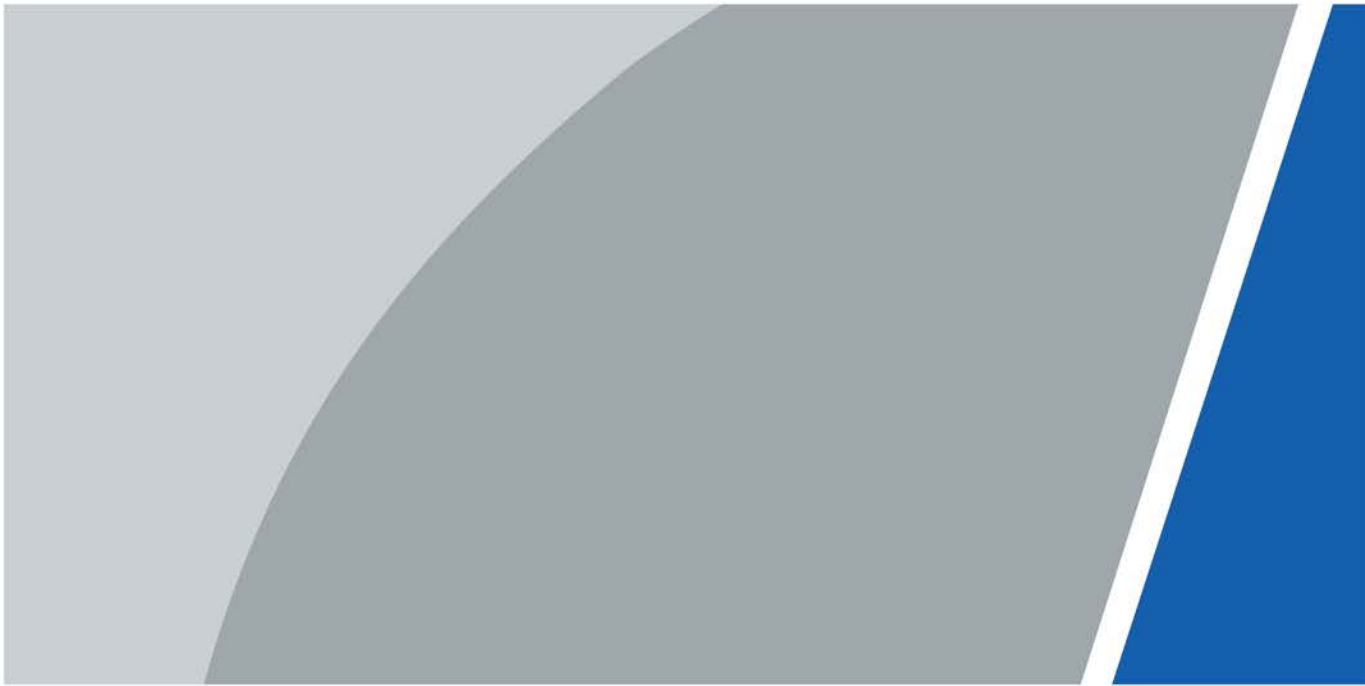


# **Access Standalone**

## **User's Manual**








# Foreword

## General

This manual introduces the functions and operations of the Access Standalone. Read carefully before using the device, and keep the manual safe for future reference.

## Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
 <b>DANGER</b>	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 <b>WARNING</b>	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 <b>CAUTION</b>	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
 <b>TIPS</b>	Provides methods to help you solve a problem or save time.
 <b>NOTE</b>	Provides additional information as a supplement to the text.

## Revision History

Version	Revision Content	Release Time
V1.0.2	Updated the unlock modes.	March 2023
V1.0.1	Updated the configurations on the platform.	November 2022
V1.0.0	First Release.	January 2022

## Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

## About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates

might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.

- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

# Important Safeguards and Warnings

This section introduces content covering the proper handling of the Access Standalone, hazard prevention, and prevention of property damage. Read carefully before using the Access Standalone, and comply with the guidelines when using it.

## Transportation Requirement



Transport, use and store the Access Standalone under allowed humidity and temperature conditions.

## Storage Requirement



Store the Access Standalone under allowed humidity and temperature conditions.

## Installation Requirements



### WARNING

- Do not connect the power adapter to the Access Standalone while the adapter is powered on.
- Strictly comply with the local electric safety code and standards. Make sure the ambient voltage is stable and meets the power supply requirements of the Access Controller.
- Do not connect the Access Standalone to two or more kinds of power supplies, to avoid damage to the Access Standalone.
- Improper use of the battery might result in a fire or explosion.



- Personnel working at heights must take all necessary measures to ensure personal safety including wearing a helmet and safety belts.
- Do not place the Access Standalone in a place exposed to sunlight or near heat sources.
- Keep the Access Standalone away from dampness, dust, and soot.
- Install the Access Standalone on a stable surface to prevent it from falling.
- Install the Access Standalone in a well-ventilated place, and do not block its ventilation.
- Use an adapter or cabinet power supply provided by the manufacturer.
- Use the power cords that are recommended for the region and conform to the rated power specifications.
- The power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Please note that the power supply requirements are subject to the Access Standalone label.
- The Access Standalone is a class I electrical appliance. Make sure that the power supply of the Access Standalone is connected to a power socket with protective earthing.

## Operation Requirements



- Check whether the power supply is correct before use.
- Do not unplug the power cord on the side of the Access Standalone while the adapter is powered on.

- Operate the Access Standalone within the rated range of power input and output.
- Use the Access Standalone under allowed humidity and temperature conditions.
- Do not drop or splash liquid onto the Access Standalone, and make sure that there is no object filled with liquid on the Access Standalone to prevent liquid from flowing into it.
- Do not disassemble the Access Standalone without professional instruction.

