

Access Controller

Quick Start Guide



ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD. V1.0.4



Foreword

General

This manual introduces the wiring, installation and basic operations of the Access Controller. 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	
ANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.	
	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.	
	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.	
ESD ESD	Electrostatic Sensitive Devices. Indicates a device that is sensitive to electrostatic discharge.	
ELECTRIC SHOCK Indicates dangerous high voltage. Take care to avoid coming into contact with electricity.		
	Indicates a laser radiation hazard. Take care to avoid exposure to a laser beam.	
©— TIPS	Provides methods to help you solve a problem or save time.	
NOTE	Provides additional information as a supplement to the text.	

Revision History

Version	Revision Content	Release Time
V1.0.4	Updated password unlock and wiring.	November 2023
V1.0.3	Updated adding users and configuring permissions.	June 2023
V1.0.2	Updated the description on adding users.	April 2023
V1.0.1	Updated the wiring and the unlock methods.	March 2023
V1.0.0	First release.	September 2022

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Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, audio, 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 Controller, hazard prevention, and prevention of property damage. Read carefully before using the Access Controller, and comply with the guidelines when using it.

Transportation Requirement



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

Storage Requirement



Store the Access Controller under allowed humidity and temperature conditions.

Installation Requirements



- Do not connect the power adapter to the Access Controller 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 Controller to two or more kinds of power supplies, to avoid damage to the Access Controller.
- Improper use of the battery might result in a fire or explosion.
- Please follow the electrical requirements to power the Access Controller.
 - ◇ Following are the requirements for selecting a power adapter.
 - The power supply must conform to the requirements of IEC 60950-1 and IEC 62368-1 standards.
 - The voltage must meet the SELV (Safety Extra Low Voltage) requirements and not exceed ES-1 standards.
 - When the power of the device does not exceed 100 W, the power supply must meet LPS requirements and be no higher than PS2.
 - We recommend using the power adapter provided with the Access Controller.
 - When selecting the power adapter, the power supply requirements (such as rated voltage) are subject to the Access Controller label.



- 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 Controller in a place exposed to sunlight or near heat sources.
- Keep the Access Controller away from dampness, dust, and soot.
- Install the Access Controller on a stable surface to prevent it from falling.
- Install the Access Controller 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 Access Controller is a class I electrical appliance. Make sure that the power supply of the Access Controller is connected to a power socket with protective earthing.

Operation Requirements



- Check whether the power supply is correct before use.
- Ground the device to protective ground before you power it on.
- Do not unplug the power cord on the side of the Access Controller while the adapter is powered on.
- Operate the Access Controller within the rated range of power input and output.
- Use the Access Controller under allowed humidity and temperature conditions.
- Do not drop or splash liquid onto the Access Controller, and make sure that there is no object filled with liquid on the Access Controller to prevent liquid from flowing into it.
- Do not disassemble the Access Controller without professional instruction.
- This product is professional equipment.
- The Access Controller is not suitable for use in locations where children are likely to be present.



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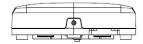
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1 Dimensions and Appearance

Figure 1-1 Dimensions (mm [inch])



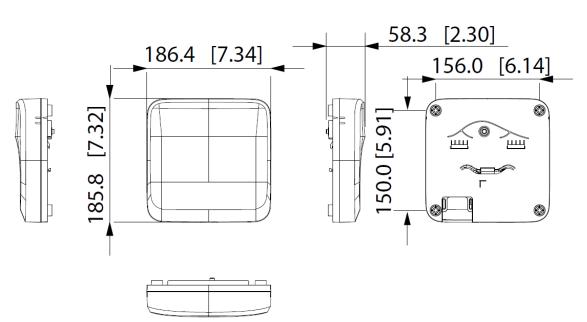
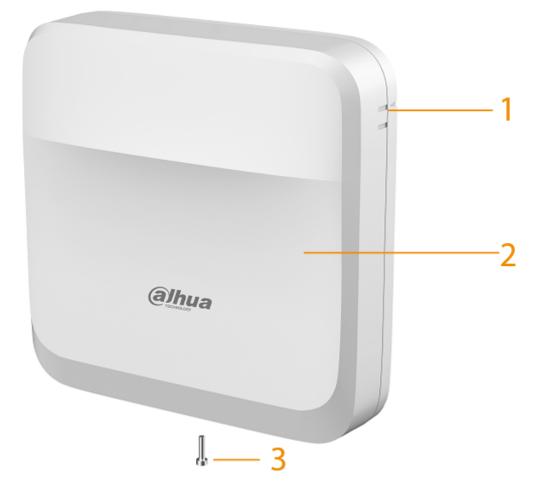




Figure 1-2 Front view



No.	Description
1	Guiding mark
2	Front panel
3	Screw





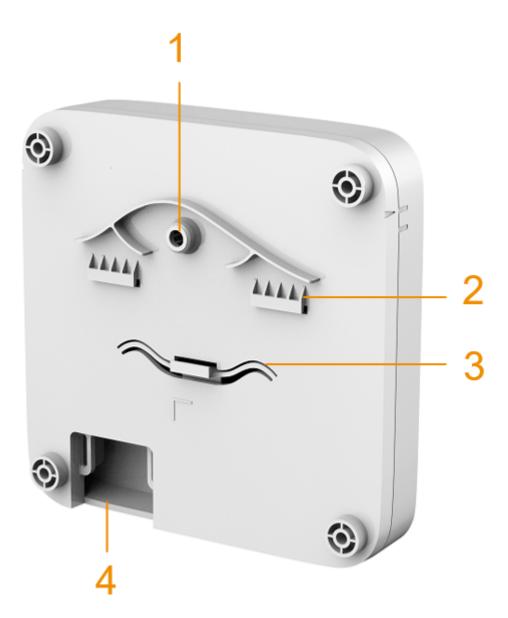


Table 1-2 Back cover description

No.	Description
1	Tamper alarm switch
2	Upper DIN clip
3	Lower DIN clip
4	Wiring outlet



2 Ports Overview

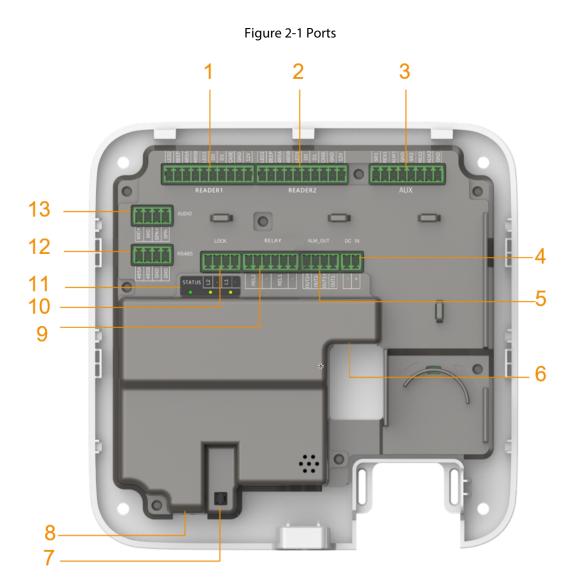


Table 2-1 Ports description

No.	Name	Description
1	READER1	Reader connector
2	READER2	Reader connector
3	AUX	Auxiliary connector (including door detector, door exit button, and alarm input)
4	DC IN	Power connector
5	ALM_OUT	Alarm output connector
6	RJ45	Network connector (PoE)
7	—	Tampering alarm switch
8	—	Reset button
9	RELAY	Relay connector



No.	Name	Description
10	LOCK	Power lock connector
11	STATUS	LED indicator
12	RS485	RS485 connector (not used)
13	AUDIO	Audio connector (not used)

Figure 2-2 Reader connector

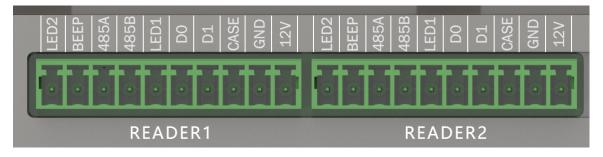


Table 2-2 Reader connector description

Port	Description	
12 V	Supplies 12 VDC power for the reader.	
GND	Connects the grounding wire.	
CASE	Connects the reader tampering alarm.	
D1	- Connects a Wiegand reader.	
D0		
LED1	Signal response. Connects to the signal wire of the Wiegand reader.	
RS485B	- Connects a RS-485 reader.	
RS485A		
BEEP	Reserved port	
LED2	Reserved port	

Figure 2-3 LED indicator



Table 2-3 Description of LED indicator ports

Port	Port Name	Indicator color	Status
STATUS	Power indicator	Solid green	Working normally.
		Solid red	The system starts .
		Blue light flashes	System is updating.



