

DS-K1T331 Series Face Recognition Terminal

User Manual

Legal Information

User Manual

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During the use of device, personal data will be collected, stored and processed. To protect data, the development of Hikvision devices incorporates privacy by design principles. For example, for

device with facial recognition features, biometrics data is stored in your device with encryption method; for fingerprint device, only fingerprint template will be saved, which is impossible to reconstruct a fingerprint image.

As data controller, you are advised to collect, store, process and transfer data in accordance with the applicable data protection laws and regulations, including without limitation, conducting security controls to safeguard personal data, such as, implementing reasonable administrative and physical security controls, conduct periodic reviews and assessments of the effectiveness of your security controls.

Symbol Conventions

The symbols that may be found in this document are defined as follows.

| Symbol | Description |
|------------------|---|
| Danger | Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury. |
| A Caution | Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results. |
| i Note | Provides additional information to emphasize or supplement important points of the main text. |

Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed

under the EMC Directive 2014/30/EU, RE Directive 2014/53/EU, the RoHS Directive 2011/65/EU



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see:www.recyclethis.info

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into Dangers and Cautions:

Dangers: Neglecting any of the warnings may cause serious injury or death.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.

| \triangle | \triangle |
|---|---|
| Dangers: Follow these safeguards to prevent serious injury or death. | Cautions: Follow these precautions to prevent potential injury or material damage. |

A Danger:

- All the electronic operation should be strictly compliance with the electrical safety regulations, fire prevention regulations and other related regulations in your local region.
- Please use the power adapter, which is provided by normal company. The power consumption cannot be less than the required value.
- Do not connect several devices to one power adapter as adapter overload may cause over-heat or fire hazard.
- Please make sure that the power has been disconnected before you wire, install or dismantle the device.
- When the product is installed on wall or ceiling, the device shall be firmly fixed.
- If smoke, odors or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.
- Do not ingest battery, Chemical Burn Hazard. This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
 Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the device yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

A Cautions:

- Do not drop the device or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid the equipment installation on vibrations surface or places subject to shock (ignorance can cause equipment damage).
- Do not place the device in extremely hot (refer to the specification of the device for the detailed operating temperature), cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.

- The device cover for indoor use shall be kept from rain and moisture.
- Exposing the equipment to direct sun light, low ventilation or heat source such as heater or radiator is forbidden (ignorance can cause fire danger).
- Do not aim the device at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of sensor at the same time.
- Please use the provided glove when open up the device cover, avoid direct contact with the device cover, because the acidic sweat of the fingers may erode the surface coating of the device cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the device cover, do not use alkaline detergents.
- Please keep all wrappers after unpack them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and lead to additional costs.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.
- Biometric recognition products are not 100% applicable to anti-spoofing environments. If you require a higher security level, use multiple authentication modes.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100~240 VAC or 12 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.

Available Models

| Product Name | Model | |
|---------------------------|------------|--|
| Face Recognition Terminal | DS-K1T331 | |
| | DS-K1T331W | |

Use only power supplies listed in the user instructions:

| Model | Manufacturer | Standard |
|--------------------------|--|----------|
| ADS-26FSG-12 12018EPG | Shenzhen Honor Electronic Co., Ltd. | PG |
| ADS-26FSG-12 12018EPI-01 | Shenzhen Honor Electronic Co., Ltd. | PI |
| ADS-26FSG-12 12018EPCU | Shenzhen Honor Electronic Co., Ltd. | PCU |
| ADS-26FSG-12 12018EPB | Shenzhen Honor Electronic Co., Ltd. | РВ |
| MSA-C1500IC12.0-18P-BR | MOSO Technology Co., Ltd. | PBR |

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Chapter 1 Overview

1.1 Overview

Face recognition terminal is a kind of access control device for face recognition, which is mainly applied in security access control systems, such as logistic centers, airports, university campuses, alarm centrals, dwellings, etc.

1.2 Features

- 3.97-inch LCD touch screen
- 2 MP wide-angle dual-lens
- Face anti-spoofing
- Face recognition distance: 0.3 m to 1.5 m
- Suggested height for face recognition: between 1.4 m and 1.9 m
- Deep learning algorithm
- 300 face capacity, 1500 card capacity (when connecting external card reader), 150,000 event capacity, and 20,000 captured pictures storage
- Face recognition duration < 0.2 s/User; face recognition accuracy rate \ge 99%
- Capture linkage and captured pictures storage
- Transmits card and user data from or to the client software via TCP/IP protocol and saves the data on the client software
- Imports pictures from the USB flash drive to the device or export pictures, events, from the device to the USB flash drive
- Stand-alone operation
- Manage, search and set device data after logging in the device locally
- Connects to one external card reader via RS-485 protocol
- Connects to secure door control unit via RS-485 protocol to avoid the door opening when the device is destroyed
- Audio prompt
- Watchdog design and tamper function

Chapter 2 Appearance

Refer to the following contents for detailed information of the face recognition terminal:

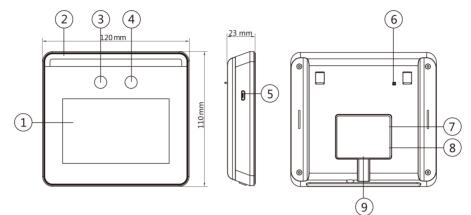


Figure 2-1 Face Recognition Terminal Diagram

| No. | Name | Description | |
|-----|--------------------|--|--|
| 1 | Display Screen | 3.97-inch LCD touch screen. | |
| 2 | Supplement Light | Supplement light camera. | |
| 3 | Camera 1 | Recording or capturing videos or pictures. | |
| 4 | Camera 2 | Recording or capturing videos or pictures. | |
| 5 | microUSB Interface | Connect to USB flash drive via a microUSB to USB cable. | |
| 6 | Tamper | After installation, if the device is disassembled, a tamper alarm will be triggered. | |
| 7 | Network Interface | Connect to Ethernet. | |
| 8 | Wiring Terminals | Connect to other external devices, including RS- 485 card reader, door lock, etc. | |
| 9 | Debugging Port | The debug terminal is used for debugging only. | |

Chapter 3 Installation

3.1 Installation Environment

- Avoid backlight, direct sunlight, and indirect sunlight.
- For better recognition, there should be light source in or near the installation environment.

iNote

For details about installation environment, see Tips for Installation Environment.

3.2 Base Mounting

Place the device on the desk or other flats by using the mounting bracket.

Steps

- **1.** Route the cables through the cable hole of the bracket, and connect the terminals with external devices' cables.
- **2.** Align the device two holes with the two buckles on the bracket.
- **3.** Hang the device on the bracket and make sure the buckle in the middle of the bracket is inserted in the groove on the device back.

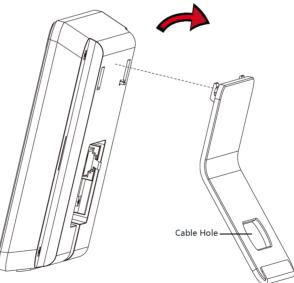


Figure 3-1 Base Mounting

4. Place the assembled device and bracket on the desk or other flats.

3.3 Install with Gang Box

Steps

1. According to the datum line on the mounting template, stick the mounting template on the wall or other surface, 1.45 meters higher than the ground.

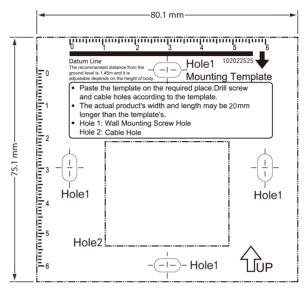


Figure 3-2 Mounting Template

2. Drill holes on the wall or other surface according to the mounting template and install the gang box.

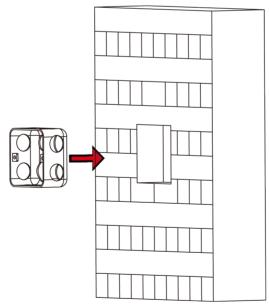


Figure 3-3 Install Gang Box

3. Use two supplied screws (SC-KM4x25-SUS or KA4×22-SUS) to secure the mounting plate on the gang box.

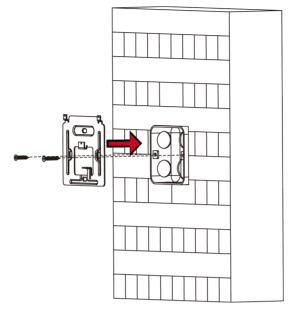


Figure 3-4 Install Mounting Plate

- **4.** Route the cables through the cable hole of the mounting plate, and connect the terminals with the external devices' cables.
- 5. Align the device with the mounting plate and hang the device on the mounting plate.

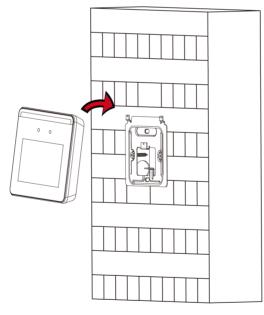


Figure 3-5 Install Device

6. Use one supplied screw to secure the device and the mounting plate.

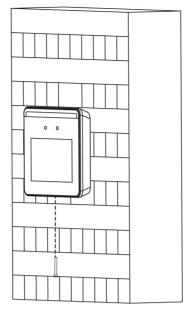


Figure 3-6 Secure Device

iNote

- The installation height here is the recommended height. You can change it according to your actual needs.
- For easy installation, drill holes on mounting surface according to the supplied mounting template.

Chapter 4 Wiring

• If the device should connect with peripherals, it supports wiring with the RS-485 card reader, the door lock, the exit button, the access controller, and the power supply.

∎Note

If the cable size is 18 AWG, you should use a 12 V power supply. And the distance between the power supply and the device should be no more than 80 m.

• If the device has no peripherals to be wired, it supports wiring with the power supply by using the supplied adaptor.

4.1 Terminal Description

The terminals contains power input, RS-485, and door lock.

The terminal's diagram is as follows:

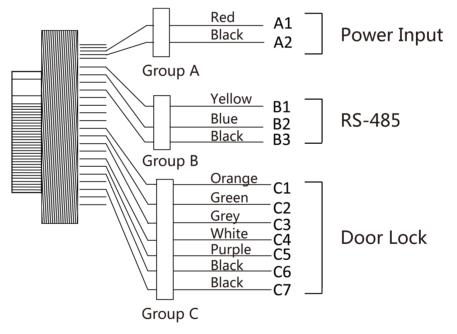


Figure 4-1 Terminal Diagram

The descriptions of the terminals are as follows:

| Group | No. | Function | Color | Name | Description |
|---------|-----|-------------|--------|--------|--------------------------|
| Group A | A1 | Power Input | Red | +12 V | 12 VDC Power Supply |
| | A2 | | Black | GND | Ground |
| Group B | B1 | RS-485 | Yellow | 485+ | RS-485 Wiring |
| | B2 | | Blue | 485- | |
| | B3 | | Black | GND | Ground |
| Group C | C1 | Door Lock | Orange | NC | Lock Wiring (NC) |
| | C2 | | Green | СОМ | Common |
| | С3 | | Grey | NO | Lock Wiring (NO) |
| | C4 | | White | SENSOR | Door Contact (Sensor) |
| | C5 | | Purple | BTN | Exit Door Wiring |
| | C6 | | Black | GND | Ground |
| | C7 | | Black | GND | Ground |

Table 4-1 Terminal Descriptions

4.2 Wire Device

You can connect the terminal with peripherals.

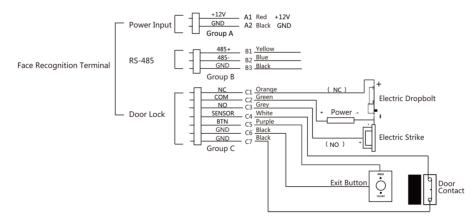


Figure 4-2 Device Wiring

iNote

The power input should be 12 VDC, 1.5 A, 18 W.

4.3 Wiring with Power Cable

Wire the device with power supply directly by using the supplied power cable if the device has no other peripherals to be wired.

The wiring diagram is shown below:

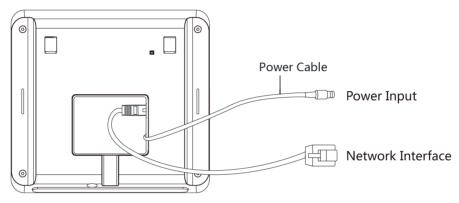


Figure 4-3 Wiring with Power Cable

Chapter 5 Activation

You should activate the device before the first login. After powering on the device, the system will switch to Device Activation page.

Activation via the device, SADP tool and the client software are supported.

The default values of the device are as follows:

- The default IP address: 192.0.0.64
- The default port No.: 8000
- The default user name: admin

5.1 Activate via Device

If the device is not activated, you can activate the device after it is powered on.

On the Activate Device page, create a password and confirm the password. Tap **Activate** and the device will activated.

| Activa | ate Device | |
|--|--|--|
| R admin | | |
| wo or more of the fol llowed: digit, letter, ar | lowing character types are nd symbol. | |
| A Input 8 to 16 | | |
| | | |
| 🔒 Confirm Pass | | |
| Act | ivate | |
| | | |

Figure 5-1 Activation Page

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

- After activation, you should select an application mode. For details, see Set Application Mode
- After activation, if you need to add the device to the client software or other platforms, you should edit the device IP address. For details, see *Communication Settings*.

5.2 Activate via SADP

SADP is a tool to detect, activate and modify the IP address of the device over the LAN.

Before You Start

- Get the SADP software from the supplied disk or the official website <u>http://</u> <u>www.hikvision.com/en/</u>, and install the SADP according to the prompts.
- The device and the PC that runs the SADP tool should be within the same subnet.

The following steps show how to activate a device and modify its IP address. For batch activation and IP addresses modification, refer to *User Manual of SADP* for details.

Steps

- 1. Run the SADP software and search the online devices.
- 2. Find and select your device in online device list.
- 3. Input new password (admin password) and confirm the password.

STRONG PASSWORD RECOMMENDED-We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Click Activate to start activation.

| SADP | | | | | | | | 0 _ 🗆 × |
|-----------|--------------------------|----------|--------------|-------|---------------------------------|--------|--------------------------|--|
| Total num | ber of online devices: 9 | | | | | | Export Refresh | Activate the Device |
| • ID | • Device Type | Security | IPv4 Address | Port | Software Version IPv4 Gateway | HTTP (| fort Device Serial No. | |
| 001 | EX0785351-2 | Active | 10.16.6.20 | 8000 | VI.3 Build 1998. 10.16.6.254 | 80 | Di 40810 2020406200 | |
| 002 | DS-KHENDLA | Active | 10.16.6.21 | 8000 | 10.16.6.254 | 80 | D5-104033-AULZIUMEROV | 9 |
| 003 | D5-428529-48 | Active | 10.16.6.213 | 8000 | VI.3. Build 1012 10.16.6.254 | N/A | D5-428028-420541207VE | |
| 004 | D5-15408-5425 | Active | 10.16.6.179 | 8000 | VL0.53build 180. 10.16.6.254 | N/A | Dis constitution and the | The device is not activated. |
| 005 | D5-13408-018945 | Active | 10.16.6.127 | 8000 | 10.16.6.254 | N/A | Distance Constitution | The device is not activated. |
| 005 | UNICHIN DEVICE THE | Active | 10.16.6.250 | 8000 | 10.16.6.254 | 80 | 2014112000054003400708 | |
| ✓ | 007 | 05-2CI | 2025790 | 4 | Inactive | | 192.0.0.64 | |
| 009 | DS-18538N-046/K2GW | Acti | lect in: | activ | e device. | 80 | 05-10089-04042000420 | You can modify the network parameters after the device activation. |
| | | 50 | icce in | activ | ie device. | | | Activate Now |
| | | | | | la an | | | New Password: |
| | | | | | Inpu | τa | nd confirm | Storg |
| | | | | | pass | wo | rd | Confirm Password: |
| | | | | | pass | •••0 | iu. | Enable Hik-Connect |
| | | | | | | | | |
| | | | | | | | | Activate |
| | | | | | | | | |

Status of the device becomes **Active** after successful activation.

- 5. Modify IP address of the device.
 - 1) Select the device.
 - 2) Change the device IP address to the same subnet as your computer by either modifying the IP address manually or checking **Enable DHCP**.
 - 3) Input the admin password and click **Modify** to activate your IP address modification.

5.3 Activate Device via Client Software

For some devices, you are required to create the password to activate them before they can be added to the software and work properly.

Steps

iNote

This function should be supported by the device.

- **1.** Enter the Device Management page.
- 2. Click on the right of **Device Management** and select **Device**.

3. Click Online Device to show the online device area.

The searched online devices are displayed in the list.

- 4. Check the device status (shown on Security Level column) and select an inactive device.
- 5. Click Activate to open the Activation dialog.
- 6. Create a password in the password field, and confirm the password.

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

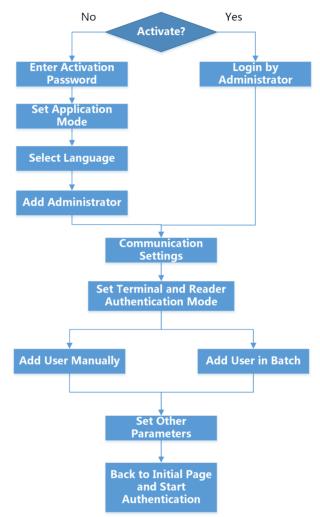
Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

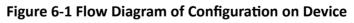
7. Click OK to activate the device.

Chapter 6 Basic Operation

6.1 Configuration Flow of Device

Follow the flow diagram below to configure on the device.





- For details about device activation, see Activation .
- For details about configuration of login by administrator, see Login by Administrator .
- For details about configuring application mode, see Set Application Mode .
- For details about adding administrator, see Add Administrator .
- For details about communication settings, see Communication Settings .
- For details about setting terminal and reader's authentication mode, see *Set Access Control Parameters* .

- For details about adding users manually, see Add Face Picture , Add Password , Add Card , and Set Authentication Mode .
- For details about importing persons in batch, see Import Data .
- For details about authentication, see Identity Authentication .

6.2 Set Application Mode

After activating the device, you should select an application mode for better device application.

Steps

1. On the Welcome page, select Indoor or Others from the drop-down list.

| Welcome | | |
|-------------------------|---|--|
| Select Application Mode | • | |
| Indoor | | |
| Others | | |
| | | |
| | | |

Figure 6-2 Welcome Page

2. Tap OK to save.

| | ٠ | |
|--------|--------|-------|
| | | NI-L- |
| | | Note |
| \sim | \sim | 11010 |

- You can also change the settings in System Settings.
- If you install the device indoors near the window or the face recognition function is not working well, select **Others**.
- If you do not configure the application mode and tap **Next**, the system will select **Indoor** by default.
- If you activate the device via other tools remotely, the system will select **Indoor** as the application mode by default.

6.3 Login

Login the device backend to set the device basic parameters. You should enter the device activation password for the first login. Or if you have add an administrator's face picture, you can login via the added face picture.

6.3.1 Login by Administrator

After you add the administrator for the device, only the administrator can login the device for device operation.

Steps

1. Long tap on the initial page for 3 s to enter the admin login page.

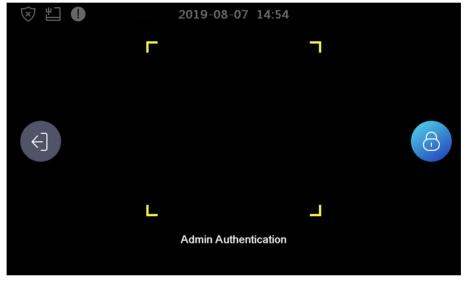


Figure 6-3 Admin Login

2. Authenticate the administrator's face, fingerprint, or card to enter the home page.



Figure 6-4 Home Page

iNote

The device will be locked for 30 minutes after 5 failed fingerprint or card attempts.

- **3. Optional:** Tap <a>[6] and you can enter the device activation password for login.
- 4. Optional: Tap 🔄 and you can exit the admin login page.

