |  |  |  |  |
|   |              |         |                     |                     |             |                        |  |  |  |  |  |
|   |              |         |                     |                     | Stop        | Clear Download<br>List |  |  |  |  |  |

In this step, you can stop the download.

# **Using AI Applications**

The AI applications include the Face Detection, Figure Detection, Access Control, Visitor Traffic Statistics, and Vehicle Parking functions and apply only to the NVR2881-B of V7, NVR2821 of V7, and AI cameras.

The NVR sub-models are as follows.

| Tab  | le 1 Sub-models of the NV  | R2881-B  | Table 1 Sub-models of the NVR2821                              |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
| 4 Intelligent Channels   | 8 Intelligent Channels   | 16 Intelligent Channels  | 2 Intelligent Channels   | 4 Intelligent Channels   | 8 Intelligent Channels   |  |  |  |  |
| NVR2881-16016B/4HI<br>NVR2881-16032B/4HI<br>NVR2881-16064B/4HI<br>NVR2881-16128B/4HI<br>NVR2881-16128B/4HI | NVR2881-16016B/8HI<br>NVR2881-16032B/8HI<br>NVR2881-16064B/8HI<br>NVR2881-16128B/8HI | NVR2881-16016B/16HI<br>NVR2881-16032B/16HI<br>NVR2881-16064B/16HI<br>NVR2881-16128B/16HI | NVR2821-04009B/2LI<br>NVR2821-04016B/2LI<br>NVR2821-04032B/2LI | NVR2821-04009B/4HI<br>NVR2821-04016B/4HI<br>NVR2821-04032B/4HI | NVR2821-04009B/8HI<br>NVR2821-04016B/8HI<br>NVR2821-04032B/8HI |  |  |  |  |

The AI camera sub-models are as follows.

IPC123-Fi4N IPC2255-Gi4N IPC2255-Gi4N-SIR80-Z6048 IPC2655-Gi4N-SIR80-Z1550 IPC2855-Gi4N IPC126-Fi4aNT IPC146-Fi4aNT IPC186-Fi4aNT IPC2231-Gi4N-SIR40-Z7022 IPC2431-Gi4N IPC2252-Gi4N-SIR50-Z7022 IPC2452-Gi4N IPC2241-Gi4NW-SIR15-L0280 IPC2241-Gi4NW-SIR15-L0360 IPC2241-Gi4NW-SIR15-L0600 IPC425-i423-NWH IPC445-i433-NWH

The following table provides the camera application and camera setttings required by the functions.

| Function         | Required Settings on the | Applies Only to | Access Protocol of the |
|------------------|--------------------------|-----------------|------------------------|
| Function         | Camera Side              | AI Cameras      | Camera                 |
| Face Detection   | VIIAS                    | Yes             | SIP, ONVIF, or VSIP    |
| Figure Detection | VIIAS and detection      | Voc             | SIP, ONVIF, or VSIP    |
|                  | mode/objective           | 165             |                        |
| Access Control   | VIID and COI             | No              | SIP, ONVIF, or VSIP    |
| Visitor Traffic  |                          | Voc             | SIP, ONVIF, or VSIP    |
| Statistics       |                          | res             |                        |
| Vohiclo Parking  | Encoding format or       | No              | VSIP                   |
| venicie Parking  | compresssion, and VSIP   |                 |                        |

NOTE

- All the required camera settings are detailed in function descriptions.
- The access protocol of the camera is specified by the Protocol Type parameter when you add the camera on the NVR Web (choose Channel > Channel > IP Channel > Add), as shown in the following figure.

| Add IP Channel |       |          |
|----------------|-------|----------|
| Protocol Type  | ONVIF | <b>v</b> |

• As for the VSIP access protocol, refer to step 2 of section "Configuring the Function" of the Vehicle Parking function for details.

## **Face Detection**

## **Uploading Personnel Data to a Personnel Group**

Operations described in this section are mandatory to the Face Detection and Vehicle Parking functions. To upload personnel data to a personnel group of an AI NVR:

1. Click 🖬 and select Personnel & Group.



2. Select an AI NVR from the drop-down list and ensure that AI cameras have been added to this NVR.

| Ì | Station Pro                          | Control Panel | 🖧 Personnel & Group 🗙 | + |
|---|--------------------------------------|---------------|-----------------------|---|
|   | 172.16.192.123                       | ₹             |                       |   |
|   | 172.16.192.123<br>172.16.192.138     |               |                       |   |
|   | NVR with P<br>Search Type: O Keyword | O Picture     |                       |   |

3. Ensure that the VIIAS settings of the AI cameras have been configured.

| KEDAC           | Live View                    | Playback Snaps       | hot Settings | Intelligent |  |  | 👤 admin | () Help | E+ Lopout |
|-----------------|------------------------------|----------------------|--------------|-------------|--|--|---------|---------|-----------|
| Live View S     | iettings                     |                      |              |             |  |  |         |         |           |
| Path            | Access VIIAS                 | vIIAS1               | ~            |             |  |  |         |         |           |
| DPSS            | 🗹 Enable                     |                      |              |             |  |  |         |         |           |
| VIIAS           | Network Access ID            | 83111831118311183111 |              |             |  |  |         |         |           |
| Guard Area      | VIIAS Address(IPv4)          | 100 . 100 . 83 .     | 1            |             |  |  |         |         |           |
| Arming          | VIIAS Port                   | 51515                | (1+65535)    |             |  |  |         |         |           |
| Parameters      | liter Name                   | adesia               |              |             |  |  |         |         |           |
| Calibration     |                              | auriar               |              |             |  |  |         |         |           |
| Install Outside | Password                     |                      |              |             |  |  |         |         |           |
| Distant Inside  | Heartbeat Signaling Interval | 30                   | 10~1000 (s)  |             |  |  |         |         |           |
| LED Setting     | Installation Address         | 123                  |              |             |  |  |         |         |           |
| Version         | Administrative Area Code     | 123                  |              |             |  |  |         |         |           |
|                 | Sending Mode                 | Image Set            | ~            |             |  |  |         |         |           |
|                 | Connection Status            | Connected            | Get          |             |  |  |         |         |           |
|                 | AccessRecord                 | face                 | ~            |             |  |  |         |         |           |
|                 | Image Transmission First     | Enable               |              |             |  |  |         |         |           |
|                 | Wi-Fi Probe Data             | Enable               |              |             |  |  |         |         |           |
|                 |                              |                      |              |             |  |  |         |         |           |
|                 |                              | Save                 | Reset        |             |  |  |         |         |           |
|                 |                              |                      |              |             |  |  |         |         |           |
|                 |                              |                      |              |             |  |  |         |         |           |
|                 |                              |                      |              |             |  |  |         |         |           |
|                 |                              |                      |              |             |  |  |         |         |           |
|                 |                              |                      |              |             |  |  |         |         |           |
|                 |                              |                      |              |             |  |  |         |         |           |

Before configuring the VIIAS settings, note the following.

| Access VIIAS                                      | Keep the default value.  |  |  |  |  |
|---|--|--|--|--|--|
| Enable  | Check it.  |  |  |  |  |
| Network   | Enter a 20 digit number, which must be a unique ID on the ALNI/P |  |  |  |  |
| Access ID   | Enter a 20-digit humber, which must be a unique iD on the ALNVR. |  |  |  |  |
| VIIAS Address Enter the IP address of the AI NVR. |  |  |  |  |  |
| VIIAS Port  | Set it to <b>51515</b> .   |  |  |  |  |
| User Name   | Enter a username of the AI NVR.                                  |  |  |  |  |
| Password  | Enter the password of the username.                              |  |  |  |  |
| AccessRecord                                      | Set it to <b>face</b> .  |  |  |  |  |

Other Keep the default values.

The AI cameras are capable of detecting faces, figures, and vehicles by default. You cannot enable or disable their detection capability.

- 4. Create a personnel group.
  - 1) Click Manage Group.

| Station Pro            | E Control Panel | Se Personnel & Group | × +             |
|------------------------|-----------------|----------------------|-----------------|
| NVR with P             | ⊽               |                      |                 |
| Personnel              |                 |                      |                 |
| Search Type: 💿 Keyword | I O Picture     |                      |                 |
| Name                   | Identity        | ID                   | Department      |
|                        |                 |                      |                 |
| -J & 🖧 🖯               | ∎≞≣             | ≣ T. C               |                 |
| No. \$                 | Name 🜲          | Identity ID 🌲        | Personnel Group |
|                        |                 |                      |                 |

- 2) Enter a personnel group name.
- 3) Click Create.
- 5. Click **Import**.
- 6. Upload personnel data one by one or in batches.

#### One-by-one:

- 1) Click One by One.
- 2) Specify parameters displayed. The following is an example.

| 🗿 Import f         | Personnel          | × |
|--------------------|--------------------|---|
| One by One         | Batch              |   |
| Name *<br>Gender   | William Wollez     |   |
| Date of Birth      | і 1999-08-01       |   |
| Identity Type      | Identity Card      |   |
| Identity ID *      | 231122199908012312 |   |
| Personnel<br>Group | Select             | ⊽ |
| Department         |                    |   |
| Position           |                    |   |
| Phone              |                    |   |
| Address            |                    |   |
| Collect            |                    |   |

Before uploading pictures, note the following:

- Only .jpg and .jpeg pictures can be uploaded.
- The picture size should not be greater than 256 KB.
- Each picture must include a face.
- 3) Under Collect, enter vehicle information.

A maximum of four vehicle data entries can be added for one person. The following is an example.

| License Plate             |                   |                           |   |
|---------------------------|-------------------|---------------------------|---|
| License Plate<br>Number * | . NY-23143        | Parking Type Time limited | ⊽ |
| Valid Period              | <b>2019-12-04</b> | ~ 🛗 2020-12-04            |   |
|                           |                   |                           | Ţ |
|                           |                   | ок                        |   |

If you want to add more vehicle information, click +

When the parking type is **Permanent**, you do not need to specify **Valid Period**.

4) Click OK.

### In batches:

- 1) Choose **Batch** > **Template**.
- 2) Enter personnel data into the template file.



3) Click + to upload the template file and click Import.

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| 🗿 Import Pe     | rsonnel        |               | ×     |
|-----------------|----------------|---------------|-------|
| One by One      | Batch          |               |       |
|                 | Click + and up | bload a file. |       |
| Address         |                |               |       |
| <u>Template</u> |                | Import        | Clear |

- 7. (Optional) Move a person to a personnel group if you did not group him/her at the first place.
  - Select the person from the personnel list. 1)
    - Move Personnel. Click ≞ E Ξ ≣ ¶∎ ſ₽ 兪 Move Name 👙 Identity ID 🌲 Personnel
  - 3) Select the target personnel group.

움

2)

| O Move Per | sonnel |              |               |               | × |
|------------|--------|--------------|---------------|---------------|---|
|            |        |              |               |               |   |
| E test1    | test2  | FR<br>zhou-1 | FR<br>Group 1 | FR<br>Group 2 |   |
|            |        |              |               |               |   |
|            |        |              | ОК            |               |   |

- 4) Click OK.
- (Optional) Export information of a person by clicking 8.
- (Optional) Determine what information items to show by clicking Items to Show. 9.

10. (Optional) Import data from another personnel database by clicking Database Import/Export. In this step, you can also export data to another personnel database.

L⇒

Export.

- To query the personnel groups under an AI NVR:
- Choose Control Panel > AI > Personnel Group. 1.
- 2. Select the AI NVR.
- Click Search. 3.

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The following is an example of a search result.

| 🗿 vStation Pr     | 'n   | E Control | Panel    | × +          | -            |                |            |           |        |              |                               |          | CPU:<br>Memory: | _ | 20 | ‰ .⊷ | 2 | ₹ - | - 8 | × |
|-------------------|------|-----------|----------|--------------|--------------|----------------|------------|-----------|--------|--------------|-------------------------------|----------|-----------------|---|----|------|---|-----|-----|---|
| O==<br>Device G   | roup | User      | Loc      | र<br>े<br>al | O Settings   | En<br>Language | O<br>E-Map | _€<br>• ▲ | -<br>- | E:<br>Log    | 나나<br>나다<br>N+1 Hot<br>Backup |          |                 |   |    |      |   |     |     |   |
| i≣ Device List    | -    |           | 슈 P      | ersonnel (   | Group        | <i>Ω</i> ₌ Am  | ning       |           | IP     | vStation Pro | o Server                      |          |                 |   |    |      |   |     |     |   |
| Q tipText         | 123  |           | Personr  | nel Group    |              | Search         |            |           |        |              |                               |          |                 |   |    |      |   |     |     |   |
| 172 16 192 1      | 138  |           | P        | ersonnel (   | Group        |                |            | Operation |        |              |                               |          |                 |   |    |      |   |     |     |   |
| 172.16.192.2      | 222  |           |          | backlist     |              |                |            |           |        |              |                               | <b>^</b> |                 |   |    |      |   |     |     |   |
| NVR with P        |      |           | E F      | Personnell   | DefaultGroup |                |            |           |        |              |                               |          |                 |   |    |      |   |     |     |   |
| I 100, 100, 83, 1 |      |           | U v      | whitelist    |              |                |            |           |        |              |                               |          |                 |   |    |      |   |     |     |   |
|                   |      |           |          | Mixed        |              |                |            |           |        |              |                               |          |                 |   |    |      |   |     |     |   |
|                   |      |           | ٤ 🗌      | 831-sh       |              |                |            |           |        |              |                               |          |                 |   |    |      |   |     |     |   |
|                   |      |           | ٤ 🗌      | 831-KEDA     | ALL          |                |            |           |        |              |                               |          |                 |   |    |      |   |     |     |   |
|                   |      |           |          | 33+124+39    | 9            |                |            |           |        |              |                               |          |                 |   |    |      |   |     |     |   |
|                   |      |           | 2        | 210+800+4    | 400          |                |            |           |        |              |                               |          |                 |   |    |      |   |     |     |   |
|                   |      |           | 4        | 4+46+1       |              |                |            |           |        |              |                               |          |                 |   |    |      |   |     |     |   |
|                   |      |           |          |              |              |                |            |           |        |              |                               |          |                 |   |    |      |   |     |     |   |
|                   |      |           | Delay fo | or Alarm C   | Clearance    |                | (3-300s    | 5)        |        |              | Save                          |          |                 |   |    |      |   |     |     |   |

The **Delay for Alarm Clearance** parameter is described in sub-section "Querying Function Effect" of section "Face Detection".

### **Arming AI Cameras**

After personnel data is uploaded to a personnel group, you need to arm AI cameras to enable them to detect faces.

To arm an AI camera:

- 1. Choose Control Panel > Al > Arming.
- 2. Select the AI NVR from the device list and the AI camera from the **Channel** drop-down list, and check **Arm**.



3. Select arming durations.

In this step, you can drag the duration sliders to select specific durations. The following is an example.



4. (Optional) Click to copy the durations of a day to other days.

The following is an example.





- 5. Click Save.
- 6. Under **Personnel Group**, select the personnel group to which you have imported personnel data in section "Uploading Personnel Data to a Personnel Group".

| Duration | Personnel Group |           |                  |   |     |  |
|----------|-----------------|-----------|------------------|---|-----|--|
|          |                 |           |                  |   |     |  |
|          | Similarity      |           | Trigger Alarm If |   |     |  |
| Jacklist | •               | - 84 Save | ● High 🔷 Low 🔽   | Remove Duplicate Blacklist<br>Alarms Generated Within | 5 s |  |

7. Determine the similarity and whether to trigger an alarm if the similarity threshold is exceeded or not exceeded.

For example, if you are hunting for Person A, you can select **High**, assuming that you have uploaded Person A's data to the personnel group that you have selected in step 6. After this, if a face capture with a similarity exceeding the similarity threshold is reported, an alarm will be triggered to alert you that Person A has appeared on the capturing location. Additionally, you can check **Remove Duplicate Blacklist Alarms Generated Within** to remove duplicate alarms frequently generated within a short period of time.