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# 1 Product Overview

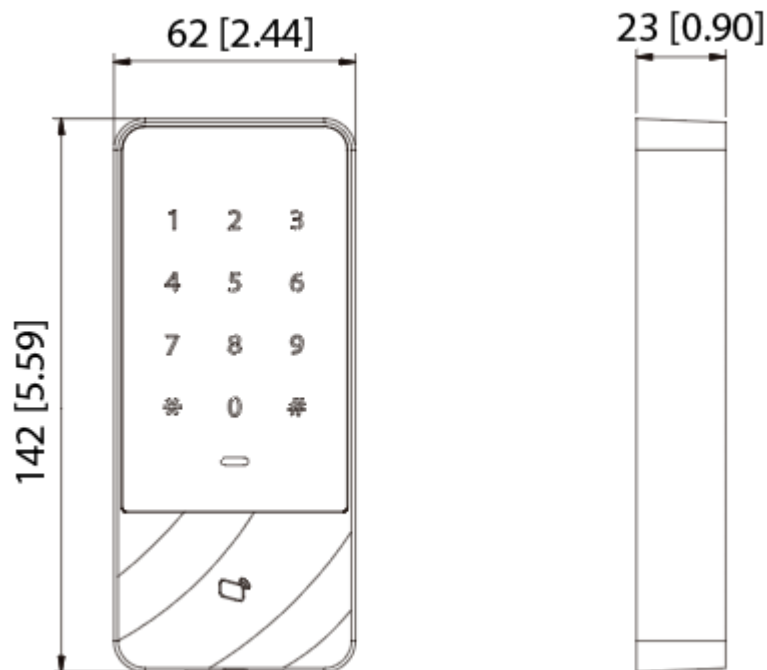
Waterproof standalone Access Standalone is intended for access management in a controlled area. With a neat appearance and IPX6 waterproof grade, it can be used outdoors.

It has the following main features:

- Supports touch keyboard and TCP/IP protocol.
- Support 30,000 valid cards and can store up to 60,000 records.
- Supports unlocking the door through the following modes:
  - ◇ Card
  - ◇ User ID + Password
  - ◇ Card + Password)
  - ◇ Card or (User ID + Password)
- Supports overtime alarm, intrusion alarm, duress alarm, and tamper alarm.
- Supports guest card, duress card, blocklist/allowlist card, and patrol card.
- Support 128 groups of time schedules, 128 groups of period, and 128 groups of holiday period.

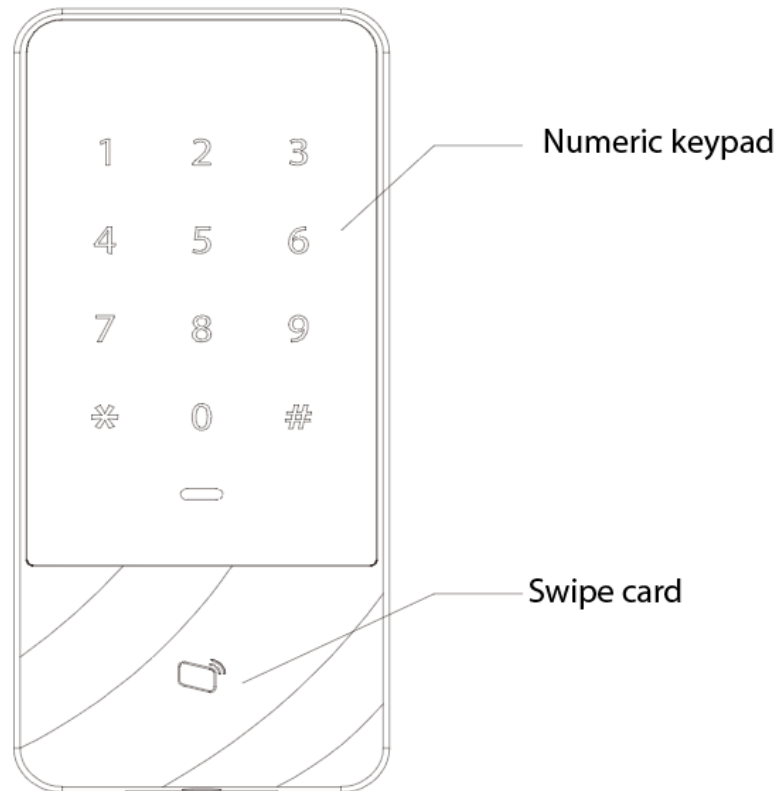
## 1.1 Dimensions

Figure 1-1 Dimensions (mm [inch])