Port	Port Name	Indicator color	Status
L2	Lock 2 indicator	Solid yellow and green	Lock open
		Solid red	Lock closed
L1	Lock 1 indicator	Solid yellow and green	Lock open

Figure 2-4 Auxiliary I/O ports

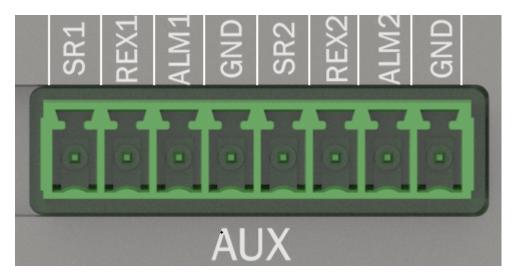


Table 2-4 Description of auxiliary I/O ports

Ports	Description
SR1	Door detector for door 1
REX1	Exit button for door 1
ALM1	Alarm input 1
GND	Grounding wire
SR2	Door detector for door 2
REX2	Exit button for door 2
ALM2	Alarm input 2
GND	Grounding wire



Figure 2-5 Power ports

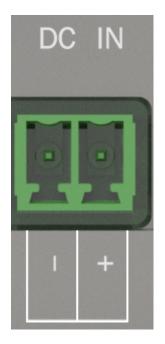


Table 2-5 Description of power ports

Ports	Description
-	Grounding wire
+	12 VDC. For powering the Access Controller when not using Power over Ethernet.

Figure 2-6 Alarm output ports

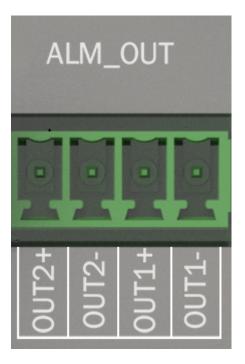




Table 2-6 Description of alarm output ports

Ports	Description
OUT2+	Alarm output 2
OUT2-	- Alarm output 2
OUT1+	Alarm output 1
OUT1-	

Figure 2-7 Relay ports

	RE	LAY	
REL2	1	REL1	

Table 2-7 Description of relay ports

Ports	Description
REL1	Connects to relay devices. Max voltage = +12 VDC; Max load = 500 mA \square
REL2	Connect locks to the pins according to the wiring diagram generated through the hardware configuration. For details, see "3 Wiring of Locks".
-	Grounding wire.



Figure 2-8 Lock ports



Table 2-8 Description of lock

Ports	Description
L1/L2	Power one or two locks (DC output). The lock connector can also be used to power external devices.
	Connects to lock (12 VDC and Max total load = 1000 mA). \square
REL2	 Controls up to 12 V lock. Connects locks and loads to the pins according to the wiring diagram generated through the hardware configuration. For details, see "3 Wiring of Locks".
-	Grounding wire.

Figure 2-9 RS-485 ports

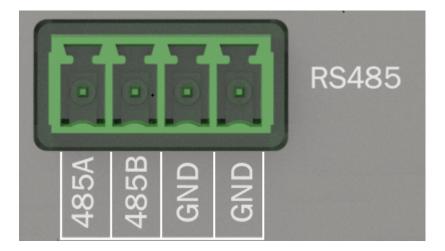




Table 2-9 Description of RS-485

Ports	Description
485A/485B	Reserved port. Not used.
GND	Grounding wire.

Figure 2-10 Audio ports

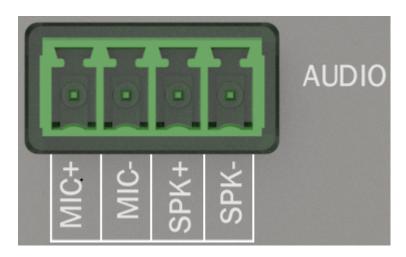


Table 2-10 Description of audio ports

Ports	Description
MIC+	Reserved port. Not used.
MIC-	Grounding wire.
SPK+	Reserved port. Not used.
SPK-	Grounding wire.



3 Wiring of Locks

This section uses lock wiring of two-door solution as an example. The wiring of lock might differ depending on the lock type that you configured.

- Configure lock for **Relay**.
 - ◇ Relay Open = Unlocked: Set the lock to unlock when the relay is open.
 - ◇ Relay Open = Locked: Set the lock to remain locked when the relay is open.
- Configure lock for **12V**.
 - ◇ Fail Secure: Sets the lock to remain locked during power outages.
 - ◇ Fail Safe: Sets the lock to unlock during power outages.

3.1 Wiring of Magnetic Locks

3.1.1 Wiring of Dual Magnetic Locks with PoE (12 V and Relay)

Supplies power for the Access Controller over the same Ethernet cable. One door uses the external power supply, and the other uses the Access Controller to supply power.

1. Select **Relay Open = Unlocked** from the **Relay** list for lock 1 (door 1).

Power Supply of Locks			
○ 12V	Fail Secure	\sim	0
Relay	Relay Open = Unlocked		0

Figure 3-1 Lock 1 (door 1)

Figure 3-2 Lock 2 (door 2)

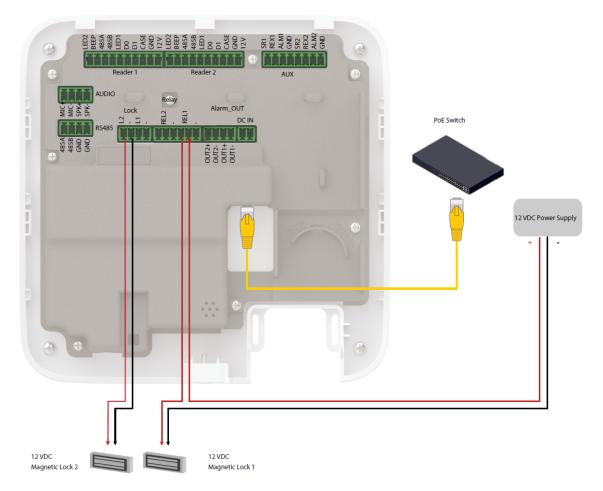
Power Supply	of Locks			
	12V	Fail Safe	\sim	0
	O Relay	Relay Open = Locked	\sim	0

3. Wire the locks according to the diagram below.

2. Select Fail Safe from the 12V list for lock 2 (door 2).







3.1.2 Wiring of Dual Magnetic Locks with 12 V External Power Supply (12 V and Relay)

Supply power for the Access Controller through 12 V external power supply. One door uses the external power supply, and the other uses the Access Controller to supply power.

1. Select **Relay Open = Unlocked** from the **Relay** list for lock 1 (door 1).

Figure 3-4 Lock 1 (door 1)

Power Supply of Locks			
○ 12V	Fail Secure	\vee	0
Relay	Relay Open = Unlocked	~	0

2. Select Fail Safe from the 12V list for door 2.

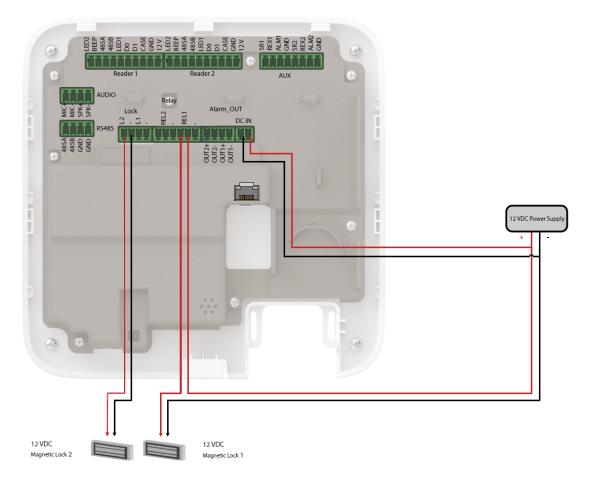


Figure 3-5 Lock 2 (door 2)



3. Wire the locks according to the diagram below.

Figure 3-6 Wiring of locks



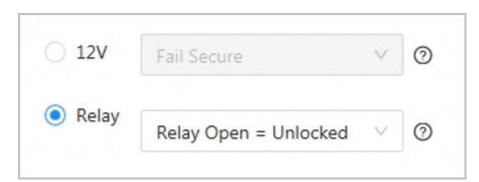
3.1.3 Wiring of Dual Magnetic Locks with 12 V External Power Supply (Relay)

Supply power for the Access Controller through 12 V external power supply. Both doors use the external power supply.

1. Select **Relay Open = Unlocked** from the **Relay** for lock 1 (door 1).



Figure 3-7 Lock 1 (door 1)



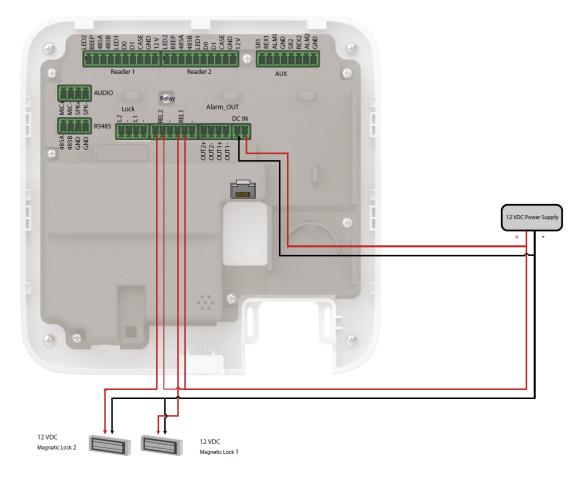
2. Select **Relay Open = Unlocked** from the **Relay** list for lock 2 (door 2).

Figure 3-8 Lock 2 (door 2)

○ 12V	Fail Secure	\sim	0
Relay	Relay Open = Unlocked	\sim	0

3. Wire the locks according to the diagram below.

Figure 3-9 Wiring of locks





3.1.4 Wiring of 2-in-1 Magnetic Lock with 12 V External Power Supply (Relay)

Supply power for the Access Controller through 12 V external power supply. Both doors use the external power supply.

