



dahua DHI-ASC1204B EOL Four Door Access Controller User Manual

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DHI-ASC1204B EOL Four Door Access Controller User Manual

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Foreword

General

This document elaborates on structure, installation, interface and wiring of four-door access controller.

Safety Instructions

The following categorized signal words with defined meaning might appear in the Manual.

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

Privacy Protection Notice

As the device user or data controller, you might collect personal data of others' such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

About the Manual

- The Manual is for reference only. If there is inconsistency between the Manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the Manual.
- The Manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper User's Manual, CD-ROM, QR code or our official website. If there is inconsistency between paper User's Manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the Manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.
- Upgrade the reader software or try other mainstream reader software if the Guide (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the Manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

Important Safeguards and Warnings

The following description is the correct application method of the device. Please read the manual carefully before use, in order to prevent danger and property loss. Strictly conform to the manual during application and keep it properly after reading.

Operating Requirement

- Please don't place and install the device in an area exposed to direct sunlight or near heat generating device.
- Please don't install the device in a humid, dusty or fuliginous area.
- Please keep its horizontal installation, or install it at stable places, and prevent it from falling.
- Please don't drip or splash liquids onto the device; don't put on the device anything filled with liquids, in order to prevent liquids from flowing into the device.
- Please install the device at well-ventilated places; don't block its ventilation opening.
- Use the device only within rated input and output range.
- Please don't dismantle the device arbitrarily.
- Please transport, use and store the device within allowed humidity and temperature range.

Power Requirement

- Please make sure to use batteries according to requirements; otherwise, it may result in fire, explosion or burning risks of batteries!
- To replace batteries, only the same type of batteries can be used!
- The product shall use electric cables (power cables) recommended by this area, which shall be used within its rated specification!
- Please use standard power adapter matched with the device. Otherwise, the user shall undertake resulting personnel injury or device damage.
- Please use power supply that meets SELV (safety extra low voltage) requirements, and supply power with rated voltage that conforms to Limited Power Source in IEC60950-1. For specific power supply requirements, please refer to device labels.
- Products with category I structure shall be connected to grid power output socket, which is equipped with protective grounding.
- Appliance coupler is a disconnecting device. During normal use, please keep an angle that facilitates operation.

Overview

As a sub controller of main controller, four-door sub controller is matched with main controller and is widely used in banks, and safe places.

Its rich functions are as follows:

- Adopt sliding rail type and lock type installation, convenient installation and maintenance.
- Integrate alarm and fire alarm.
- Support 4 sets of card readers.
- Support 9 groups of signal input (exit button *4, door sensor *4 and intrusion alarm *1).
- Support 5 groups of control output (electric lock *4 and alarm output *1).
- With RS485 port, it may extend to connect lift control module, alarm or household control module.
- Support CAN bus and connect main controller.
- FLASH storage capacity is 16M (which may extend to 32M), max supports 20,000 card holders and 30,000 offline records.
- Support illegal intrusion alarm, exit overtime alarm and duress code setup. Also support blocklist/allow list and patrol card setup.
- Permanent data storage during outage, built-in RTC (support DST), online upgrading.

⚠ CAUTION

If this product needs to connect external power supply, please use 12V 0.5A adapter and ensure that working temperature shall not exceed -5°C +55 °C.

Packing List

Before installation, please check the packing list.