## 1.2 Structure

Figure 1-2 Structure

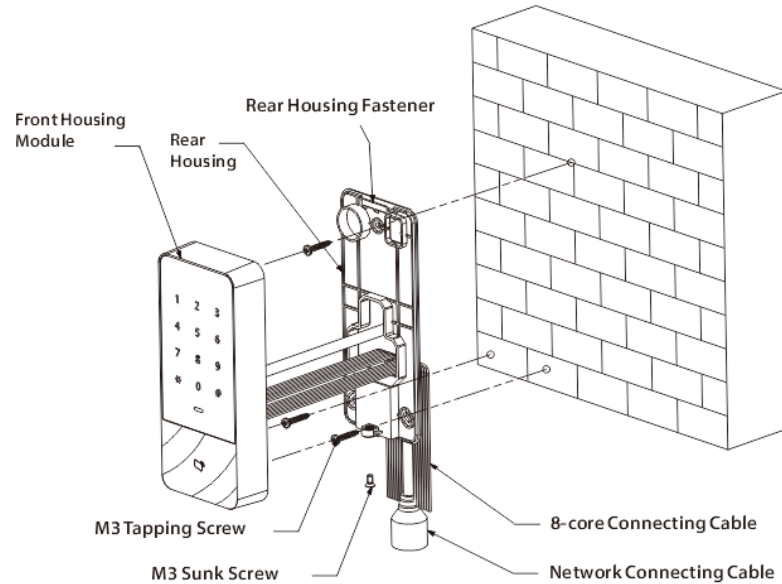




# 2 Installation

## Background Information

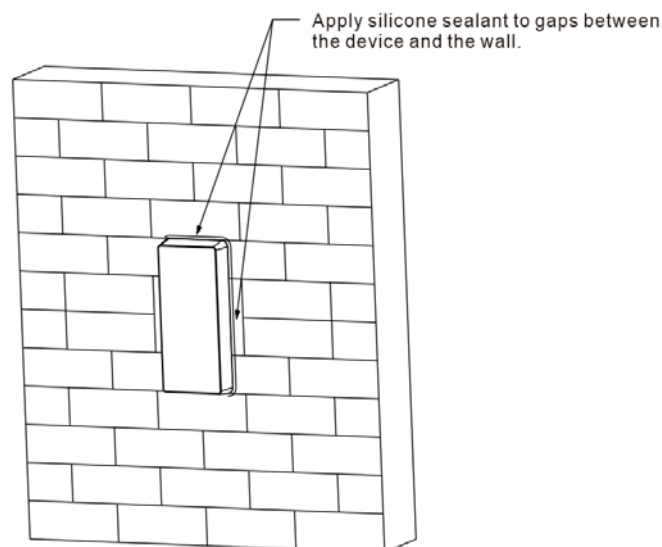
Figure 2-1 Installation



## Procedure

- Step 1 Fix the rear housing onto the wall with M3 tapping screws; leave a wiring space for networking connecting cable between the rear housing and wall.
- Step 2 Pass the network connecting cable and two 8-core connecting cable through the slot of the rear housing and wall, and then tighten M3 tapping screws.
- Step 3 Attach the top of front housing module to the rear housing fastener, and then tighten the M3 sunk screws at the bottom to fix them.
- Step 4 Apply silicone sealant to gaps between the device and the wall.

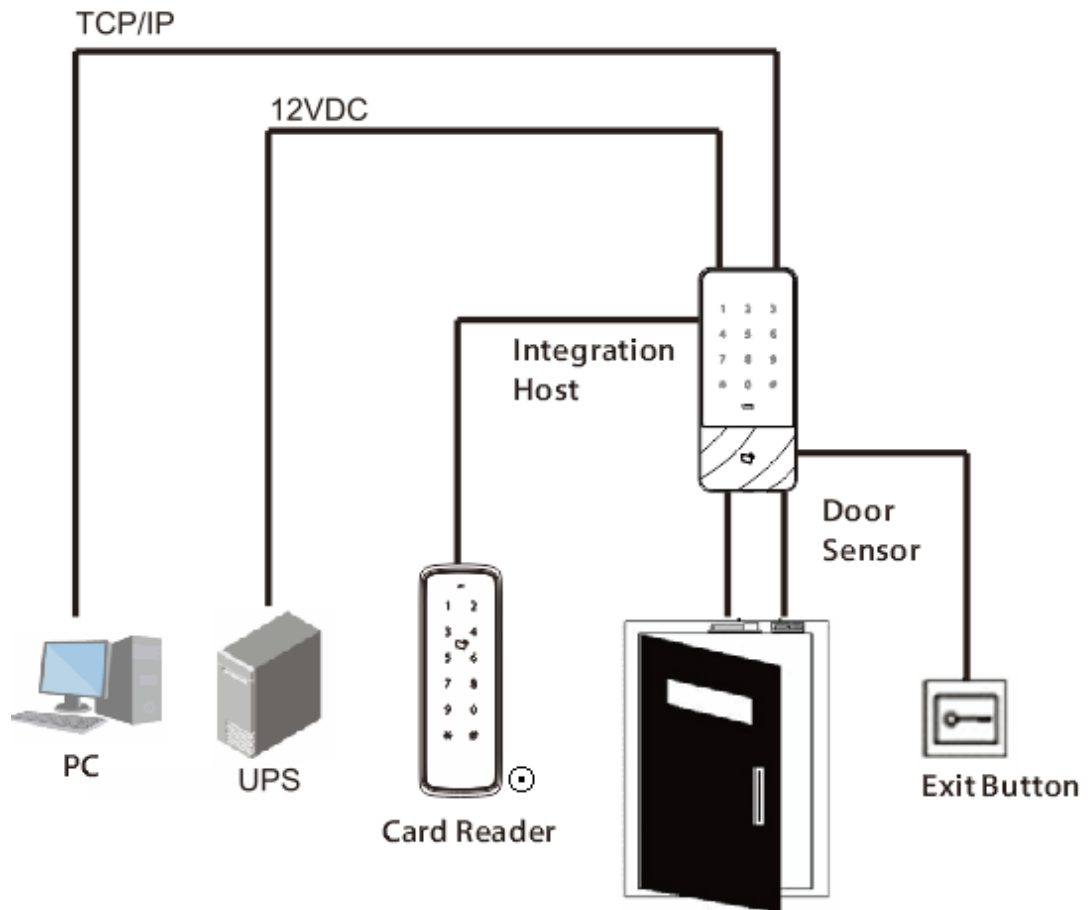
Figure 2-2 Apply silicone



# 3 Network Diagram

The network diagram of a basic access control system is shown below.