If you are preventing strangers from entering a private property, you can select **Low**, assuming that you have uploaded data of personnel who are allowed to enter the property to the personnel group. After this, if a face capture with a similarity not exceeding the similarity threshold is reported, an alarm will be triggered to alert you that a stranger has entered the property.

If you set **Trigger Alarm If** to **High**, a person whose face is detected will be labeled as **Blacklist**; if you set **Trigger Alarm If** to **Low**, a person whose face is detected will be labeled as **Stranger**; as shown in the following figure.



#### NOTE

The **VIP** label is reserved for future use.

**Unknown** indicates that the person's name is not specified when his or her data is being uploaded to the related personnel group.

#### Additionally:

| For Strangers, there are no    | Details, as | For Blacklists, there are Details, which show |  |  |
|--------------------------------|-------------|---|--|--|
| shown in the following figure. |             | the face matching results. The following are  |  |  |
|                                |             | examples.                                     |  |  |



- 8. Click Save.
- Under vStation Pro Server, add servers to which you want the AI NVR to push AI notifications (face/figure/vehicle detection captures, face detection alarms, and related data).
   You can add a maximum of 32 servers.
  - 1) Enter the IP address of each target server in the IP text field.

| 舒 Personnel Group        | P <sub>i=</sub> Arming | IP vStation Pro Server |
|--------------------------|------------------------|------------------------|
| Server IP 172.16.192.245 |                        |                        |
| Settings                 | Search Delete          |                        |
| No. IP                   | Port                   |                        |
|                          |                        |                        |
|                          |                        |                        |
|                          |                        |                        |
|                          |                        |                        |
|                          |                        |                        |
|                          |                        |                        |
|                          |                        |                        |
|                          |                        |                        |
| IP: 172. 16. 192. 245    | HTTP Port: 46789       | Add                    |

The default value is the local server's IP address.

2) Enter the HTTP port of each target server in the HTTP Port text field.

The HTTP Port can be configured on the server.



3) Click Add.

### **Querying Function Effect**

### Preparations

#### **For Cameras**

Before querying the function effect, ensure that the recording function has been enabled for each Al camera.

| 0              | Settings                     | 100.100.83.1  | - 🗆 ×    |
|----------------|------------------------------|---|----------|
| ÷              | Capture                      | Recording Schedule  | <b>^</b> |
| Ţ              | Recording Schedule           | Channel D1-84110  |          |
|                | Snapshot Schedule<br>Holiday | Recording Mode   Always Enabled  Scheduled and Event Triggered  Always Disabled |          |
| Ŗı             | Advanced                     | X Delete All Advanced Channel Settings  |          |
| ŧ              |                              | Mon.  |          |
| ₿              |                              | Tue.<br>Wed.  | E        |
| <del>ک</del> م |                              | Thu,  |          |
| $\Box$         |                              | Sat.  |          |
| K              |                              | Sun.<br>Holiday   |          |
| Ŧ              |                              |   |          |
|                |                              | Copy To Save  | -        |

If you set Recording Mode to Scheduled and Event Triggered, you can perform any of the following.

- Schedule recordings for each AI camera.
- Enable the intelligent feature alarm **Blacklist/Whitelist** with the alarm linkage action configured as follows.

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| Settings  | 100.100.8  | 3.1  |   |   | - 🗆 ×   |
|---|--|--|---|---|---|
| ← Event   | Motion Detection Intelligent   | Feature Video Loss Ta  | mpering   |   | ^   |
| Basic Intelligent Feature       Alarm Input       ₽       ₽   | Channel Detection Type Settings Duration Lin   | D1-84110 V<br>Blacklist/Whitelist V  |   |   |   |
| <ul> <li>●</li> <li>●</li></ul> | Regular Linkage     Sound Alert     Mail     Report Center     Send to HDMI1     Send to HDMI2     Send to VGA | Linkage     Local-37     Local-37     Local-39     Local-39     Local-39     Local-30     D4-1     D6-1     D6-1     D8-1     D8-1     D9-1     D9-1     D9-1     D9-1 | Recording           Ø           D1           D2           D3           D4           D5           D6           D7           D8           D9           D10           D110 | <ul> <li>Snapshot</li> <li>D1</li> <li>D2</li> <li>D3</li> <li>D4</li> <li>D5</li> <li>D6</li> <li>D7</li> <li>D8</li> <li>D9</li> <li>D10</li> </ul> | PTZ       D1 ♥         ^       Preset         1       ♥         1       ♥ |

Additionally, on the vStation Pro, the Delay for Alarm Clearance parameter must be configured.

| Reference Personnel Group | P <sub>i</sub> Arming | IP vStation Pro Server |
|---------------------------|-----------------------|------------------------|
| Personnel Group           | Search                |                        |
|                           |                       |                        |
| Personnel Group           | Operation             |                        |
|                           |                       |                        |
|                           |                       |                        |
|                           |                       |                        |
|                           |                       |                        |
|                           |                       |                        |
|                           |                       |                        |
|                           |                       |                        |
|                           |                       |                        |
|                           |                       |                        |
|                           |                       |                        |
|                           |                       |                        |
| Delay for Alarm Clearance | (3-300s)              | Save                   |

The **Delay for Alarm Clearance** parameter applies only to the face detection function. When a face is detected, a face detection alarm will be generated on the vStation Pro and a Blacklist/Whitelist alarm is generated on the camera side, and this parameter specifies the time after which the two alarms are cleared. The default value is **6**.

#### **For Content Pushing**

Ensure that you have performed step 10 of section "Arming AI Cameras".

### Procedure

To query the function effect:

- 1. Go to the Live page.
- 2. Select an idle viewing window and choose **Face Detection Alarms**. After this, you can find the following.

| Generated On        | A | A | N | s | Operation               | X                  |
|---------------------|---|---|---|---|-------------------------|--------------------|
| 2019-12-10 14:04:36 | 8 | 8 | U | 8 | Details Playback        |                    |
| 2019-12-10 14:04:34 | 8 | 8 |   | 8 | Details Playback        |                    |
| 2019-12-10 14:03:16 | D | 8 |   | 8 | Details Playback        |                    |
| 2019-12-10 14:03:00 | 8 | 8 | U | 8 | Details Playback        |                    |
| 2019-12-10 14:02:58 | 8 | 8 | U | 8 | Details Playback        |                    |
| 2019-12-10 14:02:41 | D | 8 |   | 8 | <u>Details</u> Playback | Capture KEDA-ALLPi |
| 2019-12-10 14:02:34 | D | 8 |   | 8 | <u>Details</u> Playback |                    |
| 2019-12-10 14:02:31 | 8 | 8 | U | 8 | Details Playback        |                    |
| 2019-12-10 13:59:15 | 8 | 8 |   | 8 | Details Playback        |                    |
|                     |   |   |   |   |                         |                    |

As shown in the preceding figure, the latest alarm will be highlighted. Clicking **Details** will show you the following.



For personnel labeled as Strangers, there are no Details.

| Generated On        | A | A | N  | S  | Operation        | ×         |
|---------------------|---|---|----|----|------------------|-----------|
| 2019-12-10 16:32:21 | 8 | 8 | U  | 0% | Playback         |           |
| 2019-12-10 16:32:21 | 8 | 8 | U! | 0% | Playback         |           |
| 2019-12-10 16:32:17 | D | 8 |    | 9  | Details Playback |           |
| 2019-12-10 16:32:15 | 8 | 8 | U! | 0% | Playback         | A A       |
| 2019-12-10 16:32:10 | 8 | 8 | UI | 0% | Playback         |           |
| 2019-12-10 16:32:05 | 8 | 8 | U  | 0% | Playback         | The shift |
| 2019-12-10 16:32:02 | 8 | 8 | UI | 0% | Playback         |           |
| 2019-12-10 16:31:52 | 8 | 8 | U  | 0% | Playback         | Capture   |
| 2019-12-10 16:31:42 | 8 | 8 | U  | 0% | Playback         |           |
|                     |   |   |    |    |                  | 200       |

For the description about Strangers, see step 7 of section "Arming AI Cameras".

Clicking **Playback** will start a playback, which starts around 10 seconds before the time when the face detection alarm is generated. For example, if the alarm is generated at 14:01:35, the playback will start at 14:01:25.



3. Select an idle viewing window and choose Face Detection Alarm Captures (Channel) or Face Detection Alarm Captures (Group).

After this, you can find the following.



The preceding figure is explained in step 7 of section "Arming AI Cameras".

## **Searching History Face Detection Alarms**

To query the history Face Detection alarms:

1. Click  $\blacksquare$  and select **AI Events**.

2. 3.



 Station Pro
 RALEvents
 +
 CPU:
 14%
 R
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In this step, set **Log Category** to **Face Detection**. The **Vehicle Detection** value is reserved for future use.
#### 4. Click Search.

The following is an example of a search result.

| Station Pro       | S       | ×          | +                        |      |             |          |      |        |             |        |          | CPU<br>Mem     | :<br>ory: |            | 10<br>45 | * ⊡ ×      | ₹ —      | 8        | ×             |
|-------------------|---------|------------|--------------------------|------|-------------|----------|------|--------|-------------|--------|----------|----------------|-----------|------------|----------|------------|----------|----------|---------------|
| E Device List     | Start * | Time       | 2019-12-10 00:00         | 0:00 | End Time 🛗  | 2019-12- | 10 2 | 3:59:5 | 9 Log       | Face D | etectior | ז <del>⊽</del> | Per       | sonnel All |          |            |          |          |               |
| Q Keyword         |         |            |                          | Chan | aal         |          |      |        | Outegory    |        |          |                | 0.0       | чр<br>———  |          |            |          |          |               |
| 172. 16. 192. 123 | Mode    |            | All ⊽                    | ID   | All         |          |      |        |             |        |          |                |           |            |          |            |          |          |               |
| 172. 16. 192. 138 | s       | Searc      | h                        |      |             |          |      |        |             |        |          |                |           |            |          |            |          |          |               |
| 172.16.192.222    |         |            |                          |      |             |          |      |        |             |        |          |                |           |            |          |            |          |          |               |
| 厚調 100.100.83.1   |         | No.        | Time                     | So   | Name        | Gender [ | Dat  | Ide    | Identity ID |        | Ad       | Oc             | Ph        | Similarity | Per      | Alarm Type | Preview  | Ope      | eration       |
| 📼 NVR with P      |         | 6          | 2019-12-10 17:18:14      | 84   |             |          |      |        |             |        |          |                |           |            | 83       | Whitelist  |          |          | <u>. Play</u> |
|                   |         |            | 2019-12-10 17:17:27      | D3   | Fly Godfrey | Male     |      | ID     | 12514       |        |          |                |           | 83         | 83       | Blacklist  |          |          | . <u>Play</u> |
|                   |         | 8          | 2019-12-10 17:17:18      | D3   | Fly Godfrey | Male     |      | ID     | 12514       |        |          |                |           | 82         | 83       | Blacklist  |          |          | . <u>Play</u> |
|                   |         | 9          | 2019-12-10 17:17:17      | 84   | Fly Godfrey | Male     |      | ID     | 12444       |        |          |                |           | 86         | 83       | Blacklist  |          |          | . <u>Play</u> |
|                   |         |            | 2019-12-10 17:17:17      | 84   |             |          |      |        |             |        |          |                |           | 59         | 83       | Whitelist  |          |          | . <u>Play</u> |
|                   |         | aa<br>Expo | 0040 40 40 47 47 40<br>t |      |             |          |      |        |             |        |          |                |           |            | 1 2      |            | 5 > Page | -<br>- 1 | / 123.        |

Clicking **Picture** will show you either a captured face (the related person is labeled as **Stranger**) or face matching result (the related person is labeled as **Blacklist**), and clicking **Playback** will start a playback, which starts 5 seconds before the time when the face detection alarm is generated. For example, if the alarm is generated at 14:01:35, the playback will start at 14:01:30.

For the description about Stranger or Blacklist, see step 7 of section "Arming Al Cameras".

## **Searching Face Detection Captures**

To query the Face Detection captures:

- 1. Go to the Live page.
- 2. Select an idle viewing window and choose Face Detection Captures.

After this, you can find the following.



In the preceding figure, the personnel "Zee Chong" and "Sun Quan" are recognized by the camera through face matching.

#### **Querying Person Capture Statistics**

To query the person capture statistics, which specify the number of personnel labeled as "**Blacklist**" and "**Stranger**":

1. Go to the Live page.

2. Select an idle viewing window and choose Person Capture Statistics.

After this, you can find the following.



In the preceding figure, VIPs are personnel labeled as "**Blacklist**". For details about "**Blacklist**" and "**Stranger**", see step 7 of section "Arming AI Cameras".





## **Searching History Face Detection Captures**

To search history Face Detection captures:

1. Click + and select AI Events.



- 2. Select the target AI NVR from the device list on the left panel.
- 3. Specify the search criteria.

| Start Time 🛗 2019-12-12 00:00:00 | End Time 🛗 2019-12-12 23:59:59 | Log<br>Category Face Detection ⊽ | Personnel<br>Group |  |
|----------------------------------|--------------------------------|----------------------------------|--------------------|--|
| Search                           |                                |                                  |                    |  |
|                                  |                                |                                  |                    |  |

- 1) Specify a start time and an end time.
- 2) Set Log Category to Face Detection.
  - The Vehicle Detection value is reserved for future use.
- 3) Select a personnel group.
- 4) (Optional) Click **Advanced** to add more conditions.

| Start Time | 2019-12-                      | 12 00:0 | 0:00 En       | d Time | 2019-12-12 | 23:59:59 | Log<br>Category | Face Detection ⊽ | Personnel<br>Group | Hide Advanced |
|------------|-------------------------------|---------|---------------|--------|------------|----------|-----------------|------------------|--------------------|---------------|
| Mode       | All                           |         | Channel<br>ID | All    |            |          |                 |                  |                    |               |
| Searc      | All<br>Blacklist<br>Whitelist |         |               |        |            |          |                 |                  |                    |               |

The "**Blacklist**" and "**Whitelist**" modes indicate the labels "**Blacklist**" and "**Stranger**", respectively. The two labels are described in step 7 of section "Arming AI Cameras".

4. Click Search.

The following is an example.

| Station Pro         | vents × +               |                         |                                     | CPU:24% ⊡ ♀ マ - & ×                               |
|---------------------|-------------------------|-------------------------|-------------------------------------|---|
| E Device List       | Start Time 🗰 2019-12-12 | 0:00:00 End Time 🗰 2019 | 9-12-12 23:59:59 Log Face Detection |   |
| Q Keyword           |                         |                         | Category                            |   |
| 172. 16. 192. 123   | Mode All 3              | ID All                  |                                     |   |
| 💷 172. 16. 192. 138 | Search                  |                         |                                     |   |
| 99 172.16.192.222   |                         |                         |                                     |   |
| 厚頭 100.100.83.1     | No. Time                | So Name Geno            | der Dat Ide Identity ID Ad C        | Dc Ph Similarity Per Alarm Type Preview Operation |
| 0.100.100.68.208    |                         |                         |                                     |   |
| ©⊡ NVR with P       | 1 2019-12-12 14:10:4    | 6 84 Fem                | nale ID 12419                       | 81 83 Blacklist                                   |
|                     | 2 2019-12-12 14:10:     | 0 84 Fem                | nale ID 12419                       | 81 83 Blacklist Piac Piac                         |
|                     | 3 2019-12-12 14:09:     | 6 84 Unkr               | n ID 13287                          | 81 83 Blacklist Pin Piny                          |
|                     | 4 2019-12-12 14:09:     | 0 84 Unkr               | n ID 12655                          | 83 83 Blacklist PL Play                           |
|                     | 5 2019-12-12 14:08:     | i8 84 Unkr              | n ID 12655                          | 80 83 Blacklist                                   |
|                     |                         |                         |                                     |   |
|                     | Export                  |                         |                                     | < 1 2 3 4 5 > Page 1 /100.                        |

In this step, for each data entry, you can click **Picture** to see the face picture saved in the personnel group and the capture. The following is an example.