1. Select **Relay Open = Unlocked** from the **Relay** for lock 1 (door 1).

Figure 3-10 Lock 1 (door 1)



2. Select **Relay Open = Unlocked** from the **Relay** list for lock 2 (door 2).

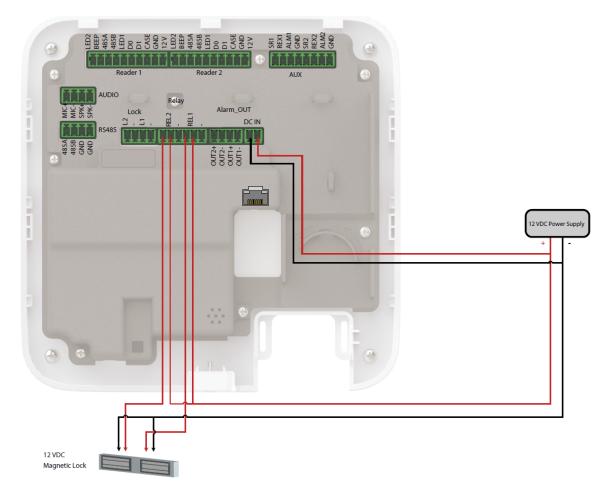
Figure 3-11 Lock 2 (door 2)

○ 12V	Fail Secure	\vee	0
Relay	Relay Open = Unlocked	\vee	0

3. Wire the locks according to the diagram below.



Figure 3-12 Wiring of locks



3.2 Wiring of Electric Strike Lock

3.2.1 Wiring of Dual Electric Strikes with PoE

Supplies power for the Access Controller over the same Ethernet cable. and the Access Controller supplies power for both locks.

1. Select Fail Secure from the 12V list for lock 1 (door 1).

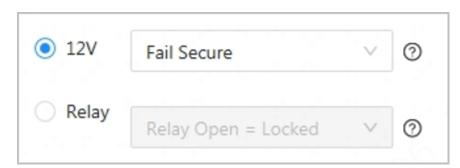
Figure 3-13 Lock 1 (door 1)

the second se			٦
12V	Fail Secure	\vee	0
Relay			
Kelay	Relay Open = Locked	\sim	0

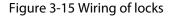
2. Select Fail Secure from the 12V list for lock 2 (door 2).

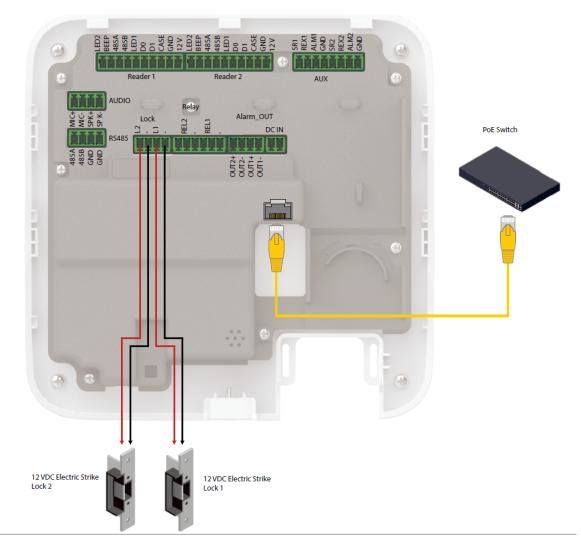


Figure 3-14 Lock 2 (door 2)



3. Wire the locks according to the diagram below.





3.2.2 Wiring of Dual Electric Strikes with 12 V External Power Supply

Supply power for the Access Controller through 12 V external power supply, and the Access Controller supplies power for the both locks.

1. Select Fail Secure from the 12V list for lock 1 (door 1).



Figure 3-16 Lock 1 (door 1)

● 12V	Fail Secure	V	0
O Relay	Relay Open = Locked		

2. Select **Fail Secure** from the **12V** list for door 2.

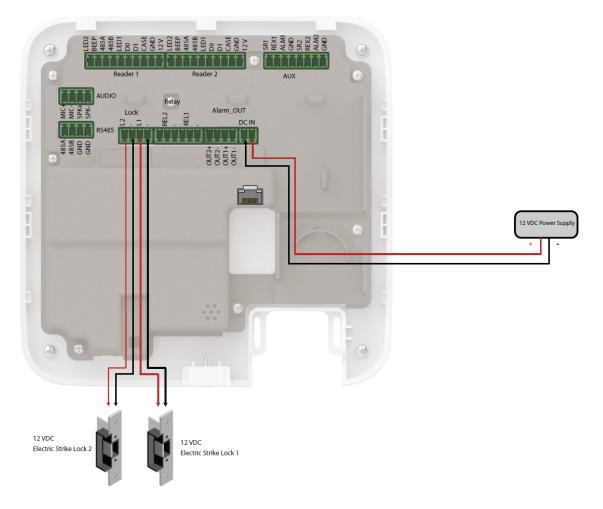
Figure 3-17 Lock 2 (door 2)

● 12V	Fail Secure	V	0
Relay	Relay Open = Locked		

3. Wire the locks according to the diagram below.



Figure 3-18 Wiring of locks





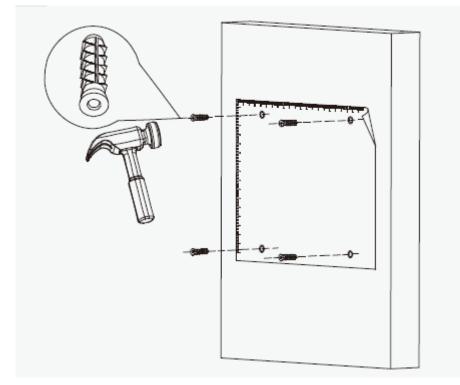
4 Installation

4.1 Wall Mount

Procedure

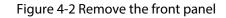
- <u>Step 1</u> Paste the positioning map to the wall at an appropriate position.
- <u>Step 2</u> Drill holes through the marks on the map.
- <u>Step 3</u> Hammer in the expansion tubes, and then remove the map.

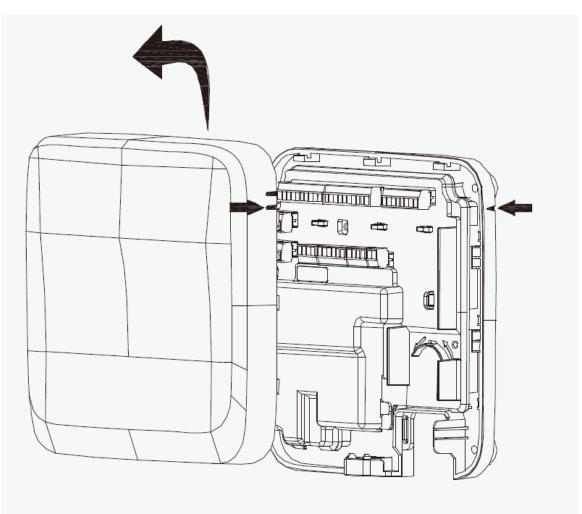
Figure 4-1 Hammer in the expansion tubes



<u>Step 4</u> Slide up the front panel of the Access Controller and remove the panel.







- <u>Step 5</u> Attach the back panel of the Access Controller to the wall with self-tapping screws.
- <u>Step 6</u> Wire the Access Controller, bind the wires with nylon cable ties, and then cut off the excess part of the ties.
- <u>Step 7</u> Align the marks on the front panel with the marks on the back panel, and then slide down the front panel to cover the Access Controller.
- <u>Step 8</u> Screw a screw into the bottom of the Access Controller to secure it.



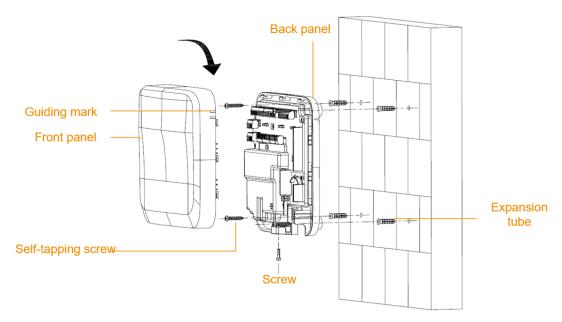
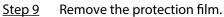


Figure 4-3 Mount the Access Controller to the wall



4.2 DIN Rail Mount

Procedure

<u>Step 1</u> Attach the DIN rail to the wall with screws.

 \square

The DIN rail does not come with the Access Controller.

<u>Step 2</u> Hook the lower DIN clip of the back panel onto the bottom of the DIN rail, slightly push upwards the back panel, and then push the back panel backwards to hook the upper DIN clip onto the top of the DIN rail.

Make sure the clips "grip" the rail on both the top and bottom of the rail.