Figure 3-1 Network diagram



# 4 Wiring

Figure 4-1 Wiring

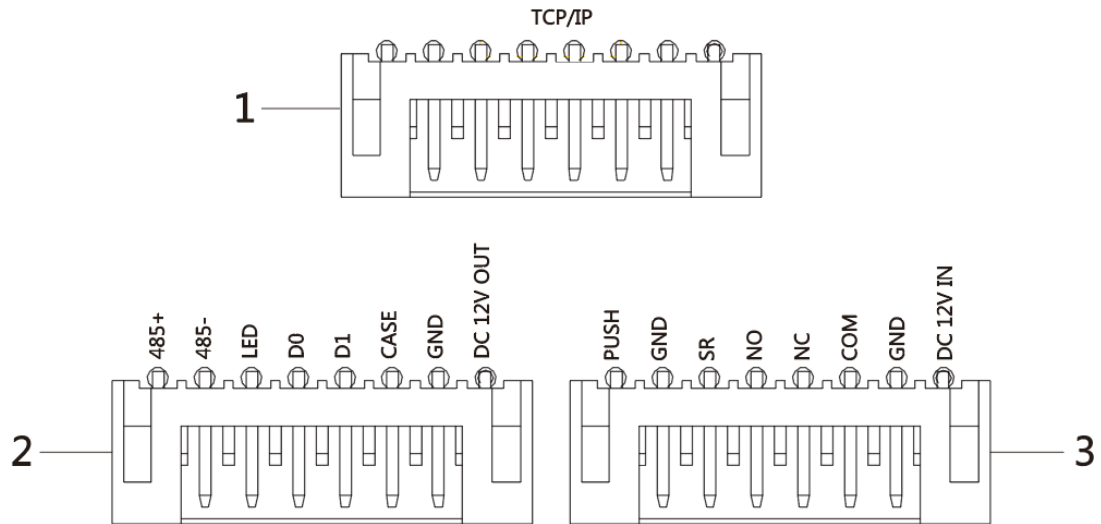


Table 4-1 Wiring description

No.	Port	Description
1	RJ45	TCP/IP ( network port).
2	485+	Connects RS-485 card reader.
	485-	
	LED	Connects the LED wire of the card reader to transmit indicator signals.
	D0	Connects the Wiegand card reader.
	D1	
	CASE	Connects the anti-tampering signals of the card reader.
	GND	Connects grounding wire.
	DC 12V OUT	12VDC power supply of reader.
3	PUSH	Connects the door exit button.
	GND	Connects grounding wire, which is shared by the door detector and the door exit button.
	SR	Connects the door detector.
	NO	Connects the NO port of door lock.
	NC	Connects the NC port of door lock.
	COM	Connects the COM port of door lock.
	GND	Connects the grounding wire.
	12 VDC IN	12 VDC power input.

# 5 Local Configuration

## 5.1 Main Menu

### Procedure

Step 1 Touch the screen to wake up the Access Standalone, and tap #.



Indicator light is solid blue and the numeric keyboard turns on, which means the device is woken up.

Step 2 Enter the admin password, and then tap #.

Step 3 After entering the main menu, you can tap numeric keys to configure parameters.

Table 5-1 Main menu description

Numeric key	Description
0	Modify the admin password.
1	Add users.
2	Delete users.
3	Set unlock modes.
4	Set the hold time of door lock relay.
5	Set the working mode.
6	Enable the door sensor.
9	Restore factory defaults.



- The default admin password is 88888888.
- Indicator light flashes blue, which means that you enter the main menu successfully.
- The indicator is solid red. After the buzzer sounds three times, the indicator light is solid blue, which means that wrong password is entered.
- After configurations, tap \* to go to the previous page.
- On the main menu, tap \*to exit the main menu.

## 5.2 Changing Admin Password

Change the admin password regularly to improve account security.

### Procedure

Step 1 Enter the main menu.

Step 2 tap **0** and #.

Step 3 Enter the new password and tap #.

Step 4 Confirm the new password, and then tap #.



- Indicator light is solid green and the buzzer sounds once, which means that the password is changed successfully.
- Indicator light is solid red and the buzzer sounds three times, which means the password is not changed.

## 5.3 Adding Users

Add a user and associate the user with card.

### Procedure

Step 1 Enter the main menu.

Step 2 tap **1** and **#** to add a user.

- 1) Add user ID: Enter the user ID, and then tap **#**.



If the user ID exists already, it cannot be added.

- 2) Add a card: Swipe a card, and then tap **#**.



If you do not want to add card, tap **#** to skip this step.

- 3) Add password: Enter a password and tap **#**.



- If you do not want to set password, tap **#** to skip this step.
- Set the password if you did not add the card number. If password is not set, the user cannot be added.

Step 3 Repeat Step2 to add more users.

Indicator light is solid green and the buzzer sounds once, which means that the user is added successfully. Indicator light is solid red and the buzzer sounds 3 times, which means user adding failure.



After adding users, the system stays at **Add User** screen. Tap **\*** to return to the main menu.

## 5.4 Deleting Users

Delete users and they will not have permissions to unlock the door.

### Procedure

Step 1 Enter the main menu.

Step 2 tap **2** and **#**.

- Swipe the card and tap **#** to delete the user.
- Enter the user ID and tap **#** to delete the user.
- Enter 0000 and tap **#** to delete all users.



- Indicator light is solid green, and the buzzer sounds once, which means that the user is deleted successfully. Indicator light is solid red, and the buzzer sounds 3 times, which means the user is not successfully added. After deletion, the system stays at the **Delete User** screen. Tap \* to return to the main menu.

## 5.5 Configuring Unlock Modes

Configure door unlocking modes, such as unlocking through card, user ID + password, card + (user ID + password), and card or (user ID + password).

### Procedure

- Step 1 Enter the main menu.
- Step 2 tap **3** and #.
- Step 3 Select unlock mode.

Table 5-2 Select the unlock mode

Unlock Mode	Unlock Method
Card (by default): Tap <b>0</b> and #.	Swipe the card on the card reader to unlock the door.
Card + password: Tap <b>1</b> and #.	Swipe the card, and then enter the password and tap # to unlock the door.
User ID + password: Tap <b>2</b> and #.	Enter the user ID and tap #, and then enter the password and tap # to unlock the door.
Card or (user ID + password): Tap <b>3</b> and #.	Swipe the card to unlock the door, or enter the user ID and tap #, and then enter the password and tap # to unlock the door.

After configurations, the system returns to the main menu automatically. Tap \* to exit the main menu.



The duress password is user ID plus 1. For example, if the user password is 12345, the duress password is 12346. If the user password is 56789, the duress password is 56780. To turn on the duress password function, install and log in to SmartPSS Lite client, and go to **Access Configuration > Access Config**, and enable the duress password. For details, see the user's manual of the SmartPSS Lite. Regardless of unlock modes, if you enter the user ID and the duress password, a duress alarm will be triggered and alarm messages will be sent to the management platform.

## 5.6 Configuring Door Open Duration

The door remains open for a defined duration for people to access before it automatically closes again.

### Procedure

- Step 1 Enter the main menu.
- Step 2 tap **4** and #.
- Step 3 Enter the time (ranging from 1 s to 600 s) and tap #.

After configuration, the system returns to the main menu automatically. tap \* to exit the main menu.

## 5.7 Configuring Working Modes

The Access Standalone has 2 working modes. It can function as an access controller or card reader.

### Procedure

Step 1 Enter the main menu.

Step 2 tap **5** and #.

Step 3 Select the working mode.

- Access controller: Controls access after people verify their identities.  
Tap **0** and #.
- Reader: Only reads card.  
Tap **1** and #.

After configurations, the system returns to the main menu automatically. Tap \* to exit main menu.

## 5.8 Configuring Door Detector

Door detector can monitor door status and trigger an alarm when the door opens abnormally.

### Procedure

Step 1 Enter the main menu.

Step 2 Tap **6** and #.