6.3.2 Login For First Time

You should login the system before other device operations.

Steps

- **1.** Long tap on the initial page for 3 s to enter password entering page.
- 2. Tap the Password field and enter the device activation password.
- **3.** Tap **OK** to enter the home page.

iNote

- The device will be locked for 30 minutes after 5 failed password attempts.
- For details about setting the administrator authentication mode, see Adding User.



Figure 6-5 Home Page

6.4 Communication Settings

You can set the network parameters, the Wi-Fi parameter, and the RS-485 parameters on the communication settings page.

6.4.1 Set Network Parameters

You can set the device network parameters, including the IP address, the subnet mask, and the gateway.

Steps

- **1.** Tap **Comm.** (Communication Settings) on the Home page to enter the Communication Settings page.
- 2. On the Communication Settings page, tap Network to enter the Network tab.

| \leftarrow | Communication Settings | \checkmark |
|--------------|------------------------|-----------------|
| Network | IP Address | 192.0.0.64 > |
| Wi-Fi | Subnet Mask | 255.255.255.0 > |
| RS-485 | Gateway | 192.0.0.1 > |
| | DHCP | |
| | | |
| | | |
| | | |

Figure 6-6 Network Settings

- **3.** Tap IP Address, Subnet Mask, or Gateway and input the parameters.
- 4. Tap OK to save the settings.

iNote

The device's IP address and the computer IP address should be in the same IP segment.

5. Tap v to save the network parameters.

6.4.2 Set Wi-Fi Parameters

You can enable the Wi-Fi function and set the Wi-Fi related parameters.

Steps

- **1.** Tap **Comm.** (Communication Settings) on the Home page to enter the Communication Settings page.
- 2. On the Communication Settings page, tap Wi-Fi to enter the Wi-Fi tab.

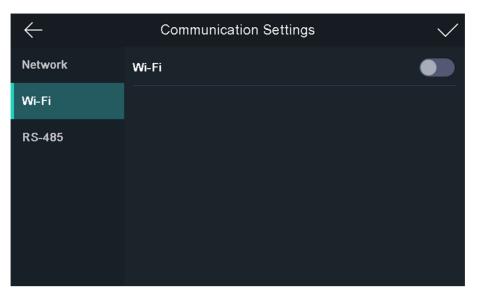


Figure 6-7 Wi-Fi Settings

- **3.** Enable the Wi-Fi function.
- 4. Select a Wi-Fi in the list to enter the Wi-Fi parameters settings page.
- 5. Select an IP mode.
 - If selecting **DHCP**, you should input the Wi-Fi password.
 - If selecting **Static**, you should input the Wi-Fi password, IP address, subnet mask and gateway.

iNote

Numbers, upper case letters, lower case letters, and special characters are allowed in the Wi-Fi password.

- 6. Tap OK to save the settings and go back to the Wi-Fi tab.
- **7.** Tap v to save the network parameters.

6.4.3 Set RS-485 Parameters

The face recognition terminal can connect external access controller, secure door control unit or card reader via the RS-485 terminal.

Steps

- **1.** Tap **Comm.** (Communication Settings) on the Home page to enter the Communication Settings page.
- 2. On the Communication Settings page, tap RS-485 to enter the RS-485 tab.

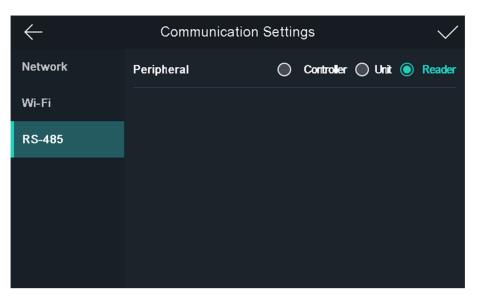


Figure 6-8 Set RS-485 Parameters

3. Select an peripheral type according to your actual needs.

iNote

- Controller represents the access controller, Unit represents the secure door control unit and Reader represents the card reader.
- If you select **Controller**: If connect the device to a terminal via the RS-485 interface, set the RS-485 address as 2. If you connect the device to a controller, set the RS-485 address according to the door No.
- 4. Tap v to save the network parameters.

iNote

If you change the external device, and after you save the device parameters, the device will reboot automatically.

6.5 Set Access Control Parameters

You can set the access control parameters, including terminal authentication mode, reader authentication mode, door contact, and door locked time.

On the Home page, tap **ACS** (Access Control Settings) to enter the Access Control Settings page. Edit the access control parameters on this page and tap v to save the settings.

| • | $\langle -$ | Access Control Settings | \checkmark |
|---|---------------------|-------------------------|--------------|
| | Terminal Auth. Mode | | Face > |
| | Reader Auth. Mode | | Card > |
| | Door Contact | Closed | Open |
| | Door Locked Time | | 5 s |
| | | | |
| | | | |

Figure 6-9 Access Control Parameters

The available parameters descriptions are as follows:

| Parameter | Description |
|--|---|
| Terminal Auth. Mode (Terminal Authentication Mode) | Select the face recognition terminal's authentication mode. You can also customize the authentication mode. |
| | i Note |
| | Only the device with the fingerprint module supports the fingerprint related function. Biometric recognition products are not 100% applicable to anti-spoofing environments. If you require a higher security level, use multiple authentication modes. If you adopt multiple authentication modes, you should authenticate other methods before authenticating face. By default, the device use Face to authenticate. |
| Reader Auth. Mode (Card Reader Authentication Mode) | Select the card reader's authentication mode. I Note By default, the device use Face to authenticate. |

| Parameter | Description |
|------------------|--|
| Door Contact | You can select "Open (Remain Open)" or "Close (Remian Closed)" according to your actual needs. By default, it is Close (Remian Closed). |
| Door Locked Time | Set the door unlocking duration. If the door is not opened for the set time, the door will be locked. Available door locked time range: 1 to 255s. |

6.6 User Management

On the user management interface, you can add, edit, delete and search the user.

6.6.1 Add Administrator

The administrator can login the device backend and configure the device parameters.

Steps

- **1.** Long tap on the initial page and log in the backend.
- **2.** Tap **User** \rightarrow + to enter the Add User page.
- **3.** Edit the employee ID.

iNote

- The employee ID should be less than 32 characters. And it can be a combination of lower letters, upper letters, and numbers.
- The employee ID should not be duplicated.
- 4. Tap the Name field and input the user name on the soft keyboard.

iNote

- Numbers, upper case letters, lower case letters, and special characters are allowed in the user name.
- Up to 32 characters are allowed in the user name.
- 5. Optional: Add a face picture, fingerprints, cards, or password for the administrator.

iNote

• For details about adding a face picture, see Add Face Picture .

iNote

For details about adding a fingerprint, see .

- For details about adding a card, see Add Card .
- For details about adding a password, see Add Password .
- 6. Optional: Set the administrator's authentication type.

i Note

For details about setting the authentication type, see Set Authentication Mode .

7. Enable the Administrator Permission function.

Enable Administrator Permission

The user is the administrator. Except for the normal attendance function, the user can also enter the Home page to operate after authenticating the permission.

8. Tap v to save the settings.

6.6.2 Add Face Picture

Add user's face picture to the device. And the user can use the face picture to authenticate.

Steps

iNote

Up to 300 face pictures can be added.

- 1. Long tap on the initial page and log in the backend.
- **2.** Tap **User** \rightarrow + to enter the Add User page.
- 3. Edit the employee ID.

iNote

- The employee ID should be less than 32 characters. And it can be a combination of lower letters, upper letters, and numbers.
- The employee ID should not be duplicated.
- 4. Tap the Name field and input the user name on the soft keyboard.

iNote

- Numbers, upper case letters, lower case letters, and special characters are allowed in the user name.
- Up to 32 characters are allowed in the user name.
- **5.** Tap the Face Picture field to enter the face picture adding page.

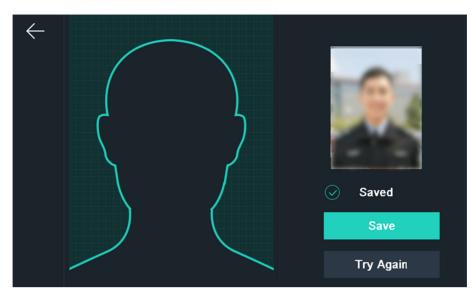


Figure 6-10 Add Face Picture

6. Position your face looking at the camera.

iNote

- Make sure your face picture is in the face picture outline when adding the face picture.
- Make sure the captured face picture is in good quality and is accurate.
- For details about the instructions of adding face pictures, see *Tips When Collecting/ Comparing Face Picture*.

After completely adding the face picture, a captured face picture will be displayed at the upper right corner of the page.

- 7. Tap Save to save the face picture.
- 8. Optional: Tap Try Again and adjust your face position to add the face picture again.

iNote

The maximum duration for adding a face picture is 15s. You can check the remaining time for adding a face picture on the left of the page.

9. Enable or disable the Administrator Permission function.

Enable Administrator Permission

The user is the administrator. Except for the normal attendance function, the user can also enter the Home page to operate after authenticating the permission.

Disable Administrator Permission

The User is the normal user. The user can only authenticate or take attendance on the initial page.

10. Tap v to save the settings.

6.6.3 Add Card

Add a card for the user and the user can authenticate via the added card.

Steps

iNote

Up to 1500 cards can be added.

- **1.** Long tap on the initial page and log in the backend.
- **2.** Tap **User** \rightarrow + to enter the Add User page.
- **3.** Connect an external card reader according to the wiring diagram.
- 4. Tap the Employee ID. field and edit the employee ID.

iNote

- The employee ID should be less than 32 characters. And it can be a combination of lower letters, upper letters, and numbers.
- The employee ID should not be duplicated.
- 5. Tap the Name field and input the user name on the soft keyboard.

iNote

- Numbers, upper case letters, lower case letters, and special characters are allowed in the user name.
- Up to 32 characters are allowed in the user name.
- 6. Tap the Card field and input the card No.
- 7. Configure the card No.
 - Enter the card No. manually.
 - Swipe the card over the card swiping area to get the card No.

iNote

- The card No. cannot be empty.
- Up to 20 characters are allowed in the card No.
- The card No. cannot be duplicated.

8. Optional: Enable the Duress Card function. The added card

When the user authenticates by swiping this duress card, the device will upload an duress card event to the client software.

9. Enable or disable the Administrator Permission function.

Enable Administrator Permission

The user is the administrator. Except for the normal attendance function, the user can also enter the Home page to operate after authenticating the permission.

Disable Administrator Permission

The User is the normal user. The user can only authenticate or take attendance on the initial page.

10. Tap v to save the settings.

6.6.4 Add Password

Add a password for the user and the user can authenticate via the password.

Steps

- **1.** Long tap on the initial page and log in the backend.
- **2.** Tap **User** \rightarrow + to enter the Add User page.
- 3. Tap the Employee ID. field and edit the employee ID.

iNote

- The employee ID should be less than 32 characters. And it can be a combination of lower letters, upper letters, and numbers.
- The employee ID should not be duplicated.
- **4.** Tap the Name field and input the user name on the soft keyboard.

iNote

- Numbers, upper case letters, lower case letters, and special characters are allowed in the user name.
- Up to 32 characters are allowed in the user name.
- 5. Tap the Password field and create a password and confirm the password.

iNote

- Only numbers are allowed in the password.
- Up to 8 characters are allowed in the password.
- 6. Enable or disable the Administrator Permission function.

Enable Administrator Permission

The user is the administrator. Except for the normal attendance function, the user can also enter the Home page to operate after authenticating the permission.

Disable Administrator Permission

The User is the normal user. The user can only authenticate or take attendance on the initial page.

7. Tap V to save the settings.

6.6.5 Set Authentication Mode

After adding the user's face picture, password, or other credentials, you should set the authentication mode and the user can authenticate his/her identity via the configured authentication mode.

Steps

- 1. Long tap on the initial page and log in the backend.
- 2. Tap User → Add User/Edit User → Authentication Mode .
- 3. Select Device or Custom as the authentication mode.

Device

If you want to select device mode, you should set the terminal authentication mode in Access Control Settings page first. For details see *Setting Access Control Parameters*.

Custom

You can combine different authentication modes together according to your actual needs.

4. Tap v to save the settings.

6.6.6 Search and Edit User

After adding the user, you can search the user and edit it.

Search User

On the User Management page, Tap 🔍 to enter the Search User page. Tap **Card** on the left of the page and select a search type from the drop-down list. Enter the employee ID, card No., or the user name for search. Tap 🔍 to search.

Edit User

On the User Management page, select a user from the user list to enter the Edit User page. Follow the steps in **User Management** to edit the user parameters. Tap \checkmark to save the settings.

iNote

The employee ID cannot be edited.

6.7 Import and Export Data

On the Transfer page, you can export the attendance data, the user data, and the user profile photo to the USB flash drive. You can also import the user data, and the user profile photo from the USB flash drive.

6.7.1 Export Data

Steps

1. Tap Transfer on the Home page to enter the Transfer page.



Figure 6-11 Transfer Page

- 2. On the Transfer page, tap Export Att. Data, Export User Data, Export User Profile Photo.
- **3.** Tap **Yes** on the pop-up page and the data will be exported from the device to the USB flash drive.

iNote

- The supported USB flash drive format is DB.
- The system supports the USB flash drive with the storage of 1G to 32G. Make sure the free space of the USB flash drive is more than 512M.
- The exported user data is a BIN file, which cannot be edited.

6.7.2 Import Data

Steps

- **1.** Plug a USB flash drive in the device.
- 2. On the Transfer page, tap Import User Data, Import User Profile Photo.
- **3.** Tap **Yes** on the pop-up window and the data will be imported from the USB flash drive to the device.
 - If you want to transfer all user information from one device (Device A) to another (Device B), you should export the information from Device A to the USB flash drive and then import from

the USB flash drive to Device B. In this case, you should import the user data before importing the profile photo.

- The supported USB flash drive format is FAT 32.
- The imported picture should be saved in the root directory (enroll_pic) and the picture file's name should be follow the rule below:
- Card No._Name_Department_Employee ID_Gender.jpg
- The employee ID should between 1 and 99999999, should not be duplicated, and should not start with 0.
- Requirements of face picture: It should be taken in full-face view, directly facing the camera. Do not wear a hat or head covering when taking the face picture. The format should be JPEG or JPG. The resolution should be 640 × 480 pixel or more than of 640 × 480 pixel. The picture size should be less than 2 M.

6.8 Identity Authentication

After network configuration, system parameters configuration and user configuration, you can go back to the initial page for identity authentication. The system will authenticate person according to the configured authentication mode.

You can authenticate identity via 1:N matching.

1:N Matching

Compare the captured face picture or with all face pictures stored in the device.

6.8.1 Authenticate via Face

If the authentication mode is Face, position the face looking at the camera to start face authentication.

If authentication completed, a prompt "Authenticated" will pop up.

6.8.2 Authenticate via Multiple Credentials

Steps

1. If the authentication mode is Face and Password, authenticate face first according to the prompt on the device screen.

iNote

For detailed information about authenticating face, see *Tips When Collecting/Comparing Face Picture*.

The device will compare the face with the face information in the device database (1:N Matching).

When authentication is completed, a prompt "Continue to authenticate" will pop up.

2. After face recognition completed, the device will pop up a password entering page. Enter the person's password.

iNote

The device will compare the captured face picture (gained from the last step) with the password (1:1 Matching).

When authentication is completed, a prompt "Authenticated" will pop up.

6.9 System Settings

On the System Settings page, you can set the system basic parameters, the face parameters, and upgrade the firmware.

6.9.1 Set Basic Parameters

You can set the voice prompt, voice volume, application mode, IR light brightness, white light brightness, and language.

| \leftarrow | System Settings | \checkmark |
|--------------|------------------------|----------------------|
| Basic | Voice Prompt | |
| Face Pic. | Voice Volume | 6 > |
| Maint. | Application Mode | Indoor Others |
| | White Light Brightness | 20 > |
| | Language | English $ ightarrow$ |
| | | |
| | | |

On the Home page, tap **System** (System Settings) to enter the System Settings page.

Figure 6-12 Basic Parameters

Table 6-2 Basic Parameters

| Parameter | Description | |
|--------------|---|--|
| Voice Prompt | Tap 💽 or 🂽 to disable or enable the voice prompt. | |
| Voice Volume | Adjust the voice volume. The larger the value, the louder the volume. | |

| Parameter | Description | |
|------------------------|---|--|
| Application Mode | You can select either others or indoor according to actual environment. | |
| IR Light Brightness | Set the IR light brightness when the IR light is enabled. | |
| White Light Brightness | Set the supplement white light's brightness. The brightness ranges from 0 to 100. | |
| | 0 refers to turning off the light. 1 refers to the darkest, and 100 refers to the brightest | |
| Language | Change the system language. | |
| | I Note After changing the system's language, the device will reboot. | |

6.9.2 Set Face Picture Parameters

You can set the face 1:N security level, recognition interval, liveness security level, and WDR level. On the Home page, tap **System** (System Settings) to enter the System Settings page.

| \leftarrow | System Settings | \checkmark |
|--------------|---|--------------|
| Basic | 1:N Security Level | 86 > |
| Face Pic. | Recognition Interval | 2 > |
| Maint. | Liveness Security Level 💿 Normal 🔿 High 🤇 |) Higher |
| | WDR Level | 0 > |
| | | |
| | | |

Figure 6-13 Face Picture Parameters

Table 6-3 Face Picture Parameters

| Parameter | Description |
|----------------------|--|
| 1:N Security Level | Set the matching threshold when authenticating via 1:N matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate. |
| Recognition Interval | Set the time interval between two continuous face recognitions when authenticating. |

| Parameter | Description | |
|-------------------------|---|--|
| | i Note | |
| | You can input the number from 1 to 10. | |
| Liveness Security Level | After enabling Live Face Detection function, you can set the matching security level when performing live face authentication. | |
| WDR Level | The device can auto enable the WDR function. The higher the level, the device can enter the WDR mode easier. | |
| | 0 represents WDR is disabled. | |
| | i Note | |
| | When there are both very bright and very dark areas simultaneously in the view, WDR balances the brightness level of the whole image and provide clear images with details. | |

6.9.3 Set Time

You can set the device time and the DST in this section.

Tap **Time** (Time Settings) on the Home page to enter the Time Settings page. Edit the time parameters and tap \checkmark to save the settings.

| \leftarrow | Time Settings | \checkmark |
|----------------|---------------|----------------------------|
| Time | | 2019.07.11 10:58 > |
| DST | | |
| Start Time | | Apr. Week 1 Sun. 02:00 $>$ |
| End Time | | Oct. Week 5 Sun. 02:00 $>$ |
| Bias Time(min) | | 30 (60) 90 (120) |
| | | |
| | | |

Figure 6-14 Time Parameters

6.10 Time and Attendance Status Settings

Set time and attendance status. You can set the attendance mode as check in, check out, break out, break in, overtime in, and over according to your actual situation.

iNote

The function should be used cooperatively with time and attendance function on the client software.

6.10.1 Set Manual Attendance via Device

Set the attendance mode as manual, and you can select a status manually when you take attendance.

Before You Start

Add at least one user, and set the user's authentication mode. For details, see User Management.

Steps

- 1. Tap T&A Status to enter the T&A Status page.
- 2. Set the Attendance Mode as Manual.

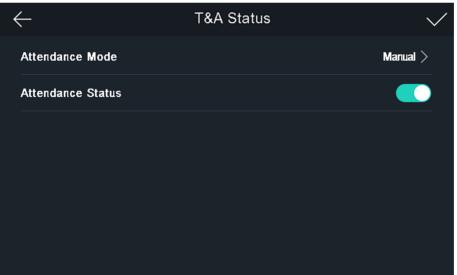


Figure 6-15 Manual Attendance Mode

3. Enable the Attendance Status function.

Result

You should select the attendance status manually after authentication.

iNote

If you do not select a status, the authentication will be failed and it will not be marked as a valid attendance.