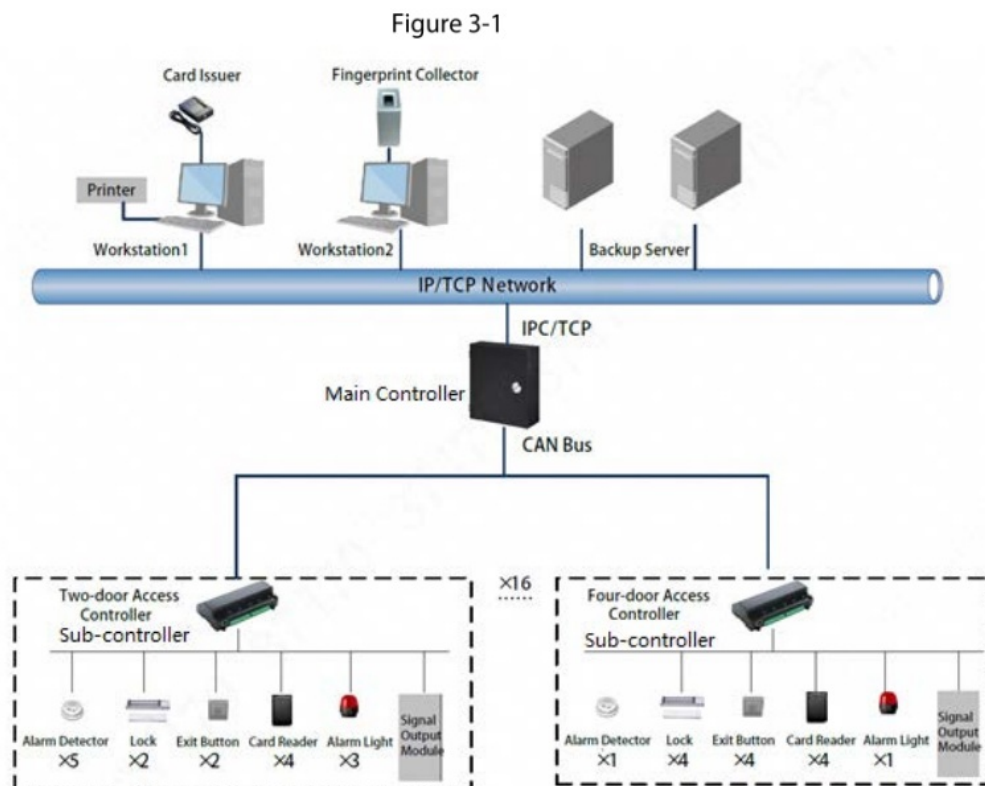
Table 2-1

No.	Name	Quantity
1	Access controller	1
2	Installation positioning drawing	1
3	Accessory kit (screw, expansion pipe and wiring terminal)	1
4	Quick start guide	1
5	Certificate of qualification	1

Installation Guide

3.1 System Structure

System structure of four-door access controller, door lock and reader is shown below.



3.2 External Dimension

The unit is mm.

Figure 3-2

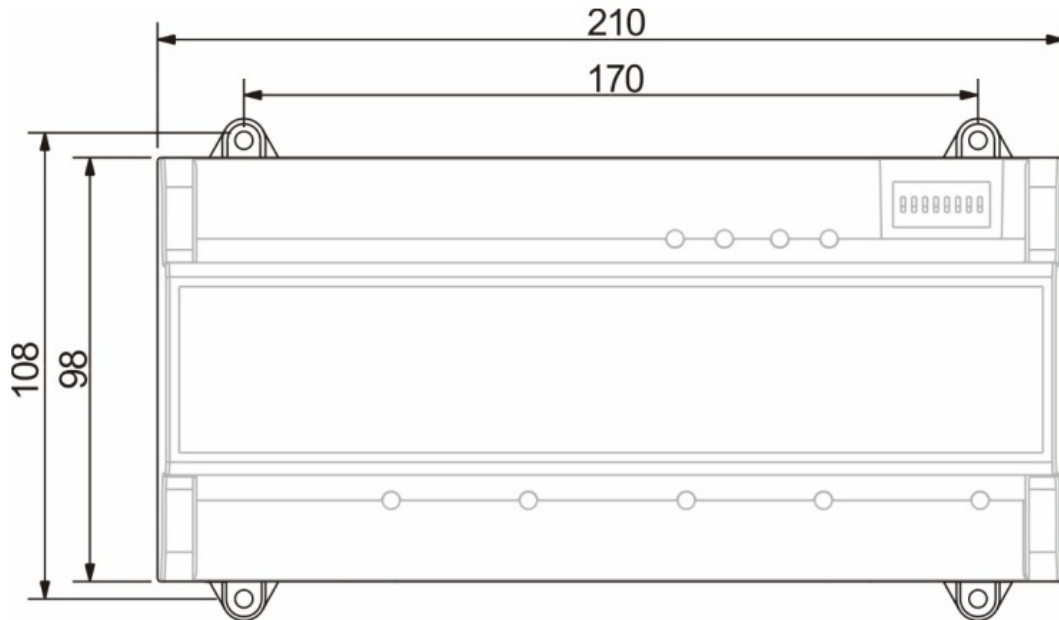
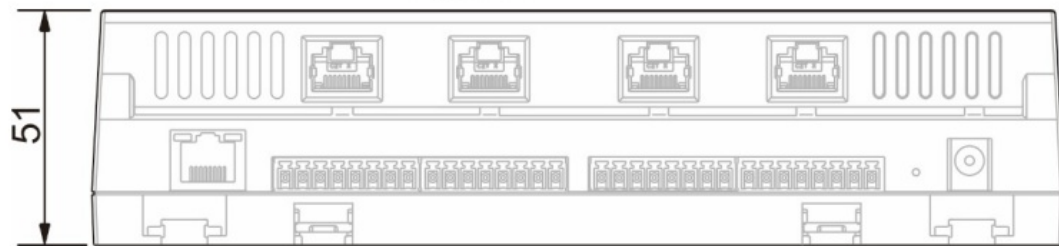