Step 3 Configure the door detector.

- Disable (default): Tap **0** and #.
- Enable: Tap **1** and #.

After configurations, the system returns to the main menu automatically. Tap \* to exit the main menu.

## 5.9 Restoring to Factory Defaults

### Procedure

Step 1 Enter the main menu.

Step 2 tap **9** and #.

Step 3 Enter **000**, and then tap #.

The Access Standalone will restart automatically.

### Related Operations

If you forgot the administrator password, you can restore the Access Standalone to factory defaults through the following methods;

- Partial restore: Only restore password.  
The Access Standalone sounds once after you power on it, and then tap **\*0\*** in 30 s.
- Complete restore: Restore all settings to factory defaults.  
The Access Standalone sounds once after you power on it, and then tap **\*00000\*** in 30 s.



The indicator is solid green, and the buzzer sounds once, which means the Access Standalone is successfully restored.

The indicator is solid red, and buzzer sounds 3 times, which means the restoration failed.



# 6 Smart PSS Lite Configuration

This section introduces how to manage and configure the Access Standalone through Smart PSS Lite. For details, see the user's manual of Smart PSS Lite.

## 6.1 Installing and Logging In

Install and log in to Smart PSS Lite. For details, see the user manual of Smart PSS Lite.

### Procedure

- Step 1 Get the software package of the Smart PSS Lite from the technical support, and then install and run the software according to instructions.
- Step 2 Initialize Smart PSS Lite when you log in for the first time, including setting password and security questions.



Set the password is for the first-time use, and then set security questions to reset your password when you forgot it.

- Step 3 Enter your username and password to log in to Smart PSS Lite.

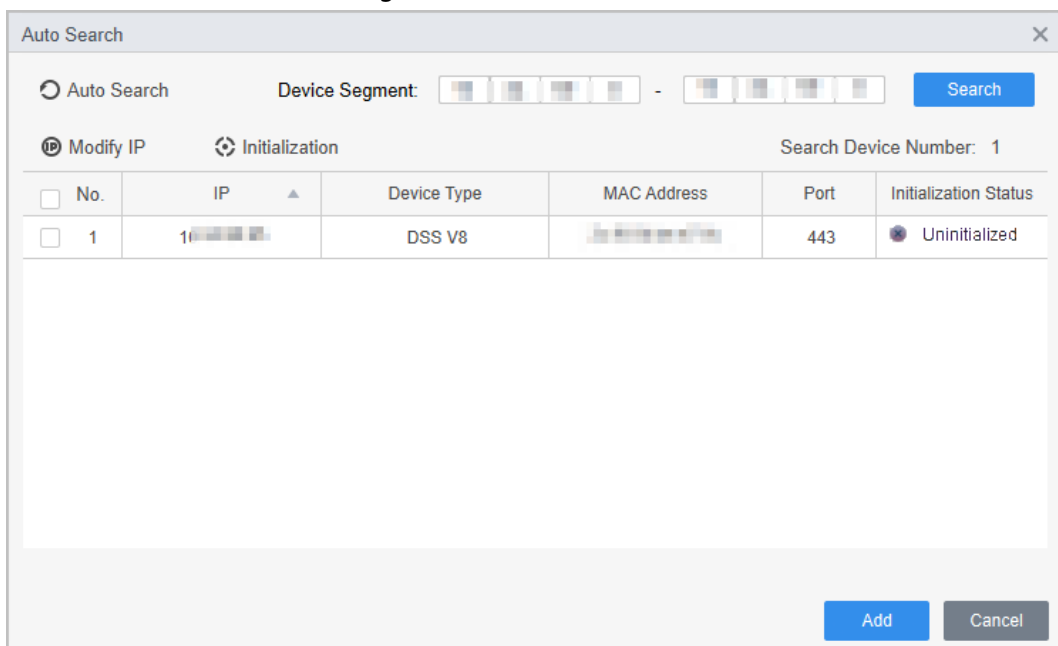
## 6.2 Initialization

You can only initialize devices which are on the same network segment as the computer.

### Procedure

- Step 1 Click **Device Manager > Auto Search**.
- Step 2 Set the range of network segment, and then click **Search**.

Figure 6-1 Device list



- Step 3 Select the uninitialized device, and then click **Initialization**.

**Step 4** Set password, and then click **Next**.

Figure 6-2 Set password

The screenshot shows a configuration window titled "Set password" with a close button (X) in the top right corner. At the top, there is a progress bar with three steps: "1. Set a password." (highlighted in blue), "2. Password security.", and "3. Modify IP address.". The main area contains the following fields and text:

- User Name: admin
- Password: \* [password field with 10 dots and a strength indicator bar below it]
- Confirm Password: \* [password field with 10 dots]

Below the fields, the text reads: "Please input 8~32 bytes from letters or numbers or symbols." At the bottom right, there are two buttons: "Next" (with a right arrow) and "Cancel".

**Step 5** Enter email address for password resetting.

Figure 6-3 Reserve email address

The screenshot shows a configuration window titled "Reserve email address" with a close button (X) in the top right corner. At the top, there is a progress bar with three steps: "1. Set a password.", "2. Password security." (highlighted in blue), and "3. Modify IP address.". The main area contains the following elements:

- A radio button labeled "Email" is selected.
- Bind Email Address: \* [text field containing "Reset Password"]

At the bottom, there are three buttons: "Back", "Next" (with a right arrow), and "Cancel".

**Step 6** Enter new IP address, subnet mask and gateway, and then click **Finish**. If they are not entered, the three parameters will be the default values.

Figure 6-4 Modify IP address

1. Set a password. > 2. Password security. > 3. Modify IP address.

New IP:

Subnet Mask:

Gateway:

Back Finish Cancel

## 6.3 Adding Devices

You need to add the Access Standalone to Smart PSS Lite. You can add them in batches or individually.

### 6.3.1 Adding One By One

You can add Access Standalone one by one through entering their IP addresses or domain names.

#### Procedure

- Step 1 Log in to Smart PSS Lite.
- Step 2 Click **Device Manager** and click **Add**.
- Step 3 Enter the device information.