6.10.2 Set Auto Attendance via Device

Set the attendance mode as auto, and you can set the attendance status and its available schedule. The system will automatically change the attendance status according to the configured parameters.

Before You Start

Add at least one user, and set the user's authentication mode. For details, see User Management.

Steps

- 1. Tap T&A Status to enter the T&A Status page.
- 2. Set the Attendance Mode as Auto.

| \leftarrow | T&A Status | \checkmark |
|-------------------|------------|--------------|
| Attendance Mode | | Auto > |
| Attendance Status | | |
| Check In | | > |
| Check Out | | > |
| Break Out | | > |
| Break In | | > |
| | | × |

Figure 6-16 Auto Attendance Mode

- 3. Select an attendance status and set its schedule.
 - 1) Select Check In, Check Out, Break Out, Break In, Overtime In, or Overtime Out as the attendance status.
 - 2) Tap Schedule.
 - 3) Select Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, or Sunday.
 - 4) Tap the select date and set the selected attendance status's start time.
 - 5) Tap Confirm.
 - 6) Repeat step 1 to 5 according to your actual needs.

iNote

The attendance status will be valid within the configured schedule.

4. Tap 🗸 .

Result

When you authenticate on the initial page, the authentication will be marked as the configured attendance status according to the configured schedule.

Example

If set the **Break Out Schedule** as Monday 11:00, and **Break In Schedule** as Monday 12:00, the valid user's authentication from Monday 11:00 to 12:00 will be marked as break.

6.10.3 Set Manual and Auto Attendance via Device

Set the attendance mode as **Manual and Auto**, and the system will automatically change the attendance status according to the configured parameters. At the same time you can manually change the attendance status after the authentication.

Before You Start

Add at least one user, and set the user's authentication mode. For details, see User Management.

Steps

- 1. Tap T&A Status to enter the T&A Status page.
- 2. Set the Attendance Mode as Manual and Auto.

| \leftarrow | T&A Status | \checkmark |
|-------------------|------------|------------------------------|
| Attendance Mode | | Manual and Auto $ ightarrow$ |
| Attendance Status | | |
| Check In | | > |
| Check Out | | > |
| Break Out | | > |
| Break In | | > |
| | | × |

Figure 6-17 Manual and Auto Mode

- 3. Select an attendance status and set its schedule.
 - 1) Select Check In, Check Out, Break Out, Break In, Overtime In, or Overtime Out as the attendance status.

- 2) Tap Schedule.
- 3) Select Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, or Sunday.
- 4) Tap the select date and set the selected attendance status's start time.
- 5) Tap Confirm.
- 6) Repeat step 1 to 5 according to your actual needs.



The attendance status will be valid within the configured schedule.

4. Tap 🗸 .

Result

On the initial page and authenticate. If you do not select a status, the authentication will be marked as the configured attendance status according to the schedule. If you tap **Select Status** and select a status to take attendance, the authentication will be marked as the selected attendance status.

Example

If set the **Break Out Schedule** as Monday 11:00, and **Break In Schedule** as Monday 12:00, the valid user's authentication from Monday 11:00 to 12:00 will be marked as break.

6.10.4 Disable Attendance Mode via Device

Disable the attendance mode and the system will not display the attendance status on the initial page.

Tap T&A Status to enter the T&A Status page.

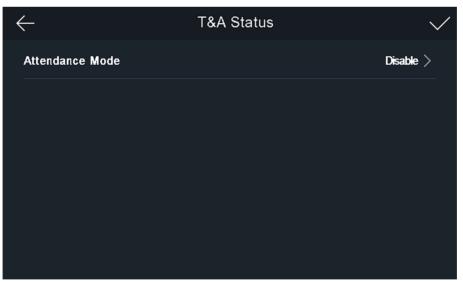


Figure 6-18 Disable Attendance Mode

Set the Attendance Mode as Disable. And tap 🔽 .

You will not view or configure the attendance status on the initial page. And the system will follow the attendance rule that configured on the platform.

6.11 Maintenance

6.11.1 Upgrade Firmware

Plug in the USB flash drive. Tap Maint. (Maintenance) on the System Settings page and tap **Upgrade**. The device will automatically read the upgrading file in the USB flash drive and upgrade the firmware.

∎Note

- Do not power off during the device upgrade.
- The upgrading file should be in the root directory.
- The upgrading file name should be digicap.dav.

| \leftarrow | System Settings | \checkmark |
|--------------|--|--------------|
| Basic | | |
| Face Pic. | Make sure the USB flash drive is plugged in. Tap OK to upgrade the firmware. | |
| Maint. | | 1 |
| | | |
| | ОК | |
| | | |
| | | |
| | | |

Figure 6-19 Upgrade

6.11.2 Data Management

On the Data Management page, you can delete user data, restore to factory settings, or restore to default settings.

Tap **Data** (Data Management) to enter the Data Management page. Tap the button on the page to manage the data. Tap **Yes** on the pop-up window to complete the settings.



Figure 6-20 Data Management

The available button descriptions are as follows:

Table 6-4 Data Descriptions

| Parameters | Description | |
|--------------------|--|--|
| Delete User Data | Delete all user data in the device. | |
| Restore to Factory | Restore the system to the factory settings. The device will reboot after the setting. | |
| Restore to Default | Restore the system to the default settings. The system will save the communication settings and the remote user settings. Other parameters will be restored to default. The device will reboot after the settings. | |

6.11.3 Log Query

You can search the authentication logs within a period of time by inputting employee ID, card No., or user name.

Steps

1. On the Home page, tap Log (Log) to enter the Log page.

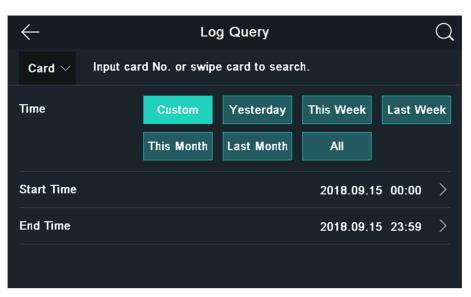


Figure 6-21 Log Query

- 2. Tap Card on the left of the page and select a search type from the drop-down list.
- 3. Tap the input box and input the employee ID, the card No., or the user name for search.
- 4. Select a time.

iNote

You can select from Custom, Yesterday, This Week, Last Week, This Month, Last Month, or All. If you select Custom, you can customize the start time and the end time for search.

5. Tap 💽 to start search.

The result will be displayed on the page.

6.12 View System Information

View the device capacity, the device information, the open source code license, and the device QR code.

View Capacity

You can view the added user's number, the face picture's number, the card's number, and the event number.

Tap Info. (System Information) \rightarrow Capacity on the Home page to enter the Capacity page.

| \leftarrow | System Information | | | |
|--------------|--------------------|------|------|---------------|
| Capacity | User: | 0 | | Used Total |
| Device | Used: | 0 | 0 | 5 |
| QR Code | Total: | 300 | 1500 | 150000 |
| | | | | |
| | | | | |
| | | | | |
| | | Face | Card | Event |

Figure 6-22 Capacity

View Device Information

You can view the device information.

Tap Info. (System Information) → Device to enter the Device page.

Open Source License

View the Open Source License information.

Tap Info. (System Information) → Open Source Code License to enter the Open Source Code License page.

| \leftarrow | System Information |
|--------------|--------------------------|
| Capacity | Device Model: |
| Device | Serial No.: |
| QR Code | MAC Address: |
| | Firmware: |
| | Production Date: |
| | Open Source Code License |

Figure 6-23 Device Information

View QR Code

You can add the device to the mobile client by scanning the device QR code.

Tap Info. (System Information) \rightarrow QR Code to enter the QR code page. And you can view the device QR code.



Figure 6-24 Device QR Code

Chapter 7 Client Software Configuration

7.1 Configuration Flow of Client Software

Follow the flow diagram below to configure on the client software.

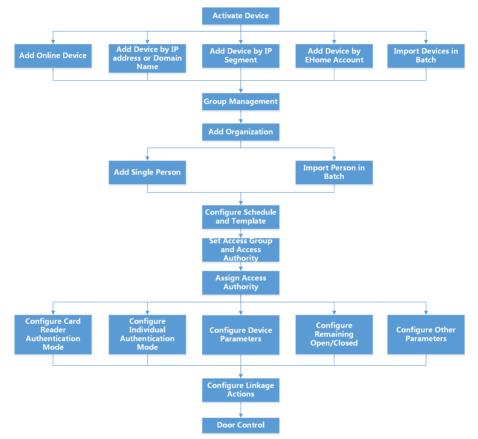


Figure 7-1 Flow Diagram of Configuration on Client Software

7.2 Device Management

You can manage devices on the client, including adding, editing, and deleting the devices. You can also perform operations such as checking device status.

7.2.1 Add Device

After running the client, devices including access control devices, video intercom devices, etc., should be added to the client for the remote configuration and management, such as controlling door status, attendance management, event settings, etc.

Add Online Device

The active online devices in the same local subnet with the client software will be displayed on the **Online Device** area.

iNote

- You can click **Refresh per 60s** to refresh the information of the online devices.
- SADP log function can be enabled or disabled by right-clicking **Online Device**.

Add Single Online Device

You can add single online device to the client software.

Steps

- 1. Enter the Device Management module.
- 2. Optional: Click on the right of Device Management and select Device.
- 3. Click Online Device to show the online device area.

The searched online devices are displayed in the list.

4. Select an online device from the **Online Device** area.

iNote

For the inactive device, you need to create the password for it before you can add the device properly. For detailed steps, refer to *Activation*.

- 5. Click Add to open the device adding window.
- **6.** Enter the required information.

Name

Enter a descriptive name for the device.

Address

The IP address of the device is obtained automatically in this adding mode.

Port

The port number is obtained automatically.

User Name

By default, the user name is admin.

Password

Enter the device password.

ACaution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

- **7. Optional:** Check **Synchronize Time** to synchronize the device time with the PC running the client after adding the device to the client.
- 8. Optional: Check Import to Group to create a group by the device name.



You can import all the channels of the device to the corresponding group by default.

9. Click OK to add the device.

Add Multiple Online Devices

You can add multiple online devices to the client software.

Steps

- 1. Enter the Device Management module.
- 2. Click on the right of Device Management and select Device.
- 3. Click Online Device to show the online device area.

The searched online devices are displayed in the list.

4. Select multiple devices.

iNote

For the inactive device, you need to create the password for it before you can add the device properly. For detailed steps, refer to *Activation*.

- 5. Click Add to open the device adding window.
- 6. Enter the required information.

User Name

By default, the user name is admin.

Password

Enter the device password.

ACaution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

- **7. Optional:** Check **Synchronize Time** to synchronize the device time with the PC running the client after adding the devices to the client.
- 8. Optional: Check Import to Group to create a group by the device name.



You can import all the channels of the device to the corresponding group by default.

9. Click OK to add the devices.

Add Device by IP Address or Domain Name

When you know the IP address or domain name of the device to add, you can add devices to the client by specifying the IP address (or domain name), user name, password, etc.

Steps

- 1. Enter Device Management module.
- **2.** Click **Device** tab on the top of the right panel.

The added devices are displayed on the right panel.

- 3. Click Add to open the Add window, and then select IP/Domain as the adding mode.
- 4. Enter the required information.

Name

Create a descriptive name for the device. For example, you can use a nickname that can show the location or feature of the device.

Address

The IP address or domain name of the device.

Port

The devices to add share the same port number. The default value is **8000**.

User Name

Enter the device user name. By default, the user name is *admin*.

Password

Enter the device password.

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

5. Optional: Check **Transmission Encryption (TLS)** to enable transmission encryption using TLS (Transport Layer Security) protocol for security purpose .

∎Note

- This function should be supported by the device.
- You can log into the device to get the certificate file by web browser.
- **6.** Check **Synchronize Time** to synchronize the device time with the PC running the client after adding the device to the client.
- 7. Optional: Check Import to Group to create a group by the device name.
- 8. Finish adding the device.
 - Click Add to add the device and back to the device list page.
 - Click Add and New to save the settings and continue to add other device.
- 9. Optional: Perform the following operation(s).

| Remote Configuration | Click 🎆 on Operation column to set remote configuration of the corresponding device. |
|----------------------------|---|
| | Note |
| | For detail operation steps for the remote configuration, see the user manual of the device. |
| Device Status | Click 📰 on Operation column to view device status, including cameras, recording status, signal status, hardware status, etc. |
| Edit Device Information | Click 📝 on Operation column to edit the device information, such as IP address, user name, and password. |
| Check Online User | Click 🖳 on Operation column to check the online users who access the device, such as user name, user type, user's IP address, and login time. |
| Refresh | Click 🚰 on Operation column to get the latest device information. |

Delete Device Select one or multiple devices and click **Delete** to delete the selected device(s) from the client.

Add Devices by IP Segment

If the devices share the same port No., user name and password, and their IP addresses are sharing an IP segment. You can specify the start IP address and the end IP address, port No., user name, password, etc of the devices to add them to the client.

Steps

- 1. Enter the Device Management module.
- **2.** Click **Device** tab on the top of the right panel.

The added devices are displayed on the right panel.

- 3. Click Add to open the Add window.
- 4. Select IP Segment as the adding mode.
- 5. Enter the required information.

Start IP

Enter a start IP address.

End IP

Enter an end IP address in the same network segment with the start IP.

Port

Enter the device port No. The default value is **8000**.

User Name

By default, the user name is *admin*.

Password

Enter the device password.

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

6. Optional: Check **Transmission Encryption (TLS)** to enable transmission encryption using TLS (Transport Layer Security) protocol for security purpose .

iNote

- This function should be supported by the device.
- You can log into the device to get the certificate file by web browser.
- **7.** Check **Synchronize Time** to synchronize the device time with the PC running the client after adding the device to the client.
- 8. Optional: Check Import to Group to create a group by the device name.
- 9. Finish adding the device.
 - Click Add to add the device and back to the device list page.
 - Click Add and New to save the settings and continue to add other device.
- **10. Optional:** Perform the following operation(s).

| Remote Configuration | Click 🞆 on Operation column to set remote configuration of the corresponding device. |
|----------------------------|---|
| | i Note |
| | For detail operation steps for the remote configuration, see the user manual of the device. |
| Device Status | Click 📰 on Operation column to view device status, including cameras, recording status, signal status, hardware status, etc. |
| Edit Device Information | Click 📝 on Operation column to edit the device information, such as IP address, user name, and password. |
| Check Online User | Click 🖳 on Operation column to check the online users who access the device, such as user name, user type, user's IP address, and login time. |
| Refresh | Click 层 on Operation column to get the latest device information. |
| Delete Device | Select one or multiple devices and click Delete to delete the selected device(s) from the client. |

Add Device by EHome Account

For areas where devices using dynamic IP addresses instead of static ones, you can add access control device connected via EHome protocol by specifying the EHome account.

Before You Start

Set the network center parameter first. For details, refer to Set Network Parameters .

Steps

i Note

- The devices added by EHome don't support getting face pictures from the device.
- For the devices added by EHome, it don't support getting persons from the device.
- The devices added by EHome don't support configure multiple NIC parameters and network parameters.
- 1. Enter Device Management module.
- Optional: Click on the right of Device Management and select Device.
 The added devices are displayed in the list.
- 3. Click Add to open the Add window.
- 4. Select EHome as the adding mode.
- 5. Enter the required information.

Device Account

Enter the account name registered on EHome protocol.

EHome Key

Enter the EHome key if you have set it when configuring network center parameter for the device.

iNote

This function should be supported by the device.

- **6. Optional:** Check **Synchronize Time** to synchronize the device time with the PC running the client after adding the device to the client.
- 7. Finish adding the device.
 - Click Add to add the device and back to the device list page.
 - Click Add and New to save the settings and continue to add other device.
- 8. Optional: Click 📰 on Operation column to view device status.

Import Devices in a Batch

The devices can be added to the software in a batch by entering the device information in the predefined CSV file.

Steps

- 1. Enter the Device Management page
- 2. Click Add to open the adding device window.
- 3. Select Batch Import as the adding mode.
- 4. Click Export Template and then save the pre-defined template (CSV file) on your PC.
- **5.** Open the exported template file and enter the required information of the devices to be added on the corresponding column.

Adding Mode

You can enter **0** or **1** which indicated different adding modes. **0** indicates that the device is added by IP address or domain name; **1** indicates that the device is added via EHome.

Address

Edit the address of the device. If you set **0** as the adding mode, you should enter the IP address or domain name of the device; if you set **1** as the adding mode, this filed is not required.

Port

Enter the device port No. The default value is 8000.

Device Information

If you set **0** as the adding mode, this field is not required. If you set **1** as the adding mode, enter the EHome account.

User Name

Enter the device user name. By default, the user name is admin.

Password

If you set **0** as the adding mode, enter the password. If you set **1** as the adding mode, enter the EHome key.

Caution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

Import to Group

You can enter **1** to create a group by the device name. All the channels of the device will be imported to the corresponding group by default. **0** indicates disabling this function.

- **6.** Click and select the template file.
- 7. Click Add to import the devices.

7.2.2 Reset Device Password

If you forgot the password of the detected online devices, you can reset the device password through the client.

Steps

- 1. Enter Device Management page.
- 2. Click Online Device to show the online device area.

All the online devices in the same subnet will display in the list.

- **3.** Select the device from the list and click **2** on the Operation column.
- 4. Click Export to save the device file on your PC and then send the file to our technical support.

iNote

For the following operations for resetting the password, contact our technical support.

ACaution

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

7.3 Group Management

The resources added should be organized into groups for convenient management, such as access points. You can do some further operations of the device through the groups.

7.3.1 Add Group

You can add group to organize the added device for convenient management.

Steps

- 1. Enter the Device Management module.
- 2. Click **Device Management** → **Group** to enter the group management page.
- 3. Create a group.
 - Click Add Group and enter a group name as you want.
 - Click **Create Group by Device Name** and select an added device to create a new group by the name of the selected device.

7.3.2 Import Resources to Group

You can import the device resources to the added group in a batch.

Before You Start

Add a group for managing devices. Refer to Add Group .

Steps

- 1. Enter the Device Management module.
- 2. Click **Device Management** → **Group** to enter the group management page.
- 3. Select a group from the group list and select the resource type such as Access Control Point.
- 4. Click Import.
- 5. Select the channel names from the To Be Imported area.
- 6. Click Import to import the selected resources to the group.

7.3.3 Edit Resource Parameters

After importing the resources to the group, you can edit the resource parameters. For access points, you can edit the resource name.

Before You Start

Import the resources to group. Refer to Import Resources to Group .

Steps

- **1.** Enter the Device Management module.
- Click Device Management → Group to enter the group management page.
 All the added groups are displayed on the left.
- **3.** Select a group on the group list and click a resource type. The resource channels imported to the group will display.
- **4.** Click **1** in the Operation column to open the Edit Camera window.
- **5.** Edit the required information.
- 6. Click OK to save the new settings.

7.3.4 Remove Resources from Group

You can remove the added resources from the group.

Steps

- **1.** Enter the Device Management module.
- Click Device Management → Group to enter the group management page.
 All the added groups are displayed on the left.
- **3.** Click a group to show the resources added to this group.
- **4.** Select the resource(s) and click **Delete** to remove the resource(s) from the group.

7.4 Person Management

You can add person information to the system for further operations such as access control, video intercom, time and attendance, etc. You can manage the added persons such as issuing cards to them in a batch, importing and exporting person information in a batch, etc.

7.4.1 Add Organization

You can add an organization and import person information to the organization for effective management of the persons. You can also add a surbodinate organization for the added one.