Figure 3-3



3.3 Device Installation

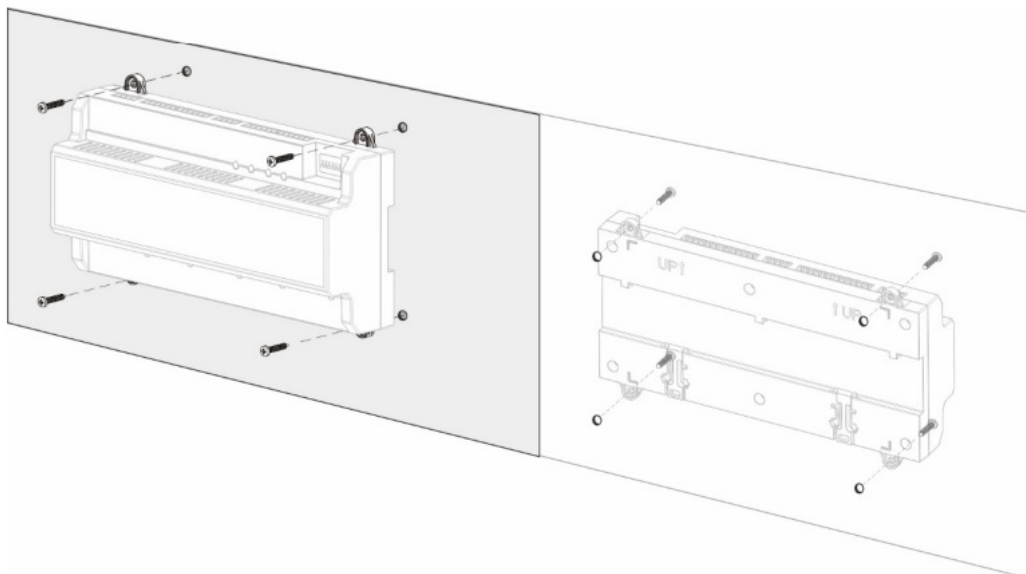
There are two installation modes.

- Mode 1: fix the whole device onto the wall with screws.
- Mode 2: with a rack, fix the whole device onto the wall (the rack is an optional fitting).

Mode 1

Installation diagram is shown below.