Figure 6-5 Device information

Table 6-1 Device parameters Description

Parameter	Description
Device Name	Enter a name of the Access Standalone. We recommend you name it after its installation area.
Method to add	Select <b>IP</b> to add the Access Terminal by entering its IP Address.
IP	Enter IP address of the Access Standalone.
Port	The port number is 37777 by default.
User Name/Password	Enter the username and password of the Access Terminal.

**Step 4** Click **Add**.

The added Access Standalone displays on the **Devices** page. You can click **Add and Continue** to add more Access Standalones.

## 6.3.2 Adding in Batches

We recommend you use the auto-search function when you add want to Access Standalones in batches. Make sure the Access Standalones you add must be on the same network segment.

### Procedure

**Step 1** Log in to Smart PSS Lite.

**Step 2** Click **Device Manager** and search for devices.

- Click **Auto Search**, to search for devices on the same LAN.
- Enter the network segment range, and then click **Search**.

Figure 6-6 Auto search

No.	IP	Device Type	MAC Address	Port	Initialization Status
1	10.34.36.35	DSS V8	[redacted]c	443	Initialized

**Step 3** Select the Access Standalone that you want to add to Smart PSS Lite, and then click **Add**.

**Step 4** Enter the username and the password of the Access Standalone.  
You can view the added Access Standalone on the **Devices** page.



The Access Standalone automatically logs in to Smart PSS Lite after being added. **Online** is displayed after successful login.

## 6.4 User Management

Add users, assign cards to them, and configure their access permissions.

### 6.4.1 Configuring Card Type

Set the card type before you assign cards to users. For example, if the assigned card is an ID card, set card type to ID card.

#### Procedure

- Step 1** Log in to Smart PSS Lite.
- Step 2** Click **Access Solution > Personnel Manager > User**.
- Step 3** On the **Card Issuing Type** and then select a card type.



Make sure that the card type is same to the actually assigned card; otherwise, the card number cannot be read.

- Step 4** Click **OK**.

## 6.4.2 Adding Users

### 6.4.2.1 Adding One by One


You can add users One by One.

#### Procedure

- Step 1 Log in to Smart PSS Lite.
- Step 2 Click **Access Solution > Personnel Manger > User > Add**.
- Step 3 Click **Basic Info** tab, and enter the basic information of the user, and then import the face image.

Figure 6-7 Add basic information

The screenshot shows a web-based form for adding a user. At the top, there are three tabs: 'Basic Info', 'Certification', and 'Permission configuration'. The 'Basic Info' tab is selected. The form is organized into two main sections. The top section contains fields for 'User ID', 'Name', 'Department' (a dropdown menu set to 'Default Company'), 'User Type' (a dropdown menu set to 'General'), 'Valid Time' (two date-time pickers showing '2022/6/9 0:00:00' and '2032/6/9 23:59:59' with a '3654 Days' label), and 'Number of use' (a dropdown menu set to 'Limitless'). To the right of these fields is a large area for a face image, featuring a 'Next' button, a 'Take Snapshot' button, an 'Upload Picture' button, and the text 'Image Size: 0 ~ 100KB'. Below this is a 'Details' section with a scrollable area. It includes 'Gender' (radio buttons for 'Male' and 'Female'), 'ID Type' (a dropdown menu set to 'ID'), 'Title' (a dropdown menu set to 'Mr'), 'ID No.', 'DOB' (a date picker set to '1985/3/15'), 'Company', 'Occupation', 'Tel', 'Email', 'Mailing Address', 'Entry Time' (a date-time picker set to '2022/6/8 20:18:31'), 'Resign Time' (a date-time picker set to '2031/6/9 20:18:31'), 'Administrator' (a toggle switch), and a 'Remark' text area. At the bottom right of the form are three buttons: 'Continue', 'Finish', and 'Cancel'.

- Step 4 Click the **Certification** tab to add certification information of the user.
  - Configure password: The password must consist of 6–8 digits.
  - Configure card: The card number can be read automatically or entered manually. To read the card number automatically, select a card reader, and then place the card on the card reader.
    1. On the **Card** area, click  and select **Card issuer**, and then click **OK**.


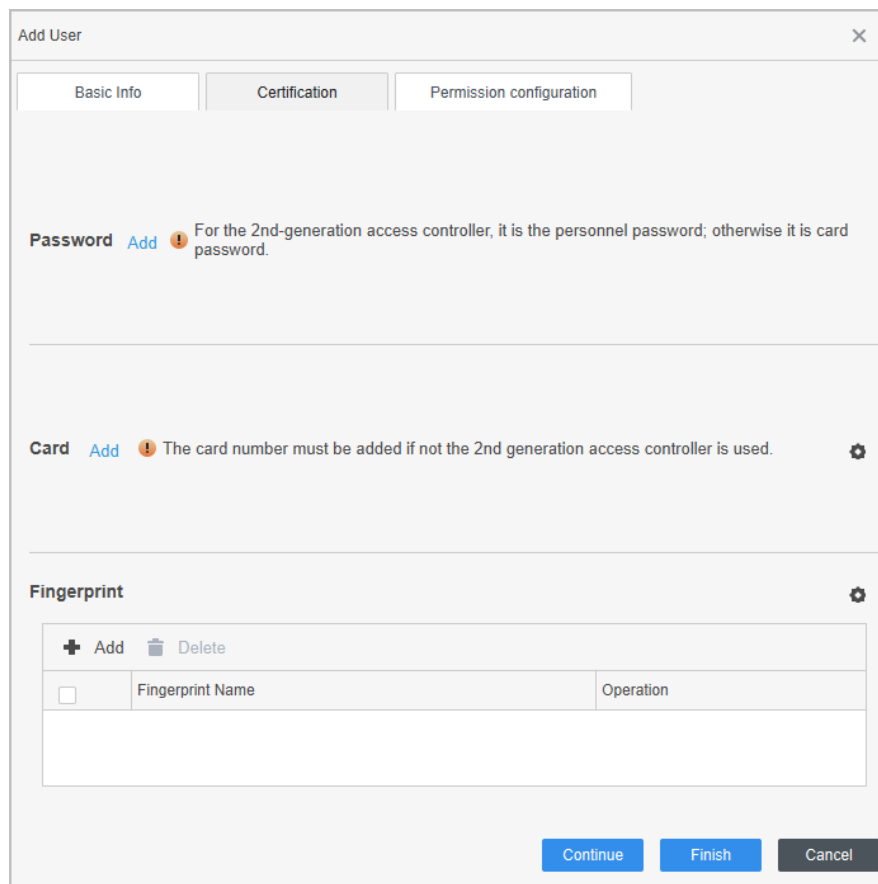
2. Click **Add**, swipe a card on the card reader. The card number is displayed.
  3. Click **OK**.  
After adding a card, you can set the card to main card or duress card, or replace the card with a new one, or delete the card.
- Configure fingerprint.
    1. On the **Fingerprint** area, click  and select **Fingerprint Scanner**, and then click **OK**.
    2. Click **Add Fingerprint**, press your finger on the scanner three times in a row.