Steps

- 1. Enter Person module.
- **2.** Select a parent organization in the left column and click **Add** in the upper-left corner to add an organization.
- 3. Create a name for the added organization.

| i Note Up to 10 levels of organizations can be added. 4. Optional: Perform the following operation(s). | | |
|--|---|--|
| | | |
| Delete Organization | Hover the mouse on an added organization and click to delete it. | |
| | The lower-level organizations will be deleted as well if you delete an organization. Make sure there is no person added under the organization, or the organization cannot be deleted. | |

| Show Persons in | Check Show Persons in Sub Organization and select an organization to |
|------------------|--|
| Sub Organization | show persons in its sub organizations. |

7.4.2 Configure Basic Information

You can add person to the client software one by one and configure the person's basic information such as name, gender, phone number, etc.

Steps

- 1. Enter Person module.
- 2. Select an organization in the organization list to add the person.

3. Click Add to open the adding person window.

The Person ID will be generated automatically.

- 4. Enter the basic information including person name, gender, tel, email address, etc.
- **5. Optional:** Set the effective period of the person. Once expired, the credentials and access control settings of the person will be invalid and the person will have no authorization to access the doors\floors.

Example

For example, if the person is a visitor, his/her effective period may be short and temporary.

- 6. Confirm to add the person.
 - Click Add to add the person and close the Add Person window.
 - Click Add and New to add the person and continue to add other persons.

7.4.3 Issue a Card to One Person

When adding person, you can issue a card with a unique card number to the person as a credential. After issued, the person can access the doors which he/she is authorized to access by swiping the card on the card reader.

Steps

i Note

Up to five cards can be issued to one person.

- 1. Enter Person module.
- 2. Select an organization in the organization list to add the person and click Add.

iNote

Enter the person's basic information first. For details about configuring person's basic information, refer to *Configure Basic Information*.

- 3. In the Credential → Card panel, click +.
- 4. Enter the card number.
 - Enter the card number manually.
 - Place the card on the card enrollment station or card reader and click **Read** to get the card number. The card number will display in the Card No. field automatically.

iNote

You need to click **Settings** to set the card issuing mode and related parameters first. For details, refer to **Set Card Issuing Parameters**.

5. Select the card type according to actual needs.

Normal Card

The card is used for opening doors for normal usage.

Duress Card

When the person is under duress, he/she can swipe the duress card to open the door. The door will be unlocked and the client will receive a duress event to notify the security personnel.

Patrol Card

This card is used for the inspection staff to check the their attendance of inspection. By swiping the card on the specified card reader, the person is marked as on duty of inspection at that time.

Dismiss Card

By swiping the card on the card reader, it can stop the buzzing of the card reader.

6. Click Add.

The card will be issued to the person.

- 7. Confirm to add the person.
 - Click Add to add the person and close the Add Person window.
 - Click Add and New to add the person and continue to add other persons.

7.4.4 Upload a Face Photo from Local PC

When adding person, you can upload a face photo stored in local PC to the client as the person's profile.

Steps

- 1. Enter Person module.
- 2. Select an organization in the organization list to add the person and click Add.

iNote

Enter the person's basic information first. For details about configuring person's basic information, refer to *Configure Basic Information*.

- 3. Click Add Face in the Basic Information panel.
- 4. Select Upload.
- 5. Select a picture from the PC running the client.

iNote

The picture should be in JPG or JPEG format and smaller than 200 KB.

- **6. Optional:** Enable **Verify by Device** to check whether the facial recognition device managed in the client can recognize the face in the photo.
- 7. Confirm to add the person.
 - Click Add to add the person and close the Add Person window.
 - Click Add and New to add the person and continue to add other persons .

7.4.5 Take a Photo via Client

When adding person, you can take a photo of the person by the webcam of the PC running the client and set this photo as the person's profile.

Before You Start

Add at least one access control device checking whether the face in the photo can be recognized by the facial recognition device managed by the client.

Steps

- 1. Enter Person module.
- 2. Select an organization in the organization list to add the person and click Add.

iNote

Enter the person's basic information first. For details about configuring person's basic information, refer to **Configure Basic Information**.

- 3. Click Add Face in the Basic Information panel.
- 4. Select Take Photo.
- 5. Connect the face scanner to the PC running the client.
- **6. Optional:** Enable **Verify by Device** to check whether the facial recognition device managed in the client can recognize the face in the photo.
- 7. Take a photo.
 - 1) Face to the webcam of the PC and make sure your face is in the middle of the collecting window.
 - 2) Click on to capture a face photo.
 - 3) **Optional:** Click **S** to capture again.
 - 4) Click **OK** to save the captured photo.
- 8. Confirm to add the person.
 - Click Add to add the person and close the Add Person window.
 - Click Add and New to add the person and continue to add other persons.

7.4.6 Collect Face via Access Control Device

When adding person, you can collect the person's face via access control device added to the client which supports facial recognition function.

Steps

- 1. Enter Person module.
- 2. Select an organization in the organization list to add the person and click Add.

iNote

Enter the person's basic information first. For details about configuring person's basic information, refer to *Configure Basic Information*.

- 3. Click Add Face in the Basic Information panel.
- 4. Select Remote Collection.
- **5.** Select an access control device which supports face recognition function from the drop-down list.
- 6. Collect face.
 - 1) Face to the camera of the selected access control device and make sure your face is in the middle of the collecting window.
 - 2) Click on to capture a photo.
 - 3) Click **OK** to save the captured photo.
- **7.** Confirm to add the person.
 - Click Add to add the person and close the Add Person window.
 - Click Add and New to add the person and continue to add other persons .

7.4.7 Configure Access Control Information

When adding a person, you can set her/his access control properties, such as setting the person as visitor or as blacklist person, or as super user who has super authorization.

Steps

- 1. Enter Person module.
- 2. Select an organization in the organization list to add the person and click Add.

iNote

Enter the person's basic information first. For details about configuring person's basic information, refer to *Configure Basic Information*.

3. In the Access Control panel, set the person's access control properties.

PIN Code

The PIN code must be used after card or fingerprint when accessing. It cannot be used independently. It should contain 4 to 8 digits.

Super User

If the person is set as a super user, he/she will have authorization to access all the doors/ floors and will be exempted from remaining closed restrictions, all anti-passback rules, and first person authorization.

iNote

Once a person has been configured as a super user, all his/her fingerprints or cards turn to super fingerprints or super cards.

Extended Door Open Time

When the person accessing door, grant this person more time to pass through doors which have been configured with extended open duration. Use this function for the persons with reduced mobility.

For details about setting the door's open duration, refer to **Configure Parameters for Door/ Elevator**.

Add to Blacklist

Add the person to the blacklist and when the person tries to access doors/floors, an event will be triggered and send to the client to notify the security personnel.

Mark as Visitor

If the person is a visitor, set the maximum times of authentications, including access by card and fingerprint to limit the visitor's access times.

iNote

The maximum times of authentications should be between 1 and 100.

Device Operator

For person with device operator role, he/she is authorized to operate on the access control devices.

iNote

The Super User, Extended Door Open Time, Add to Blacklist, and Mark as Visitor functions cannot be enabled concurrently. For example, if one person is set as super user, you cannot enable extended door open time for her/him, add her/him to the blacklist, or set her/him as visitor.

- 4. Confirm to add the person.
 - Click Add to add the person and close the Add Person window.
 - Click Add and New to add the person and continue to add other persons.

7.4.8 Customize Person Information

You can customize the person properties which are not pre-defined in the client according to actual needs, e.g., place of birth. After customizing, when add a person, you can enter the custom information to make the person information complete.

Steps

- 1. Enter Person module.
- 2. Set the fields of custom information.
 - 1) Click Custom Property.
 - 2) Click Add to add a new property.
 - 3) Enter the property name.
 - 4) Click **OK**.
- **3.** Set the custom information when adding a person.
 - 1) Select an organization in the organization list to add the person and click Add.

Enter the person's basic information first. For details about configuring person's basic information, refer to *Configure Basic Information*.

- 2) In the **Custom Information** panel, enter the person information.
- 3) Click **Add** to add the person and close the Add Person window, or click **Add and New** to add the person and continue to add other persons.

7.4.9 Configure Resident Information

If the person is resident, for video intercom purpose, you need to set the room number for her/him and bind an indoor station. After bound, you can call this person by calling the indoor station and perform video intercom with her/him.

Steps

- 1. Enter Person module.
- 2. Select an organization in the organization list to add the person and click Add.

iNote

Enter the person's basic information first. For details about configuring person's basic information, refer to *Configure Basic Information*.

3. In the Resident Information panel, select the indoor station to bink it to the person.

iNote

If you select **Analog Indoor Station**, the **Door Station** field will display and you are required to select the door station to communicate with the analog indoor station.

- **4.** Enter the floor No. and room No. of the person.
- 5. Confirm to add the person.
 - Click Add to add the person and close the Add Person window.
 - Click Add and New to add the person and continue to add other persons.

7.4.10 Configure Additional Information

When adding person, you can configure the additional information for the person, such as person's identity type, identity No., country, etc., according to actual needs.

Steps

- 1. Enter Person module.
- 2. Select an organization in the organization list to add the person and click Add.

Enter the person's basic information first. For details about configuring person's basic information, refer to *Configure Basic Information*.

- **3.** In the **Additional Information** panel, enter the additional information of the person, including person's ID type, ID No., job title, etc., according to actual needs.
- 4. Confirm to add the person.
 - Click Add to add the person and close the Add Person window.
 - Click Add and New to add the person and continue to add other persons .

7.4.11 Import and Export Person Identify Information

You can import the information and pictures of multiple persons to the client software in a batch. Meanwhile, you can also export the person information and pictures and save them in your PC.

7.4.12 Import Person Information

You can enter the information of multiple persons in a predefined template (a CSV file) to import the information to the client in a batch.

Steps

- 1. Enter the Person module.
- 2. Select an added organization in the list, or click Add in the upper-left corner to add an organization and then select it.
- 3. Click Import to open the Import panel.
- 4. Select Person Information as the importing mode.
- 5. Click Download Template for Importing Person to download the template.
- 6. Enter the person information in the downloaded template.

iNote

- If the person has multiple cards, separate the card No. with semicolon.
- Items with asterisk are required.
- By default, the Hire Date is the current date.
- **7.** Click **w** to select the CSV file with person information.
- 8. Click Import to start importing.

iNote

- If a person No. already exists in the client's database, delete the existing information before importing.
- You can import information of no more than 10,000 persons.

7.4.13 Import Person Pictures

After importing face pictures for the added persons to the client, the persons in the pictures can be identified by an added face recognition terminal. You can either import person pictures one by one, or import multiple pictures at a time according to your need.

Before You Start

Be sure to have imported person information to the client beforehand.

Steps

- 1. Enter the Person module.
- **2.** Select an added organization in the list, or click **Add** in the upper-left corner to add an organization and then select it.
- 3. Click Import to open the Import panel and check Face.
- **4. Optional:** Enable **Verify by Device** to check whether face recognition device managed in the client can recognize the face in the photo.
- 5. Click in to select a face picture file.

iNote

- The (folder of) face pictures should be in ZIP format.
- Each picture file should be in JPG format and should be no larger than 200 KB.
- Each picture file should be named as "Person ID_Name". The Person ID should be the same with that of the imported person information.
- 6. Click Import to start importing.

The importing progress and result will be displayed.

7.4.14 Export Person Information

You can export the added persons' information to local PC as a CSV file.

Before You Start

Make sure you have added persons to an organization.

Steps

- 1. Enter the Person module.
- 2. Optional: Select an organization in the list.

iNote

All persons' information will be exported if you do not select any organization.

- 3. Click Export to open the Export panel and check Person Information as the content to export.
- 4. Check desired items to export.
- 5. Click Export to save the exported CSV file in your PC.

7.4.15 Export Person Pictures

You can export face picture file of the added persons and save in your PC.

Before You Start

Make sure you have added persons and their face pictures to an organization.

Steps

- **1.** Enter the Person module.
- 2. Optional: Select an organization in the list.

iNote

All persons' face pictures will be exported if you do not select any organization.

- 3. Click Export to open the Export panel and check Face as the content to export.
- 4. Click Export to start exporting.

iNote

- The exported file is in ZIP format.
- The exported face picture is named as "Person ID_Name_0" ("0" is for a full-frontal face).

7.4.16 Get Person Information from Access Control Device

If the added access control device has been configured with person information (including person details, fingerprint, and issued card information), you can get the person information from the device and import them to the client for further operations.

Steps

iNote

- If the person name stored in the device is empty, the person name will be filled with the issued card No. after importing to the client.
- The gender of the persons will be Male by default.
- If the card number or person ID (employee ID) stored on the device already exists in the client database, the person with this card number or person ID will not be imported to the client.
- 1. Enter Person module.
- 2. Select an organization to import the persons.
- 3. Click Get from Device.
- 4. Select the access control device from the drop-down list.
- 5. Click Get to start importing the person information to the client.

The person information, including person details, person's fingerprint information (if configured), and the linked cards (if configured), will be imported to the selected organization.

7.4.17 Move Persons to Another Organization

You can move the added persons to another organization if you need.

Before You Start

- Make sure you have added at least two organizations.
- Make sure you have imported person information.

Steps

- 1. Enter Person module.
- 2. Select an organization in the left panel.

The persons under the organization will be displayed in the right panel.

- **3.** Select the person to move.
- 4. Click Change Organization.
- 5. Select the organization to move persons to.
- 6. Click OK.

7.4.18 Issue Cards to Persons in Batch

The client provides a convenient way to issue cards to multiple persons in a batch.

Steps

- 1. Enter Person module.
- 2. Click Batch Issue Cards.

All the added persons with no card issued will display.

- 3. Set the card issuing parameters. For details, refer to Set Card Issuing Parameters .
- **4.** Click **Initialize** to initialize the card enrollment station or card reader to make it ready for issuing cards.
- **5.** Click the card number column and enter the card number.
 - Place the card on the card enrollment station.
 - Swipe the card on the card reader.
 - Enter the card number manually and press Enter key on your keyboard.

The card number will be read automatically and the card will be issued to the person in the list.

6. Repeat the above step to issue the cards to the persons in the list in sequence.

7.4.19 Report Card Loss

If the person lost his/her card, you can report the card loss so that the card's related access authorization will be inactive.

Steps

1. Enter Person module.

- 2. Select the person you want to report card loss for and click **Edit** to open the Edit Person window.
- 3. In the Credential → Card panel, click and on the added card to set this card as lost card. After reporting card loss, the access authorization of this card will be invalid and inactive. Other person who gets this card cannot access the doors by swiping this lost card.
- **4. Optional:** If the lost card is found, you can click **a** to cancel the loss. After cancelling card loss, the access authorization of the person will be valid and active.
- 5. If the lost card is added in one access group and the access group is applied to the device already, after reporting card loss or cancelling card loss, a window will pop up to notify you to apply the changes to the device. After applying to device, these changes can take effect on the device.

7.4.20 Set Card Issuing Parameters

The client provides two modes for reading a card's number: via card enrollment station or via the card reader of the access control device. If a card enrollment station is available, connect it to the PC running the client by USB interface or COM, and place the card on the card enrollment to read the card number. If not, you can also swipe the card on the card reader of the added access control device to get the card number. As a result, before issuing a card to one person, you need to set the card issuing parameters including the issuing mode and related parameters.

When adding a card to one person, click **Settings** to open the Card Issuing Settings window.

Local Mode: Issue Card by Card Enrollment Station

Connect a card enrollment station to the PC running the client. You can place the card on the card enrollment station to get the card number.

Card Enrollment Station

Select the model of the connected card enrollment station

iNote

Currently, the supported card enrollment station models include DS-K1F100-D8, DS-K1F100-M, DS-K1F100-D8E, and DS-K1F180-D8E.

Card Type

This field is only available when the model is DS-K1F100-D8E or DS-K1F180-D8E.

Select the card type as EM card or IC card according to the actual card type.

Serial Port

It is only available when the model is DS-K1F100-M.

Select the COM the card enrollment station connects to.

Buzzing

Enable or disable the buzzing when the card number is read successfully.

Card No. Type

Select the type of the card number according to actual needs.

M1 Card Encryption

This field is only available when the model is DS-K1F100-D8, DS-K1F100-D8E, or DS-K1F180-D8E.

If the card is M1 card, and if you need to enable the M1 Card Encryption function, you should enable this function and select the sector of the card to encrypt.

Remote Mode: Issue Card by Card Reader

Select an access control device added in the client and swipe the card on its card reader to read the card number.

7.5 Configure Schedule and Template

You can configure the template including holiday and week schedule. After setting the template, you can adopt the configured template to access groups when setting the access groups, so that the access group will take effect in the time durations of the template.

iNote

For access group settings, refer to Set Access Group to Assign Access Authorization to Persons .

7.5.1 Add Holiday

You can create holidays and set the days in the holidays, including start date, end date, and holiday duration in one day.

Steps

i Note

You can add up to 64 holidays in the software system.

- **1.** Click Access Control \rightarrow Schedule \rightarrow Holiday to enter the Holiday page.
- 2. Click Add on the left panel.
- **3.** Create a name for the holiday.
- 4. Optional: Enter the descriptions or some notifications of this holiday in the Remark box.
- 5. Add a holiday period to the holiday list and configure the holiday duration.

iNote

Up to 16 holiday periods can be added to one holiday.

- 1) Click Add in the Holiday List field.
- 2) Drag the cursor to draw the time duration, which means in that duration of time, the configured access group is activated.

Up to 8 time durations can be set to one holiday period.

- 3) **Optional:** Perform the following operations to edit the time durations.
 - Move the cursor to the time duration and drag the time duration on the timeline bar to the desired position when the cursor turns to market .
 - Click the time duration and directly edit the start/end time in the appeared dialog.
 - Move the cursor to the start or the end of time duration and drag to lengthen or shorten the time duration when the cursor turns to
- 4) **Optional:** Select the time duration(s) that need to be deleted, and then click in the Operation column to delete the selected time duration(s).
- 5) **Optional:** Click **m** in the Operation column to clear all the time duration(s) in the time bar.
- 6) **Optional:** Click in the Operation column to delete this added holiday period from the holiday list.
- 6. Click Save.

7.5.2 Add Template

Template includes week schedule and holiday. You can set week schedule and assign the time duration of access authorization for different person or group. You can also select the added holiday(s) for the template.

Steps

i Note

You can add up to 255 templates in the software system.

1. Click Access Control → Schedule → Template to enter the Template page.

iNote

There are two default templates: All-Day Authorized and All-Day Denied, and they cannot be edited or deleted.

All-Day Authorized

The access authorization is valid in each day of the week and it has no holiday.

All-Day Denied

The access authorization is invalid in each day of the week and it has no holiday.

- 2. Click Add on the left panel to create a new template.
- **3.** Create a name for the template.
- 4. Enter the descriptions or some notification of this template in the Remark box.
- 5. Edit the week schedule to apply it to the template.
 - 1) Click Week Schedule tab on the lower panel.
 - 2) Select a day of the week and draw time duration(s) on the timeline bar.

Up to 8 time duration(s) can be set for each day in the week schedule.

- 3) **Optional:** Perform the following operations to edit the time durations.
 - Move the cursor to the time duration and drag the time duration on the timeline bar to the desired position when the cursor turns to [79].
 - Click the time duration and directly edit the start/end time in the appeared dialog.
 - Move the cursor to the start or the end of time duration and drag to lengthen or shorten the time duration when the cursor turns to
- 4) Repeat the two steps above to draw more time durations on the other days of the week.
- 6. Add a holiday to apply it to the template.

iNote

Up to 4 holidays can be added to one template.

- 1) Click Holiday tab.
- 2) Select a holiday in the left list and it will be added to the selected list on the right panel.
- 3) **Optional:** Click **Add** to add a new holiday.

i Note

For details about adding a holiday, refer to Add Holiday .

- 4) **Optional:** Select a selected holiday in the right list and click to remove the selected one, or click **Clear** to clear all the selected holiday(s) in the right list.
- 7. Click Save to save the settings and finish adding the template.