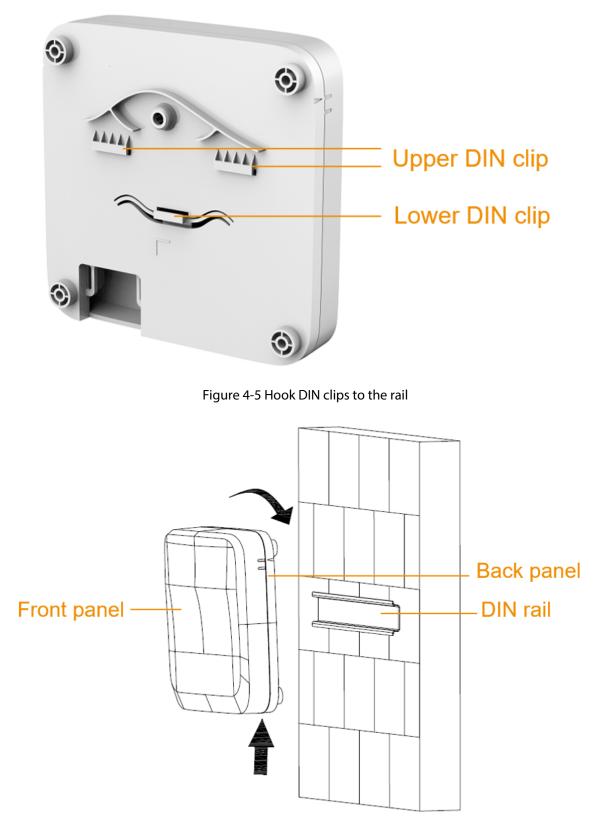
 \square

If you want to remove the Access Controller from the rail, simply push upwards on the DIN clip, remove the upper clip off the rail, and then lower the back panel to remove the lower clip off the rail. No screwdrivers or special tools are required.





Figure 4-4 DIN clips



- <u>Step 3</u> Slide up the front panel of the Access Controller to remove the cover.
- <u>Step 4</u> Wire the Access Controller, bind the wires with nylon cable ties, and then cut off the excessive part of the ties.



<u>Step 5</u> Align the marks on the front panel with the marks on the back panel, and then slide down the front cover to attach it.

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Figure 4-6 Slide down the front cover

<u>Step 6</u> Screw a screw into the bottom of the Access Controller to secure it.

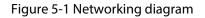
<u>Step 7</u> Remove the protection film.

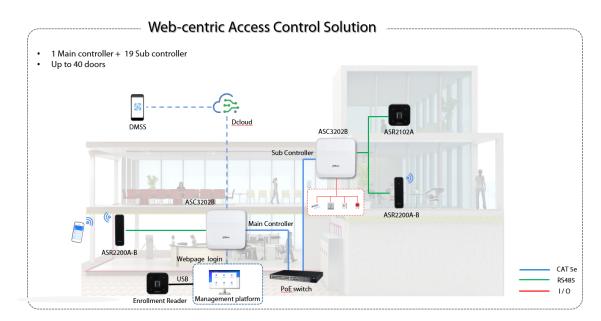


5 Access Control Configurations

5.1 Networking Diagram

The main controller comes with a management platform (herein referred as the platform). Sub controller needs to be added to the platform of the main controller. The main controller can manage up to 19 sub controllers.

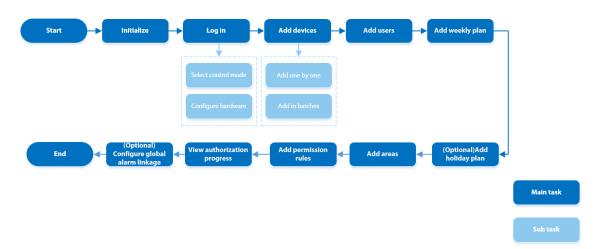




5.2 Configurations of Main Controller

5.2.1 Configuration Flowchart

Figure 5-2 Configuration flowchart





5.2.2 Initialization

Initialize the main controller when you log in to the webpage for the first time or after it is restored to its factory defaults.

Prerequisites

Make sure that the computer used to log in to the webpage is on the same LAN as the main controller.

Procedure

<u>Step 1</u> Open a browser, go to the IP address (the IP address is 192.168.1.108 by default) of the main controller.

 \square

We recommend you use the latest version of Chrome or Firefox.

- <u>Step 2</u> Select a language, and then click **Next**.
- <u>Step 3</u> Set the password and email address.
 - \square
 - The password must consist of 8 to 32 non-blank characters and contain at least two types of the following characters: upper case and lower case letters, numbers, and special characters (excluding ' "; : &). Set a high-security password by following the password strength prompt.
 - Keep the password safe after initialization and change the password regularly to improve security.
- <u>Step 4</u> Configure the system time, and then click **Next**.

Figure 5-3 Configure the time

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Sync PC

<u>Step 5</u> (Optional) Select **Auto Check for Updates** , and then click **Completed**.



The system automatically check is there any higher version available, and inform the user to update the system. The system automatically checks for new updates, and informs you when a new update is available.

Click Completed. Step 6

The system automatically goes to the login page after initialization is successful.

5.2.3 Logging In

For first-time login during initialization, you need to follow the login wizard to configure the type of main controller and its hardware.

Procedure

On the login page, enter the username and password. Step 1

 \square

The default administrator name is admin, and the password is the one you set during

- initialization. We recommend you change the administrator password regularly to increase the security of the platform.
- If you forget the administrator login password, you can click Forgot password?.

Select Main Control, and then click Next. Step 2

Figure 5-4 Type of access controller

	Main Control
◎ 묘	Main controller offers management functions like the platform. You can also set up the system through the wizard, configure access control settings, and access person management, remote device management, and event records.
	Sub Control
· 묩	Sub controllers can be added to the main controller or platform. You can also set up the system through the wizard, configure network and alarming settings, and perform updates.
	Next

- Main Control: The main controller comes with a management platform. You can manage all sub-controllers, configure access control, access personal management on the platform, and more.
- Sub Control: Sub controllers needs to be added to the management platform of the main controller or other management platforms such as DSS Pro or SmartPSS Lite. You can perform the configurations on the webpage of the sub-controller.
- Select the number of doors, and then enter the name of the door. Step 3
- Step 4 Configure the parameters of the doors.



Figure 5-5 Configure door parameters

Entry Card Reader				Power Supply of	Locks			
Card Reader Protocol	O Wiegand	Single V	LED	۲	12V	Fail Secure	\sim	0
	OSDP				Relay	Relay Open = Locked	\sim	0
	● RS-485							
Z Exit Button								
Door Detector								
Entry Card Reader				Power Supply of	Locks			
Entry Card Reader				Power Supply of	Locks			
Card Reader Protocol	Wiegand	Single V	LED	۲	12V	Fail Secure	~	0
	O OSDP				Relay	Relay Open = Locked	\sim	0
	● RS-485							
Z Exit Button								
Door Detector								

Table 5-1 Parameter description

Parameter	Description
Entry Card Reader	 Select the card reader protocol. Wiegand: Connects to a Wiegand reader. You can connect the LED wire to the LED port of the controller, and the reader will beep and flash when the door unlocks. OSDP: Connects to an OSDP reader. RS-485: Connects to a RS-485 reader.
Exit Button	Connects to an exit button.
Door Detector	Connects to a door detector.



Parameter	Description		
	• 12 V: The controller provides power to the lock.		
	 Fail secure: When the power is interrupted or fails, the door stays locked. Fail safe: When the power is interrupted or fails, the door automatically unlocks to let people leave. Relay: The relay supplies power for the lock. 		
Power Supply of Locks	 Relay open = locked: Sets the lock to remain locked when the relay is open. Relay open = unlocked: Sets the lock to unlock when the relay is open. 		
	The electromagnetic lock unlocks in a instant and locks again immediately when the Access Controller is in the soft reboot.		

<u>Step 5</u> Configure access control parameters.

<u>Step 6</u> In **Unlock Settings**, select **Or** or **And** from **Combination Method**.

- Or: Use one of the selected unlock methods to authorize opening the door.
- And: Use all of the selected unlock methods to authorize opening the door.

\square

Step 7

Bluetooth card can not be selected when you set the combination method to **And**. Select the unlock methods, and then configure the other parameters.

Figure 5-6 Unlock settings

Unlock Settings	
Unlock Mode	Combination Unlock \lor
Combination Method	● Or ─ And
Unlock Method (Multi-select)	🖌 Card 🖌 Fingerprint 🔽 Password 🔽 Bluetooth Card
Bluetooth Mode	🔵 Short-range 💿 Mid-range 🔷 Long-range
Door Unlocked Duration	3.0 s (0.2-600)
Unlock Timeout	60 s (1-9999)

Table 5-2 Unlock settings description

Parameter	Description		
Unlock Method (Multi-select)	Supports unlocking through card, fingerprint, password or Bluetooth card. The Bluetooth card function is turned off by default.		



Parameter Description	
	The Bluetooth card must be a certain distance away from the access control device to exchange data and unlock the door. Following are the ranges that are most suitable for it.
Bluetooth Mode	 Short-range: The Bluetooth unlock range is less than 0.2 m. Mid-range: The Bluetooth unlock range is less than 2 m. Long-range: The Bluetooth unlock range is less than 10 m.
	\triangle
	The Bluetooth unlock range might differ depending on models of your phone and the environment.
Door Unlock DurationAfter a person is granted access, the door will remain u for a defined time for them to pass through. It ranges f to 600 s.	
Unlock Timeout	A timeout alarm is triggered when the door remains unlocked for longer than the defined value.

<u>Step 8</u> In **Alarm Settings**, configure the alarm parameters.