KEDACOM 苏州科达科技股份有限公司 Suzhou Keda Technology Co.,Ltd In the preceding figure:

- A: indicates the capturing time.
- B: indicates the source camera.
- C: indicates the person's name
- Real-Time: represents the capture. The picture on the right side is the face picture saved in the personnel group.

Clicking **Playback** will start a playback, which starts around 10 seconds before the time when the face detection alarm is generated. For example, if the alarm is generated at 14:01:35, the playback will start at 14:01:25. The following is an example.



You can drag the timeline at the bottom to play back more videos.



### **Querying Data in a Personnel Group**

To query data in a personnel group:

1. Click + and select **Personnel & Group**.



2. In the displayed interface, select the target AI NVR from the NVR list.

| vStation Pro            | Personnel & Group × | + |
|-------------------------|---------------------|---|
| NVR with P              | ⊽                   |   |
| 172.16.192.123          |                     |   |
| 172.16.192.138          |                     |   |
| 1/2.16.192.222          |                     |   |
| Search Type: (•) Keywor | d () Picture        |   |

3. Set Search Type to Keyword or Picture and specify search criteria.

If Keyword is selected, specify the following.

| Station Pro            | 다. Live    | & Personnel & Group × | +          |                    | CPU:<br>Memory: | _ | 9%<br>56% →+ |
|------------------------|------------|-----------------------|------------|--------------------|-----------------|---|--------------|
| 172.16.192.123         |            |                       |            |                    |                 |   |              |
| Personnel              |            |                       |            |                    |                 |   |              |
| Search Type: 💿 Keyword | d OPicture |                       |            |                    |                 |   |              |
| Name                   | Identity I | D                     | Department | Personnel<br>Group |                 |   | Search       |
|                        |            |                       |            |                    |                 |   |              |

You can click to add more search conditions.

| Personne     | I             |             |            |                    |  |        |
|--------------|---------------|-------------|------------|--------------------|--|--------|
| Search Type: | Keyword     P | icture      |            |                    |  |        |
| Name         |               | Identity ID | Department | Personnel<br>Group |  | Search |
| Gender       | All 🗢         | Phone       | Address    |                    |  |        |
|              |               |             |            |                    |  |        |

If **Picture** is selected, upload a reference picture and specify the following.

| Station Pro         | 다. Live               | 2 Pers | onnel & Group × | +                   |           |        |
|---------------------|-----------------------|--------|-----------------|---------------------|-----------|--------|
|                     |                       |        |                 |                     |           |        |
| Personnel           |                       |        |                 |                     |           |        |
| Search Type: 🔵 Keyw | vord 💿 Picture        |        |                 |                     |           |        |
| +                   |                       |        |                 |                     |           |        |
|                     | Similarity Threshold: | 84     | (1-100)         | Order:   Descending | Ascending | Search |
|                     |                       |        |                 |                     |           |        |
|                     |                       |        |                 |                     |           |        |

The search results will be displayed in descending or ascending order of the similarity between the reference picture and the face picture saved in the personnel group. The following is an example.

| 🗿 vSta   | ation Pro | 다.<br>Live            | SPersonnel & Grou | ıp× +                              |           |                   | CPU: Memory: |           | 10%<br>57% ++ | & ₹      | -   | 8 | ×     |
|----------|-----------|-----------------------|-------------------|------------------------------------|-----------|-------------------|--------------|-----------|---------------|----------|-----|---|-------|
| 100.100. | 83.1      |                       |                   |                                    |           |                   |              |           |               |          |     |   |       |
| E Pers   | onnel     |                       |                   |                                    |           |                   |              |           |               |          |     |   |       |
| Search T | ýpe: 🔿 k  | Keyword   Picture     |                   |                                    |           |                   |              |           |               |          |     |   |       |
|          |           | Similarity Threshold: | 84 (1-100)        | Order:      Order:      Descending | Ascending | Search            |              |           |               |          |     |   |       |
| -1       | Ra &      | ┎╓╧┋                  | 1 T C             |                                    |           |                   |              |           |               |          |     |   |       |
|          | No. ≑     | Name ≑                | Identity ID 💠     | Personnel Group 🜲                  | Face 1 🜲  | License Plate 1 🍦 | License      | Plate 2 🌲 | Licer         | se Plate | 3 ≑ |   | Licer |
|          |           | zz                    | 2135986           | PersonnelDefaultGr                 | <b>.</b>  |                   |              |           |               |          |     |   |       |
|          |           |                       | 10837             | 831-sh                             | 91%       |                   |              |           |               |          |     |   |       |
|          | 3         | ZZ                    | 12186             | 831-KEDA-ALL                       | 91%       |                   |              |           |               |          |     |   |       |
|          |           |                       |                   |                                    |           |                   |              |           |               | > Pag    | e 1 |   |       |

Double-clicking a data entry will allow you edit it. The following is an example.

| Edit Pers          | sonnel Information        |   |          | × |
|--------------------|---------------------------|---|----------|---|
| Name *             | ZZ                        |   |          |   |
| Gender             | Male     Female     Other |   | Cancer - |   |
| Date of Birth      |                           |   | NO CH    |   |
| Identity Type      | Identity Card             | ₹ |          |   |
| Identity ID *      | 2135986                   |   |          |   |
| Personnel<br>Group | PersonnelDefaultGroup     | ₹ |          |   |
| Department         |                           |   |          |   |
| Position           |                           |   |          |   |
| Phone              |                           |   |          |   |
| Address            |                           |   |          |   |
| Collect            |                           |   |          |   |
| License Plate      |                           |   |          |   |
|                    | ок                        |   |          |   |

The following options are described in section "Uploading Personnel Data to a Personnel Group".



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# **Figure Detection**

## **Configuring the Function**

To configure the function on the camera side:

1. Set Detection Mode to Whole Person or set Detection objective to Person or Person+Vehicle.

| KEDAC            | ЮМ             |                    |                     |                               | IPC2252-Gi4N-SIR50-Z7022 |
|------------------|----------------|--------------------|---------------------|-------------------------------|--------------------------|
| Live View        | Playback       | Snapshot           | Settings            | Intelligent                   |                          |
| Live View        | ntel Config    |                    |                     |                               |                          |
| Path             |                |                    |                     |                               |                          |
| DPSS             | Sensitivity    | 5                  | ~                   | •                             |                          |
| VIIAS            | Detection Mod  | e Wł               | nole Person 🗸 🗸     | •                             |                          |
| Guard Area       | Direction      | Fro                | ont + Back 🛛 🗸      | ·                             |                          |
| Arming           | Face Size      | 80                 |                     | (80~540)                      |                          |
| Parameters       | Face Output M  | lode Op            | timal Output Mode 🔗 | r                             |                          |
| Calibration      | Optimal Face N | lumber on          | e piece 🔍 🗸         | , France (0, 250 Oction black |                          |
| Install Inside   | Panorama       | 0                  |                     | rame(0~250 0:disable)         |                          |
| Protocol Setting | Image Quality  | Dis                | able v              |                               |                          |
| LED Setting      | Video OSD Ove  | erlay Dis          | able v              |                               |                          |
| Version          | Smart Exposur  | e En               | able v              | •                             |                          |
|                  | Smart Backligh | t Dis              | able 🗸              | •                             |                          |
| Live View        | Playbacl       | C Snapst           | not Settin          | gs Intelligent                |                          |
| Live View        | Intel Config   |                    |                     |                               |                          |
| Path             |                |                    |                     |                               |                          |
| DPSS             | Dete           | ction objective:   | Person+V            | eh 🗸                          |                          |
| VIIAS            | Dete           | ction sensitivity  | Person              |                               |                          |
| Guard Area       | Dale           | or our constrainty | Person+Ve           | ehicle                        |                          |
| Arming           | Sma            | rt Exposure        | Close               | ~                             |                          |
| Detection        | Pone           | rama               | Close               | ~                             |                          |
| Calibration      | Fan            | nama               | 0,000               |                               |                          |
| Plate Detection  | on Imag        | je Quality         |                     | $\sim$                        |                          |
| Install          | Vide           | o OSD Overlav      |                     | ~                             |                          |
| OSD              |                |                    |                     |                               |                          |
| Protocol Setti   | ng             |                    |                     |                               |                          |
| LED Setting      |                |                    |                     |                               |                          |
| Version          |                |                    | Save                |                               | Reset                    |
|                  |                |                    |                     |                               |                          |

2. For VIIAS settings, set AccessRecord to person.

| KEDACO           | Live View                    | Playback Snapshot   | Settings   | Intelligent | 👤 admin 💿 Help 🕞 Li |
|------------------|------------------------------|---------------------|--|-------------|---------------------|
| Live View Set    | ttings                       |                     |  |             |                     |
| Path             | Access VIIAS                 | VIIAS1              |  |             |                     |
| DPSS             | ☑ Enable                     |                     |  |             |                     |
| /IIAS            | Network Access ID            | 2112111111111111111 |  |             |                     |
| Guard Area       | VIIAS Address(IPv4)          | 100 . 100 . 83 . 1  |  |             |                     |
| rming            | VTIAS Bort                   |                     | ]  |             |                     |
| arameters        |                              | 51515               | (1~65535)  |             |                     |
| alibration       | User Name                    | admin               |  |             |                     |
| nstall Outside   | Password                     | •••••               |  |             |                     |
| nstall Inside    | Heartbeat Signaling Interval | 30                  | 10~1000 (s)  |             |                     |
| Protocol Setting | Installation Address         | 30                  |  |             |                     |
| ED Setting       | Administrative Area Code     | 30                  |  |             |                     |
| ersion           | Sending Mode                 | Image Set 🗸         |  |             |                     |
|                  | Connection Status            | Connected           | Get  |             |                     |
|                  | AccessRecord                 | person V            | 1  |             |                     |
|                  | Image Transmission First     | Enable              | -  |             |                     |
|                  | Wi-Fi Probe Data             | Enable              |  |             |                     |
|                  |                              |                     |  |             |                     |
|                  |                              |                     | and a second sec |             |                     |
|                  |                              | Save                | Reset  |             |                     |
|                  |                              |                     |  |             |                     |
|                  |                              |                     |  |             |                     |
|                  |                              |                     |  |             |                     |
|                  |                              |                     |  |             |                     |
|                  |                              |                     |  |             |                     |
|                  |                              |                     |  |             |                     |
|                  |                              |                     |  |             |                     |
|                  |                              |                     |  |             |                     |
|                  |                              |                     |  |             |                     |

For other parameter settings, see step 3 of section "Uploading Personnel Data to a Personnel Group".

3. Click Save.

### **Querying the Function Effect**

### Preparations

Ensure that you have performed step 10 of section "Arming AI Cameras".

#### Procedure

To query the function effect,

 Choose Control Panel > AI > vStation Pro Server, and add servers to which you want the AI NVR to push AI notifications (face/figure/vehicle detection captures, face detection alarms, and related data).

For details, see step 9 of section "Arming AI Cameras".

- 2. Go to the Live page.
- 3. Select an idle viewing window and choose Figure Detection Captures.

After this, you can find the following.



# Access Control

This function applies only to the KSCA120-AI-FC and KSCA120-AIG-FC from KEDACOM.

# **Configuring the Function**

To configure the function:

- 1. Add access control devices (ACDs) to the target AI NVR.
- 2. Configure the ACDs.

For details, see step 2 in sub-section "Configuring the Function" of section "Visitor Traffic Statistics".

- Upload personnel information.
   For details, see section "Uploading Personnel Data to a Personnel Group".
- 4. Click **H** and choose **Access Control** > **ACD Group**.
- 5. Select the target AI NVR from the drop-down list.



6. Drag an ACD to the right pane to create an ACD group.

| Station Pro    | 모 Live       | ⓑ Access Control × + | CPU: 8% 단 오 후 - 급 ×<br>Memory: 44% 단 오 후 - 급 × |
|----------------|--------------|----------------------|--|
| ACD Group      | Se Personnel | LI History           | ul Task  |
| 172.16.192.138 | ₹ C          |                      |  |
| Ц<br>D2 D2 D2  |              |                      |  |

The default group name is **ACD Group**.

| Station Pro    | 다. Live     | ⓑ Access Control × + | CPU:<br>Memog: 사% 단 오 ▼ — 문 ×                                       |
|----------------|-------------|----------------------|---|
| ACD Group      | & Personnel | LLI History          | 🔟 Task  |
| 172.16.192.138 | ⊽ 🗘         |                      | +<br>Ynu can dran ACD on the left namel here to create an ACD oroun |
|                |             | ACD Group            | Tou can drag more ACD here to this group.                           |

- 7. Send data of one or multiple personnel groups to the ACD group to allow the personnel to enter the area guarded by the ACDs.
  - 1) Go to the **Personnel** tab page.
  - 2) Select the target AI NVR.
  - Select the newly created ACD group and click @. 3)

| Station Pro        | 다 Live       | <u>ြာ</u> Ac | cess Control  | × +  |
|--------------------|--------------|--------------|---------------|------|
| ACD Group          | 2. Personnel |              | <u></u> Histo | ory  |
| 172.16.192.138     |              | ₹            |               |      |
| ACD Name           |              |              | Obtain Data   |      |
| < FcaDevDefaultGro | up           | 0            | No. 1         | Name |
| < ACD Group        |              | 0            |               |      |

Select one or multiple personnel groups. 4)

| O Personnel Group |    | × |
|-------------------|----|---|
| blacklist         |    |   |
| whitelist         |    |   |
| SH-801            |    |   |
| test1             |    |   |
| 14000             |    |   |
| L test            |    |   |
| EDA-801           |    |   |
| test2             |    |   |
|                   |    |   |
|                   |    |   |
|                   | ОК |   |
|                   |    |   |

#### 5) Click OK.

If you select an ACD group and click Obtain Data, the personnel information sent to this ACD group will be displayed. The following is an example.

| Station Pro            | C Access Control | + |             |      |          |                |             | CPU: Memory: | 16%   | ₩ %          | ₹ —   | 8    |  |
|------------------------|------------------|---|-------------|------|----------|----------------|-------------|--------------|-------|--------------|-------|------|--|
| ACD Group              | 2 Personnel      |   | III His     | tory | III Task |                |             |              |       |              |       |      |  |
| 100.100.83.1           |                  |   |             |      |          |                |             |              |       |              |       |      |  |
| ACD Name               |                  |   | Obtain Data | а    |          |                |             |              |       |              |       |      |  |
| < C FcaDevDefaultGroup |                  | 0 | No.         | Name | Gender   | Personnel Grou | Identity ID | Address      | Phone | Permission G | a Det | ails |  |
| < 🗌 84207              |                  | 0 | 1           | z2   | Male     | ACD            |             |              |       | Back End     |       | Ē    |  |
| < 🗌 84206              |                  | Ø |             |      |          |                |             |              |       |              |       |      |  |
| < 🗹 84208              |                  | Ø |             |      |          |                |             |              |       |              |       |      |  |
|                        |                  |   |             |      |          |                |             |              |       |              |       |      |  |

Clicking interest will show you the complete personnel information, as shown in the following figure.