7.6 Set Access Group to Assign Access Authorization to Persons

After adding the person and configuring the person's credentials, you can create the access groups to define which person(s) can get access to which door(s) and then apply the access group to the access control device to take effect.

Steps

- For one person, you can add up to 4 access groups to one access control point of one device.
- You can add up to 128 access groups in total.
- When the access group settings are changed, you need to apply the access groups to the devices again to take effect. The access group changes include changes of template, access group settings, person's access group settings, and related person details (including card number, fingerprint, face picture, linkage between card number and fingerprint, linkage between card number and fingerprint, card password, card effective period, etc).
- 1. Click Access Control → Access Group to enter the Access Group interface.
- 2. Click Add to open the Add window.
- 3. In the Name text field, create a name for the access group as you want.
- 4. Select a template for the access group.

You should configure the template before access group settings. Refer to *Configure Schedule and Template* for details.

- 5. In the left list of the Select Person field, select person(s) and the person(s) will be added to the selected list .
- 6. In the left list of the Select Door field, select door(s) or door station(s) for the selected persons to access, and the selected door(s) or door station(s) will be added to the selected list.
- 7. Click OK.
- **8.** After adding the access groups, you need to apply them to the access control device to take effect.
 - 1) Select the access group(s) to apply to the access control device.

To select multiple access groups, you can hold the **Ctrl** or **Shift** key and select access groups.

2) Click **Apply All to Devices** to start applying all the selected access group(s) to the access control device or door station.



- Be careful to click **Apply All to Devices**, since this operation will clear all the access groups of the selected devices and then apply the new access group, which may brings risk to the devices.
- You can click **Apply Changes to Devices** to only apply the changed part of the selected access group(s) to the device(s).
- 3) View the apply status in the Status column or click **Applying Status**to view all the applied access group(s).

The selected persons in the applied access groups will have the authorization to enter/exit the selected doors/door stations with their linked card(s) or fingerprints.

9. Optional: Click 🖉 to edit the access group if necessary.

7.7 Configure Advanced Functions

You can configure the advanced functions of access control to meet some special requirements in different scene, such as multi-factor authentication, anti-passback, etc.

iNote

- For the card related functions(the type of access control card/multi-factor authentication), only the card(s) with access group applied will be listed when adding cards.
- The advanced functions should be supported by the device.
- Hover the cursor on the Advanced Function, and then Click at to customize the advanced function(s) to be displayed.

7.7.1 Configure Device Parameters

After adding the access control device, you can configure the parameters of access control device, access control points.

Configure Parameters for Access Control Device

After adding the access control device, you can configure its parameters.

Steps

1. Click Access Control → Advanced Function → Device Parameter .

iNote

If you cannot find Device Parameter in the Advanced Function list, Hover the cursor on the Advanced Function, and then Click is to select the Device Parameter to be displayed.

- 2. Select an access device to show its parameters on the right page.
- **3.** Turn the switch to ON to enable the corresponding functions.

iNote

- The displayed parameters may vary for different access control devices.
- Some of the following parameters are not listed in the Basic Information page, click **More** to edit the parameters.

Voice Prompt

If you enable this function, the voice prompt is enabled in the device. You can hear the voice prompt when operating in the device.

Upload Pic. After Linked Capture

Upload the pictures captured by linked camera to the system automatically.

Save Pic. After Linked Capture

If you enable this function, you can save the picture captured by linked camera to the device.

Enable NFC Card

If enable the function, the device can recognize the NFC card. You can present NFC card on the device.

Enable M1 Card

If enable the function, the device can recognize the M1 card. You can present M1 card on the device.

Enable EM Card

If enable the function, the device can recognize the EM card. You can present EM card on the device.

Enable CPU Card

If enable the function, the device can recognize the CPU card. You can present CPU card on the device.

Enable ID Card

If enable the function, the device can recognize the ID card. You can present ID card on the device.

- 4. Click OK.
- **5. Optional:** Click **Copy to**, and then select the access control device(s) to copy the parameters in the page to the selected device(s).

Configure Parameters for Door/Elevator

After adding the access control device, you can configure its access point (door) parameters.

Steps

- 1. Click Access Control → Advanced Function → Device Parameter .
- 2. Select an access control device on the left panel, and then click to show the doors or floors of the selected device.
- **3.** Select a door or floor to show its parameters on the right page.
- **4.** Edit the door or floor parameters.

iNote

- The displayed parameters may vary for different access control devices.
- Some of the following parameters are not listed in the Basic Information page, click **More** to edit the parameters.

Name

Edit the card reader name as desired.

Door Contact

You can set the door sensor as remaining closed or remaining open. Usually, it is remaining closed.

Exit Button Type

You can set the exit button as remaining closed or remaining open. Usually, it is remaining open.

Door Locked Time

After swiping the normal card and relay action, the timer for locking the door starts working.

Extended Open Duration

The door contact can be enabled with appropriate delay after person with extended accesss needs swipes her/his card.

Door Left Open Timeout Alarm

The alarm can be triggered if the door has not been closed in a configured time period. If it is set as 0, no alarm will be triggered.

Duress Code

The door can open by inputting the duress code when there is duress. At the same time, the client can report the duress event.

Super Password

The specific person can open the door by inputting the super password.

iNote

- The duress code and the super code should be different.
- The duress code and the super password should be different from the authentication password.
- The length of duress code and the super password is according the device, usually it should contains 4 to 8 digits.

5. Click OK.

6. Optional: Click Copy to , and then select the door to copy the parameters in the page to the selected doors.

iNote

The door's status duration settings will be copied to the selected door(s) as well.

Configure Parameters for Card Reader

After adding the access control device, you can configure its card reader parameters.

Steps

- 1. Click Access Control → Advanced Function → Device Parameter .
- 2. In the device list on the left, click to expand the door, select a card reader and you can edit the card reader's parameters on the right.
- **3.** Edit the card reader basic parameters in the Basic Information page.

iNote

- The displayed parameters may vary for different access control devices. There are part of parameters listed as follows. Refer to the user manual of the device for more details.
- Some of the following parameters are not listed in the Basic Information page, click **More** to edit the parameters.

Name

Edit the card reader name as desired.

OK LED Polarity/Error LED Polarity/Buzzer Polarity

Set OK LED Polarity/Error LED Polarity/Buzzer LED Polarity of main board according to the card reader parameters. Generally, adopts the default settings.

Minimum Card Swiping Interval

If the interval between card swiping of the same card is less than the set value, the card swiping is invalid. You can set it as 0 to 255.

Max. Interval When Entering PWD

When you inputting the password on the card reader, if the interval between pressing two digits is larger than the set value, the digits you pressed before will be cleared automatically.

Alarm of Max. Failed Attempts

Enable to report alarm when the card reading attempts reach the set value.

Max. Times of Card Failure

Set the max. failure attempts of reading card.

Tampering Detection

Enable the anti-tamper detection for the card reader.

Card Reader Type/Card Reader Description

Get card reader type and description. They are read-only.

Face 1:N Matching Threshold

Set the matching threshold when authenticating via 1:N matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate when authentication.

Face Recognition Interval

The time interval between two continuous face recognitions when authenticating. By default, it is 2s.

Live Face Detection

Enable or disable the live face detection function. If enabling the function, the device can recognize whether the person is a live one or not.

Face 1:1 Matching Threshold

Set the matching threshold when authenticating via 1:1 matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate when authentication.

Application Mode

You can select indoor or others application modes according to actual environment.

Lock Authentication Failed Face

After enabling the Live Face Detection function, the system will lock the user's face for 5 minutes if the live face detection is failed for more than the configured attempts. The same user cannot authenticate via the fake face within 5 minutes. Within the 5 minutes, the user can authenticate via the real face twice continuously to unlock.

Live Face Detection Security Level

After enabling Live Face Detection function, you can set the matching security level when performing live face authentication.

Max. Failed Attempts for Face Auth.

Set the maximum live face detection failed attempts. The system will lock the user's face for 5 minutes if the live face detection is failed for more than the configured attempts. The same user cannot authenticate via the fake face within 5 minutes. Within the 5 minutes, the user can authenticate via the real face twice continuously to unlock.

- 4. Click OK.
- **5. Optional:** Click **Copy to**, and then select the card reader(s) to copy the parameters in the page to the selected card reader(s).

7.7.2 Configure Remaining Open/Closed

You can set the status of the door as open or closed. For example, you can set the door remaining closed in the holiday, and set the door remaining open in the specified period of the work day.

Before You Start

Add the access control devices to the system.

Steps

- Click Access Control → Advanced Function → Remain Open/Closed to enter the Remain Open/ Closed page.
- 2. Select the door that need to be configured on the left panel.
- **3.** To set the door status during the work day, click the **Week Schedule** and perform the following operations.
 - 1) Click Remain Open or Remain Closed.
 - 2) Drag the cursor to draw the time duration, which means in that duration of time, the configured access group is activated.

iNote

Up to 8 time durations can be set to each day in the week schedule.

- 3) **Optional:** Perform the following operations to edit the time durations.

 - Click the time duration and directly edit the start/end time in the appeared dialog.
 - Move the cursor to the start or the end of time duration and drag to lengthen or shorten the time duration when the cursor turns to

4) Click Save.

Related Operations

Copy to WholeSelect one duration on the time bar, click Copy to Whole Week to copyWeekall the duration settings on this time bar to other week days.

Delete Selected Select one duration on the time bar, click **Delete Selected** to delete this duration.

Click **Clear** to clear all the duration settings in the week schedule.

- **4.** To set the door status during the holiday, click the **Holiday** and perform the following operations.
 - 1) Click Remain Open or Remain Closed.
 - 2) Click Add.

Clear

- 3) Enter the start date and end date.
- 4) Drag the cursor to draw the time duration, which means in that duration of time, the configured access group is activated.

iNote

Up to 8 time durations can be set to one holiday period.

- 5) Perform the following operations to edit the time durations.
 - Move the cursor to the time duration and drag the time duration on the timeline bar to the desired position when the cursor turns to M.
 - Click the time duration and directly edit the start/end time in the appeared dialog.
 - Move the cursor to the start or the end of time duration and drag to lengthen or shorten the time duration when the cursor turns to
- 6) **Optional:** Select the time duration(s) that need to be deleted, and then click in the Operation column to delete the selected time duration(s).
- 7) **Optional:** Click in the Operation column to clear all the time duration(s) in the time bar.
- 8) **Optional:** Click in the Operation column to delete this added holiday period from the holiday list.
- 9) Click Save.
- 5. Optional: Click Copy to to copy the door status settings of this door to other door(s).

7.7.3 Configure Multi-Factor Authentication

You can manage the persons by group and set the authentication for multiple persons of one access control point (door).

Before You Start

Set access group and apply the access group to the access control device. For details, refer to **Set Access Group to Assign Access Authorization to Persons**.

Perform this task when you want to set authentications for multiple cards of one access control point (door).

Steps

- **1.** Click Access Control \rightarrow Advanced Function \rightarrow Multi-Factor Auth .
- 2. Select an access control device in device list on the left panel.
- **3.** Add a person/card group for the access control device.
 - 1) Click Add on the right panel.

- 2) Create a name for the group as desired.
- 3) Specify the start time and end time of the effective period for the person/card group.
- 4) Select members(s) and card(s) in the Available list, and the selected member(s) and card(s) will be added to the Selected list.

Make sure you have issue card to the person.

Make sure you have set access group and apply the access group to the access control device successfully.

- 5) Click Save.
- 6) **Optional:** Select the person/card group(s), and then click **Delete** to delete it(them).
- 7) **Optional:** Select the person/card group(s), and then click **Apply** to re-apply access group that failed to be applied previously to the access control device.
- 4. Select an access control point (door) of selected device on the left panel.
- 5. Enter the maximum interval when entering password.
- 6. Add an authentication group for the selected access control point.
 - 1) Click Add on the Authentication Groups panel.
 - 2) Select a configured template as the authentication template from the drop-down list.

iNote

For setting the template, refer to Configure Schedule and Template .

3) Select the authentication type as Local Authentication, Local Authentication and Remotely Open Door, or Local Authentication and Super Password from the drop-down list.

Local Authentication

Authentication by the access control device.

Local Authentication and Remotely Open Door

Authentication by the access control device and by the client. When the person swipes the card on the device, a window will pop up. You can unlock the door via the client.

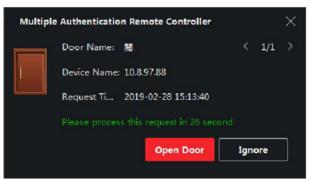


Figure 7-2 Remotely Open Door

You can check **Offline Authentication** to enable the super password authentication when the access control device is disconnected with the client.

Local Authentication and Super Password

Authentication by the access control device and by the super password.

- 4) Select the added person/card group in the left list below and it will be added to the Selected list on the right as the authentication group.
- 5) Click the added authentication group in the right list to set authentication times in the Auth Times column.

iNote

- The authentication times should be larger than 0 and smaller than the added personnel quantity in the personnel group.
- The maximum value of authentication times is 16.

6) Click Save.

iNote

- For each access control point (door), up to four authentication groups can be added.
- For the authentication group of which authentication type is **Local Authentication**, up to 8 person/card groups can be added to the authentication group.
- For the authentication group of which authentication type is Local Authentication and Super Password or Local Authentication and Remotely Open Door, up to 7 person/card groups can be added to the authentication group.
- 7. Click Save.

7.7.4 Configure Custom Wiegand Rule

Based on the knowledge of uploading rule for the third party Wiegand, you can set multiple customized Wiegand rules to communicate between the device and the third party card readers.

Before You Start

Wire the third party card readers to the device.

Steps

iNote

- By default, the device disables the custom wiegand function. If the device enables the custom Wiegand function, all wiegand interfaces in the device will use the customized wiegand protocol.
- Up to 5 custom Wiegands can be set.
- For details about the custom Wiegand, see Custom Wiegand Rule Descriptions.

- Click Access Control → Advanced Function → Custom Wiegand to enter the Custom Wiegand page.
- 2. Select a custom Wiegand on the left.
- **3.** Create a Wiegand name.

Up to 32 characters are allowed in the custom Wiegand name.

- 4. Click Select Device to select the access control device for setting the custom wiegand.
- 5. Set the parity mode according to the property of the third party card reader.

iNote

- Up to 80 bits are allowed in the total length.
- The odd parity start bit, the odd parity length, the even parity start bit and the even parity length range from 1 to 80 bit.
- The start bit of the card ID, the manufacturer code, the site code, and the OEM should range from 1 to 80 bit.
- 6. Set output transformation rule.
 - 1) Click Set Rule to open the Set Output Transformation Rules window.

| Output Rule | | × |
|----------------------------|------------------------------|---------|
| Select the output rule and | drag to change the sequence. | |
| Available | Selected | 茴 Clear |
| Card ID | | |
| Manufacturer Code | | |
| 🗌 Site Code | | |
| 🗌 ОЕМ | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| OK Cancel | | |

Figure 7-3 Set Output Transformation Rule

2) Select rules on the left list.

The selected rules will be added to the right list.

- 3) **Optional:** Drag the rules to change the rule order.
- 4) Click **OK**.

5) In the Custom Wiegand tab, set the rule's start bit, length, and the decimal digit.

7. Click Save.

7.7.5 Configure Card Reader Authentication Mode and Schedule

You can set the passing rules for the card reader of the access control device according to your actual needs.

Steps

- Click Access Control → Advanced Function → Authentication to enter the authentication mode configuration page.
- **2.** Select a card reader on the left to configure.
- **3.** Set card reader authentication mode.
 - 1) Click Configuration.

| Card Reader Authentication | | X |
|--|---------------------------|---------|
| Select the authentication mode that the ca | rd reader should support. | |
| Avaliable Mode | Selected Mode | 莭 Clear |
| 🗹 Card | Card | × |
| 🗹 Card + PIN | Card + PIN | × |
| Card / PIN | Fingerprint | × |
| Fingerprint | Fingerprint + Card | × |
| Fingerprint + PIN | Face | × |
| Fingerprint / Card | Face + Card | × |
| Fingerprint + Card | Face + Fingerprint + Card | × |
| Fingerprint + Card + PIN | | |
| Face / Fingerprint / Card / PIN | | |
| 🗌 Face + Fingerprint | | |
| Face + PIN | | |
| 🗹 Face + Card | | |
| ✓ Face | | |
| OK Cancel | | |
| Cancer | | |

Figure 7-4 Select Card Reader Authentication Mode

PIN refers to the PIN code set to open the door. Refer to **Configure Access Control** Information .

- 2) Check the modes in the Available Mode list and they will be added to the selected modes list.
- 3) Click **OK**.

After selecting the modes, the selected modes will display as icons with different color.

- **4.** Click the icon to select a card reader authentication mode, and drag the cursor to draw a color bar on the schedule, which means in that period of time, the card reader authentication is valid.
- 5. Repeat the above step to set other time periods.

| | | | | Card F | Reader | Authe | entica | tion | | | | | | | | | | Copy to |
|---|----------------|---|------------------|--------|----------|-------|--------|------|---------|---|--------|------|----------|----------|----|----|----|---------|
| 2 | | | | | Authenti | | Mode | | | | | | | | | | | |
| ₿ | | | Entrance Card Re | | Card | | | Carc | I + PIN | | | | F | P + Caro | | | | |
| | | | | | Face | | | Face | + Card | | Face + | FP + | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | • | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| | | | | | | • | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| | | | | | | • | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| | Authentication | | | | | • | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| | | | | | | • | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| | | | | | | • | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| | | | | | | • | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | Video Intercom | • | | | Sa | ve | | | | | | | | | | | | |

Figure 7-5 Set Authentication Modes for Card Readers

- 6. Optional: Select a configured day and click Copy to Week to copy the same settings to the whole week.
- 7. Optional: Click Copy to to copy the settings to other card readers.
- 8. Click Save.

7.7.6 Configure First Person In

You can set multiple first persons for one access control point. After the first person is authorized, it allows multiple persons access the door or other authentication actions.

Before You Start

Set the access group and apply the access group to the access control device. For details, refer to *Set Access Group to Assign Access Authorization to Persons*.

Perform this task when you want to configure opening door with first person.

Steps

- 1. Click Access Control → Advanced Function → First Person In to enter the First Person In page.
- 2. Select an access control device in the list on the left panel.

3. Select the current mode as Enable Remaining Open after First Person or Disable Remaining Open after First Person from the drop-down list for each access control point of the selected device.

Enable Remaining Open after First Person

The door remains open for the configured time duration after the first person is authorized until the remain open duration ends. If you select this mode, you should set the remain open duration.

iNote

The remain open duration should be between 0 and 1440 minutes. By default, the remain open duration is 10 minutes.

Disable Remaining Open after First Person

Disable the function of first person in, namely normal authentication.

iNote

You can authenticate by the first person again to disable the first person mode.

- 4. Click Add on the First Person List panel.
- 5. Select person(s) in the left list and the person(s) will be add to the selected persons as the first person(s) of the doors.

The added first person(s) will list in the First Person List

- **6. Optional:** Select a first person from the list and click **Delete** to remove the person from the first person list.
- 7. Click Save.

7.7.7 Configure Anti-Passback

You can set to only pass the access control point according to the specified path and only one person could pass the access control point after swiping the card.

Before You Start

Enable the anti-passing back function of the access control device.

Perform this task when you want to configure the anti-passing back for the access control device.

Steps

iNote

Either the anti-passing back or multi-door interlocking function can be configured for an access control device at the same time. For the configuration of multi-door interlocking, refer to .

- Click Access Control → Advanced Function → Anti-Passback to enter the Anti-Passpack Settings page.
- 2. Select an access control device on the left panel.

- **3.** Select a card reader as the beginning of the path in the **First Card Reader** field.
- **4.** Click of the selected first card reader in the **Card Reader Afterward** column to open the select card reader dialog.
- 5. Select the afterward card readers for the first card reader.

Up to four afterward card readers can be added as afterward card readers for one card reader.