Figure 5-7 Alarm

Alarm Settings	
Duress Alarm	
Door Detector	Normally Open O Normally Close
Intrusion Alarm	Card reader beeps
Unlock Timeout Alarm	Card reader beeps

Table 5-3 Description of alarm parameters

Parameter	Description
Duress Alarm	An alarm will be triggered when a duress card, duress password or duress fingerprint is used to unlock the door.
Door Detector	Select the type of door detector.
Intrusion Alarm	• When the door detector is enabled, an intrusion alarm will be
Unlock Timeout Alarm	 triggered if the door is opened abnormally. A timeout alarm will be triggered when the door remains unlocked for longer than the defined unlock time.
	• When Card reader beeps is enabled, the card reader beeps when the intrusion alarm or timeout alarm is triggered.

Step 9 Click **Next**.

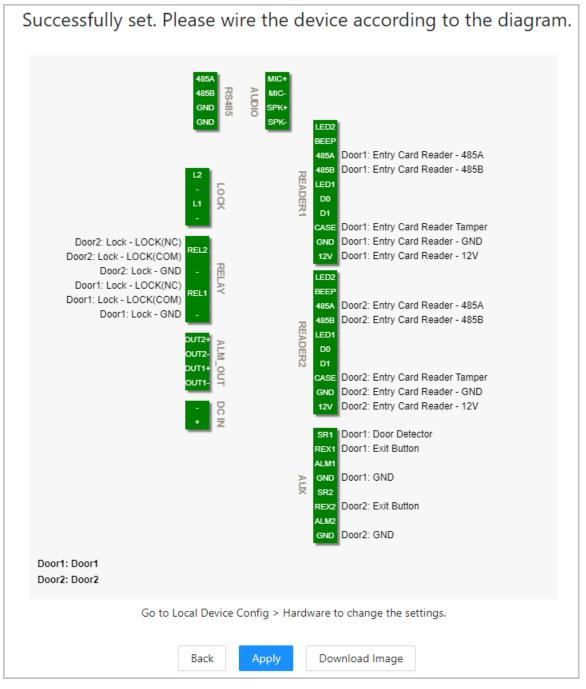


A wiring diagram is generated based on your configurations. You can wire the device according to the diagram.

 \square

The image below is for reference only.

Figure 5-8 Wiring diagram



Step 10 Click Apply.

- You can go to **Local Device Config** > **Hardware** to change the settings after you successfully log in to the platform.
- Click **Download Image** to download the diagram to your computer.



Related Operations

If you want to change the settings of the hardware, go to **Local Device Config** > **Hardware**.

5.2.4 Adding Devices

You can add devices to the management platform of the main controller in batches or one by one. If the controller was set to the main controller while you were going through the login wizard, you can add and manage sub controllers through the Platform.

 \square

Only the main controller comes with a management platform.

5.2.4.1 Adding Device One by One

You can add sub controllers to the main controller one by one.

Procedure

<u>Step 1</u> On the home page, click **Device Management**, and then click **Add**.

<u>Step 2</u> Enter the device information.

Figure 5-9 Device information

Add			×
* Device Name		Add Mode	IP v
IP Address	0.0.0.0	* Port	37777
* Username		* Password	Ø
			OK Cancel

Table 5-4 Device parameters Description

Description
Enter the name of the Controller. We recommend you name it after its installation area.
Select IP to add the Access Controller by entering its IP address.
Enter the IP address of the controller.
The port number is 37777 by default.
Enter the username and password of the Controller.

Step 3 Click OK.



The added controllers are displayed on the **Device Management** page.

Figure 5-10 Successfully add devices

Add Search Device	odify IP Sync Time Delete	Total Devices 1 Online Devices 1					
No. Device Name	IP Address	Device Type	Device Model	Port	Connection Status	SN	Operation
1 EDGEFTWAR	2 111140	Access Controller	DHI-RICIZZE	37777	Online	8000011170022202	<u>⊿</u> → E Ē
0	~						

\square

If the controller was set as the main controller while you were going through the login wizard, the controller will be added to the management platform automatically and function as both the main controller and sub controller.

Related Operations

• *L*: Edit the information on the device.

Only sub controllers support the below operations.

- \Rightarrow : Go to the webpage of the sub controller.
- E: Log out of the device.
- 🖻 : Delete the device.

5.2.4.2 Adding Devices in Batches

We recommend you use the auto-search function when you add sub controllers in batches. Make sure the sub controllers you want to add are on the same network segment.

Procedure

<u>Step 1</u> On the home page, Click **Device Management**, and then click **Search Device**.

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



Figure 5-11 Auto search

Star	t Search	Device Initialization	IP Segment	12.3.11.	I - 12 -	Searce
	No.	IP Address 🍦	Device Type 🏻 🌻	MAC Address 🍦	Port 🍦	Initialization Status 🌻
	1	101111.48	DH AICTIME 4	10312%3et.0x8	37777	Initialized
	2	10111120	A00-A01101	0101021-010	37777	Initialized
	3	41371286	ASG-AS2101	104010321540	37777	Initialized
	4	112211210	01-0-50-45522-50P- -46525	2010-14-10-000-0	37777	Initialized
	5	11321.51	D+HORETPHYS	200344641648	37777	Initialized
					<	1 2 3 4 5

All devices that were searched for will be displayed.

You can select devices from the list, and click **Device Initialization** to initialize them in batches.

Â

To ensure the security of devices, initialization is not supported for devices on different segments.

- <u>Step 2</u> Select the Controllers that you want to add to the Platform, and then click **Add**.
- <u>Step 3</u> Enter the username and password of the sub controller, and then click **OK**.

The added sub controllers are displayed on the **Device Management** page.

Related Operations

- Modify IP: Select added devices, and then click **Modify IP** to change their IP addresses.
- Sync Time: Select added devices, and then click **Sync Time** to sync the time of the devices with the NTP server.
- Delete: Select the devices, and then click **Delete** to delete them.

5.2.5 Adding Users

Add users to departments. Enter basic information for users and set verification methods to verify their identities.

Related Operations

• Export all the users to Excel: On the **Person Management** page, click **Export** to export all users. You can also import the exported user information to other controllers.



\wedge

To prevent data loss caused by force majeure damage to the equipment, it is recommended to regularly export user data for backup purposes.

- Import users: On the **Person Management** page, click **Download Template**, enter user information in the template, and then click **Import** to import all users.
- Extract all the users: On the **Person Management** page, click **More** > **Extract Person Info**, and select a device to extract all the users from the sub controller and send them to them the Platform of the main controller.

5.2.5.1 Adding Departments

Procedure

<u>Step 1</u> On the home page, select **Person Management**.

<u>Step 2</u> Create a department.

- 1. Click +.
- 2. Enter the name of the department, and then click **Add**.

 \square

The default department cannot be deleted.

Figure 5-12 Add department

Add		×	(
Upper Level Department	Default Company	~	
* Department Name	human resources		
	Add	Cancel	



5.2.5.2 Adding Roles

Procedure

<u>Step 1</u> On the home page, select **Person Management**.

Step 2 Create roles.

 \square

- The following roles already exist and cannot be modified or deleted: Default, Manager, Administrator, Visitor and Employee.
- The only general user type with manager role has the highest authority and it is not limited by advanced access rules, such as first card unlock, multi-person unlock, antipassback, always closed door and unlock methods.



- 1. Click +.
- 2. Enter the name of the role, and then click **Add**.

5.2.5.3 Configuring Basic User Information

Procedure

- <u>Step 1</u> On the home page, select **Person Management**.
- Step 2 Add users.
 - Add users one by one.
 - 1. Click **Add**, and then enter the basic information for the user.

Add			Х
Basic Info Authent	ication		
* User ID	292309	* User Name	ТОМ
* Department	Default Company \lor	* User Type	General User V
Validity Period	2023-06-13 00:00:00	То	2037-12-31 23:59:59 📋
Role	Manager \vee	Add Role	
Email	1184 com		
* Unlock Attempts	Unlimited		
			Add Add More Cancel

Figure 5-13 Basic information on the user

Table 5-5 Parameters description

Parameter	Description
User ID	The ID of the user.
Department	The department that the user belongs to. For details on how to create departments, see "5.2.5.1 Adding Departments".
Validity Period	Set a date on which the access permissions of the person will become effective.
Role	Assign an existing role to the user. You can also click Add Role to create a new role.
Email	The email address must be the same as the one that was used to sign up for DMSS.
То	Set a date on which the access permissions of the person will expire.
User Name	The name of the user.



Parameter	Description
User Type	 The type of user. General User : General users can unlock the door. VIP User : When the VIP unlocks the door, service personnel will receive a notice. Guest User : Guests can unlock the door within a defined period or for a set number of times. After the defined period expires or the number of times for unlocking runs out runs out, they cannot unlock the door. Patrol User : Patrol users will have their attendance tracked, but they have no permission to unlock the door. Blocklist User : When users in the blocklist unlock the door, service personnel will receive a notification. Other User : When they unlock the door, the door will stay unlocked for 5 more seconds.
Unlock Attempts	The number of times a guest user can unlock the door.

2. Click **Add**.

You can click **Add More** to add more users.

- Add users through importing the template.
 - 1. Click **Import** > **Download Template** to download the user template.
 - 2. Enter user information in the template, and then save it.
 - 3. Click **Import**, and upload the template to the Platform.

The users are added to the Platform automatically.

- Use **Quick Add** to easily add users.
 - 1. Click Quick Add.
 - 2. Enter the start number of the user ID, and the quantity.

The platform will generate a sequence of numbers starting from the defined start number. For example, if the start number is 999, and the quantity is 5, the system will generate a sequence of numbers from 999 to 1003.