Figure 6-8 Add password, card, and fingerprint



The screenshot shows the 'Add User' configuration window. It has three tabs: 'Basic Info', 'Certification', and 'Permission configuration'. The 'Basic Info' tab is selected. The window contains the following elements:

- Password:** A section with an 'Add' button and a warning icon. A tooltip reads: "For the 2nd-generation access controller, it is the personnel password; otherwise it is card password."
- Card:** A section with an 'Add' button and a warning icon. A tooltip reads: "The card number must be added if not the 2nd generation access controller is used."
- Fingerprint:** A section with an 'Add' button and a warning icon. Below it is a table with columns for 'Fingerprint Name' and 'Operation'. The table is currently empty.

At the bottom of the window are three buttons: 'Continue', 'Finish', and 'Cancel'.

Step 5 Configure permissions for the user. For details, see "6.4.3 Assigning Access Permission".

Step 6 Click **Finish**.

## 6.4.2.2 Adding in Batches

You can add users in batches.

### Procedure

Step 1 Log in to Smart PSS Lite.

Step 2 Click **Personnel Manger** > **User** > **Batch Add**.

Step 3 Select **Card issuer** from the **Device** list, and then configure the parameters.

Figure 6-9 Add users in batches

The screenshot shows a dialog box for adding users in batches. It includes the following fields and controls:

- Device:** A dropdown menu set to "Card issuer" and an "Issue" button.
- Start No.:** A text input field containing "\* 1".
- Quantity:** A text input field containing "\* 30".
- Department:** A dropdown menu set to "Default Company".
- Effective Time:** A date and time picker set to "2022/4/1 0:00:00".
- Expired Time:** A date and time picker set to "2032/4/1 23:59:59".
- Issue Card:** A table with 11 rows. The first column is labeled "ID" and the second is "Card No.". The rows are numbered 1 through 11.
- Buttons:** "OK" and "Cancel" buttons at the bottom right.

Table 6-2 Add users in batches parameters

Parameter	Description
Start No.	The user ID starts with the number you defined.
Quantity	The number of users you want to add.
Department	Select the department that the user belongs to.
Effective Time/Expired Time	The users can unlock the door within the defined period.

**Step 4** Click **Issue**.

The card number will be read automatically.

**Step 5** Click **OK**.

**Step 6** On the **User** page, click  to complete user information.

### 6.4.3 Assigning Access Permission

Create a permission group that is a collection of door access permissions, and then associate users



with the group so that users can unlock corresponding doors.

## Procedure

- Step 1 Log in to the Smart PSS Lite.
- Step 2 Click **Access SOLUTION > Personnel Manger > Permission configuration.**
- Step 3 Click + .
- Step 4 Enter the group name, remarks (optional), and select a time template.
- Step 5 Select the access control device.
- Step 6 Click **OK.**

Figure 6-10 Create a permission group


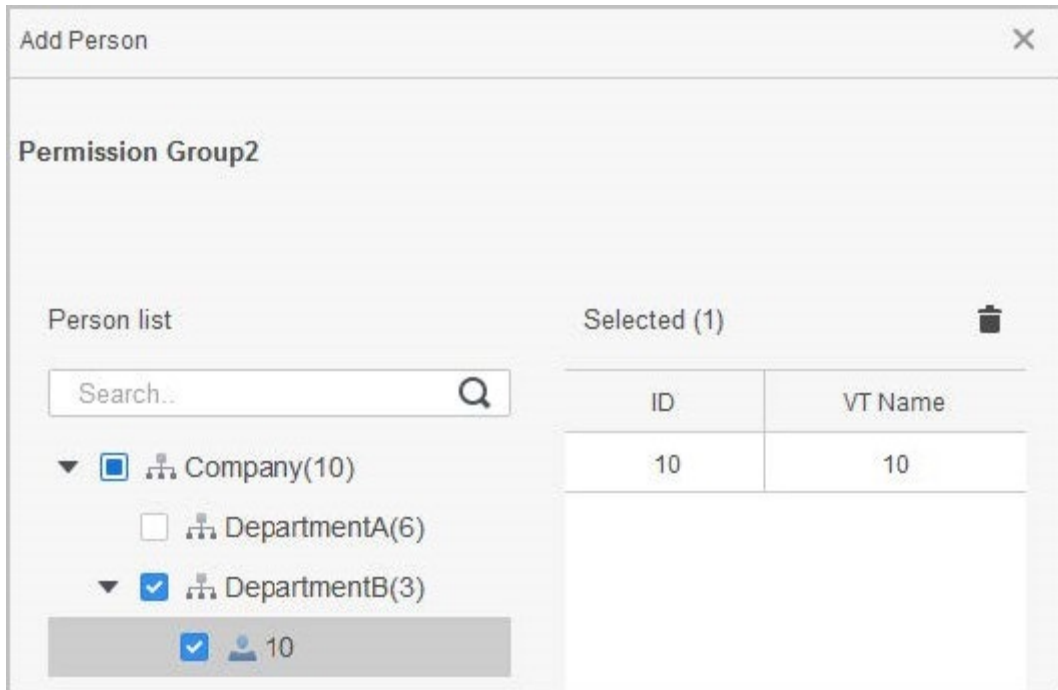
- Step 7 Click  of the permission group you added.
- Step 8 Select users to associate them with the permission group.

Figure 6-11 Add users to a permission group



- Step 9** Click **OK**.  
Users in the permission group can unlock the door after valid identity verification.