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| Oetails                   | >        |
|---------------------------|----------|
| Picture:                  |          |
| Name:                     |          |
| Gender:                   | Male     |
| Personnel Group:          | ACD      |
| Identity ID:              |          |
| Address:                  |          |
| Phone:                    |          |
| Permission Granted<br>By: | Back End |
|                           | ОК       |
|                           |          |

The values for Permission Granted By are as follows:

- **Front End**: indicates that an ACD grants the person the permission to enter the guarded area. To put it simply, information about this person is imported to the ACD at the first place.
- **Back End**: indicates that an AI NVR grants the person the permission to enter the guarded area. To put it simply, information about this person is imported to the AI NVR at the first place.
- 8. Go the **Task** tab page to query the progress of sending personnel data to the ACD group. The following is an example.

|                     | <b>y</b>     |                  |                |           |           |                     |              |           |       |     |
|---------------------|--------------|------------------|----------------|-----------|-----------|---------------------|--------------|-----------|-------|-----|
| Station Pro         | 🖵 Live       | Control          | × +            |           |           |                     | CPU: Memory: | 9% ET ペ   | ₹ — d | 8 X |
| ACD Group           | 2. Personnel | <u>lıl.I</u> His | story          | lılıl Tas | k         |                     |              |           |       |     |
| E Device List       |              |                  |                |           |           |                     |              |           |       |     |
| <b>Q</b> tipText    | Tas          | ik List          |                |           |           |                     |              |           |       |     |
| 172, 16, 192, 123   |              | Task Type        | Device Name    |           | ACD Group | Start Time          | Progress     | Operation |       |     |
| [23] 172.16.192.138 |              | Adding personnel | 172.16.192.138 |           | ACD Group | 2019-12-09 14:03:49 | 0%           |           |       |     |
| 0 172.16.192.222    |              |                  |                |           |           |                     |              |           |       |     |
| DE NVR with P       |              |                  |                |           |           |                     |              |           |       |     |
|                     |              |                  |                |           |           |                     |              |           |       |     |

On this tab page, you have the following options for the sending process.

| Refresh Delete | Pause | Continue |
|----------------|-------|----------|
|----------------|-------|----------|

### **Querying the Function Effect**

#### **Preparations**

Ensure that you have performed step 10 of section "Arming AI Cameras".

#### Procedure

To query the function effect:

KEDACOM 苏州科达科技股份有限公司 Suzhou Keda Technology Co.,Ltd  Choose Control Panel > AI > vStation Pro Server, and add servers to which you want the AI NVR to push AI notifications (face/figure/vehicle detection captures, face detection alarms, and related data).

For details, see step 9 of section "Arming AI Cameras".

- 2. Go to the Live page.
- 3. Select an idle viewing window and choose ACD Groups.

After this, you can find the following.

| ∃ACD Groups           |         | × ≡ACD Groups |                | × |
|-----------------------|---------|---------------|----------------|---|
| <b>•</b> 100.100.83.1 |         | <b>^</b>      |                | ^ |
| 84207                 | Ę       | 84206         | L<br>AC84206   |   |
|                       |         |               |                |   |
| 84206                 |         | 84208         | LLJ<br>AC84208 |   |
|                       | AC84206 | ▼ 100.100.68  | 3.208          |   |
| 84208                 | AC64208 | AC Test       | 58.210-AC      |   |
| * 100 100 69 20       | no      |               |                |   |
| . 100.100.68.20       |         | → NVR with P  |                | - |
|                       |         |               |                |   |

The following table helps you read the icons on ACDs.

| -      | The ACD is receiving data.             |
|--------|--|
| $\sim$ | The ACD has received data.             |
| ×      | The ACD has not received all the data. |

The ACD places a voice call to the AI NVR. And then, you can find the following window is displayed.



As shown in the preceding figure, at this time, you can open/close a door or simply accept the voice call.

To place a voice call to the AI NVR on the ACD side, tap Call Center.

4. Select an idle viewing window and choose **Access Control Entries and Exits**. After this, you can find the following.

| Access | Control Entrys | and Exits |          |        | ×       |
|--------|----------------|-----------|----------|--------|---------|
| Name   | Time Pas       | Access C  | Passed T | Passed | Picture |
| wx111  | 2019-12        | 68.210    | Face     |        |         |
|        | 2019-12        | 68.210    | Face     |        |         |
|        | 2019-12        | 68.210    | Face     |        |         |
|        |                |           |          |        |         |

As shown in the preceding figure, you can find the following information:

| Time Passed              | Time a person passed  |
|--------------------------|---|
| Access Control<br>Device | Responsible ACD   |
| Passed Through           | <ul> <li>The values available are as follows:</li> <li>Face: The person's face capture matches a picture saved in the ACD.</li> <li>Platform: The person is granted the access permission by the AI NVR, which is achieved by clicking Open.</li> </ul> |
| Passed                   | Whether the person is granted the access permission or not  |

**Picture** Face capture of the person

- 5. Select an idle viewing window and choose **Personnel Import for Access Control**.
- 6. This step allows you to receive personnel information from an ACD, and edit and save the information on the AI NVR.
  - 1) On the ACD side, perform the following.
    - a) Tap and hold on the main screen.
    - b) Enter the password.
    - c) Choose Personnel > Personnel Registration.
    - d) Take a picture of a person.
    - e) Click **OK** and **Skip**.
  - 2) On the AI NVR side, perform the following.
    - a) Double-click the person's picture.

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b) In the displayed dialog box, enter the person information. The following is an example.

| O Import Pers    | onnel                 | ×    |
|------------------|-----------------------|------|
| Picture:         |                       |      |
| Name:            | Star Wong             |      |
| Gender:          | Male                  | ₹    |
| Personnel Group: | 14000                 | ₹    |
| Identity ID:     | 234112199812032123    |      |
| Address:         | Room 201, Queen Avenu | e, 1 |
| Phone:           | 23-487532             |      |
|                  | Import                |      |

- c) Click Import.
- d) (Optional) Find the person under **Personnel&Group** to re-edit the person information.

| 🖸 vSt   | tation Pro | E Control Panel | o Access     | Control            | Live                | & Personnel & Group > | < + | CPU:<br>Memory: | 30%<br>57% | & ₹ -        | 8×      |
|---------|------------|-----------------|--------------|--------------------|---------------------|-----------------------|-----|-----------------|------------|--------------|---------|
| 100.100 | 0.68.208   |                 |              | Edit Per           | sonnel Information  |                       |     | ×               |            |              |         |
| 🗄 Per   | rsonnel    |                 |              |                    | sonnermonnution     |                       |     |                 |            |              |         |
| Search  |            |                 |              | Name •             | Star Wong           |                       |     |                 |            |              |         |
| oculon  |            |                 |              | Gender             | Male     Female     | Other                 |     |                 |            |              |         |
|         | Name       | Ident           | tity ID      | Date of Birth      |                     |                       |     | * ≥≥            | Search     |              |         |
|         |            |                 |              | Identity Type      | Identity Card       |                       |     |                 |            |              |         |
| ÷       |            | G∎≜≣≣           |              | Identity ID        | 234112199812032123  |                       |     |                 |            |              |         |
|         | No. \$     | Name 💠          | Identity ID  | Personnel<br>Group | 14000               |                       |     | License Plate 2 | \$ Licen   | se Plate 3 🜲 | Licer   |
|         | 7877       | 7998            | 112021       | Department         |                     |                       |     |                 |            |              |         |
|         |            |                 |              | Position           |                     |                       |     |                 |            |              |         |
|         | 7878       | 7999            | 112021       | Phone              | 23-487532           |                       |     |                 |            |              |         |
|         |            |                 |              | Address            | toom 201, Queen Ave | enue, Newyork         |     |                 |            |              |         |
|         | 7879       | 8000            | 112022       |                    |                     |                       |     |                 |            |              |         |
|         |            |                 |              | License Plate      |                     |                       |     |                 |            |              |         |
|         | 7000       | Star Wood       | 22414240004/ |                    |                     |                       |     |                 |            |              |         |
|         | 7000       | Stat Wong       | 234112199012 |                    |                     | ОК                    |     |                 |            |              |         |
|         |            |                 |              |                    |                     |                       |     | - 201 202       | 202 204    | D            | 1204    |
|         |            |                 |              |                    |                     |                       |     | < 391 392       | 393 394    | > Page 394   | / 394 . |

### **Searching History Entries and Exits**

To query the history entries and exits:

- 1. Under Access Control, select History.
- 2. Select the target AI NVR and specify the search criteria.

| Station Pro       | Control Panel | S Access Control     | × 🗜 Live         | +    | CI<br>M        | PU: 12'<br>emory: 57' | * ⊡ Ջ  | ₹ —     | & × |
|-------------------|---------------|----------------------|------------------|------|----------------|-----------------------|--------|---------|-----|
| ACD Group         | & Personnel   | <u>lıl.I</u> History | , <u>النا</u> ۲  | ask  |                |                       |        |         |     |
| ∃ Device List     |               |                      |                  |      |                |                       |        |         |     |
| <b>Q</b> tipText  | Start Time    | 2019-12-11 17:09     | 5:56 Name        |      | ACD            |                       | ₹ Pa   | issed   | All |
| 172. 16. 192. 123 | End Time      | 2019-12-13 17:09     | 5:56 Identity ID |      | Passed Through |                       |        |         |     |
| 172.16.192.138    | •             |                      |                  |      |                |                       |        |         | •   |
| 172.16.192.222    | No.           | Name Id              | lentity ID       | Time | Passed Through | Access Control Device | Passed | Picture |     |

For the description about the **Passed Through** parameter, see step 3 of sub-section "Querying the Function Effect" of section "Access Control".

3. Click Search.

| vStation Pro      | Control Panel | S Access Control  | × 🗜 Live    | +               |                |                | CPU:<br>Memory: | 18               | ‱ ⊡ ×  | ⊽ —     | 8 × |
|-------------------|---------------|-------------------|-------------|-----------------|----------------|----------------|-----------------|------------------|--------|---------|-----|
| ACD Group         | Se Personnel  | <u> ı ı </u> Hist | ory [j      | <u>l.I</u> Task |                |                |                 |                  |        |         |     |
| E Device List     |               |                   |             |                 |                |                |                 |                  |        |         |     |
| Q tipText         | 2-11 17:05:   | 56 Name           |             |                 | ACD            |                |                 | Passed           |        | ⊽       |     |
| 172. 16. 192. 123 | 2-13 17:05:   | 56 Identit        | y ID        |                 | Passed Through |                |                 |                  |        | Search  |     |
| 172. 16. 192. 138 |               |                   |             |                 |                |                |                 |                  |        |         |     |
| E 170 16 100 000  | No.           | Name              | Identity ID | Time            |                | Passed Through | Acces           | s Control Device | Passed | Picture |     |

The following is an example of a search result.

| <b>O</b> vStation Pro                                       | E Control | Panel        | စြ Access Control | × ⊡ Live          | +                   | 0              | CPU: 14%<br>Memory: 57% | g                | 8 X |
|---|-----------|--------------|-------------------|-------------------|---------------------|----------------|-------------------------|------------------|-----|
| ACD Group ⋮ Device List                                     | 2, Per    | sonnel       | <u>iii</u> Hist   | ory 🔟             | Task                |                |                         |                  |     |
| Q tipText   | 2         | 2-11 17:05:5 | 6 Name            |                   | ACD                 | All            |                         | ul ⊃             |     |
| 172. 16. 192. 123   | 2         | 2-13 17:05:5 | 6 Identit         | y ID              | Passed Through      | All            |                         | Search           |     |
| 172. 16. 192. 138   |           | •            | Name              | Identity ID       | Time                | Passed Through | Access Control Device   | Passed Picture   | ·   |
| <ul><li>III. 16. 192. 222</li><li>100. 100. 83. 1</li></ul> |           | □ 1          | ur/111            | 41001000104100    | 2010 12 12 16:40:22 | Faaa           | 69 210 40               | Vac              |     |
| 回 100.100.68.208  |           | <b>'</b>     | WXTTT             | 41231232134123    | 2019-12-12 10.49.25 | Face           | 00.2 TU-AC              |                  |     |
| eggi nya wata r   |           | 2            | Justin Wong       | 32091119960101000 | 2019-12-12 16:49:16 | Face           | 68.210-AC               | Yes              |     |
|   |           | 3            | Justin Wong       | 32091119960101000 | 2019-12-12 16:48:45 | Face           | 68.210- AC              | Yes              |     |
|   |           | 4<br>Export  | Justin Wong       | 32091119960101000 | 2019-12-12 16:48:39 | Face           | 68.210- AC              | Yes 4 5 > Page 1 | /82 |

# **Visitor Traffic Statistics**

## **Configuring the Function**

To configure the function:

- 1. Add access control devices (the KSCA120-AI-FC and KSCA120-AIG-FC from KEDACOM), Al cameras, and/or traffic counter (the PC4 from OP Retail) to the target AI NVR.
- Configure the access control devices, AI cameras, and/or traffic counting devices. Ensure that the following settings of these devices have been configured as follows. NOTE

To access an access control device, enter http://X.X.X.X.8080 (for example, http://100.100.12.14:8080) into the address bar of a webpage browser.

VIID settings

The following is an example.

| KE        | DACOM                          | Live View   | Playback                  |   | Snapshot  | Sett | ings               |
|-----------|--------------------------------|---|---------------------------|---|---|------|--------------------|
|           | Network                        | VSIP ONVIF  | GB28181 DPSS              | ` | VIID COI  |      |                    |
| <br>+++   | IP and Port<br>Access Protocol | Enable  |                           |   |   |      |                    |
| ● 3 iii C | Other Protocols                | Network Accorving VMS Address<br>VIID Port<br>User Name<br>Password<br>Heartbeat Tir<br>Installation A<br>Regionalism<br>Type | s<br>me<br>.ddress        |   | 32100000000000099<br>172.16.193.151<br>51515<br>admin<br>•••••<br>30<br>1<br>1<br>1<br>face | 99   | 1024~65535<br>1~90 |
|           |                                | Auto Time Correct   | orrection<br>ion Interval |   | 60<br>Save  |      | 1~65535            |

Before configuring the VIID settings, read the following.

| Network    | Enter on ID, which must be unique on the ALNIVP  |  |  |  |  |
|------------|--|--|--|--|--|
| Access ID  | Enter an ID, which must be unique on the Ar NVR. |  |  |  |  |
| VMS        | Enter the IP address of the ALNI/P               |  |  |  |  |
| Address    |  |  |  |  |  |
| VIID Port  | Set it to <b>51515</b> .                         |  |  |  |  |
| User Name  | Enter an account of the AI NVR.                  |  |  |  |  |
| Password   | Enter the password of the AI NVR account.        |  |  |  |  |
| Туре       | Set it to <b>face</b> .                          |  |  |  |  |
| Other      |  |  |  |  |  |
| parameters |  |  |  |  |  |

COI settings

•

The following is an example.

|    |       | KE           | DACC                        | M            | Live \               | /iew      | Pla      | iyback   |             | Snapshot          | Sett       | ings    |           |
|----|-------|--------------|-----------------------------|--------------|----------------------|-----------|----------|----------|-------------|-------------------|------------|---------|-----------|
|    |       |              | Netw                        | ork          | VSIP (               | ONVIF     | GB28181  | DPSS     | VIID        | COI               |            |         |           |
|    |       |              | IP and Por                  | t            | Ena                  | ible      |          |          |             |                   |            |         |           |
|    |       | <u>+++</u>   | Access Pro                  | otocol       | Ser                  | ver IP    |          |          | 10.         | .67.36.9          |            |         |           |
|    |       |              | Other Prot                  | ocols        | Ser                  | ver Port  |          |          | 518         | 516               |            | 1~65535 |           |
|    |       | 294          |                             |              | URI                  | L Path    |          |          | /icm        | np-ws/entranceSoo | :ket       |         |           |
|    |       |              |                             |              |                      |           |          |          |             | Save              |            |         |           |
|    |       | $\Box$       |                             |              |                      |           |          |          |             |                   |            |         |           |
|    |       | X<br>1       |                             |              |                      |           |          |          |             |                   |            |         |           |
|    |       | Befor        | e configu                   | ring the '   | VIID set             | tings,    | read th  | ne follo | winę        | g                 |            |         |           |
|    |       | Serv         | ver IP                      | Enter th     | he IP ad             | dress     | s of the | AI NVI   | R.          |                   |            |         |           |
|    |       | Serv         | ver Port                    | Set it to    | 5 <b>1516</b>        | •         |          |          |             |                   |            |         |           |
|    |       | URL          | . Path                      | Keep th      | ne defau             | ılt val   | ue.      |          |             |                   |            |         |           |
| 3. | Click | k 🕂 a        | ind choos                   | e Visit T    | raffic S             | tatist    | ics > S  | etting   | s.          |                   |            |         |           |
|    | 0     | vSta         | tion Pro                    | 88           | Control Pa           | anel      | × [+     |          |             |                   |            |         |           |
| 4. | Sele  | ct the       | target Al                   | NVR fro      | om the d             | rop-d     | own lis  | t.       |             |                   |            |         |           |
| 5. | Click | Ð            | to add a                    | a surveill   | ance ar              | ea gro    | oup.     |          |             |                   |            |         |           |
|    | 🗿 vSt | tation Pro   | Visitor Traff<br>Statistics | ic × +       |                      |           |          |          |             | CPU:<br>Memory:   | 22%<br>64% | ₩       | - 8 ×     |
|    | NVR w | with P       | ≂<br>Typ <u>e of C</u>      | History Star | tistics              | & Setti   | ings     | Con      | nting Rule  |                   | Wustration |         | Operation |
|    |       | . (The Group | Devi                        | ce Name      | - or counting bevice | IP OF COL |          | Cou      | inding Kule |                   | musuation  |         | operation |

One surveillance area group can include multiple surveillance devices.