- 6. Click OK in the dialog to save the selections.
- 7. Click Save in the Anti-Passback Settings page to save the settings and take effect.

Example

Set Card Swiping Path

If you select Reader In_01 as the beginning, and select Reader In_02, Reader Out_04 as the linked card readers. Then you can only get through the access control point by swiping the card in the order as Reader In_01, Reader In_02 and Reader Out_04.

7.7.8 Configure Device Parameters

After adding the access control device, you can set its parameters such as network parameters.

Set Multiple NIC Parameters

If the device supports multiple network interfaces, you can set the network parameters of these NICs via the client, such as IP address, MAC address, port number, etc.

Steps

i Note

This function should be supported by the device.

- 1. Enter the Access Control module.
- 2. On the navigation bar on the left, enter Advanced Function \rightarrow More Parameters .
- **3.** Select an access control device in the device list and click **NIC** to enter Multiple NIC Settings page.
- 4. Select an NIC you want to configure from the drop-down list.
- 5. Set its network parameters such as IP address, default gateway, subnet mask, etc.

MAC Address

A media access control address (MAC address) is a unique identifier assigned to the network interface for communications on the physical network segment.

MTU

The maximum transmission unit (MTU) of the network interface.

6. Click Save.

Set Network Parameters

After adding the access control device, you can set the device log uploading mode, and create EHome account via wired network.

Set Log Uploading Mode

You can set the mode for the device to upload logs via EHome protocol.

Steps

i Note

Make sure the device is not added by EHome.

- 1. Enter the Access Control module.
- 2. On the navigation bar on the left, enter Advanced Function \rightarrow More Parameters .
- **3.** Select an access control device in the device list and enter Network \rightarrow Uploading Mode .
- 4. Select the center group from the drop-down list.
- 5. Check Enable to enable to set the uploading mode.
- 6. Select the uploading mode from the drop-down list.
 - Enable N1 or G1 for the main channel and the backup channel.
 - Select Close to disable the main channel or the backup channel

i Note

The main channel and the backup channel cannot enable N1 or G1 at the same time.

7. Click Save.

Create EHome Account in Wired Communication Mode

You can set the account for EHome protocol in wired communication mode. Then you can add devices via EHome protocol.

Steps

iNote

- This function should be supported by the device.
- Make sure the device is not added by EHome.
- 1. Enter the Access Control module.
- 2. On the navigation bar on the left, enter Advanced Function \rightarrow More Parameters .
- 3. Select an access control device in the device list and enter Network \rightarrow Network Center .
- 4. Select the center group from the drop-down list.
- 5. Select the Address Type as IP Address or Domain Name.

- 6. Enter IP address or domain name according to the address type.
- **7.** Enter the port number for the protocol.

The port number of the wireless network and wired network should be consistent with the port number of EHome.

- 8. Select the Protocol Type as EHome.
- 9. Set an account name for the network center.
- 10. Click Save.

Set Device Capture Parameters

You can configure the capture parameters of the access control device, including manual capture and event triggered capture.

iNote

- The capture function should be supported by the device.
- Before setting the capture parameters, you should set the picture storage first to define where the event triggered pictures are saved. For details, refer to *Set Picture Storage* in the user manual of the client software.

Set Triggered Capture Parameters

When an event occurs, the camera of the access control device can be triggered to capture picture(s) to record what happens when the event occurs. You can view the captured pictures when checking the event details in Event Center. Before that, you need to set the parameters for the capture such as number of pictures captured for one time.

Before You Start

Before setting the capture parameters, you should set the picture storage first to define where the captured pictures are saved. For details, refer to *Set Picture Storage* in the user manual of the client software.

Steps

iNote

This function should be supported by the device

- 1. Enter the Access Control module.
- **2.** On the navigation bar on the left, enter **Advanced Function** \rightarrow **More Parameters** \rightarrow **Capture**.
- 3. Select an access control device in the device list and select Linked Capture.
- 4. Set the picture size and quality.

- **5.** Set the capture times once triggered which defines how many pictures will be captures for one time.
- 6. If the capture times is more than 1, set the interval for each capture.
- 7. Click Save.

Set Manual Capture Parameters

In Status Monitoring module, you can capture a picture manually the access control device's camera by clicking a button. Before that, you need to set the parameters for the capture such as picture quality.

Before You Start

Before setting the capture parameters, you should set the saving path first to define where the captured pictures are saved. For details, refer to *Set Picture Storage* in the user manual of the client software.

Steps

iNote

This function should be supported by the device

- 1. Enter the Access Control module.
- 2. On the navigation bar on the left, enter Advanced Function \rightarrow More Parameters \rightarrow Capture .
- 3. Select an access control device in the device list and select Manual Capture.
- **4.** Select the resolution of the captured pictures from the drop-down list.
- 5. Select the picture quality as **High**, **Medium**, or **Low**. The higher the picture quality is, the larger size the picture will be.
- 6. Click Save.

Set Parameters for Face Recognition Terminal

For face recognition terminal, you can set its parameters including face picture database, QR code authentication, etc.

Steps

iNote

This function should be supported by the device.

- 1. Enter the Access Control module.
- 2. On the navigation bar on the left, enter Advanced Function \rightarrow More Parameters .
- 3. Select an access control device in the device list and click Face Recognition Terminal.
- 4. Set the parameters.

These parameters displayed vary according to different device models.

Algorithm

Select **Deep Learning** as the face picture database.

Authenticate by QR Code

If enabled, the device camera can scan the QR code to authenticate. By default, the function is disabled.

Save Authenticating Face Picture

If enabled, the captured face picture when authenticating will be saved on the device.

ECO Mode

After enabling the ECO mode, the device can authenticate faces in the low light or dark environment. And you can set he ECO mode threshold, ECO mode (1:N), and ECO mode (1:1).



Only device in the normal mode supports configuring ECO mode parameters.

ECO Mode (1:1)

Set the matching threshold when authenticating via ECO mode 1:1 matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

iNote

Only device in the normal mode supports configuring ECO mode parameters.

ECO Mode (1:N)

Set the matching threshold when authenticating via ECO mode 1:N matching mode. The larger the value, the smaller the false accept rate and the larger the false rejection rate.

iNote

Only device in the normal mode supports configuring ECO mode parameters.

ECO Mode Threshold

When enabling the ECO mode, you can set the ECO mode's threshold. The larger the value, the easier the device entering the ECO mode. Available range: 0 to 8.

iNote

Only device in the normal mode supports configuring ECO mode parameters.

Work Mode

Set the device work mode as Access Control Mode. The access control mode is the device normal mode. You should authenticate your credential for accessing.

5. Click Save.

Set RS-485 Parameters

You can set the access control device's RS-485 parameters including the baud rate, data bit, the stop bit, parity type, flow control type, communication mode, work mode, and connection mode.

Steps

i Note

The RS-485 Settings should be supported by the device.

- 1. Enter the Access Control module.
- 2. On the navigation bar on the left, enter Advanced Function \rightarrow More Parameters .
- **3.** Select an access control device in the device list and click **RS-485** to enter the RS-485 Settings page.
- 4. Select the serial port number from the drop-down list to set the RS-485 parameters.
- **5.** Set the baud rate, data bit, the stop bit, parity type, communication mode, working mode, and connection mode in the drop-down list.
- 6. Click Save.
 - The configured parameters will be applied to the device automatically.
 - After changing the working mode or connection mode, the device will reboot automatically.

Enable M1 Card Encryption

M1 card encryption can improve the security level of authentication.

Steps

iNote

The function should be supported by the access control device and the card reader.

- 1. Enter the Access Control module.
- 2. On the navigation bar on the left, enter Advanced Function \rightarrow More Parameters .
- **3.** Select an access control device in the device list and click **M1 Card Encryption** to enter the M1 Card Encryption page.
- **4.** Set the switch to on to enable the M1 card encryption function.
- 5. Set the sector ID.

iNote

- The sector ID ranges from 1 to 100.
- By default, Sector 13 is encrypted. It is recommended to encrypt sector 13.
- 6. Click Save to save the settings.

7.8 Configure Linkage Actions for Access Control

You can configure different linkage actions for the event detected by the access control device. After that, linkage actions will be triggered once the event happens. This mechanism is used for notifying the security personnel the event, or triggering automatic access control in real time.

Two types of linkage actions are supported:

- **Client Actions:** When the event is detected, it will trigger the actions on the client, such as the client making an audible warning..
- **Device Actions:** When the event is detected, it will trigger the actions of a specific device, such as buzzing of a card reader and, opening/closing of a door, ..

7.8.1 Configure Client Actions for Access Event

Even if you are far away from an access point, you can still know what happens and how urgent the event is by configuring linked actions of access event on the client. You will be notified on the client once an event is triggered, so that you can response to the event instantly. You can also configure client actions of access points in a batch at a time.

Steps

iNote

The linkage actions here refer to the linkage of the client software's own actions such as audible warning, email linkage, etc.

1. Click Event Management → Access Control Event .

The added access control devices will display in the device list.

2. Select a resource (including device, alarm input, door/elevator, and card reader) from the device list.

The event types which the selected resource supports will display.

- **3.** Select the event(s) and click **Edit Priority** to define the priority for the event(s), which can be used to filter events in the Event Center.
- **4.** Set the linkage actions of the event.
 - 1) Select the event(s) and click Edit Linkage to set the client actions when the events triggered.

Audible Warning

The client software gives an audible warning when alarm is triggered. You can select the alarm sound for audible warning.

iNote

For setting the alarm sound, please refer to *Set Alarm Sound* in the user manual of client software.

Send Email

Send an email notification of the alarm information to one or more receivers.

For details about setting email parameters, refer to Set Email Parameters in the user manual of client software..

2) Click **OK**.

- **5.** Enable the event so that when the event is detected, en event will be sent to the client and the linkage actions will be triggered.
- 6. Optional: Click Copy to... to copy the event settings to other access control device, alarm input, door, or card reader.

7.8.2 Configure Device Actions for Access Event

You can set the access control device's linkage actions for the access control device's triggered event. When the event is triggered, it can trigger the alarm output, host buzzer, and other actions on the same device.

Steps

iNote

It should be supported by the device.

- 1. Click Access Control → Linkage Configuration .
- 2. Select the access control device from the list on the left.
- 3. Click Add button to add a new linkage.
- 4. Select the event source as Event Linkage.
- 5. select the event type and detailed event to set the linkage.
- **6.** In the Linkage Target area, set the property target to enable this action.

Buzzer on Controller

The audible warning of access control device will be triggered.

Capture

The real-time capture will be triggered.

Access Point

The door status of open, close, remain open, and remain close will be triggered.

i Note

The target door and the source door cannot be the same one.

- 7. Click Save.
- 8. Optional: After adding the device linkage, you can do one or more of the following:

Edit LinkageSelect the configured linkage settings in the device list and you can editSettingsits event source parameters, including event source and linkage target.

Delete LinkageSelect the configured linkage settings in the device list and click DeleteSettingsto delete it.

7.8.3 Configure Device Actions for Card Swiping

You can set the access control device's linkage actions for the specified card swiping. When you swipe the specified card, it can trigger the host buzzer, and other actions on the same device.

Steps

iNote

It should be supported by the device.

- 1. Click Access Control → Linkage Configuration .
- 2. Select the access control device from the list on the left.
- **3.** Click **Add** button to add a new linkage.
- 4. Select the event source as Card Linkage.
- 5. Enter the card number or select the card from the drop-down list.
- 6. Select the card reader where the card swipes to trigger the linked actions.
- 7. In the Linkage Target area, set the property target to enable this action.

Buzzer on Controller

The audible warning of access control device will be triggered.

Capture

The real-time capture will be triggered.

Access Point

The door status of open, close, remain open, or remain closed will be triggered.

8. Click Save.

When the card (configured in Step 5) swipes on the card reader (configured in Step 6), it can trigger the linked actions (configured in step 7).

9. Optional: After adding the device linkage, you can do one or more of the following:

| Delete Linkage Settings | Select the configured linkage settings in the device list and click Delete to delete it. |
|----------------------------|--|
| Edit Linkage Settings | Select the configured linkage settings in the device list and you can edit its event source parameters, including event source and linkage target. |

7.9 Door Control

In Monitoring module, you can view the real-time status of the doors managed by the added access control device. You can also control the doors such as open/close the door, or remain the

door open/closed via the client remotely. The real-time access event are displayed in this module. You can view the access details and person details.

iNote

For the user with door control permission, the user can enter the Monitoring module and control the door. Or the icons used for control will not show. For setting the user permission, refer to *Person Management*.

7.9.1 Control Door Status

You can control the status for a single door, including opening door, closing door, remaining the door open, and remaining the door closed.

Steps

- 1. Click Monitoring to enter the status monitoring page.
- 2. Select an access point group on the upper-right corner.

iNote

For managing the access point group, refer to *Group Management* in the user manual of the client software.

The doors in the selected access control group will display.

- **3.** Click a door icon to select a door, or press **Ctrl** and select multiple doors.
- 4. Click the following buttons to control the door.

Open Door

When the door is locked, unlock it and it will be open for once. After the open duration, the door will be closed and locked again automatically.

Close Door

When the door is unlocked, lock it and it will be closed. The person who has the access authorization can access the door with credentials.

Remain Open

The door will be unlocked (no matter closed or open). All the persons can access the door with no credentials required.

Remain Closed

The door will be closed and locked. No person can access the door even if he/she has the authorized credentials, except the super users.

Capture

Capture a picture manually.

The **Capture** button is available when the device supports capture function. The picture is saved in the PC running the client. For setting the saving path, refer to *Set File Saving Path* in the user manual of the client software.

Result

The icon of the doors will change in real-time according to the operation if the operation is succeeded.

7.9.2 Check Real-Time Access Records

The access records will display in real time, including card swiping records, face recognitions records, fingerprint comparison records, etc. You can view the person information and view the picture captured during access.

Steps

1. Click Monitoring and select a group from the drop-down list on the upper-right corner.

The access records triggered at the doors in the selected group will display in real time. You can view the details of the records, including card No., person name, organization, event time, etc.

- **2. Optional:** Check the event type and event status so that these events will show in the list if the events are detected. The events of unchecked type or status will not be displayed in the list.
- **3. Optional:** Check **Show Latest Event** and the latest access record will be selected and displayed at the top of the record list.
- **4. Optional:** Click the event to view the accessed person details, including person pictures (captured picture and profile), person No., person name, organization, phone, contact address, etc.

iNote

You can double click the captured picture to enlarge it to view the details.

5. Optional: Right click on the column name of the access event table to show or hide the column according to actual needs.

7.10 Event Center

You can configure the event of the added resources and set the linkage actions so that when the event is triggered, the software client can notify the security personnel and record the event details for checking afterwards.

In the event management page, you can configure access control event. For details about access control event configuration, refer to **Configure Linkage Actions for Access Control**.

In the event center, you can view the real-time events and search the historical events. For details, refer to *View Real-Time Events* and *Search Historical Events*.

7.10.1 Enable Receiving Event Notification from Devices

Before the client software can receive event notifications from the device, you need to arm the device first.

Steps

1. Click **□** → **Tool** → **Device Arming Control** to open Device Arming Control page.

All the added devices appear on this page.

2. In the Auto-Arming column, turn on the switch to enable auto-arming.

After turned on, the device(s) will be armed. And notifications about the events triggered by the armed device(s) will be automatically sent to the client software in real-time..

7.10.2 View Real-Time Events

In the Real-time Event module of the event center page, you can view the real-time event information, including event source, event time, priority, event key words, etc.

Before You Start

Enable receiving events from devices before the client can receive event information from the device, see *Enable Receiving Event Notification from Devices* for details.

Steps

 Click Event Center → Real-time Event to enter the real-time event page and you can view the real-time events received by the client.

Event Time

For video device, event time is the client time when it receives the event. For none-video device, event time is the time when the event is triggered.

| Device Ty | pe 🔽 | Video Intercom | Access Control | Priority | digh High | Medium | 🔽 Normal 🗸 | Uncategor | ized | |
|-----------|-------|----------------|-----------------|--------------|----------------|--------|-------------------|-------------|-------------|-------------------|
| | | | | | | | | | | |
| | | le 前 Clear | ✓× Enable Audio | | | | Auto-Select L | atest Event | | |
| | Index | Event Source | | | Event Name | Ev | vent Time | Prio | rity | Event Details |
| | | | | | Local: Login | | 019-04-10 14:45:5 | 5 Un | categorized | |
| | | | | Card Reader1 | Face Not Exist | | 019-04-10 10:38:5 | 4 Un | categorized | Entrance Card Rea |
| | | | | Card Reader1 | Face Not Exist | | 019-04-10 10:38:4 | B Un | categorized | Entrance Card Rea |
| | | | | Card Reader1 | Face Not Exist | | 019-04-10 10:36:1 | 5 Un | categorized | Entrance Card Rea |
| | 284 | | | Card Reader1 | Face Not Exist | | 019-04-10 10:35:5 | 5 Un | categorized | Entrance Card Rea |
| | | | | | | | | | | |
| Details | | | | | | | | Send E | mail Ha | ndle Hide 🗸 |
| Picture | | | | | Event Details | | Handling Rec | ord | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Figure 7-6 View Real-Time Events

2. Set the filter conditions or enter the event key word in the Filter text field to display the required events only.

Device Type

The type of device that occurred the event.

Priority

The priority of the event that indicates the urgent degree of the event.

3. Optional: Right click the table header of the event list to customize the event related items to be displayed in the event list.

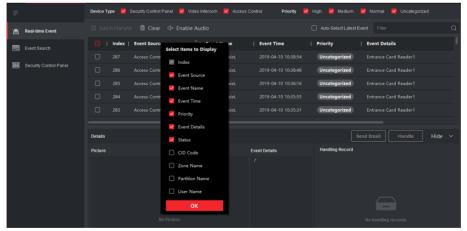


Figure 7-7 Customize Event Related Items to be Displayed

- 4. View the event information details.
 - 1) Select an event in the event list.
 - 2) Click **Expand** in the right-lower corner of the page.

- 3) View the related picture, detail description and handing records of the event.
- 4) **Optional:** Hover the cursor on the related picture, and then click the download icon on the upper-right corner of the picture to download it to the local PC. You can set the saving path manually.
- 5. Optional: Perform the following operations if necessary.

| Handle Single Event | Click Handle to enter the processing suggestion, and then click Commit . | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | i Note | | | | | | | |
| | After an event is handled, the Handle button will become Add Remark , click Add Remark to add more remarks for this handled event. | | | | | | | |
| Handle Events in a Batch | Select events that need to be processed, and then click Handle in Batch . Enter the processing suggestion, and then click Commit . | | | | | | | |
| Enable/Disable Alarm Audio | Click Enable Audio/Disable Audio to enable/disable the audio of the event. | | | | | | | |
| Select the Latest Event Automatically | Check Auto-Select Latest Event to select the latest event automatically and the event information details is displayed. | | | | | | | |
| Clear Events | Click Clear to clear the all the events in the event list. | | | | | | | |
| Send Email | Select an event and then click Send Email , and the information details of this event will be sent by email. | | | | | | | |
| | i Note | | | | | | | |
| | You should configure the email parameters first, see Set Email Parameters in the user manual of client software for details. | | | | | | | |

7.10.3 Search Historical Events

In the Event Search module of the event center page, you can search the historical events via time, device type, and other conditions according to the specified device type, and then process the events.

Before You Start

Enable receiving events from devices before the client can receive event information from the device, see *Enable Receiving Event Notification from Devices* for details.