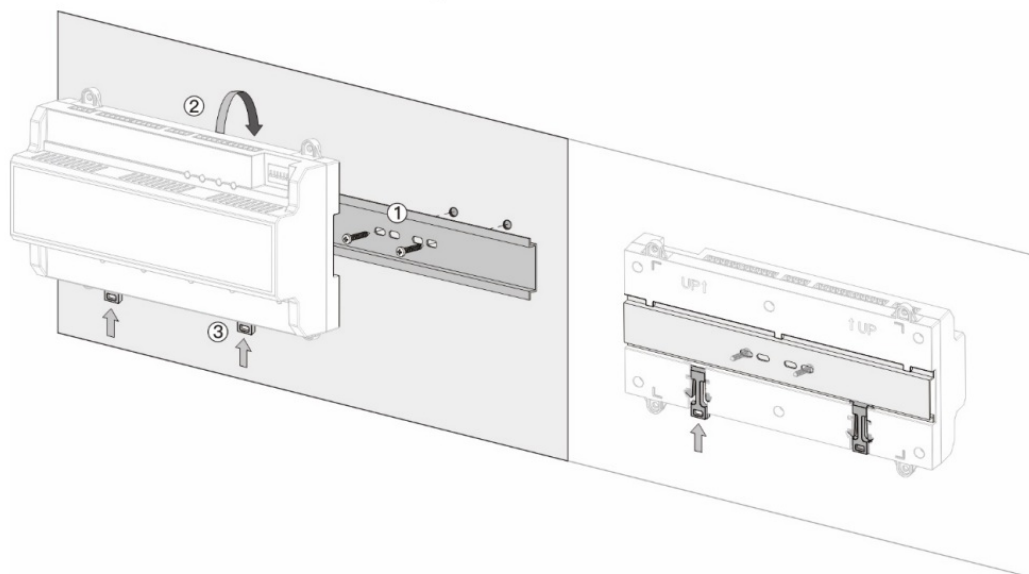
Figure 3-4



Mode 2

Installation diagram is shown below.

Figure 3-5



Step 1: Fix the rack onto the wall with screws.

Step 2: Buckle the upper rear part of the device into upper groove of the rack.

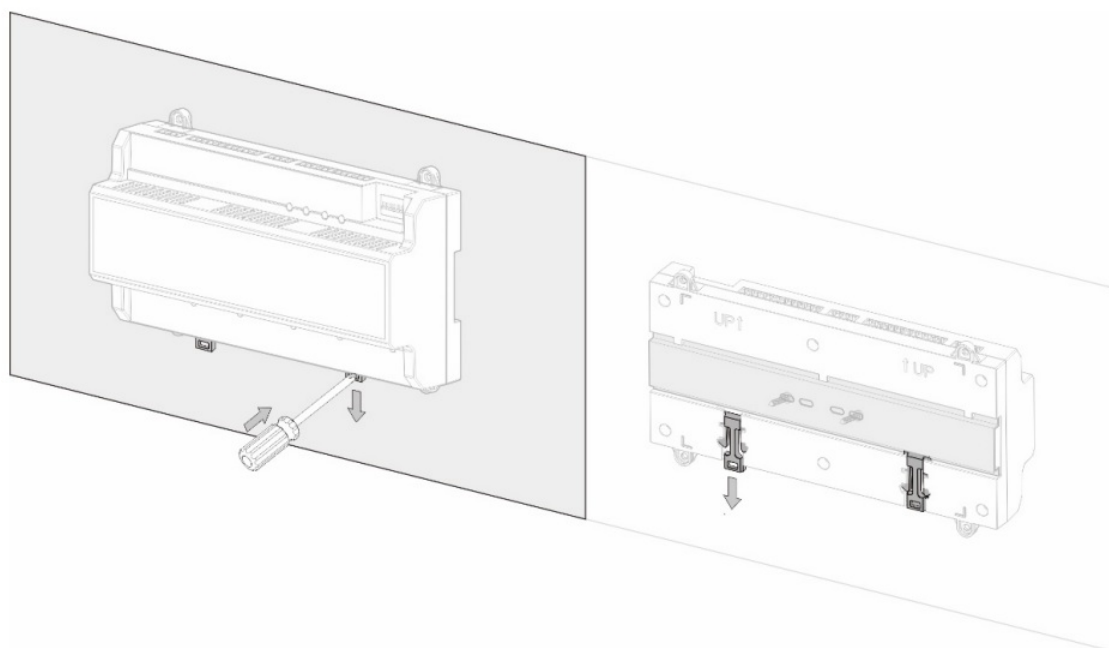
Step 3: Push the snap joint at the bottom of the device upwards. The installation is completed when you hear the fitting sound.