6. Enter a group name.

| Station Pro     | ∭ <sup>Visitor Traffic</sup> ×<br>Statistics | +                       |                       |               | CPU: 10% ↔ × | ⊽ — ₽     | × |
|-----------------|--|-------------------------|-----------------------|---------------|--------------|-----------|---|
| NVR with P      | ⊽ 🗄 +  | History Statistics      | Settings              |               |              |           | 0 |
| Area Group      | Type of Counting<br>Device                   | Name of Counting Device | IP of Counting Device | Counting Rule | Illustration | Operation |   |
| Area group name |  |                         |                       |               |              | Ħ         |   |

7. Click to add a counting device type.

| <b>O</b> vStation Pro | 100 Visitor Traffic ★ X    | +                       |                       |               | CPU: 14% ↔ × | ⊽ — ₽     | × |
|-----------------------|----------------------------|-------------------------|-----------------------|---------------|--------------|-----------|---|
| NVR with P            | ₹ 🗄 ⊦                      | listory Statistics      | & Settings            |               |              |           |   |
| Area Group            | Type of Counting<br>Device | Name of Counting Device | IP of Counting Device | Counting Rule | Illustration | Operation |   |
| DocTest               | Ð                          |                         |                       |               |              | Ē         |   |
| Ð                     |                            |                         |                       |               |              |           |   |

Select a counting device type. 8.

| 🖸 vStation Pro | Visitor Traffic ×<br>Statistics | +                       |                       |  | CPU: 18% ↔ ♀ | ₹ - ₽     | × |
|----------------|---------------------------------|-------------------------|-----------------------|--|--------------|-----------|---|
| NVR with P     | ⊽ 🗄 ⊦                           | listory Statistics      | Settings              |  |              |           | 0 |
| Area Group     | Type of Counting<br>Device      | Name of Counting Device | IP of Counting Device | Counting Rule  | Illustration | Operation |   |
| DocTest        | ●ACD<br>AliPC<br>PERCNT         |                         |                       | Obetecting a face is counted as an ex<br>Obetecting a face is counted as an en | it<br>try    | Ē         |   |
|                |                                 |                         |                       |  |              |           |   |

The following table describes the counting device types.

| ACD    | Access control device (the KSCA120-AI-FC and KSCA120-AIG-FC from KEDACOM) |
|--------|---|
| AIIPC  | Al camera   |
| PERCNT | Traffic counter (the PC4 from OP Retail)                                  |

9. Configure the other parameters. The following is an example.

| O vStation Pro | Visitor Traffic X<br>Statistics | +                       |                       |  | CPU: 11% • × | ₹ - 8     | × |
|----------------|---------------------------------|-------------------------|-----------------------|--|--------------|-----------|---|
| NVR with P     | ⊽ 🗄 +                           | History Statistics      | 2 Settings            |  |              |           | 0 |
| Area Group     | Type of Counting<br>Device      | Name of Counting Device | IP of Counting Device | Counting Rule  | Illustration | Operation |   |
| DocTest        | OACD<br>●AIIPC<br>OPERCNT<br>⊕  | zhou-246 •              | 172.16.246.67         | Obtacting a face is counted as an ex<br>Obtacting a face is counted as an en | it.<br>Iry.  | E         |   |
| Ð              |                                 |                         |                       |  |              |           |   |

Parameters are described in the following table.

| Name of<br>Counting<br>Device | The channel name is displayed here.<br>This parameter is unconfigurable. |
|-------------------------------|--|
| IP of Counting                | The device IP is displayed here.   |
| Device                        | This parameter is unconfigurable.  |
| Counting Rule                 | Determine whether detecting a face is counted as an exit or entry.       |

If Type of Counting Device is set to PERCNT, you need to configure the following.

| Area Group | Type of Counting<br>Device | Name of Counting Device | IP of Counting Device | Counting Rule  | Illustration               | Operation |
|------------|----------------------------|-------------------------|-----------------------|--|----------------------------|-----------|
| percent-2  | ACD<br>AIIPC<br>OPERCNT    | 84251                   | 100.100.84.251        | OCount people entering or exiting the         eocount people entering the area     ■ | Arrow: direction of coming | Ĩ         |

Parameters are described in the following table.

| Name of Name of the counting device |
|-------------------------------------|
|-------------------------------------|

| <b>Counting Device</b>  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| IP of Counting<br>Device  | IP of the counting device  |  |  |  |  |  |
| Device       If of the counting device         Counting Rule       Determine whether to count people entering or exiting the surveillance area.         Select the direction of coming to or entering the area using direction buttons. The following are examples.         Image: the direction of coming to or entering the area using direction buttons. The following are examples. |  |  |  |  |  |  |
| Illustration  | Select the direction of coming to<br>buttons. The following are exan | o or entering the area using direction<br>nples. |  |  |  |  |

10. Click Save.

11. (Optional) Repeat steps 7 through 9 to add more surveillance devices.

# **Querying the Function Effect**

#### Preparations

Ensure that you have performed step 10 of section "Arming AI Cameras".

#### Procedure

To query the function effect:

 Choose Control Panel > AI > vStation Pro Server, and add servers to which you want the AI NVR to push AI notifications (face/figure/vehicle detection captures, face detection alarms, and related data).

For details, see step 9 of section "Arming AI Cameras".

- 2. Go to the Live page.
- 3. Select an idle viewing window and choose Visitor Traffic Statistics.
- 4. Select the AI NVR, surveillance area group, and counting device that are configured in section "Configuring the Function".

After this, you can find the following.



Note that all the personnel detected by ACDs and cameras are counted as the **Stranded** since these devices count only coming or leaving.

# **Searching History Statistics**

To search the history statistics:

- 1. Under Visitor Traffic Statistics, click History Statistics.
- 2. Select the AI NVR, surveillance area group, and counting device that are configured in section "Configuring the Function".
- 3. Select a period.

| Station Pro    | c    | E Control Panel | Uisitor Traffic<br>Statistics | × ₽ Live   | +          |                | CPU:<br>Memory: | 34% ↔ ×           | ⊽ — | 8 × |
|----------------|------|-----------------|-------------------------------|------------|------------|----------------|-----------------|-------------------|-----|-----|
| 100.100.68.208 |      |                 | History Statistics            | 2 Settings |            |                |                 |                   |     | 0   |
| Area Group     | keda |                 | <ul> <li>Device</li> </ul>    | 68.210-AC  | 5 min Hour | Day Month Year | Search          | Export Data&Chart |     |     |

4. Click Search.

After this, you can find the following.

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Note that all the personnel detected by ACDs and cameras are counted as the **Stranded** since these devices count only coming or leaving.

# **Vehicle Parking**

## **Configuring the Function**

To configure the function:

1. Upload vehicle plate information as described in section "Uploading Personnel Data to a Personnel Group".

If this step is not performed, all vehicles will be regarded as unregistered or visiting vehicles, which may incur parking fees charged on an hourly basis.

- 2. On the camera side, ensure that the following settings are applied.
  - 1) Set Encoding Format or Compression to MJPEG.



| 🗿 vStatio    | n Pro    | Control Pa | nel  | × 🗜 Live            |         | +           |   |                |              | CPU:<br>Memory: | =             |             | .1%<br>•1% | <u> </u> | ≂ -      | - 🗆    | ×  |
|--------------|----------|------------|------|---------------------|---------|-------------|---|----------------|--------------|-----------------|---------------|-------------|------------|----------|----------|--------|----|
| 0==          | _=       | Q          | ્રેહ | <i>(</i> ດ)         | Ē       | <u> </u>    |   |                |              |                 |               |             |            |          |          |        |    |
| Device       | 0        | Settings   |      | 100                 | 0.100.8 | 3.1         |   |                |              |                 |               |             | - C        |          |          |        |    |
|              | ÷        | Camera     |      | Video Encoding      | ROI Pri | vacy Mask   |   |                |              |                 |               |             |            | ^        |          |        |    |
| Q Keywor     |          | Picture    |      | Channel             |         | D1-84110    | ~ |                |              |                 |               |             |            |          |          |        |    |
|              |          | Video      |      | Multi-Stream        |         | Dual        | ~ | Parameter val  | ue changes t | ake effect or   | ly after enco | oders are r | ebooted.   |          |          |        |    |
| 172.16.192.1 | £        | Audio      |      | Stream Type         |         | Main Stream | ~ |                |              |                 |               |             |            |          | offline. |        |    |
| 172.16.192.1 | Ŗ        |            |      | Resolution          |         | 1920*1080   | ~ |                |              |                 |               |             |            |          | offline. |        |    |
| 172.16.192.2 | Ë        |            |      | Bitrate Type        |         | CBR         | ~ |                |              |                 |               |             |            | E        | offline. |        |    |
| 100.100.83.1 | æ        |            |      | Video Quality       |         | Medium      | ~ |                |              |                 |               |             |            |          |          |        |    |
| 100.100.68.2 | ъ́       |            |      | Video Frame Rate    |         | 25          |   | Fps (1-15)     |              |                 |               |             |            |          | offline. |        |    |
| 172.16.246.7 | ř        |            |      | Bitrate Unner Limit | . [     | 4096        |   | Kbns (64-81    | 92)          |                 |               |             |            |          |          |        |    |
|              | $\Box$   |            |      | Compression         |         | MJPEG       | ~ |                | ,            |                 |               |             |            |          |          |        |    |
|              | SE.      |            |      | Encoding Level      |         | Midium      | × |                |              |                 |               |             |            |          |          |        |    |
|              | r‡1      |            |      | Max Key Frame In    | terval  | 25          |   | (1-250)        |              |                 |               |             |            |          |          |        |    |
|              | <u> </u> |            |      | Smort Encoding      |         | Disabled    |   | Parameter val  | uo changos t | ako offect or   | ly after once | odore aro r | abooted    |          |          |        |    |
|              |          |            |      | oman Encounty       |         | lingupied   | 1 | - arameter van | ac changes i | and cheet of    | iny and enco  | Jucio die i | sootled.   | +        |          |        |    |
|              |          |            |      |                     |         |             |   |                |              |                 |               |             |            |          |          |        |    |
|              | _        |            | _    |                     |         |             |   |                |              |                 |               | _           | _          |          |          | Refres | sh |

#### VSIP settings are configured as follows. The following is an example.

| KE     | DACOM                                       | Live View Playback   | Snapshot   | Settings | Intelligent | 👤 admin ⑦ Help 🕞 Logout |
|--------|---|--|--|----------|-------------|-------------------------|
| $\Box$ | Network                                     | VSIP ONVIF GB28181   |  |          |             |                         |
| +++]   | IP and Port                                 | Registered VMS   |  |          |             |                         |
|        | Access Protocol<br>Other Protocols<br>Cloud | VMS Address<br>VMS Port Number<br>Camera UUID<br>Camera Password<br>Send NAT Probe Packets<br>VSIP Service | 100.100.68.208<br>5510<br>00000000000000000000000000000000 | 1~65535  |             |                         |
| K      |   | Auto Networking  | Save   |          |             |                         |

Before configuring the VSIP settings, read the following.

| VMS Address            | Enter the IP address of the target AI NVR. |
|------------------------|--|
| VMS Port Number        | Set it to <b>5510</b> .                    |
| Camera UUID            | Keep the default value.                    |
| Camera Password        | Keep the default value.                    |
| Send NAT Probe Packets | Keep the default value.                    |
| Auto Networking        | Check it.                                  |

- 3. Search the target cameras and add them as VSIP cameras.
  - 1) Click **Search** on the NVR Web.

| 0           | Settings |         | 100.1      | .00.83.1 |                   |          |                | - 0   |
|-------------|----------|---------|------------|----------|-------------------|----------|----------------|-------|
| ÷           | Channel  | IP Chan | nel Search |          |                   |          |                |       |
| Ţ           | Channel  | Ref     | resh       | Search   | Add Ad            | vanced>> | Delete         |       |
| 271         | Basic    |         | CHN ID     | Edit     | Channel Name      | Status   | IP             | Model |
|             | Advanced |         | D1         |          | 84110             | Online   | 100.100.84.110 | IPC   |
| .÷¦u        |          |         | D2         | ø        | 84111             | Online   | 100.100.84.111 | IPC   |
| Ē           |          |         | D3         | -        | D3 vsip-84.111    | Online   | 100.100.84.111 | IPC   |
| A           |          |         | D4         | Ø        | D4 4K-84.100-vsip | Online   | 100.100.84.100 | IPC   |
| <i>'</i> Φ' |          |         | D5         |          | D5 IPC2450-84.102 | Online   | 100.100.84.102 | IPC   |
| £           |          |         | D6         |          | D6 IPC183-84.99   | Online   | 100.100.84.99  | IPC   |
| $\Box$      |          |         | D7         |          | IPC320-A84.119    | Online   | 100.100.84.119 | IPC   |
| aa          |          |         | D8         |          | IPC2411-84.150    | Online   | 100.100.84.150 | IPC   |
| ~           |          |         | D9         | Ľ        | LC2210-84.155     | Online   | 100.100.84.155 | IPC   |
| <u>+</u>    |          |         | D10        | Ø        | LC2450-84.156     | Online   | 100.100.84.156 | IPC   |
|             |          |         | D11        | ø        | IPC84.159-窗口最上    | Online   | 100.100.84.159 | IPC   |

2) Find the target cameras whose protocol is VSIP, as shown in the following figure.

| 0     | Settings |   | 100 | 0.100.83 | .1             |            |     | - 0    | × |
|-------|----------|---|-----|----------|----------------|------------|-----|--------|---|
| ←     | Channel  |   | 44  | +        | 100.100.80.200 | IPC2252-Gi | IPC | C YOIP | ^ |
| `<br> |          |   | 45  | +        | 100.100.68.212 | IPC2452-Gi | IPC | VSIP   |   |
| Ţ     | Channel  |   | 46  | +        | 100.100.84.208 | KSCA120-AI | IPC | VSIP   |   |
| 71    | Basic    |   | 47  | +        | 100.100.67.28  | NOR201-DF0 | IPC | VSIP   | _ |
|       | Advanced |   | 48  | +        | 100.100.67.109 | SIP-CD201  | IPC | VSIP   | = |
| 뜻     |          |   | 49  | +        | 100.100.66.4   | LC2411-HN  | IPC | VSIP   |   |
| Ē     |          |   | 50  | +        | 100.100.69.110 | IPC2831-HN | IPC | VSIP   |   |
| Æ     |          |   | 51  | +        | 100.100.80.201 | IPC2252-Gi | IPC | VSIP   |   |
| \$    |          |   | 52  | +        | 100.100.84.162 | LC2450-HN  | IPC | VSIP   |   |
| ĥ     |          |   | 53  | +        | 100.100.84.207 | KSCA120-AI | IPC | VSIP   |   |
|       |          |   | 54  | +        | 100.100.84.204 | IPC2655-Gi | IPC | VSIP   |   |
|       |          |   | 55  | +        | 100.100.80.109 | IPC2252-FN | IPC | VSIP   |   |
| X     |          |   | 56  | +        | 100.100.66.8   | KSCA120-AI | IPC | VSIP   |   |
| r‡1   |          |   | 57  | +        | 100.100.82.166 | LC2450-HN  | IPC | VSIP   |   |
|       |          |   | 58  | +        | 100.100.81.136 | LC2450-HN  | IPC | VSIP   |   |
|       |          | - |     |          |                |            |     |        | + |

- 3) Select and add them.
- 4. Click **I** and choose Vehicle Parking > Settings.