## 6.5 Access Management

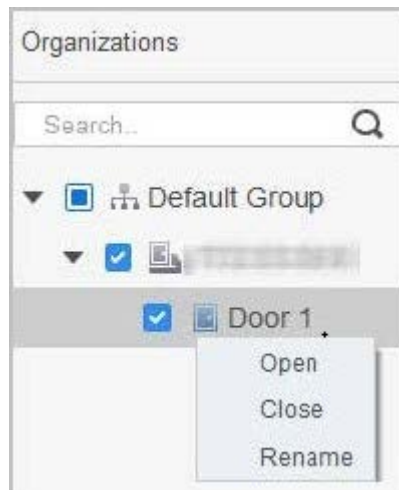
### 6.5.1 Remotely Opening and Closing Door

You can remotely monitor and control door through Smart PSS Lite. For example, you can remotely open or close the door.

#### Procedure




- Step 1** Click **Access Solution > Access Manager** on the Home page.
- Step 2** Remotely control the door.
- Select the door, right click and select **Open** or **Close**.

Figure 6-12 Open door



- Click or to open or close the door.

## Related Operations

- Event filtering: Select the event type in the **Event Info**, and the event list displays the selected event type, such as alarm events and abnormal events.
- Event refresh locking: Click  to lock the event list, and then event list will stop refreshing. Click  to unlock.
- Event deleting: Click  to clear all events in the event list.

## 6.5.2 Setting Always Open and Always Close

After setting always open or always close, the door remains open or closed all the time.

### Procedure

- Step 1 Click **Access Solution > Access Manager** on the Home page.
- Step 2 Click **Always Open** or **Always Close** to open or close the door.

Figure 6-13 Always open or close



The door will remain open or closed all the time. You can click **Normal** to restore the access control to normal status, and then the door will be open or closed based on the configured verification methods.

## 6.5.3 Monitoring Door Status

### Procedure

- Step 1 Click **Access Solution > Access Manager** on the home page.
- Step 2 Select the Access Standalone in the device tree, and right click the Access Controller and then select **Start Real-time Event Monitoring**.  
Real-time access control events will display in the event list.



Click **Stop Monitor**, real-time access control events will not display.

Figure 6-14 Monitor door status

Time	Event	Description
2022-04-08 17:37:36	111/Door 1	Door is locked
2022-04-08 17:37:33	111/Door 1	E731FC4A Card Unlock
2022-04-08 17:37:33	111/Door 1	Door is unlocked
2022-04-07 11:11:50	111	Tamper Alarm

Event Configuration

IP: 192.168.243.108  
Device Type: Access Standalone  
Device Model: HANSA...  
Status: Online

## Related Operations

- Show All Door: Displays all doors controlled by the Access Standalone.
- Reboot: Restart the Access Standalone.
- Details: View the device details, such as IP address, model, and status.

# Appendix 1 Cybersecurity Recommendations

## **Mandatory actions to be taken for basic device network security:**

### **1. Use Strong Passwords**

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters.
- Include at least two types of characters; character types include upper and lower case letters, numbers and symbols.
- Do not contain the account name or the account name in reverse order.
- Do not use continuous characters, such as 123, abc, etc.
- Do not use overlapped characters, such as 111, aaa, etc.

### **2. Update Firmware and Client Software in Time**

- According to the standard procedure in Tech-industry, we recommend to keep your device (such as NVR, DVR, IP camera, etc.) firmware up-to-date to ensure the system is equipped with the latest security patches and fixes. When the device is connected to the public network, it is recommended to enable the “auto-check for updates” function to obtain timely information of firmware updates released by the manufacturer.
- We suggest that you download and use the latest version of client software.

## **"Nice to have" recommendations to improve your device network security:**

### **1. Physical Protection**

We suggest that you perform physical protection to device, especially storage devices. For example, place the device in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware, unauthorized connection of removable device (such as USB flash disk, serial port), etc.

### **2. Change Passwords Regularly**

We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

### **3. Set and Update Passwords Reset Information Timely**

The device supports password reset function. Please set up related information for password reset in time, including the end user’s mailbox and password protection questions. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

### **4. Enable Account Lock**

The account lock feature is enabled by default, and we recommend you to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.

### **5. Change Default HTTP and Other Service Ports**

We suggest you to change default HTTP and other service ports into any set of numbers between 1024–65535, reducing the risk of outsiders being able to guess which ports you are using.

### **6. Enable HTTPS**

We suggest you to enable HTTPS, so that you visit Web service through a secure communication channel.

### **7. MAC Address Binding**

We recommend you to bind the IP and MAC address of the gateway to the device, thus reducing the risk of ARP spoofing.

### **8. Assign Accounts and Privileges Reasonably**

According to business and management requirements, reasonably add users and assign a

minimum set of permissions to them.

#### 9. **Disable Unnecessary Services and Choose Secure Modes**

If not needed, it is recommended to turn off some services such as SNMP, SMTP, UPnP, etc., to reduce risks.

If necessary, it is highly recommended that you use safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption passwords and authentication passwords.
- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up strong passwords.
- AP hotspot: Choose WPA2-PSK encryption mode, and set up strong passwords.

#### 10. **Audio and Video Encrypted Transmission**

If your audio and video data contents are very important or sensitive, we recommend that you use encrypted transmission function, to reduce the risk of audio and video data being stolen during transmission.

Reminder: encrypted transmission will cause some loss in transmission efficiency.

#### 11. **Secure Auditing**

- Check online users: we suggest that you check online users regularly to see if the device is logged in without authorization.
- Check device log: By viewing the logs, you can know the IP addresses that were used to log in to your devices and their key operations.

#### 12. **Network Log**

Due to the limited storage capacity of the device, the stored log is limited. If you need to save the log for a long time, it is recommended that you enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

#### 13. **Construct a Safe Network Environment**

In order to better ensure the safety of device and reduce potential cyber risks, we recommend:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network.
- The network should be partitioned and isolated according to the actual network needs. If there are no communication requirements between two sub networks, it is suggested to use VLAN, network GAP and other technologies to partition the network, so as to achieve the network isolation effect.
- Establish the 802.1x access authentication system to reduce the risk of unauthorized access to private networks.
- Enable IP/MAC address filtering function to limit the range of hosts allowed to access the device.