Figure 5-14 Quick add

Quick Add				Х
* Start No.	999	* Quantity	5	
Department	Default Company\A\B	Role	Default	~
Effective Time	2023-06-13 00:00:00 -> 20	37-12-31 23:59:59 📋		
	User ID		Card Number	
	999		890	
	1000		789	
	1001			
	1002			
	1003			
Issue Card Confi	g			
Card Reader	Enrollment Reader Modify			
Card Number	Press the Enter key to enter.	Start Issuing Cards		
Add Can	cel			

- 3. Select the department, role and the effective time.
- 4. Issue cards to the users in batches.

You can manually enter the card number, or use the enrollment reader or card reader to read the card number. For details, see "5.2.5.4.2 Adding Cards".

Related Operations

Batch Edit: Edit personal information in batches.



Figure 5-15 Batch edit

Add	Delete	Import Export Quick A	Batch Edit		×
	User ID	User Name			
	1	1	Department	Default Company	<u> </u>
			✓ Role	Default	×
	001	001	✓ Validity Period	2023-06-15 00:00:00 \rightarrow 2037-	12-31 23:59:59 📋
	002	002			
	003	003		General User	OK Cancel Detault Company

5.2.5.4 Adding Authentication Methods

Add password, cards, fingerprint or Bluetooth cards to users, so that users can unlock the door through authentication. Each user can have up to 1 password, 5 IC/ID cards, 3 fingerprints, and 5 Bluetooth cards.

5.2.5.4.1 Adding Passwords

Add passwords to users for them to gain access by entering their password.

Procedure

- Step 1 On the Authentication tab, click Add
- <u>Step 2</u> Enter and confirm the password.
- Step 3 Click **OK**.



Figure 5-16 Add the passwo

Add	Password	×	X
Basic Info Authentio	Password Confirm Password	2 3 OK Cancel	Not Added
> Card			Not Added
> Fingerprint			Not Added
> Bluetooth Card No			Not Added
		Add Add	d More Cancel

- If Pin code authentication is not enabled, you can unlock the door by entering the unlock password in the format of **user ID#password#**. For example, if the user ID is 123, and the password you set is 12345, and then you must enter **123#12345#** to unlock the door.
- If Pin code authentication is enabled, you can unlock the door by entering the unlock password in the format of **password#**. For example, if the user ID is 123, and the password you set is 12345, and then you must enter **12345#** to unlock the door.

5.2.5.4.2 Adding Cards

Add IC cards or ID cards to users for them to gain access by swiping their cards.

Procedure

- <u>Step 1</u> (Optional) Before you assign cards to users, set the card type and the type of card number.
 - 1. On the **Person Management** page, select **More** > **Card Type**.
 - 2. If you plan on issuing cards through using enrollment reader, select a card type, and then click **OK**.

```
\square
```

Make sure that the card type is the same as the card type that will be issued when you plan on issuing cards through using enrollment reader.

- 3. Select More > Card No. System.
- 4. Select decimal format or hexadecimal format for the card number.
- <u>Step 2</u> On the **Authentication** tab, click **Card** to add cards.

4 methods are available to add cards.



- Enter the card number manually.
 - 1. Click **Add**.
 - 2. Enter the card number, and then click **Add**.
- Use the enrollment reader to read the card number.

Figure 5-17 Use the enrollment reader to read the card number

Edit	Card		•	Х	X
Basic Info Authentica	Card Reader	Enrollment Read	der Modify		
				3	
> Password	Card	8974350	Read Card	1	Added
✓ Card			4		Added: 4
			Add	Cancel	
268435491	8053064	03	1073741859	134	2177315
Time: 2023-06-09	Time: 202	3-06-09	Time: 2023-06-09	Time	2023-06-09
■ 凶	0	日日日	開造(8	副运量
Add					
> Fingerprint					Added: 3
> Bluetooth Card					Added: 5
					OK Cancel

- 1. Click Add.
- 2. Click **Modify**, and then select **Enrollment Reader**.

Make sure that the card enrollment reader is connected to your computer.

- 3. Follow the on-screen instructions to download and install the plug-in.
- 4. Click **Read Card**, and then swipe the cards on the enrollment reader.

A 60-second countdown is displayed to remind you to swipe the card, and the system will read the card number automatically. If the 60-second countdown expires, click **Read Card** again to start a new countdown.

- 5. Click Add.
- Use the card reader to read the card number.



Edit	Card	2 ×	×
Basic Info Authentica	Card Reader Access Contro	oller/Reader 1 Modify	
		3	
> Password	Card	Read Card	Added
∨ Card		4	Added: 4
		Add Cancel	
20000021	40000021	50000021	2288F00E
Time: 2023-06-09	Time: 2023-06-09	Time: 2023-06-09	Time: 2023-06-13
E ŭ Ó	d E 2 d	い ひょう しょう しょう しょう しょう しょう しょう しょう しょう しょう し	同じ回
Add			
> Fingerprint			Added: 3
> Bluetooth Card			Added: 5
			OK Cancel

Figure 5-18 Use the card reader to read the card number

1. Click **Modify**, and then select a card reader.

Make sure that the card reader is connected to the Access Controller.

2. Click **Read Card**, and then swipe the cards on the card reader.

A 60-second countdown is displayed to remind you to swipe the card, and the system will read the card number automatically. If the 60-second countdown expires, click **Read Card** again to start a new countdown.

- 3. Click **Add**.
- Add cards in batches: Issue cards to users in batches.
 - 1. Click Batch Issue Cards , and then select Issue Cards to Selected Users or Issue Cards to All Users.
 - 2. You can manually enter the card number, or click **Modify** to issue cards through the enrollment reader or card reader.



	tooth Card					
Issue Cards						
U	ser ID	User Name	Card Number	Operation		
0	0003	00003		Θ		
0	0004	00004		Θ		
100	000021	zhangsan21	The number of cards for	Θ		
100	000022	zhangsan22	The number of cards for	Θ		
User Type	VIP User		Email			
User ID User Type	00003 VIP User		User Name 00003 Email			
Department	Default Company 2023-06-13 00:00:0	0~2037-12-31 23:59:59	Role Default			
	Effective Time 2023-06-13 00:00:00~2037-12-31 23:59:59 Issue Card Config Card Reader Enrollment Reader Modify					
Issue Card C	-		art Issuing Cards			

Figure	5-19		cards	throug	h tho	onroll	ment	roador	or	card	read	٥r
iguie	2-12	Issue	carus	unoug	ii uie	EIIIOII	ment	reauer	UI.	caru	reau	CI

Related Operations

- 🖻 : Change the number of the card.
- 🖻: Set the card to duress card.

An alarm is triggered when people use the duress card to unlock the door.

• 💼 : Delete the card.

5.2.5.4.3 Adding Fingerprints

Add fingerprints to users for them to use their fingerprints to unlock doors.

Procedure

<u>Step 1</u> On the **Authentication** tab, click **Fingerprint**.



- <u>Step 2</u> Connect a fingerprint scanner to the computer, and follow the on-screen instructions to register the fingerprint.
- Step 3 Click Add.

5.2.5.4.4 Adding Bluetooth Cards

Add Bluetooth cards to users for them to gain access through Bluetooth cards.

Prerequisites

- The Bluetooth unlock function has been turned on.
- The main controller has been added to DMSS. For details, see "5.2.11 Configuring Cloud Service".
- Users have been added to the Platform of the Access Controller. For details, see "5.2.5.3 Configuring Basic User Information".
- General users, such as company employees, have installed and signed up for DMSS with their email.



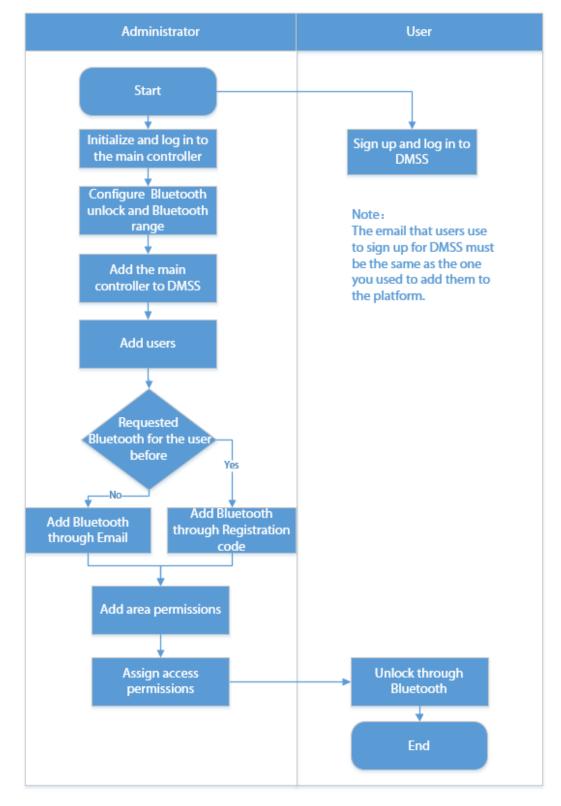
The email that users use to sign up for DMSS must be the same as the one you used to add them to the access controller.

Background Information

Refer to the flowchart for configuring Bluetooth unlock. Administrator and general users need to perform different operations to complete the process. General users, like company employees, only need to sign up and log in to DMSS with their email to unlock doors using Bluetooth cards that were issued to them.