- 5. Select the target AI NVR from the drop-down list.
- 6. Add a lane.
  - 1) Click Add Lane
  - 2) Select a source camera, determine the lane role, and enter a lane name. The following is an example.



- 3) Click OK.
- 7. Configure the lane.

| Station Pro            | Control Panel | 首 Video Wall           | 다 Live                      | 📾 Vehicle Parking 🛛 🗙 | + CPU:<br>Memor        | y: 61%                    |            | - 8 | × |
|------------------------|---------------|------------------------|-----------------------------|-----------------------|------------------------|---------------------------|------------|-----|---|
| NVR with P             |               |                        |                             |                       |                        |                           |            |     |   |
| ত্রি Parking           | 员 Vehi        | cle                    | <ul><li></li></ul>          |                       |                        |                           |            |     |   |
| Lane Lis               | it            |                        |                             |                       |                        |                           |            |     |   |
| Queen Avenue-Northeast | Entry 🔟       | Lane                   |                             |                       |                        |                           |            |     | . |
|                        |               | Lane Name              | Jeen Avenue-Northeast Entry | Exit/Entry 💿 Entry    | / C Exit Allow Unre    | gistered Vehicles to Pass | 🔿 Yes 💿 No |     |   |
|                        |               | LED Display            |                             |                       |                        |                           |            |     | - |
|                        |               | Enable                 | • Yes 🔿 No                  |                       |                        |                           |            |     |   |
|                        |               | Default Text on Displa | ay                          | Text on Display When  | n Vehicle Passing      |                           |            |     |   |
|                        |               | Row 1                  | Time                        | Row 1                 | License Plate Number 👳 |                           |            |     |   |
|                        |               | Row 2                  | Time ⊽                      | Row 2                 | Valid Date 🗢           |                           |            |     |   |
|                        |               |                        |                             |                       |                        |                           |            |     |   |
|                        |               | License Plate Recoor   | ition Algorithm             |                       |                        |                           |            |     |   |
|                        |               | Algorithm Type         | Precise     Tolerant        |                       |                        |                           |            |     |   |
|                        |               | Plate Recognition Are  | a                           |                       |                        |                           |            |     | - |
|                        |               | Enable                 | 🖲 Yes 🗌 No 🛛 🗹 Draw         |                       |                        |                           |            |     |   |
|                        |               |                        |                             |                       |                        |                           |            |     | * |
| Refresh Add            | l Lane        |                        |                             |                       |                        |                           | Save       |     |   |

The parameters displayed are described in the following table.

|             | Lane       | Lane name   |
|-------------|------------|---|
|             | Name       |   |
|             | Exit/Entry | Lane role   |
| Lono        | Allow      |   |
| Lane        | Unregister |   |
|             | ed         | Whether to allow unregistered vehicles to enter or exit           |
|             | Vehicles   |   |
|             | to Pass    |   |
|             | Default    | Default texts showed on the LED display when no vehicles enter or |
|             | Text on    | exit  |
|             | Display    |   |
|             | Text on    |   |
| LED Display | Display    |   |
|             | When       | Texts showed on the LED display when vehicles enter or exit       |
|             | Vehicle    |   |
|             | Passing    |   |

| License Plate<br>Recognition<br>Algorithm | Algorithm<br>Type | <ul> <li>Precise:         <ul> <li>In this mode, recognized vehicle license plates must match the actual ones. Otherwise:</li> <li>A registered vehicle cannot enter/exit the parking lot.</li> <li>An unregistered vehicle cannot exit the parking lot.</li> </ul> </li> <li>Tolerant:         <ul> <li>In this mode, recognized vehicle license plates do not need to perfectly match the actual ones. Additionally, you can add equivalent characters. The following is an example.</li> </ul> </li> <li>Versee Plate Recognition Algorithm         <ul> <li>Agorithm Type Precise Tolerant Note: This type is recommended only when iconse plates are shared Equivalent Characters</li> <li>Detect All Copy</li> <li>I = I = I = I = I = I = I = I = I = I =</li></ul></li></ul> |
|---|-------------------|--|
|   | Enable            | When to enable a plate recognition area.   |
| Plate<br>Recognition<br>Area              | Draw              | Draw a plate recognition area.<br>When you are drawing such an area, you can drag the four corners<br>to any direction, concerning that the camera may not point to the<br>road center due to its installation on one side of the road or that the<br>road is not straight. The following is an example.   |



8. Click Save.

## **Querying the Function Effect**

#### **Preparations**

Ensure that you have performed step 10 of section "Arming AI Cameras".

#### Procedure

To query the function effect:

 Choose Control Panel > AI > vStation Pro Server, and add servers to which you want the AI NVR to push AI notifications (face/figure/vehicle detection captures, face detection alarms, and related data).

For details, see step 9 of section "Arming AI Cameras".

- 2. Go to the Live page.
- 3. Select an idle viewing window and choose Vehicle Entries and Exits.
- 4. Drag the target camera or lane to the viewing window.

After this, you can find the following.



The viewing controls showed in the preceding figure are described in section "Viewing Control". In addition, the picture showed in the bottom left corner is the capture made when the vehicle enters the parking lot. When recognition results are inaccurate, you can manually enter correct plate numbers in

the **Correct a plate number** text field and click **Open** to allow vehicles to enter or exit for once. And then, you are advised to reconfigure equivalent characters as described in step 7 of section "Configuring the Function" to improve vehicle entering/exiting efficiency.

# **Querying Parking Logs**

To query the exits and entries of vehicles or lanes:

- 1. Under Vehicle Parking, select Parking.
- 2. Select the AI NVR responsible for the parking lot from the drop-down list.
- 3. Set **Search Type** to **Entry&Exit**.
- 4. Specify the search criteria.

| Station Pro           | 📾 Vehicle Parking 🛛 🗕 Live | +   |             | CPU:<br>Memory:            | <sup>7%</sup> ↔ 옷 ₹ - & ×      |
|-----------------------|----------------------------|-----|-------------|----------------------------|--------------------------------|
| NVR with P            |                            |     |             |                            |                                |
| ন্থি Parking          | E Vehicle                  |     |             |                            |                                |
| Search Type 💿 Entry & | Exit C Remaining Vehicles  |     |             |                            |                                |
| License Plate Number  | Parking Type               | All | All ⊽ Start | Time 🛗 2019-12-03 11:00:43 | End Time 🗰 2019-12-05 11:00:43 |

5. Click Search.

| Station Pro             | 🖲 Vehicle Parking 🛛 🔛 Live | +                            |                                | CPU:<br>Memory: | 11%<br>63% | × ₹ - | - & × |
|-------------------------|----------------------------|------------------------------|--------------------------------|-----------------|------------|-------|-------|
| NVR with P              |                            |                              |                                |                 |            |       |       |
| ত্র Parking             | 员 Vehicle                  | <ul><li>会 Settings</li></ul> |                                |                 |            |       |       |
| Search Type 💿 Entry & E | xit CRemaining Vehicles    |                              |                                |                 |            |       |       |
|                         | ≂ Start Time 🗰 20          | 019-12-03 11:00:43           | End Time 🗰 2019-12-05 11:00:43 | Search          |            |       |       |
| •                       |                            |                              |                                |                 |            |       |       |

#### The following is an example of a search result.

| 🗿 vSt  | ation Pro                       | E Control Panel          | Live                  | /ehicle Parking $\times$ + |                     | CPU: Memory: | 26%<br>52%         | Ջ ₹ – ₽ ×      |  |  |  |
|--------|---------------------------------|--------------------------|-----------------------|----------------------------|---------------------|--------------|--------------------|----------------|--|--|--|
| 100.10 | 100.100.68.208 👻                |                          |                       |                            |                     |              |                    |                |  |  |  |
| 2 Park | 경 Parking (긁 Vehicle 영 Settings |                          |                       |                            |                     |              |                    |                |  |  |  |
| 0      |                                 |                          |                       |                            |                     |              |                    |                |  |  |  |
| Search | ype 💽 Entry a                   | Exit O Remaining Venicle | s                     |                            |                     |              |                    |                |  |  |  |
| ₹ Ι    | ane Name A                      | II                       | ne 🛗 2019-12-11 14:34 | 1:25 End Time              | 2019-12-13 14:34:25 | Search       |                    |                |  |  |  |
|        |                                 |                          |                       |                            |                     |              |                    |                |  |  |  |
|        | = = =                           |                          |                       |                            |                     |              |                    |                |  |  |  |
|        | = = =                           | Liconso Diato Numbor 🔺   | Parking Tuno          | Passing Time               | Lano Namo 🔺         |              | Dicture of Vehicle | Domarke        |  |  |  |
|        | 27272                           |                          | Permanent             | 2010 12 12 14:24:09        |                     | Coming       |                    | Renarks        |  |  |  |
|        |                                 | 2004090                  | Permanent             | 2019-12-13 14.34.00        | entrance            | Coming       | Open               |                |  |  |  |
|        | 2/3/1                           | 71111646                 | Permanent             | 2019-12-13 14.33.50        | entrance            | Coming       | Open               |                |  |  |  |
|        | 27370                           | ne5987                   | lime limited          | 2019-12-13 14:33:44        | entrance            | Coming       | Open               |                |  |  |  |
|        | 27369                           | ธย8058                   | Time limited          | 2019-12-13 14:33:20        |                     |              | Open               |                |  |  |  |
|        |                                 |                          | Permanent             | 2019-12-13 14:33:13        | entrance            | Coming       | Open               |                |  |  |  |
|        |                                 | 2ฒจ5272                  |                       |                            |                     | Coming       | Open               |                |  |  |  |
|        | 27366                           | 809598                   | Permanent             | 2019-12-13 14:32:57        | entrance            | Coming       | Open               |                |  |  |  |
|        |                                 |                          | Time limited          |                            |                     | Coming       | Open               |                |  |  |  |
|        |                                 | กค5987                   | Time limited          | 2019-12-13 14:30:52        | entrance            | Coming       | Open               |                |  |  |  |
|        |                                 |                          |                       |                            |                     |              | Open               |                |  |  |  |
|        |                                 |                          |                       |                            |                     | < 1 2        | 3 4 5              | > Page 1 / 261 |  |  |  |

Clicking Open will show you a vehicle capture. The following is an example.

| <b>O</b> v | Station Pro      | B Control Panel      | 문 Live                   | Vehicle Parking × +           |                             | CPU:<br>Memory: | 17% <b>⊡</b> ∧   | ₹ - 8 ×      |
|------------|------------------|----------------------|--------------------------|-------------------------------|-----------------------------|-----------------|--|--------------|
| 100        | .100.68.208      |                      |                          |                               |                             |                 |  |              |
| @ Pi       | arking           | 🛱 Vehicle            | @                        | Settings                      |                             |                 |  |              |
| Search     | h Type 🧿 Entry - | & Exit 🔿 Remaining V | ehicles                  |                               |                             |                 |  |              |
| ₹          | Lane Name        | All ⊽ Sta            | art Time 🗒 2019-12-11 14 | :34:25 End Time 🛗             | 2019-12-13 14:34:25         | Search          |  |              |
| •          |                  |                      |                          |                               |                             |                 |  |              |
|            |                  |                      |                          |                               |                             |                 | Open   |              |
|            |                  |                      |                          |                               |                             |                 | Open   |              |
|            |                  |                      | Picture of Vehicle_273   | 372                           |                             |                 | Open   |              |
|            |                  |                      |                          |                               |                             | 2019 00112012   | Open   |              |
|            |                  |                      |                          |                               |                             |                 | Open   |              |
|            |                  |                      | 1                        | C C PRIMARYS                  | er de                       | 741             | Open   |              |
|            |                  |                      | - Contraction            |                               | 3                           | 101 -           | Open   |              |
|            |                  |                      | The second second        |                               | The states                  | the second      | Open   |              |
|            |                  |                      |                          | 1                             | and f                       |                 | Open   |              |
|            |                  |                      |                          |                               |                             |                 | Open   |              |
|            |                  |                      | Licen                    | se Plate Number, 2014-095 Pas | sing Time: 2019-12-13 14:34 | coming          | Open   |              |
|            |                  |                      |                          |                               |                             |                 | Open   |              |
|            |                  |                      |                          |                               |                             |                 | and the second s |              |
| _          |                  |                      |                          |                               |                             | < 1 2 3         | 4 5 > Pa   | ge 1 / 261 . |

To query the remaining vehicles in a parking lot:

- 1. Under Vehicle Parking, select Parking.
- 2. Select the AI NVR responsible for the parking lot from the drop-down list.
- 3. Set Search Type to Remaining Vehicles.
- 4. Specify the search criteria.

| Station Pro           | Control Panel       | 🛨 Live       |     | ehicle Parking | × +                 |       | CPU:<br>Memory:      | _                 | 35%<br>52%       | ^ ₹        | -        | 8 | × |
|-----------------------|---------------------|--------------|-----|----------------|---------------------|-------|----------------------|-------------------|------------------|------------|----------|---|---|
| 100.100.68.208        |                     |              |     |                |                     |       |                      |                   |                  |            |          |   |   |
| ত্তি Parking          | 🛱 Vehicle           |              | Se  | ttings         |                     |       |                      |                   |                  |            |          |   |   |
| Search Type O Entry & | Exit   Remaining Ve | hicles       |     |                |                     |       |                      |                   |                  |            |          |   |   |
| License Plate Number  |                     | Parking Type | All |                | me 🛗 2019-12-11 14: | 47:41 | 🛅 2019-12-13 14      | :47:41            | Search           |            |          |   |   |
|                       |                     |              |     |                |                     |       | Total remaining vehi | cles: 83 ,permane | ent: 5 ,time lin | ited:5 ,te | nporary: |   |   |