Steps

1. Click Event Center → Event Search to enter the event search page.

| = | Time | | | | | | | | | | |
|----------------------------------|---|----------|---------------|-------|--------------|-------------------------------|---------------------|-------------|-----------------------|--|--|
| 🖌 Real-time Event | 2019.04.10 00:00:00-2019.04.10 23:59:59 | # | 01 | Index | Device Name | Event Name | Event Time | Device Type | Object Name | | |
| | Search Method | | | | 10.7.115.178 | Face Authentica | 2019-04-10 12:32:45 | Access Cont | Entrance Card Reader1 | | |
| Event Search | | | | | 10.7.115.178 | Face Authentica | | Access Cont | | | |
| Security Control Panel | Group | a | | | | Face Authentica | | | Entrance Card Reader1 | | |
| | | ď | | | | Face Authentica | 2019-04-10 12:32:36 | Access Cont | Entrance Card Reader1 | | |
| | | | | | | Face Authentica | | | Entrance Card Reader1 | | |
| | ID.6.112.25 | | | | | Normally Close | 2019-04-10 11:49:51 | | | | |
| | ▶ □ ■ 10.9.113.15 ▶ □ ■ 10.8.96212 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | Event Details | | | Send Email Handle Hide \vee | | | | | |
| | | | Picture | | | | Handling Record | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | Priority | | | | | | | | | | |
| | | | | | | | | | | | |
| Vincategorized Handing Status | | | | | | | | | | | |
| | | | | | | | | | | | |
| | All | | | | | | | | | | |
| Search | | | | | | | | | | | |
| | | | | | | | | | | | |

Figure 7-8 Search History Event

2. Set the filter conditions to display the required events only.

Time

The client time when the event starts.

Search by

Group: Search the events occurred on the resources in the selected group.

Device: Search the events occurred on the selected device.

Device Type

The type of device that occurred the event.

All

All the device types, and you can set the following filter conditions: group, priority, and status.

Video Intercom

For the events of video intercom, you need to select searching scope: All Record and Only Unlocking.

- All Records: You can filter the events from all the video intercom events, and you need to set the following filter conditions: device, priority, status.
- **Only Unlocking**: You can filter the events from all the video intercom unlocking events, and you need to set the following filter conditions: device, unlocking type.

Access Control

For the events of access control, you can set the following filter conditions: device, priority, status, event type, card reader type, person name, card no., organization.

iNote

Click **Show More** to set the event type, card reader type, person name, card no., organization.

Group

The group of the device that occurred the event. You should set the group as condition only when you select the Device Type as **All**.

Device

The device that occurred the event.

Priority

The priority including low, medium, high and uncategorized which indicates the urgent degree of the event.

Status

The handling status of the event.

- **3.** Click **Search** to search the events according the conditions you set.
- **4. Optional:** Right click the table header of the event list to customize the event related items to be displayed in the event list.

| 🔲 Index | Device N | lame Event Name | Event Time Device Type Object Name |
|---------------------|----------|-------------------------|---|
| 0 1 | 10.7.115 | Select Items to Display | 2019-04-10 12:32:45 Access Cont Entrance Card Reader1 |
| 2 | 10.7.115 | Index | 2019-04-10 12:32:41 Access Cont Entrance Card Reader1 |
| 3 | 10.7.115 | 🗹 Device Name | 2019-04-10 12:32:36 Access Cont Entrance Card Reader1 |
| 4 | 10.7.115 | 🗹 Event Name | 2019-04-10 12:32:33 Access Cont Entrance Card Reader1 |
| 5 | 10.7.115 | 🗹 Event Time | 2019-04-10 11:49:51 Access Cont Door1 |
| | | 🗹 Device Type | |
| total 156 record(s) | 50 | Group Name | < < >> > 1 /4 Page |
| | | 🗹 Object Name | |
| Event Details | | 🗹 Object Type | Send Email Handle Hide 🗸 |
| Picture | | 🗹 Priority | Handling Record |
| | | Event Details | |
| | | Status | |
| | Γ | ок | |

Figure 7-9 Customize Event Related Items to be Displayed

- **5. Optional:** Handle the event(s).
 - Handle single event: Select one event that need to be processed, and then click **Handle** in the event information details page, and enter the processing suggestion.
 - Handle events in a batch: Select the events which need to be processed, and then click **Handle in Batch**, and enter the processing suggestion.

iNote

After an event is handled, the **Handle** button will become **Add Remark**, click **Add Remark** to add more remarks for this handled event.

6. Optional: Select an event and then click Send Email, and the information details of this event will be sent by email.

iNote

You should configure the email parameters first, see *Set Email Parameters* in the user manual of client software for details.

- **7. Optional:** Click **Export** to export the event log or event pictures to the local PC in CSV format. You can set the saving path manually.
- **8.** Hover the cursor on the related picture, and then click the download icon on the upper-right corner of the picture to download it to the local PC. You can set the saving path manually.

7.11 Time and Attendance

The Time and Attendance module provides multiple functionalities to track and monitor when employees start and stop work, and full control of employees working hours such as late arrivals, early departures, time taken on breaks and absenteeism.

iNote

In this section, we introduce the configurations before you can getting the attendance reports. The access records recorded after these configurations will be calculated in the statistics.

7.11.1 Configure Attendance Parameters

You can configure the attendance parameters, including the general rule, overtime parameters, attendance check point, holiday, leave type, etc.

Configure General Rule

You can configure the general rule for attendance calculation, such as the week beginning, month beginning, weekend, absence, etc.

Steps

iNote

The parameters configured here will be set as default for the newly added time period. It will not affect the existed one(s).

1. Enter Time & Attendance module.

- 2. Click Attendance Settings → General Rule .
- 3. Set the day as week beginning and the date as month beginning.
- **4.** Select the day(s) as weekend.
- 5. Set absence parameters.
- 6. Click Save.

Configure Overtime Parameters

You can configure the overtime parameters for workday and non-workday, including overtime level, pay rate, attendance status for overtime, etc.

Steps

- **1.** Enter Time & Attendance module.
- 2. Click Attendance Settings → Overtime .
- 3. Set required information.

Overtime Level for Workday

When you work for certain period after end-work time on workday, you will reach different overtime level: overtime level 1, overtime level 2 and overtime level 3. You can set different pay rate for three overtime levels, respectively.

Pay Rate

Set corresponding pay rates for three overtime levels, which can be generally used to calculate total work hours.

Overtime Rule for Non-Workday

You can enable overtime rule for non-workday and set calculation mode.

4. Click Save.

Configure Attendance Check Point

You can set the card reader(s) of the access point as the attendance check point, so that the authentication on the card readers will be recorded for attendance .

Before You Start

You should add access control device before configuring attendance check point. For details, refer to **Add Device**.

Steps

iNote

By default, all card readers of the added access control devices are set as attendance checkpoint.

- 1. Enter the Time & Attendance module.
- Click Attendance Settings → Attendance Check Point to enter the Attendance Check Point Settings page.

3. Optional: Set Set All Card Readers as Check Points switch to off.

Only the card readers in the list will be set as the attendance check points.

- **4.** Check the desired card reader(s) in the device list as attendance check point(s).
- 5. Set check point function as Start/End-Work, Start-Work or End-Work.
- 6. Click Set as Check Point.

The configured attendance check point displays on the right list.

Configure Holiday

You can add the holiday during which the check-in or check-out will not be recorded.

Add Regular Holiday

You can configure a holiday which will take effect annually on regular days during the effective period, such as New Year's Day, Independence Day, Christmas Day, etc.

Steps

- 1. Enter the Time & Attendance module.
- 2. Click Attendance Settings → Holiday to enter the Holiday Settings page.
- 3. Check Regular Holiday as holiday type.
- 4. Custom a name for the holiday.
- 5. Set the first day of the holiday.
- 6. Enter the number of the holiday days.
- 7. Set the attendance status if the employee works on holiday.
- 8. Optional: Check Repeat Annually to make this holiday setting effective every year.
- 9. Click OK.

The added holiday will display in the holiday list and calendar.

If the date is selected as different holidays, it will be recorded as the first-added holiday.

10. Optional: After adding the holiday, perform one of the following operations.

Edit Holiday Click 📝 to edit the holiday information.

Delete Holiday Select one or more added holidays, and click **Delete** to delete the holiday(s) from the holiday list.

Add Irregular Holiday

You can configure a holiday which will take effect annually on irregular days during the effective period, such as Bank Holiday.

- 1. Enter the Time & Attendance module.
- 2. Click Attendance Settings → Holiday to enter the Holiday Settings page.

- **3.** Click **Add** to open the Add Holiday page.
- 4. Check Irregular Holiday as holiday type.
- **5.** Custom a name for the holiday.
- 6. Set the start date of the holiday.

Example

If you want to set the forth Thursday in November, 2019 as the Thanksgiving Day holiday, you should select 2019, November, 4th, and Thursday from the four drop-down lists.

- 7. Enter the number of the holiday days.
- 8. Set the attendance status if the employee works on holiday.
- 9. Optional: Check Repeat Annually to make this holiday setting effective every year
- 10. Click OK.

The added holiday will display in the holiday list and calendar.

If the date is selected as different holidays, it will be recorded as the first-added holiday.

11. Optional: After adding the holiday, perform one of the following operations.

| Edit Holiday | Click 🌌 to edit the holiday information. |
|----------------|--|
| Delete Holiday | Select one or more added holidays, and click Delete to delete the holiday(s) from the holiday list. |

Configure Leave Type

You can customize the leave type (major leave type and minor leave type) according to actual needs. You can also edit or delete the leave type.

- **1.** Enter the Time & Attendance module.
- 2. Click Attendance Settings → Leave Type to enter the Leave Type Settings page.
- 3. Click Add on the left to add a major leave type.
- 4. Optional: Perform one of the following operations for major leave type.
 - **Edit** Move the cursor over the major leave type and click **or** to edit the major leave type.
 - **Delete** Select one major leave type and click **Delete** on the left to delete the major leave type.
- 5. Click Add on the right to add a minor leave type.
- 6. Optional: Perform one of the following operations for minor leave type.
 - **Edit** Move the cursor over the minor leave type and click **i** to edit the minor leave type.
 - **Delete** Select one or multiple major leave types and click **Delete** on the right to delete the selected minor leave type(s).

Synchronize Authentication Record to Third-Party Database

The attendance data recorded in client software can be used by other system for calculation or some other operations. You can enable synchronization function to apply the authentication record from client software to the third-party database automatically.

Steps

- 1. Enter Time & Attendance module.
- 2. Click Attendance Settings → Third-Party Database .
- **3.** Set **Apply to Database** switch to on to enable synchronization function.
- **4.** Set the required parameters of the third-party database, including database type, server IP address, database name, user name and password.
- 5. Set table parameters of database according to the actual configurations.
 - 1) Enter the table name of the third-party database.
 - 2) Set the mapped table fields between the client software and the third-party database.
- 6. Click Connection Test to test whether database can be connected.
- 7. Click Save to save the settings.

The attendance data will be written to the third-party database.

Configure Break Time

You can add break time and set start time, end time, duration, calculation mode and other parameters for the break. The added break time can also be edited or deleted.

Steps

1. Click Time & Attendance → Timetable .

The added timetables are displayed in the list.

- 2. Select an added timetable or click Add to enter setting timetable page.
- 3. Click Settings in the break time area to enter break time management page.
- 4. Add break time.
 - 1) Click Add.
 - 2) Enter a name for the break time.
 - 3) Set related parameters for the break time.

Start Time / End Time

Set the time when the break starts and ends.

No Earlier Than / No Later Than

Set the earliest swiping time for starting break and the latest swiping time for ending break.

Break Duration

The duration from start time to end time of the break.

Calculation

Auto Deduct

The fixed break duration will be excluded from work hours.

Must Check

The break duration will be calculated and excluded from work hours according to actual check-in and check-out time.

iNote

If you select **Must Check** as calculation method, you need to set attendance status for late or early returning from break.

- 5. Click Save to save the settings.
- 6. Optional: Click Add to continue adding break time.

Configure Report Display

You can configure display contents displayed in the attendance report, such as the company name, logo, date format, time format, and mark.

Steps

- 1. Enter Time & Attendance module.
- 2. Click Attendance Statistics → Report Display .
- 3. Set the display settings for attendance report.

Company Name

Enter a company name to display the name in the report.

Date Format / Time Format

Set the date format and time format according to the actual needs.

Attendance Status Mark in Report

Enter the mark and select the color. The related fields of attendance status in the report will display with the mark and color.

Weekend Mark in Report

Enter the mark and select the color. The weekend fields in the report will display with the mark and color.

4. Click Save.

7.11.2 Add Timetable

You can add the timetable for the shift schedule.

- 1. Click Time & Attendance → Timetable to enter timetable settings window.
- 2. Click Add to enter Add Timetable page.
- **3.** Create a name for the timetable.

4. Select calculation method.

First In & Last Out

The first check-in time is recorded as start work time and the last check-out time is recorded as the end-work time.

Each Check-In/Out

Each check-in time and check-out time is valid and the sum of all periods between adjacent check-in and check-out time will be recorded as the valid working duration.

You need to set **Valid Auth. Interval** for this calculation method. For example, if the interval between card swiping of the same card is less than the set value, the card swiping is invalid.

- 5. Optional: Set Enable T&A Status switch to on to calculate according to attendance status of the device.
- **6.** Set the related attendance time.

Start/End-Work Time

Set the start-work time and end-work-time.

Valid Check-in/out Time

Set the time period during which the check-in or check-out is valid.

Calculated as

Set the duration calculated as the actual work duration.

Late/Early Leave Allowable

Set the time period for late or early leave.

7. Optional: Select break time to exclude the duration from work hours.

iNote

You can click **Settings** to manage break time. For more details about configuring break time, refer to **Configure Break Time**.

- 8. Click Save to add the timetable.
- 9. Optional: Perform one or more following operations after adding timetable.

Edit Timetable Select a timetable from the list to edit related information.

Delete Timetable Select a timetable from the list and click **Delete** to delete it.

7.11.3 Add Shift

You can add the shift for the shift schedule.

Before You Start

Add a timetable first. See *Add Timetable* for details.

Steps

1. Click Time & Attendance → Shift to enter shift settings page.

- 2. Click Add to enter Add Shift page.
- 3. Enter the name for shift.
- 4. Select the shift period from the drop-down list.
- 5. Select the added timetable and click on the time bar to apply the timetable.

| Basic Settings | | | | | | | | | | | | |
|----------------|-----------|-------|-----------|-------|--------|------------------|-------|-------|-------|-------|-------|-------|
| | Shift Na | me D | efault Sh | ift | | | | | | | | |
| | Shift Per | iod 1 | | | Week | day | | | | | | |
| Default Tir | netable | | | | | | | | | | | |
| × Delete | 前 Cle | ar | | | | | | | | | | |
| Time 00 | :00 02:00 | 04:00 | 06:00 | 08:00 | 10:00 | 12:00 | 14:00 | 16:00 | 18:00 | 20:00 | 22:00 | 24:00 |
| Monday | | | | | | | | | | | | |
| Tuesday | | | | | | : 1 : 1 | * 1 * | | | | | |
| Wednesday | | | | | | : : : : | : : : | | | | | |
| Thursday | | | | | | | : : | | | | | |
| Friday | | | | | | | | | | | | |
| Saturday | | | | | | | | | | | | |
| Sunday | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Save | | Assign | | | | | | | |

Figure 7-10 Add Shift

6. Click Save.

The added shift lists on the left panel of the page. At most 64 shifts can be added.

- 7. Optional: Assign the shift to organization or person for a quick shift schedule.
 - 1) Click Assign.
 - 2) Select **Organization** or **Person** tab and check the desired organization(s) or person(s) box. The selected organizations or persons will list on the right page.
 - 3) Set the effective period for the shift schedule.
 - 4) Set other parameters for the shift schedule, including Check-in Not Required, Check-out Not Required, Effective for Holiday, and Effective for Overtime.
 - 5) Click Save to save the quick shift schedule.

7.11.4 Manage Shift Schedule

Shift work is an employment practice designed to make use of all 24 hours of the clock each day of the week. The practice typically sees the day divided into shifts, set periods of time during which different shifts perform their duties.

You can set department schedule, person schedule, and temporary schedule.

Set Department Schedule

You can set the shift schedule for one department, and all the persons in the department will be assigned with the shift schedule.

Before You Start

In Time & Attendance module, the department list is the same with the organization. You should add organization and persons in Person module first. See *Person Management* for details.

Steps

- 1. Click Time & Attendance → Shift Schedule to enter the Shift Schedule Management page.
- 2. Click Department Schedule to enter Department Schedule page.
- 3. Select the department from the organization list on the left.

iNote

If **Include Sub Organization** is checked, when selecting the organization, its sub organizations are selected at the same time.

- 4. Select the shift from the drop-down list.
- 5. Check the checkbox to enable Multiple Shift Schedules.

iNote

After checking **Multiple Shift Schedules**, you can select the effective time period(s) from the added time periods for the persons in the department.

Multiple Shift Schedules

It contains more than one time periods. The person can check in/out in any of the time periods and the attendance will be effective.

If the multiple shift schedules contains three time periods: 00:00 to 07:00, 08:00 to 15:00 and 16:00 to 23:00. The attendance of the person adopting this multiple shift schedules will be effective in any of the three time periods. If the person checks in at 07:50, it will apply the nearest time period 08:00 to 15:00 to the person's attendance.

- 6. Set the start date and end date.
- **7.** Set other parameters for the schedule, including Check-in Not Required, Check-out Not Required, Effective for Holiday, and Effective for Overtime.
- 8. Click Save.

Set Person Schedule

You can assign the shift schedule to one or more persons. You can also view and edit the person schedule details.

Before You Start

Add department and person in Person module. See Person Management for details.

Steps

iNote

The person schedule has the higher priority than department schedule.

- 1. Click Time & Attendance → Shift Schedule to enter the Shift Schedule Management page.
- 2. Click Person Schedule to enter Person Schedule page.
- **3.** Select the organization and select the person(s).
- **4.** Select the shift from the drop-down list.
- 5. Check the checkbox to enable Multiple Shift Schedules.

iNote

After checking the **Multiple Shift Schedules**, you can select the effective timetable(s) from the added timetables for the persons.

Multiple Shift Schedules

It contains more than one timetables. The person can check in/out in any of the timetables and the attendance will be effective.

If the multiple shift schedules contains three timetables: 00:00 to 07:00, 08:00 to 15:00 and 16:00 to 23:00. The attendance of the person adopting this multiple shift schedules will be effective in any of the three timetables. If the person checks in at 07:50, it will apply the nearest timetable 08:00 to 15:00 to the person's attendance.

- 6. Set the start date and end date.
- **7.** Set other parameters for the schedule, including Check-in Not Required, Check-out Not Required, Effective for Holiday, and Effective for Overtime.
- 8. Click Save.

Set Temporary Schedule

You can add a temporary schedule for the person and the person will be assigned with the shift schedule temporarily. You can also view and edit the temporary schedule details.

Before You Start

Add department and person in Person module. See Person Management for details.

Steps

INote

The temporary schedule has higher priority than department schedule and person schedule.

1. Click Time & Attendance → Shift Schedule to enter the Shift Schedule Management page.

2. Click Temporary Schedule to enter Temporary Schedule page.

- **3.** Select the organization and select the person(s).
- 4. Click one date or click and drag to select multiple dates for the temporary schedule.
- 5. Select Workday or Non-Workday from drop-down list.

If Non-Workday is selected, you need to set the following parameters.

Calculated as

Select normal or overtime level to mark the attendance status for temporary schedule.

Timetable

Select a timetable from drop-down list.

Multiple Shift Schedule

It contains more than one timetables. The person can check in/out in any of the timetables and the attendance will be effective.

If the multiple shift schedules contains three timetables: 00:00 to 07:00, 08:00 to 15:00 and 16:00 to 23:00. The attendance of the person adopting this multiple shift schedules will be effective in any of the three timetables. If the person checks in at 07:50, it will apply the nearest timetable 08:00 to 15:00 to the person's attendance.

Rule

Set other rule for the schedule, such as Check-in Not Required, and Check-out Not Required.

6. Click Save.

Check Shift Schedule

You can check the shift schedule in calendar or list mode. You ca also edit or delete the shift schedule.