Procedure

<u>Step 1</u> On the tab, click **Bluetooth Card**.

3 methods are available to add Bluetooth cards.



• Request through Email one by one: Click **Request through Email**.

A Bluetooth card is generated automatically. You can generate up to 5 cards for each user.

asic Info Authentica	tion Permission 📀			
> Password				Not Added
> Card				Not Added
> Fingerprint				Not Added
✓ Bluetooth Card				Added: 4
47****41	82****3D m Email Registration Code	76****E3 	9C****E2	

Figure 5-21 Request through Email

- Request through Email in batches.
 - 1. On the **Person Management** page, click **Batch Issue Cards**.

Batch issue cards only supports requesting through Email.

- Issue Bluetooth cards to all the users on the list: Click Issue Cards to All Users.
- Issue Bluetooth cards to selected users: Select users, and then click Issue Cards to Selected Users.
- 2. Click Bluetooth Card.
- 3. Click Request through Email.

\square

- Users who do not have an email or already have 5 Bluetooth cards will be displayed on the non-requestable list.
- Export users that lack emails: Click Export , enter the emails in the correct format, and then click Import. They will be moved to the requestable list.

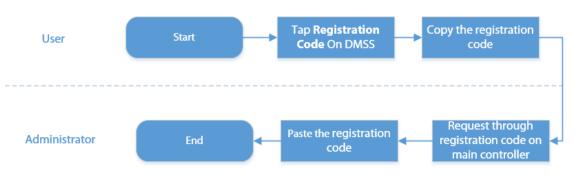




Batch Issue Ca	ards				Х	
Card Blueto	oth Card					
Bluetooth cards can only be generated in batches through emails.						
Issue Cards						
Requestable (3) Non-Requestab	le (1)	Export Users	that Lack Emails	Import	
User ID	User Name	Email	Bluetooth Card No.	Status C	Operation	
001	001	118 J.com	0		Θ	
002	002	com، ا	0		Θ	
003	003	116 com	0		Θ	
User ID	001	User I	Name 001			
User Type	General User	Email	118-	.com		
Department	Default Company					
Effective Time	2023-06-15 00:00:00~2	037-12-31 23:59:59				
		Request through	Email			

• If you have requested Bluetooth cards for the user before, you can add the Bluetooth cards through registration code. using registration codes.

Figure 5-23 The flowchart for requesting through registration code



1. On DMSS, tap **Registration Code** of a Bluetooth card.

The registration code is automatically generated by DMSS.

2. Copy the registration code.



3. On the **Bluetooth Card** tab, click **Request through Registration Code**, paste the registration code, and then click **OK**.

Edit	Request through Registration Code	Х	X
Basic Info Authentica	* Registration Code		
> Password	ок	Cancel	Not Added
> Card			Not Added
> Fingerprint			Not Added
✓ Bluetooth Card			Added: 1
38****23 直	Request through Email Request through Registration Code		
			OK Cancel

Figure 5-24 Request through registration code

4. Click **OK**.

The Bluetooth card is added.

Step 2 Click **OK**.

Results

After users sign up and log in to DMSS with the Email address, they can open DMSS to unlock the door through Bluetooth cards. For details, see the user's manual of DMSS.

• Auto Unlock: The door automatically unlocks when you are in the defined Bluetooth range, which allows the Bluetooth card to transmit signals to the card reader.



In auto unlock mode, the Bluetooth card might continuously unlock the door when you are within the Bluetooth range for a long time until a failure occurs. Please turn off Bluetooth on the phone and then turn it on again.

• Shake to Unlock: The door unlocks when you shake your phone to allow the Bluetooth card to transmit signals to the card reader.



Figure 5-25 Unlock the door through Bluetooth cards

4:31				::!! 4	IG 🔳,	
0= 0=		Hom	е		(+)	
Q Searc	ch					
0	<u></u>	0		0		
Live	Playback	Door	Access	Alarm		
ee ee	d				•••	
Oevic	e under the	account				
	• Security at Fingertips •					
.		Q		•		
Hom	е	Messag	je	Me		

Related Operations

- Users can manage Bluetooth cards on DMSS.
 - Move to the Top: If multiple Bluetooth cards have been added, you can move cards to the top that are currently in use.
 - ◇ Rename: Rename the Bluetooth card.
 - Delete: Delete the Bluetooth card.
- Export users that lack emails: Click **Export**, enter the emails in the correct format and then click Import. They will be moved to the requestable list.



• View the request records: On the **Person Management** page, click **More** > **Bluetooth Card Records** to view the request status.

Bluetooth Card Records						
No.	Time	Status	Operation			
1	2023-03-09 10:26:31	Successful: 0, failed: 1.	View Details	Request Again		
2	2023-03-09 10:25:59	Successful: 0, failed: 1.	View Details	Request Again		
3	2023-03-09 10:25:49	Successful: 0, failed: 1.	View Details	Request Again		

Figure 5-26 Request status

- View Details: View the details of the request, including user information, reasons for failed requests and more. You can also request again for failed users.
- ◇ Request Again: Request again for failed users.

5.2.6 Adding Weekly Plans

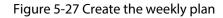
The weekly plan is used to set the unlock schedule for the week. The platform offers a default template with a full daytime schedule. You can also create your own templates.

Procedure

 $\underline{Step 1} \qquad \text{On the home page, select } \textbf{Access Control Config} > \textbf{Weekly Plan}, \text{ and then click } ^+ \, .$

- The default full-day time template cannot be modified.
- You can create up to 128 weekly plans.
- <u>Step 2</u> Enter the name of the time template.





eekly Plan 🚹 🕂 🖻	Details	0	
You can only create up to 128 weekly plans.	* Name	Weekly Plan 1	
Q	Description		
ull-day Time Template			
Veekly Plan 1 🗖	Time Plan	0 1 2 3 4 5 6 Time 10.03:39 → 16:09:56 ○ 🔟 	
		Sun Copy	
		Mon Tue	
		Wed Thu Fri	Sat
		Tue	Car
		Wed Copy	
		Тhu Сору	
		Fri	
		Sat Copy	
		4 Apply Cancel	

<u>Step 3</u> Drag the slider to adjust the time period for each day.

You can also click **Copy** to apply the configured time period to other days.

 \square

You can only configure up to 4 time sections for each day.

Step 4 Click **Apply**.

5.2.7 Adding Areas

An area is a collection of door access permissions. Create an area, and then link users to the area so that they can gain access permissions set for the area.

Procedure

<u>Step 1</u> Click Access Control Config > Area Settings.

<u>Step 2</u> Click + to add areas.

You can add up to 40 area permissions.



Figure 5-28 Add areas

Area List		* Area Name Area1	2
You can only creat areas.	te up to 40	Select Device	Selected 1 items.
Area1	Q.	Search Main Control Main Control Search Door1 Door2	
		4 Apply Cancel	

<u>Step 3</u> Enter the name of the area.

Step 4 Select doors.

Step 5 Click Apply.

5.2.8 Adding Permission Rules

By creating permissions rules, you can assign access permissions to users by linking them to the areas. This will allow authorized personnel to gain access to secure areas.

Procedure

<u>Step 1</u> On the home page, select **Access Control Config** > **Permission Settings**.

<u>Step 2</u> Click ⁺ to add a permission rule.

Figure 5-29 Assign permissions in batches

Permission Rule	• Name Permission1	
• You can only create up to 128 permission rules.	Remarks	
٩	Person Info	Area Info
Permission1		
	a.)	
		S
	No data	No data
	Add	Add
		5
	Time Templates	
	Weekly Plan Full-day Time Template V Holiday Plan No Holida	y v
	5	
	Apply Cancel	

<u>Step 3</u> Enter the name of the permission rule.

<u>Step 4</u> In the **Person Info** area, click **Add** to select personnel, and then click **OK**.

You can select personnel on the department, role or individual users.



- Dept: All personnel in the department will be assigned with access permissions.
- Role: All personnel with these roles will be assigned with access permissions.
- User: Only selected users will be assigned with access permissions.

When you want to assign permission to a new person or change access permissions for an existing person, you can simply add the user in a existing department or link them with a existing role, they will be automatically assigned access permissions set for the department or role.

Search Q 	
A 1 A 001 A 002 A 003 A 004	
A 001 A 002 A 003 A 004	
A 002 A 003 A 004	
A 003 A 004	
A 004	
A 005	
A 006	
A 007	
A 008	
A 009	
OK	
ОКС	

Figure 5-30 Add personnel

You can click ⁺ to create new permission groups. For details on creating permission groups, see "5.2.7 Adding Areas".

<u>Step 5</u> In the **Area Info**, click **Add** to select an area, and then click **OK**.



Figure 5-31 Add area

Ad	d Area			X	
	Area1				
	🗸 Area2				
			ОК	Cancel	

Step 6In the Time Templates area, select the weekly plan and the holiday plan.Step 7Click Apply.

Related Operations

5.2.9 Viewing Authorization Progress

After you assign access permissions to users, you can view the authorization process. **Procedure**

Step 1 On the home page, select Access Control Config > Authorization Progress.

<u>Step 2</u> View the authorization progress.

- Sync SubControl Person: Sync personnel on the main controller to the sub-controller.
- Sync Local Person: Sync personnel on the management platform of the main controller to its server.
- Sync Local Time: Sync the time templates in the area permissions to the sub-controller.