5. Click Search.



#### The following is an example of a search result.

| 🗿 vSta      | tion Pro  | Control Panel          | 단 Live 📃       | Vehicle Parking 🗙 🕂 |                     | CPU:<br>Memory:              | 42%<br>52%              | × = - ₽ >              |  |  |
|-------------|---|------------------------|----------------|---------------------|---------------------|------------------------------|-------------------------|------------------------|--|--|
| 100.100     | .68.208   |                        |                |                     |                     |                              |                         |                        |  |  |
| ত্রি Parkir | ng  | 🛱 Vehicle              | ලි s           | ettings             |                     |                              |                         |                        |  |  |
| Search Ty   | Search Type 🔿 Entry & Exit 💿 Remaining Vehicles |                        |                |                     |                     |                              |                         |                        |  |  |
| License P   | late Number                                     | Pa                     | rking Type All |                     | 019-12-11 14:47:41  | - 🛗 2019-12-13 14:47:41      | Search                  |                        |  |  |
|             |   |                        |                |                     |                     | Total remaining vehicles: 83 | ,permanent: 5 ,time lii | mited:5 ,temporary: 73 |  |  |
| G           |   |                        |                |                     |                     |                              |                         |                        |  |  |
|             | No. \$  | License Plate Number 🌲 | Parking Type 🌲 | Parking Duration 🜲  | Entry Time 🜲        | Lane Name 🗢                  | Picture of Vehicle      | Remarks                |  |  |
|             | 20904   | 1ໝກ9506                | Temporary      | 21Hour35min         | 2019-12-12 17:09:20 | entrance                     | Open                    |                        |  |  |
|             |   |                        | Temporary      |                     |                     |                              | Open                    |                        |  |  |
|             | 20906   |                        | Temporary      | 21Hour35min         | 2019-12-12 17:09:35 | entrance                     | Open                    |                        |  |  |
|             |   |                        | Temporary      |                     |                     |                              | Open                    |                        |  |  |
|             | 20908   | ฒฮ7474                 | Temporary      | 21Hour35min         | 2019-12-12 17:10:09 | entrance                     | Open                    |                        |  |  |
|             |   | ฒบ7447                 | Temporary      |                     |                     |                              | Open                    |                        |  |  |
|             |   | ฒช7447                 | Temporary      | 21Hour35min         | 2019-12-12 17:10:17 | entrance                     | Open                    |                        |  |  |
|             |   | 1ฒข2442                |                |                     |                     |                              | Open                    |                        |  |  |
|             |   | บล5674                 | Temporary      | 21Hour34min         | 2019-12-12 17:10:33 | entrance                     | Open                    |                        |  |  |
|             |   |                        | Time limited   |                     |                     |                              | Open                    |                        |  |  |
|             |   |                        |                |                     |                     | < 1 2                        | 3 4 5                   | > Page 1 / 257         |  |  |

Clicking Open will show you a vehicle capture. The following is an example.

| O vStation Pro          | B Control Panel      | 닾 Live                | Vehicle Parking ×              | +   | CPU: Memory:                                       | 20%<br>52%                             | Х ≜ – в ×            |
|-------------------------|----------------------|-----------------------|--------------------------------|---|--|--|----------------------|
| 100.100.68.208          |                      |                       |                                |   |  |  |                      |
| ত্রি Parking            | 🛱 Vehicle            |                       | <ul> <li>중 Settings</li> </ul> |   |  |  |                      |
| Search Type 🔵 Entry & E | Exit 💿 Remaining Ve  | ehicles               |                                |   |  |  |                      |
| License Plate Number    |                      | Parking Type All      |                                | <b>= 2019-12-11 14:47:41</b>  | - 2019-12-13 14:47:41<br>Total remaining vehicles: | L Search<br>3 ,permanent: 5 ,time limi | ted:5 ,temporary: 73 |
| 6 E E E                 |                      |                       |                                |   |  |  |                      |
| No. \$                  | License Plate Number | Picture of Vehicle    | _20904                         |   |  | Picture of Vehicle                     | Remarks              |
| 20904                   |                      |                       |                                | 28/   | 09/2019 10132-DZ                                   | Open                                   |                      |
| 20905                   |                      | 100                   |                                |   |  | Open                                   |                      |
| 20906                   |                      | -0-                   | 8                              |   |  | Open                                   |                      |
| 20907                   |                      |                       |                                |   | 1200   | Open                                   |                      |
| 20908                   |                      | and the second        |                                | and the second se | Finite   | Open                                   |                      |
| 20909                   |                      | San Province          |                                |   | 1-15 -   | Open                                   |                      |
| 20910                   |                      | and the second second | · · · ·                        | and the second  | 1 and the  | Open                                   |                      |
| 20911                   |                      |                       | License Plate Number: 1ຄມາ95   | 06 Entry Time: 2019-12-12 17:0  | 09:20  | Open                                   |                      |
| 20912                   |                      |                       |                                |   |  | Open                                   |                      |
| 20913                   |                      |                       |                                |   |  | Open                                   |                      |
|                         |                      |                       |                                |   | < 1 2  | 3 4 5                                  | > Page 1 / 257 .     |

### **Querying Information About Registered Vehicles**

To query information about registered vehicles whose parking type is either time limited or permanent:

- 1. Under Vehicle Parking, select Vehicle.
- 2. Select the target AI NVR from the drop-down list.
- 3. Specify the search criteria.

| Station Pro 🗄 Control Panel | 모 Live 📕 Vehicle Parkin | • × +                         | CPU: 23%<br>Memory: 52%  |
|-----------------------------|-------------------------|-------------------------------|--------------------------|
| 100.100.68.208 🗢            |                         |                               |                          |
| ত্তি Parking 🚊 Vehicle      | 성 Settings              |                               |                          |
| Parking Type All ⊽ Expi     | ed All                  | iii 2018-12-13 ~ iiii 2020-12 | 2-12 Search              |
| License Plate Number        | Name of Vehicle Owner   | Phone of Vehicle Owner        | Address of Vehicle Owner |

#### 4. Click Search.

The following is an example of a search result.

| 🗿 vSta   | ation Pr  | O 🔡 Con                 | trol Panel               | 는 Live                    | 🖨 Vehicle Pa   | rking ×    | +                  |                | CPU:<br>Memory:                                  | 27% ↔ × ⊽         | - & ×    |
|----------|-----------|-------------------------|--------------------------|---------------------------|----------------|------------|--------------------|----------------|--|-------------------|----------|
| 100.100  | 0.68.208  |                         |                          |                           |                |            |                    |                |  |                   |          |
| ত্র Park | ing       |                         | 🛱 Vehicle                |                           | <li></li>      |            |                    |                |  |                   |          |
| Parking  | Туре      | All                     |                          | All                       | ∀alid Date     |            | 2018-12-13         | ~ 🗒 20         | 20-12-12 Sear                                    | rch               |          |
| License  | Plate Nur | nber                    | N                        | ame of Vehicle Owr        | ier            |            | Phone of Vehicle C | Owner          | Address of Vehicle Ow                            | ner               |          |
|          |           |                         |                          |                           |                |            |                    |                |  |                   |          |
| đ        | G≣        | 1<br>1<br>1<br>1        |                          |                           |                |            |                    |                |  |                   |          |
|          | No. 🗢     | License Plate<br>Number | Name of Vehicle<br>Owner | Phone of Vehicle<br>Owner | Parking Type 🌲 | Expired \$ | Valid Start From 🖇 | Valid End On 🌲 | Address of Vehicle Owne                          | r Registered On 🌲 | Remarks  |
|          |           | ชม7408                  | Hang SHo                 | 123456789                 | Time limited   | Yes        | 2019-10-22         | 2019-11-22     | Groenhof 344, Amstelveen, 118<br>The Netherlands | 86GK, 2019-11-30  |          |
|          |           | 2ฒจ5272                 | Yue Chea                 | 123456790                 | Permanent      |            | 2019-11-30         |                | Groenhof 344, Amstelveen, 118<br>The Netherlands | 86GK, 2019-11-30  |          |
|          |           | ธย8058                  | Fay Lee                  | 123456791                 | Time limited   |            | 2019-11-22         | 2019-12-22     | Groenhof 344, Amstelveen, 118<br>The Netherlands | 36GK, 2019-11-30  |          |
|          |           | กค5987                  | Chong Zhee               | 123456792                 | Time limited   |            | 2019-11-22         | 2019-12-22     | Groenhof 344, Amstelveen, 110<br>The Netherlands | 86GK, 2019-11-30  |          |
|          |           | 7กม646                  | Phong Wong               | 123456793                 | Permanent      |            | 2019-11-30         |                | Groenhof 344, Amstelveen, 118<br>The Netherlands | 36GK, 2019-11-30  |          |
|          |           | 2nn4695                 | Leau Loo                 | 123456795                 | Permanent      |            | 2019-11-30         |                | Groenhof 344, Amstelveen, 11<br>The Netherlands  | 86GK, 2019-11-30  |          |
|          |           |                         |                          |                           |                |            |                    |                |  | < 1 > Page        | 9 1 /1 . |

### **Querying Vehicle Detection Captures**

To query vehicle detection captures on an AI NVR:

 Choose Control Panel > AI > vStation Pro Server, and add servers to which you want the AI NVR to push AI notifications (face/figure/vehicle detection captures, face detection alarms, and related data).

For details, see step 9 of section "Arming AI Cameras".

2. Go to the **Live** page and select an idle viewing window and choose **Vehicle Detection Captures**. The following is an example.



### **Querying Vehicle Detection Panorama Captures**

To query vehicle detection captures on an AI NVR:

 Choose Control Panel > AI > vStation Pro Server, and add servers to which you want the AI NVR to push AI notifications (face/figure/vehicle detection captures, face detection alarms, and related data).

For details, see step 9 of section "Arming AI Cameras".

2. Go to the Live page and select an idle viewing window and choose Vehicle Detection Panorama Captures.

The following is an example.



### **Querying Vehicle Detection Logs**

To query vehicle detection captures on an AI NVR:

 Choose Control Panel > AI > vStation Pro Server, and add servers to which you want the AI NVR to push AI notifications (face/figure/vehicle detection captures, face detection alarms, and related data).

For details, see step 9 of section "Arming AI Cameras".

KEDACOM 苏州科达科技股份有限公司 Suzhou Keda Technology Co.,Ltd 2. Go to the Live page and select an idle viewing window and choose Vehicle Detection Logs.

#### The following is an example.

| ⊒Vehicle Det | ection Logs |           | ×             |  |
|--------------|-------------|-----------|---------------|--|
| LPN          | Time        | Attribute | Entrance/Exit |  |
| 6n5269       | 2019-12-13  | Temporary | entrance      |  |
| ญห9179       | 2019-12-13  | Temporary | departure     |  |
| ฆส625        | 2019-12-13  | Temporary | entrance      |  |
| 2nn4695      | 2019-12-13  | Permanent | entrance      |  |
| ญห9179       | 2019-12-13  | Temporary | departure     |  |
| ฮย4777       | 2019-12-13  | Temporary | entrance      |  |
| 7กม646       | 2019-12-13  | Permanent | entrance      |  |
| มข9104       | 2019-12-13  | Temporary | entrance      |  |
|              |             |           |               |  |

# **Querying Vehicle Capture Statistics**

To query vehicle detection captures on an AI NVR:

 Choose Control Panel > AI > vStation Pro Server, and add servers to which you want the AI NVR to push AI notifications (face/figure/vehicle detection captures, face detection alarms, and related data).

For details, see step 9 of section "Arming AI Cameras".

2. Go to the **Live** page and select an idle viewing window and choose **Vehicle Capture Statistics**. The following is an example.



#### NOTE:

The **VIP** label is reserved for future use.

If you click a period, you can find the following.



# **Searching History Face/Figure/Vehicle Captures**

To search history face/figure/vehicle captures on an AI NVR:

1. Click + and select Real-Time Captures.



- 2. In the displayed interface, select the AI NVR from the device list on the left panel.
- 3. Specify a capture type and a channel/camera (or you can select all channels or cameras). The following is an example.

| Q Real-Time Captures |      |   |          |                     |   |  |  |  |  |  |  |
|----------------------|------|---|----------|---------------------|---|--|--|--|--|--|--|
| Capture Type         | Face | ₹ | Channel: | D19 84202 FACE-Room | ₹ |  |  |  |  |  |  |

4. Select Search by Keyword or Search by Picture.

If you select Search by Keyword, you need to specify a start time and an end time.



If you select **Search by Picture**, you need to upload a reference picture and specify the following. The following is an example.

| Q Real-Time  | Captures        |                      |                |            |              |                       |            |           |                           |  |
|--------------|-----------------|----------------------|----------------|------------|--------------|-----------------------|------------|-----------|---------------------------|--|
| Capture Type | Face            |                      |                | Channel:   | All          | 7                     |            |           |                           |  |
| Search by    | Keyword         | 모 se                 | earch by Pictu | ire        |              |                       |            |           |                           |  |
|              | +<br>Sin<br>Thi | nilarity<br>reshold: | 84             | (1-100)    | Start Time:  | <b>iiii</b> 2019-12-0 | 3 15:41:49 | End Time: | iiiii 2019-12-13 15:41:49 |  |
|              | Ord             | der:                 | Threshold      | ⊽ 💿 Descen | lding 🔿 Asce | ending                | Search     |           |                           |  |

In this step:

- When you set **Order** to **Threshold**, the search results will be displayed in descending or ascending order of the similarity between the reference picture and captures.
- When you set **Order** to **Time**, the search results will be displayed in descending or ascending order of the capturing time.
- 5. Click Search.

The following is an example of a search result.



Clicking will start a playback, which starts around 10 seconds before the time when the face capture is made. For example, if the face capture is made at 14:01:35, the playback will start at 14:01:25.

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You can click **Export** to export search results.
# Adding a Custom Tab Page

You can add a custom tab page to show interested information.

To add a custom tab page:

1. Click + and select Custom.



2. Enter a name for the custom tab page. The following is an example

|           | ng lo an o | Admpio.           |               |              |          |  |
|-----------|------------|-------------------|---------------|--------------|----------|--|
| + New Tab | × +        | -                 |               |              |          |  |
|           |            | Please select and | edit a screen | layout and c | lick OK. |  |
|           |            | DocTest           |               |              |          |  |
|           |            |                   |               |              |          |  |

- 3. Select a screen layout.
- 4. Click OK.
- 5. Drag items (NVRs, camera groups, or notifications) on the left panel to viewing windows. The following is an example.

| vStation Pro  | Control Panel     |     | 🛨 New | / Tab  | × +                |           |               |              |                |               |                | CPU:<br>Memory: | _ | 12%<br>55% | - ~            |               | 8 ×      |
|---|-------------------|-----|-------|--------|--------------------|-----------|---------------|--------------|----------------|---------------|----------------|-----------------|---|------------|----------------|---------------|----------|
| :Ξ Device List 🛅 Group  | BI Small<br>Tools |     |       |        | Pleas              | se drag t | he target ite | em(s) to the | related windo  | w and click ( | ЭK.            |                 |   |            |                |               |          |
|   |                   |     |       |        |                    |           | >             |              |                |               |                |                 |   |            |                |               | ×        |
| 🚊 Active Alarms   |                   |     |       |        |                    |           |               |              |                |               |                |                 | 1 | <b>İ</b>   | , İ            | 1             | <b>İ</b> |
| [8] Face Detection Captures   |                   |     |       |        |                    |           |               |              |                |               |                |                 |   |            |                |               |          |
| [f,] Figure Detection Captures  |                   |     |       |        |                    |           |               |              |                |               |                |                 | 1 | <b>İ</b>   | 1              | 1             | <b>İ</b> |
| $[\vartheta_{\underline{a}}]$ Face Detection Alarms                     |                   |     |       | A      | tive Alarms        |           |               |              |                |               |                |                 |   |            |                |               |          |
| (A) Face Detection Alarm Captu  | ures (Channel)    |     |       |        |                    |           |               |              |                |               |                |                 |   |            |                |               | Î        |
| 용 Face Detection Alarm Captu  | ures (Group)      |     |       |        |                    | 88%       |               |              |                |               |                |                 |   |            | = 4            | U =           |          |
| $\beta_{\!\scriptscriptstyle \rm B}$ Person Capture Statistics          |                   |     |       |        |                    |           |               |              |                |               |                |                 |   |            | - (1           | ) =           |          |
| 요 E-Map   |                   |     |       |        | Detection Alarms   |           |               |              | Face Detection | on Alarm Capt | ures (Channel) |                 |   |            | on Alarm Capt  | tures (Group) |          |
| Detection Captures  |                   |     |       |        |                    |           |               |              |                |               |                |                 |   |            |                |               | <b>`</b> |
| Dehicle Detection Panorama  | a Captures        | L I |       |        | ÷                  |           |               |              |                | Q             |                |                 |   | <b>F</b>   |                | <b>F</b>      | <b>F</b> |
| E Vehicle Detection Logs  |                   |     |       |        |                    |           |               |              |                |               |                |                 |   |            |                |               |          |
| $\widehat{\varphi_{\!\scriptscriptstyle B}}$ Vehicle Capture Statistics |                   |     |       | Person | Capture Statistics |           |               |              |                |               |                |                 |   | Vehicle    | e Detection Ca | aptures       |          |
| ₩ <u>₩</u>  |                   |     |       |        |                    |           | 0             | ĸ            | Back           |               |                |                 |   |            |                |               |          |

#### 6. Click **OK**.

After preceding steps are performed, you can find the following.