Steps

- **1.** Click **Time & Attendance → Shift Schedule** to enter the Shift Schedule Management page.
- **2.** Select the organization and corresponding person(s).
- 3. Click 📰 or 📰 to view the shift schedule in calendar or list mode.

Calendar

In calendar mode, you can view the shift schedule for each day in one month. You can click the temporary schedule for one day to edit or delete it.

List

In list mode, you can view the shift schedule details about one person or organization, such as shift name, type, effective period and so on. Check the shift schedule(s), and click **Delete** to delete the selected shift schedule(s).

7.11.5 Manually Correct Check-in/out Record

If the attendance status is not correct, you can manually correct the check-in or check out record. You can also edit, delete, search, or export the check-in or check-out record.

Before You Start

- You should add organizations and persons in Person module. For details, refer to **Person Management**.
- The person's attendance status is incorrect.

Steps

- 1. Click Time & Attendance → Attendance Handling to enter attendance handling page.
- 2. Click Correct Check-In/Out to enter adding the check-in/out correction page.
- 3. Select person from left list for correction.
- **4.** Select the correction date.
- 5. Set the check-in/out correction parameters.
 - Select **Check-in** and set the actual start-work time.
 - Select Check-out and set the actual end-work time.

iNote

You can click 💽 to add multiple check in/out items. At most 8 check-in/out items can be supported.

- 6. Optional: Enter the remark information as desired.
- 7. Click Save.
- 8. Optional: After adding the check-in/out correction, perform one of the following operations.
 - **View** Click **:::** or **:::** to view the added attendance handling information in calendar or list mode.

iNote

In calendar mode, you need to click **Calculate** to get the attendance status of the person in one month.

Edit • In calendar mode, click the related label on date to edit the details.

- In list mode, double-click the related filed in Date, Handling Type, Time, or Remark column to edit the information.
- **Delete** Delete the selected items.
- **Export** Export the attendance handling details to local PC.

i Note

The exported details are saved in CSV format.

7.11.6 Add Leave and Business Trip

You can add leave and business trip when the employee want to ask for leave or go on a business trip.

Before You Start

You should add organizations and persons in the Person module. For details, refer to **Person Management**.

Steps

- **1.** Click **Time & Attendance → Attendance Handling** to enter attendance handling page.
- 2. Click Apply for Leave/Business Trip to enter adding the leave/business trip page.
- 3. Select person from left list.
- 4. Set the date(s) for your leave or business trip.
- 5. Select the major leave type and minor leave type from the drop-down list.

iNote

You can set the leave type in Attendance Settings. For details, refer to Configure Leave Type .

- 6. Set the time for leave.
- 7. Optional: Enter the remark information as desired.
- 8. Click Save.
- 9. Optional: After adding the leave and business trip, perform one of the following operations.
 - **View** Click **:::** or **:::** to view the added attendance handling information in calendar or list mode.

iNote

In calendar mode, you need to click **Calculate** to get the attendance status of the person in one month.

- **Edit** In calendar mode, click the related label on date to edit the details.
 - In list mode, double-click the filed in Date, Handling Type, Time, or Remark column to edit the related information.

Delete Delete the selected items.

Export Export the attendance handling details to local PC.

iNote

The exported details are saved in CSV format.

7.11.7 Calculate Attendance Data

You need to calculate the attendance data before searching and viewing the overview of the attendance data, employees' detailed attendance data, employees' abnormal attendance data, the employees' overtime working data, and card swiping log.

Automatically Calculate Attendance Data

You can set a schedule so that the client can calculate the attendance data automatically at the time you configured every day.

Steps

iNote

It will calculate the attendance data till the previous day.

- **1.** Enter the Time & Attendance module.
- 2. Click Attendance Settings → General Rule .
- **3.** In the Auto-Calculate Attendance area, set the time that you want the client to calculate the data every day.
- 4. Click Save.

Manually Calculate Attendance Data

You can calculate the attendance data manually by setting the data range.

Steps

- **1.** Enter the Time & Attendance module.
- 2. Click Attendance Statistics → Calculate Attendance .
- **3.** Set the start time and end time to define the attendance data range.
- 4. Set other conditions, including department, person name, employee No. and attendance status.
- 5. Click Calculate.

iNote

It can only calculate the attendance data within three months.

6. Perform one of the following operations.

| Correct Check- in/out | Click Correct Check-in/out to add check-in/out correction. |
|--------------------------|---|
| Report | Click Report to generate the attendance report. |
| Export | Click Export to export attendance data to local PC. |

iNote

The exported details are saved in CSV format.

7.11.8 Attendance Statistics

You can check the original attendance record, generate and export the attendance report based on the calculated attendance data.

Get Original Attendance Record

You can search the employee's attendance time, attendance status, check point, etc. in a time period to get an original record of the employees.

Before You Start

- You should add organizations and persons in Person module and the persons has swiped card. For details, refer to *Person Management*.
- Calculate the attendance data.

iNote

- The client will automatically calculate the previous day's attendance data at 1:00 am on the next day.
- Keep the client running at 1:00 am or it cannot calculate the previous day's attendance data automatically. If not calculated automatically, you can calculate the attendance data manually. For details, refer to *Manually Calculate Attendance Data*.

Steps

- 1. Enter the Time & Attendance module.
- 2. Click Attendance Statistics \rightarrow Original Records .
- 3. Set the attendance start time and end time that you want to search from.
- 4. Set other search conditions, such as department, person name, and employee No.
- 5. Optional: Click Get from Device to get the attendance data from the device.
- 6. Optional: Click Reset to reset all search conditions and edit the search conditions again.
- 7. Click Search.

The result displays on the page. You can view the employee's required attendance status and check point.

8. Optional: After searching the result, perform one of the following operations.

| Generate Report | Click Report to generate the attendance report. |
|------------------------|--|
|------------------------|--|

Export Report Click **Export** to export the results to the local PC.

Generate Instant Report

It supports to generate the a series of attendance reports manually to view the employees' attendance results.

Before You Start

Calculate the attendance data.

iNote

You can calculate the attendance data manually, or set the schedule so that the client can calculate the data automatically every day. For details, refer to *Calculate Attendance Data*.

Steps

- **1.** Enter the Time & Attendance module.
- 2. Click Attendance Statistics → Report .
- 3. Select a report type.
- 4. Select the department or person to view the attendance report.
- **5.** Set the start time and end time during which the attendance data will be displayed in the report.
- 6. Click Report to generate the statistics report and open it.

Custom Attendance Report

The client supports multiple report types and you can pre-define the report content and it can send the report automatically to the email address you configured.

Steps

i Note

Set the email parameters before you want to enable auto-sending email functions. For details, refer to *Set Email Parameters* in the user manual of the client software.

- 1. Enter the Time & Attendance module.
- 2. Click Attendance Statistics → Custom Report .
- 3. Click Add to pre-define a report.
- 4. Set the report content.

Report Name

Enter a name for the report.

Report Type

Select one report type and this report will be generated.

Report Time

The time to be selected may vary for different report type.

Person

Select the added person(s) whose attendance records will be generated for the report.

- 5. Optional: Set the schedule to send the report to the email address(es) automatically.
 - 1) Check the Auto-Sending Email to enable this function.
 - 2) Set the effective period during which the client will send the report on the selected sending date(s).
 - 3) Select the date(s) on which the client will send the report.
 - 4) Set the time at which the client will send the report.

Example

If you set the effective period as **2018/3/10 to 2018/4/10**, select **Friday** as the sending date, and set the sending time as **20:00:00**, the client will send the report at 8 p.m. on Fridays during 2018/3/10 to 2018/4/10.

iNote

Make sure the attendance records are calculated before the sending time. You can calculate the attendance data manually, or set the schedule so that the client can calculate the data automatically every day. For details, refer to *Calculate Attendance Data*.

5) Enter the receiver email address(es).

i Note

You can click + to add a new email address. Up to 5 email addresses are allowed.

- 6) **Optional:** Click **Preview** to view the email details.
- 6. Click OK.
- 7. Optional: After adding the custom report, you can do one or more of the followings:

| Edit Report | Select one added report and click Edit to edit its settings. |
|-----------------|---|
| Delete Report | Select one added report and click Delete to delete it. |
| Generate Report | Select one added report and click Report to generate the report instantly and you can view the report details. |

7.12 Remote Configuration via Client Software

Configure device parameters remotely.

7.12.1 Check Device Information

- 1. Click Maintenance and Management → Device to enter the device list.
- 2. Press CTRL and click 🔯 to enter the remote configuration page.
- 3. Click System → Device Information and view the device basic information and the device version information.

7.12.2 Edit Device Name

Click Maintenance and Management → Device to enter the device list.

Press **CTRL** and click 🚳 to enter the remote configuration page.

Click **System** → **General** to configure the device name and overwrite record files parameter. Click **Save**.

7.12.3 Edit Time

Steps

- 1. Click Maintenance and Management → Device to enter the device list.
- 2. Press CTRL and click 🚳 to enter the remote configuration page.
- **3.** Click **System** \rightarrow **Time** to configure the time zone.
- **4. Optional:** Check **Enable NTP** and set the NTP server address, the NTP port, and the synchronization interval.
- 5. Optional: Check Enable DST and set the DST start time, end time and the bias.
- 6. Click Save.

7.12.4 Set System Maintenance

You can reboot the device remotely, restore the device to default settings, import configuration file, upgrade the device, etc.

Steps

- 1. Click Maintenance and Management → Device to enter the device list.
- 2. Click 🔯 to enter the remote configuration page.
- 3. Click System → System Maintenance .
- 4. Maintain the device.

Reboot

The device starts rebooting.

Restore Default Settings

Restore the device settings to the default ones, excluding the IP address.

Restore All

Restore the device parameters to the default ones. The device should be activated after restoring.

Restore Part of Settings

Restore all settings except communication settings and the remote user settings to default ones.

Import Configuration File

Import the configuration file from the local PC to the device.

iNote

The configuration file contains the device parameters.

Export Configuration File

Export the configuration file from the device to the local PC.

i Note

The configuration file contains the device parameters.

5. Remotely upgrade the device.

- 1) Click ... to select an upgrade file.
- 2) Click Upgrade to start upgrading.

i Note

Do not power off during the upgrading.

7.12.5 Configure RS-485 Parameters

You can set the RS-485 parameters including the baud rate, data bit, stop bit, parity type, communication mode, work mode, and connection mode.

Steps

- 1. Click Maintenance and Management → Device to enter the device list.
- 2. Press CTRL and click 🔯 to enter the remote configuration page.
- **3.** Click System \rightarrow RS-485 Settings to enter the Configuring the RS-485 Parameters tab.
- 4. Select the serial No. of the port from the dropdown list to set the RS-485 parameters.
- **5.** Set the baud rate, data bit, the stop bit, parity, flow control, communication mode, working mode, and the connection mode from the dropdown list.
- 6. Click Save and the configured parameters will be applied to the device automatically.

iNote

After changing the working mode, the device will be rebooted. A prompt will be popped up after changing the working mode.

7.12.6 Manage User

- **1.** Click **Maintenance and Management** → **Device** to enter the device list.
- 2. Press CTRL and click 🔯 to enter the remote configuration page.
- **3.** Click System \rightarrow User .
- 4. Click Add to add the user (Do not support by the elevator controller.).

5. Optional: Select a user in the user list and click Edit to edit the user.

You are able to edit the user password, the IP address, the MAC address and the user permission.

6. Click OK.

7.12.7 Set Security

Steps

- 1. Click Maintenance and Management → Device to enter the device list.
- 2. Press CTRL and click 🔯 to enter the remote configuration page.
- **3.** Click **System** → **Security** .
- **4.** Select the encryption mode in the dropdown list.
- 5. You can select Compatible Mode or Encryption Mode.

Compatible Mode

The user information verification is compatible with the old client software version when logging in.

Encryption Mode

High security level during the user information verification when logging in.

- 6. Optional: Check Enable SSH.
- 7. Click Save.

7.12.8 Configure Network Parameters

Steps

- 1. Click Maintenance and Management → Device to enter the device list.
- 2. Press CTRL and click 🔯 to enter the remote configuration page.
- 3. Click Network → General .

You can configure the NIC type, the IPv4 address, the subnet mask (IPv4), the default gateway (IPv4), MTU, and the device port.

4. Click Save.

7.12.9 Configure Report Strategy

You can set the center group for uploading the log via the EHome protocol.

- 1. Click Maintenance and Management → Device to enter the device list.
- 2. Press CTRL and click 🔯 to enter the remote configuration page.
- Click Network → Report Strategy to enter the Configuring the Upload Method page.
 Center Group

Select a center group from the drop-down list.

Main Channel/Backup Channel

The device will communicate with the center via the main channel. When exception occurs in the main channel, the device and the center will communicate with each other via the backup channel.



N1 refers to wired network and G1 refers to GPRS.

4. Click Save.

7.12.10 Configure Network Center Parameters

You can set the notify surveillance center, center's IP address, the port No., the protocol (EHome), the EHome account user name, etc. to transmit data via EHome protocol.

Click Maintenance and Management → Device to enter the device list.

Press **CTRL** and click 🚳 to enter the remote configuration page.

Click **Network** → **Network Center Configuration** and you can set the center's network, center's address type, IP address/domain name, port No., EHome user name, etc.

Click **Save** to save the settings.

7.12.11 Configure Advanced Network

Click Maintenance and Management → Device to enter the device list.

Press **CTRL** and click 🚳 to enter the remote configuration page.

Click **Network** → **Advanced Settings** and you can configure the DNS IP address 1 and the DNS IP address.

Click **Save** to save the settings.

7.12.12 Configure Wi-Fi

- 1. Click Maintenance and Management → Device to enter the device list.
- 2. Press CTRL and click Store to enter the remote configuration page.
- 3. Click Network → Wi-Fi .
- 4. Check Enable to enable the Wi-Fi function.
- 5. Input the hot spot name or you can click **Select...** to select a network.
- 6. Input the Wi-Fi password.
- 7. Optional: Click Refresh to refresh the network status
- 8. Optional: Select the NIC Type.

- 9. Optional: Select to uncheck Enable DHCP and set the IP address, the subnet mask, the default gateway, the MAC address, the DNS1 IP Address, and the DNS2 IP address.
- 10. Click Save.

7.12.13 Set Face Recognition Terminal Parameters

Click Maintenance and Management → Device to enter the device list.

Press **CTRL** and click 🚳 to enter the remote configuration page.

Click **Other** → **Face Recognition Terminal Parameters** and you can configure the device parameters.

Face Picture Database

Select **Deep Learning** as the face picture database.

Save Authenticating Face Picture

If enabled, the captured face picture when authenticating will be saved on the device.

Work Mode

Set the device work mode as Access Control Mode. The access control mode is the device normal mode. You should authenticate your credential for accessing.

Click Save to save the settings.

7.12.14 Configure Face Picture Parameters

Steps

- 1. Click Maintenance and Management → Device to enter the device list.
- 2. Press CTRL and click 🚳 to enter the remote configuration page.
- 3. Click Other → Face Picture Parameters to enter the Configuring Face Picture Parameters page.

Min. Detection Width (Close to)

When the distance between the camera and the user is short, the parameter represents the minimum percentage of the facial width in the total width of the recognition area.

The actual percentage should be larger than the configured value when face picture authentication. In this condition, the device will not detect other parameters.

Pitch Angle

The maximum pitch angle when face authentication. By default, the angle is 30°.

Yaw Angle

The maximum yaw angle when face authentication. By default, the angle is 45°.

Min. Detection Area (Width)

When the distance between the camera and the user is long, the parameter represents the minimum percentage of the facial width in the total width of the recognition area.

The actual percentage should be larger than the configured value when face picture authentication. Other percentages, distances and angles in this table should also meet their conditions.

Recommended Value: 14

Min. Detection Area (Height)

When the distance between the camera and the user is long, the parameter represents the minimum percentage of the facial height in the total height of the recognition area.

The actual percentage should be larger than the configured value when face picture authentication. Other percentages, distances and angles in this table should also meet their conditions.

Recommended Value: 12

Margin (Left)

The distance percentage from the face left side to the left margin in the recognition area. The actual distance percentage should be larger than the configured value when face picture authentication. Other percentages, distances, and angles should also meet their conditions.

Margin (Right)

The distance percentage from the face right side to the right margin in the recognition area. The actual distance percentage should be larger than the configured value when face picture authentication. Other percentages, distances, and angles should also meet their conditions.

Margin (Top)

The distance percentage from the face top side to the top margin in the recognition area.

The actual distance percentage should be larger than the configured value when face picture authentication. Other percentages, distances, and angles should also meet their conditions.

Margin (Bottom)

The distance percentage from the face bottom side to the bottom margin in the recognition area.

The actual distance percentage should be larger than the configured value when face picture authentication. Other percentages, distances, and angles should also meet their conditions.

Pupillary Distance

The minimum resolution between two pupils when face recognition.

The actual resolution should be larger than the configured value.

By default, the resolution is 40.

You can set the face picture parameters when authenticating.

4. Click Save.

7.12.15 Configure Supplement Light Parameters

You can turn on or off the supplement light. You can also adjust the supplement light brightness.

Steps

- 1. Click Maintenance and Management → Device to enter the device list.
- 2. Press CTRL and click 🔯 to enter the remote configuration page.
- 3. Click Other → Supplement Light Parameters to enter the Configuring Supplement Light Parameters page.
- 4. Select a supplement light No. from the drop-down list.

iNote

Light 1 refers to white light and Light 2 refers to IR light.

- 5. Select a supplement light mode from the drop-down list.
- 6. Optional: If the supplement light mode is Auto, you can set the supplement light brightness.
- 7. Click Save to save the settings.

Configure Video and Audio Parameters

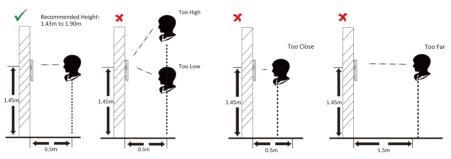
You can set the device camera's image quality, resolution and other parameters.

- 1. Click Maintenance and Management → Device to enter the device list.
- 2. Press CTRL and click 🔯 to enter the remote configuration page.
- **3.** Click Image \rightarrow Video & Audio to enter the settings page.
- **4.** Set the device camera's parameters, including the stream type, the bitrate type, the video quality, the frame rate, the audio encoding type, the video type, the bitrate, the resolution, and the I frame interval.
- 5. Click Save.

Appendix A. Tips When Collecting/Comparing Face Picture

The position when collecting or comparing face picture is as below:

Positions (Recommended Distance: 0.5 m)



Expression

• Keep your expression naturally when collecting or comparing face pictures, just like the expression in the picture below.



- Do not wear hat, sunglasses, or other accessories that can affect the facial recognition function.
- Do not make your hair cover your eyes, ears, etc. and heavy makeup is not allowed.

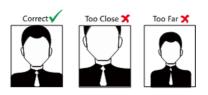
Posture

In order to get a good quality and accurate face picture, position your face looking at the camera when collecting or comparing face pictures.



Size

Make sure your face is in the middle of the collecting window.



Appendix B. Tips for Installation Environment

1. Light Source Illumination Reference Value

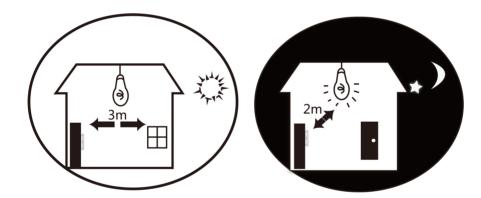


Candle: 10Lux

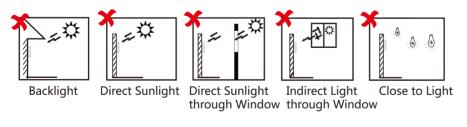
Bulb: 100~850Lux

Sunlight: More than 1200Lux

2. Install the device at least 2 meters away from the light, and at least 3 meters away from the window or door.



3. Avoid backlight, direct and indirect sunlight



Appendix C. Dimension