Figure 5-32 Authorization progress

Area Permission	Device Name	Туре	Progress	Results	Time	Operation
	1713.01.002	Sync SubControl Person	•	Succeed: 1, Failed: 0	2022-08-12 20:01:59	
	020146-002	Sync SubControl Person		Succeed: 0, Failed: 1	2022-08-12 20:01:23	щc
	186	Sync Local Person	0	Succeed: 1, Failed: 0	2022-08-12 20:01:23	

<u>Step 3</u> (Optional) If authorization failed, click ^C to try again.

You can click \mathbf{P} to view details on the failed authorization task.



5.2.10 Configuring Global Alarm linkages (Optional)

You can configure global alarm linkages across different Access Controllers.

Procedure

<u>Step 1</u> Select Access Control Config > Global Alarm Linkage.

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- When you have configured both global alarm linkages and local alarm linkages, and if the global alarm linkages conflict with the local alarm linkages, the last alarm linkages you have configured will take effective.
- When you have configured alarm linkages for sub controllers through the main controller, if the main controller has been restored to the factory defaults, we recommended you restore the sub controller to factory defaults at the same time.

<u>Step 2</u> Configure the alarm output.

- 1. Select an alarm input from the alarm input channel list, and then click **Link Alarm Output**.
- 2. Click Add , select an alarm output channel, and then click OK.

rrm Input Channel List	Link Alarm	Output	Link Door Channel						
Search Q	Add								
🖬 Main Control		_							
▼ 品 186		No.		Alarn	o Output (Channel			Devi
🛱 Zone1			Add					×	
ద Zone2				3					
品 (19.9.1.1.19.9			Alarm Output Channel List		Selected	2 items.			
▶ 👪 183			Search	٩	No.	Alarm Output Channel	Device	Operation	
品 111.11.11				4					
品			▼ ■ 品 Main Control ▼ □ 品 186		1	1	183	B	
品			🖄 Alarm Output 1		2	2	183	R	
品 			스 Alarm Output 2						
品			▼ ✓ ñi 183					< 1 >	
品			Alarm Output 1						
品			Z 溢 Alarm Output 2						
品 									
品			55						
品			55						
品 111.1.11			品						
品 111111111			-					4	
品								OK Cancel	

Figure 5-33 Alarm output

- 3. Turn on the alarm output function and then enter the alarm duration.
- 4. Click **Apply**.

<u>Step 3</u> Configure the door linkage.

- 1. Select an alarm input from the channel list, and then click **Add**.
- 2. Select the linkage door, select the door status, and then click **OK**.
 - Always Closed: The door automatically locks when an alarm is triggered.
 - Always Open: The door automatically unlocks when an alarm is triggered.



Figure 5-34 Door linkage (1)

Alarm Input Channel List	Link Alarm Output Link Door Channel		
Search Q	Add		
- 品 9C07F69PAQ00087 □ Zone1	No.	Door Channel	Door Status
ظ Zone2	Add		×
	Device List	Selected 2 items.	
	Search Q	No. Door Channel	Door Status 4 Operation
	✓	1 Door1	Always Open \vee
	Door1 Door2	2 Door2	Always Open \vee
			< 1 >
			CK Cancel

3. Click **Enable** to turn on the door linkage function.

Figure 5-35 Door linkage (2)

Link Alarm Output Link Doo	or Channel			
Enable	D			
Link Fire Safety Control	D			
Add				
No.	Door Channel	Door Status	Device	Operation
1	33-1	Always Open $ \lor $	8D00E71YAJ82SFH	靣
2	Door2	Always Open \vee	8D00E71YAJ82SFH	靣

 \square

If you turn on link fire safety control, all door linkages will automatically change to the **Always Open** status, and all the doors will open when the fire alarm is triggered.

4. Click **Apply**.

You can click **Copy to** to apply the pre-configured alarm linkages to other alarm input channels.

5.2.11 Configuring Cloud Service

Add the Main Controller to DMSS before you request Bluetooth cards for users. For details on using DMSS, see the user's manual of DMSS.

Background Information

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If you have changed the password of the Main Controller, or restored it to factory defaults, you need to delete the controller on DMSS and add it to DMSS again.



Procedure

- <u>Step 1</u> On the home page, select Local Device Config > Network Setting > Cloud Service.
- <u>Step 2</u> Turn on the cloud service function.

The cloud service function is turned on by default.

Figure 5-36 Cloud service

Enable	
information collected info	ig the function and connecting Internet, we will collect device such as IP address, MAC address, name and serial number. The ormation is only used for remote access of the device. If you do enable the function, please cancel the selection of check box.
Status	Online
SN	8E09F8CYAJE743C
Apply	Refresh

Step 3 Click **Apply**.

<u>Step 4</u> Download DMSS and sign up with Email, scan the QR code with DMSS to add the Access Controller to it.



5.3 Configurations of Sub Controller

You can log in to the webpage of the sub controller to configure it locally.

5.3.1 Initialization

Initialize the sub controller when you log in to the webpage for the first time or after the sub controller is restored to its factory default settings. For details on how to initialize the sub controller, see "5.2.2 Initialization".

5.3.2 Logging In

Set the Access Control to sub controller while going through the login wizard. For details, see "5.2.3 Logging In".



Appendix 1 Security Commitment and Recommendation

Dahua Vision Technology Co., Ltd. (hereinafter referred to as "Dahua") attaches great importance to cybersecurity and privacy protection, and continues to invest special funds to comprehensively improve the security awareness and capabilities of Dahua employees and provide adequate security for products. Dahua has established a professional security team to provide full life cycle security empowerment and control for product design, development, testing, production, delivery and maintenance. While adhering to the principle of minimizing data collection, minimizing services, prohibiting backdoor implantation, and removing unnecessary and insecure services (such as Telnet), Dahua products continue to introduce innovative security technologies, and strive to improve the product security assurance capabilities, providing global users with security alarm and 24/7 security incident response services to better protect users' security rights and interests. At the same time, Dahua encourages users, partners, suppliers, government agencies, industry organizations and independent researchers to report any potential risks or vulnerabilities discovered on Dahua devices to Dahua PSIRT, for specific reporting methods, please refer to the cyber security section of Dahua official website.

Product security requires not only the continuous attention and efforts of manufacturers in R&D, production, and delivery, but also the active participation of users that can help improve the environment and methods of product usage, so as to better ensure the security of products after they are put into use. For this reason, we recommend that users safely use the device, including but not limited to:

Account Management

1. Use complex 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: 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 repeating characters, such as 111, aaa, etc.

2. Change passwords periodically

It is recommended to periodically change the device password to reduce the risk of being guessed or cracked.

3. Allocate accounts and permissions appropriately

Appropriately add users based on service and management requirements and assign minimum permission sets to users.

4. Enable account lockout function

The account lockout function is enabled by default. You are advised to keep it enabled to protect account security. After multiple failed password attempts, the corresponding account and source IP address will be locked.

5. Set and update password reset information in a timely manner

Dahua device supports password reset function. To reduce the risk of this function being used by threat actors, if there is any change in the information, please modify it in time. When setting security questions, it is recommended not to use easily guessed answers.



Service Configuration

1. Enable HTTPS

It is recommended that you enable HTTPS to access Web services through secure channels.

2. Encrypted transmission of audio and video

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

3. Turn off non-essential services and use safe mode

If not needed, it is recommended to turn off some services such as SSH, SNMP, SMTP, UPnP, AP hotspot etc., to reduce the attack surfaces.

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

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

4. Change HTTP and other default service ports

It is recommended that you change the default port of HTTP and other services to any port between 1024 and 65535 to reduce the risk of being guessed by threat actors.

Network Configuration

1. Enable Allow list

It is recommended that you turn on the allow list function, and only allow IP in the allow list to access the device. Therefore, please be sure to add your computer IP address and supporting device IP address to the allow list.

2. MAC address binding

It is recommended that you bind the IP address of the gateway to the MAC address on the device to reduce the risk of ARP spoofing.

3. Build a secure network environment

In order to better ensure the security of devices and reduce potential cyber risks, the following are recommended:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network;
- According to the actual network needs, partition the network: if there is no communication demand between the two subnets, it is recommended to use VLAN, gateway and other methods to partition the network to achieve network isolation;
- Stablish 802.1x access authentication system to reduce the risk of illegal terminal access to the private network.

Security Auditing

1. Check online users

It is recommended to check online users regularly to identify illegal users.

2. Check device log



By viewing logs, you can learn about the IP addresses that attempt to log in to the device and key operations of the logged users.

3. Configure network log

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

Software Security

1. Update firmware in time

According to the industry standard operating specifications, the firmware of devices needs to be updated to the latest version in time in order to ensure that the device has the latest functions and security. If the device is connected to the public network, it is recommended to enable the online upgrade automatic detection function, so as to obtain the firmware update information released by the manufacturer in a timely manner.

2. Update client software in time

We recommend you to download and use the latest client software.

Physical Protection

It is recommended that you carry out physical protection for devices (especially storage devices), such as placing the device in a dedicated machine room and cabinet, and having access control and key management in place to prevent unauthorized personnel from damaging hardware and other peripheral equipment (e.g. USB flash disk, serial port).

ENABLING A SMARTER SOCIETY AND BETTER LIVING