#### User Manual for vStation Pro



### **Default Custom Tab Pages**

### Supermarket and Retails



Clicking Supermarket & Retails will show you the following.



The following table provides the options used by this tab page and their descriptions.

| Area     | Option                                  | Description   |
|----------|---|---|
| ۸        | Face Detection Alarm Captures (Chappel) | For details, see sub-section "Querying the Function |
| A Face D |   | Effect" of section "Face Detection".                |
| D        | F-Man                                   | For details, see sub-section "Querying the Function |
| B E-map  | с-мар                                   | Effect" of section "Configuring E-Map".             |
| С        | Linked Alarm Playbacks                  | For details, see section "Showing Linked Alarms".   |
| D        | Visitor Traffic Statistics              | For details, see sub-section "Querying the Function |
| U        |   | Effect" of section "Visitor Traffic Statistics".    |

### **Casino and Bank**



Clicking Casino & Bank will show you the following.

#### User Manual for vStation Pro



The following table provides the options used by this tab page and their descriptions.

| Area | Option                                  | Description  |  |
|------|---|--|--|
| Δ    | Ease Detection Alarm Captures (Chappel) | For details, see sub-section "Querying the Function  |  |
| A    | Face Detection Alarm Captures (Channel) | Effect" of section "Face Detection".   |  |
| Р    | E-Map                                   | For details, see sub-section "Querying the Function  |  |
| Б    | С-мар                                   | For details, see sub-section "Querying the Function<br>Effect" of section "Configuring E-Map". |  |
| С    | Linked Alarm Playbacks                  | For details, see section "Showing Linked Alarms".  |  |

### **Small enterprises and Community**



will show you the following.



The following table provides the options used by this tab page and their descriptions.

| Area | Option                           | Description   |
|------|----------------------------------|---|
| А    | Vahiala Entrice and Evite        | For details, see sub-section "Querying the Function |
| В    |                                  | Effect" of section "Vehicle Parking".               |
| C    | Access Control Entries and Evits | For details, see sub-section "Querying the Function |
| 0    | Access Control Entries and Exits | Effect" of section "Access Control".                |
| Ĺ    | Vehicle Detection Logs           | For details, see sub-section "Querying the Function |
| ן ע  | Venicle Detection Logs           | Effect" of section "Vehicle Parking".               |

# Video Wall

You can monitor areas on a video wall but you must get at least one decoder ready. If no decoders are configured, you cannot monitor areas on the video wall. NOTE:

The Video Wall function does not support RTSP streams from NVRs of V5.

To configure the video wall:

1. Click 🗄 and select Video Wall.



2. Add a decoder.

Ensure that the decoder can reach the target NVR. You are advised to set the decoder to be located on the same LAN as the target NVR.

1) Click 🛨.

| Station Pro           | E Control Panel | ظ Video Wall > | + | CPU:<br>Memory: | 42%<br>58% ↔ × -          | - & × |
|-----------------------|-----------------|----------------|---|-----------------|---------------------------|-------|
| Ē                     |                 |                |   |                 |                           |       |
| E Device List         |                 |                |   |                 |                           |       |
| Q Keynword            |                 |                |   |                 | Screen Layout Scheme List | t .   |
| 172 16 102 122        |                 |                |   |                 | Scheme1                   | ₿ 🛛 😣 |
| ► 0::: 172.16.102.138 |                 |                |   |                 |                           |       |
| ► □ 172.16.192.222    |                 |                |   |                 |                           |       |
| ▶  100.100.83.1       |                 |                |   |                 |                           |       |
| ▶ 🕮 100.100.68.208    |                 |                |   |                 |                           |       |
| ►  NVR with P         |                 |                |   |                 |                           |       |
|                       |                 |                |   |                 |                           |       |
|                       |                 |                |   |                 |                           |       |
|                       |                 |                |   |                 | Decoder List              | ⊡     |
|                       |                 |                |   |                 |                           |       |
|                       |                 |                |   |                 |                           |       |
|                       |                 |                |   |                 |                           |       |
|                       |                 |                |   |                 |                           |       |
|                       |                 |                |   |                 |                           |       |
|                       |                 |                |   |                 |                           |       |
|                       |                 |                |   |                 |                           |       |
|                       |                 |                |   |                 |                           |       |
|                       |                 |                |   |                 |                           |       |

2) Specify parameters displayed. The following is an example.

#### **User Manual for vStation Pro**

| O Add Decoder |               | ×      |  |
|---------------|---------------|--------|--|
| , n           | 100 100 70 10 |        |  |
| IF            | 100.100.72.19 |        |  |
| Port          | 8080          |        |  |
|               |               |        |  |
|               | ОК            | Cancel |  |

In this step, set **Port** to **8080**.

- 3) Click OK.
- 3. Configure the decoder through the Decoder Management tool.
  - 1) Click 🕰.



2) Enter a username and a password.

| Decorder Management | 36 F        | same Autor            | Latter Autor  | Autor - | X |
|---------------------|-------------|-----------------------|---------------|---------|---|
|                     |             |                       |               |         |   |
|                     |             |                       |               |         |   |
|                     |             |                       |               |         |   |
|                     |             |                       |               |         |   |
|                     |             |                       |               | 7       |   |
| 🛅 Login             |             |                       |               |         |   |
|                     | Connect IP: | 100.100.72.19         |               |         |   |
| <b>1</b>            | Username:   | admin                 | 🖌 Keep User   |         |   |
|                     | Password:   | *****                 | Keep Password |         |   |
|                     |             |                       |               |         |   |
|                     | Use Sock    | \$5                   |               |         |   |
|                     | Server:     | 255 . 255 . 255 . 255 | Port:         |         |   |
|                     | Username:   |                       |               |         |   |
|                     | Password:   |                       |               |         |   |
|                     |             |                       |               |         |   |
|                     |             |                       |               |         |   |
|                     |             |                       | ОК            |         |   |
|                     |             |                       |               |         |   |
|                     |             |                       |               |         |   |

- 3) Click OK.
- 4) Choose System config > Platform param, and UNCHECK Access platform.

| Decoo                                 | ler Management  |
|---------------------------------------|---|
| Image config   Audio config   Network | c config System config   External config   User manage   System status   System maintain  |
|                                       | Platform param  |
| Platform param                        | UVID:   |
| >> Basic param                        |   |
| >> Platform param                     | Address: 0 . 0 . 0 . 0 Port: 5510   |
| >> GB Config                          | The platform disconnected   |
| >> SDK Platform Param                 |   |
| >> Point to Point                     | Access net manager  |
| >> RTSP Setting                       | IP Address: 0 . 0 . 0 . 0 (*) Port. 1727 (*)  |
|                                       | Tip: Modifying the option marked with (*), it will take effect after the decoder is rebooled.<br>If the decoder connected NVR devices connected to succeed, still need to add this decoder equipment<br>on the NVR. Setting will not effect when point to point mode is opened. |

- 5) Click Save.
- 6) Click **RTSP Setting** and check **Enable RTSP**.

| Decorder Management                 | CONTRACTOR CONTRACTOR OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER          | x |
|-------------------------------------|---|---|
| Deco                                | der Management  |   |
| Image config   Audio config   Netwo | ork config   System config   External config   User manage   System status   System maintain                              | - |
|                                     | RTSP Setting  |   |
| RTSP Setting                        | *When HDMI closed, users can't set RTSP   |   |
| >> Basic param                      | Video Output HDMI2 TCP T  |   |
| >> Platform param                   | Edit Edit   |   |
| >> GB Config                        | rtsp://100.100.83.1:554/realtime?chnid=0 rtsp://100.100.83.1:554/realtime?chnid=1 rtsp://100.100.83.1:554/realtime?chnid= | 2 |
| >> SDK Platform Param               |   |   |
| >> Point to Point                   |   |   |
| >> RTSP Setting                     | Edit Edit Edit Edit   |   |
|                                     |   |   |
|                                     | Edit Edit   |   |

- 7) Click Save.
- 8) Choose Image config > Local output, specify Video Output Port, set Video Output Port Status to Open, and configure the Channel count parameter according to your needs.

| Decorder Management Deco Deco Image config Audio config N             | etwork config   System config   External config   User manage  | 100.100.72.19 Logout     System maintain   |
|---|--|--|
| Local output     Local output     Decoder channel     Virtual Channel | Local output<br>Video Output Port: HDMI2  Video Output Port Status: Open  Channel count:  9 * 1. HDMI1/VGA output in the same port * 2. HDMI1/VGA and HDMI2 can use only one * 3. only HDMI2 support 4K output | Resolution: 1024 * 768<br>Refresh rate: 60Hz<br>chromaticity degree: 100<br>contrast degree: 100<br>brightness degree: 100<br>saturability degree: 100<br>befault values |
|   | Scheme style:  |  |

The **Scheme style** options vary according to the value for **Channel count**. For example, if the value for **Channel count** is **4**, you can find the following scheme styles.

| Decorder Management   | CONTRACTOR OF STREET, No. 1, and 1, and  | A REAL PROPERTY AND A REAL   | ×           |
|---|--|--|-------------|
| Decc<br>Image config   Audio config   Netw  | oder Management  | 100.100.72.19 Logout   | <b>T</b>    |
| Local output     Social o | Local output<br>Video Output Port: HDMi2 Video Output Port Status: Open V<br>Channel count 4 V<br>* 1. HDMI1/VGA output in the same port<br>* 2. HDMI1/VGA and HDMI2 can use only one<br>* 3. only HDMI2 support 4K output | Resolution:<br>Refresh rate:<br>60Hz<br>chromaticity degree:<br>chromaticity degree:<br>brightness degree:<br>saturability degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>brightness degree:<br>bright | ><br>><br>> |
|   | Scheme style: 1 3 4  |  |             |

- 9) Select a scheme style and configure other parameters.
- 10) Click Save.
- 4. Click to expand the decoder.



5. Drag the previously configured video output port to a video window. After this, you can find the following.

| Station Pro        | all × +                        |                 |
|--------------------|--------------------------------|-----------------|
| Ξ                  |                                |                 |
| E Device List      | 100.100.72.19_D01F-4K-72.19_HD | MI2_2(online) × |
|                    |                                |                 |
| Q Keyword          |                                |                 |
| ▶  172.16.192.123  |                                |                 |
| ▶  172.16.192.138  |                                |                 |
| ▶  172.16.192.222  |                                |                 |
| ▶ 🖭 100.100.83.1   |                                |                 |
| ▶ ▣ 100.100.68.208 |                                |                 |
| ▶  NVR with P      |                                |                 |
|                    |                                |                 |
|                    |                                | 3               |

6. Drag cameras that can register with different NVRs to sub-windows of the video window. After this, you can find the following.

| vStation Pro       | × +   |           |  |
|--------------------|---|-----------|--|
| Ш.                 |   |           |  |
| ⊟ Device List      | 100.100.72.19_D01F-4K-72.19_HDMI2_2(online) |           |  |
|                    | D1 84110                                    | D2 68.205 |  |
| Q Keyword          |   |           |  |
| ▶ 🖂 172.16.192.123 |   |           |  |
| ▶ 💷 172.16.192.138 |   |           |  |
| ▶  172.16.192.222  |   |           |  |
| ▶ 厚頸 100.100.83.1  |   |           |  |
| ▶ 🖼 100.100.68.208 |   |           |  |
| ▶ 回 NVR with P     |   |           |  |
|                    |   |           |  |

7. Enter a screen layout scheme name and click

The following is an example.



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This screen layout scheme takes effect only on the vStaion Pro, not on the video wall. The screen style on the video wall is determined by the following.

| Decorder Management   | CONTRACT OF SMALL PARTY AND  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| Decoder Management          Image config       Audio config       System config       External config       User manage       System status       System maintain |  |  |  |  |  |  |  |
|   | Local output   |  |  |  |  |  |  |
| Local output     Local output     Deceder chornel   | Video Output Port: HDMI2  Video Output Port Status: Open   | Resolution: 1024 * 768  Refresh rate: 60Hz   |  |  |  |  |  |
|   | Channel count: 4   | chromaticity degree: 100   |  |  |  |  |  |
| Virtual Channel   | * 1. HDMI1/VGA output in the same port<br>* 2. HDMI1/VGA and HDMI2 can use only one<br>* 3. only HDMI2 support 4K output | contrast degree: 100<br>brightness degree: 100<br>saturability degree: 100<br>Default values |  |  |  |  |  |
|   | Scheme style: 1 3 4  |  |  |  |  |  |  |

8. Click **OK** to confirm your operation.

| Station Pro         | 茴 Video Wall × +               |                  |                           | CPU:<br>Memory: | <sup>17%</sup> × ₹   |       |
|---------------------|--------------------------------|------------------|---------------------------|-----------------|----------------------|-------|
| ←<br>∷Ξ Device List | 100.100.72.19_D01F-4K-72.19_HD | MI2_2(online) ×  |                           |                 | © □                  |       |
|                     | D1 84110 D2 68.                |                  |                           |                 | Screen Lavout Scheme | List  |
| Q Keyword           |                                |                  |                           |                 | DocTest1             | 8 2 8 |
| I72.16.192.123      |                                |                  |                           |                 |                      |       |
| ▶  172.16.192.138   |                                |                  |                           |                 |                      |       |
| ▶ 🖾 172.16.192.222  |                                |                  |                           |                 |                      |       |
| ▶ 回 100.100.83.1    |                                | O Note           | ×                         |                 |                      |       |
| ▶ 💷 100.100.68.208  |                                |                  |                           |                 |                      |       |
| ▶ 回 NVR with P      |                                |                  | west to save this askers? |                 |                      |       |
|                     |                                | Are you sure you | want to save this scheme? |                 |                      |       |
|                     |                                |                  |                           |                 |                      |       |
|                     |                                |                  |                           |                 | Decoder List         | E     |
|                     |                                |                  | OK Cancel                 |                 | * 🖻 D01F-4K-72.19    | @ ₿ ⊗ |
|                     |                                |                  |                           |                 | HDMI2                |       |
|                     |                                |                  |                           |                 |                      |       |
|                     |                                |                  |                           |                 |                      |       |
|                     |                                |                  |                           |                 |                      |       |
|                     |                                |                  |                           |                 |                      |       |
|                     |                                |                  |                           |                 |                      |       |
|                     |                                |                  |                           |                 |                      |       |
|                     |                                |                  |                           |                 |                      |       |
|                     |                                |                  |                           |                 |                      |       |

9. Click to load the screen layout scheme.



10. (Optional) Click to unload the screen layout scheme.

11. (Optional) Click 🔳 to add morme screen layout schemes.

## **Abbreviations and Acronyms**

- AI Artificial Intelligence
- NVR Network Video Recorder
- PC personal computer