3.4 Disassembly

If the device is installed with mode 2, please disassemble it as shown below.

Align a screwdriver with the snap joint, press it down and the snap joint will pop up, so the whole device can be disassembled smoothly.

Figure 3-6



3.5 Wiring Description

Device wiring diagram is shown below.

Figure 3-7

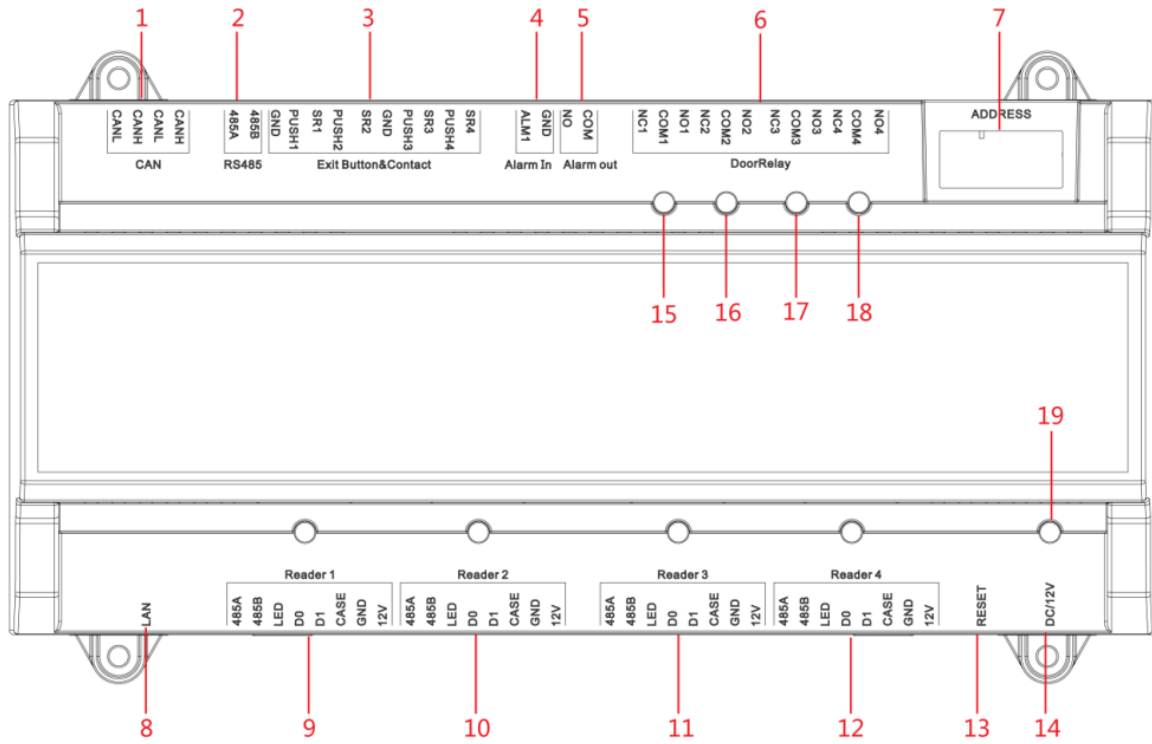


Table 3-1

No.	Interface Description	No.	Interface Description
1	CAN bus	8	Not available at present
2	External extension module	9	Reader of door 1
3	Door sensor and exit button	10	Reader of door 2
4	External alarm input	11	Reader of door 3
5	External alarm output	12	Reader of door 4
6	Lock control output	13	Reboot
7	Address code/ transmission rate	14	DC 12V power interface

Indicator lights are described below.

Table 3-2

No.	Description
15	Lock status indicator of door 1~ door 4
16	
17	
18	
19	Power indicator

3.5.1 Wiring Description of CAN Bus

Wiring terminals of CAN bus are described below.

Interface	Wiring Terminal	Description
CAN bus	CANH	CAN bus input
	CANL	
	CANH	CAN bus output
	CANL	

3.5.2 Wiring Description of Exit Button/Door Sensor

Corresponding wiring terminals of exit button and door sensor are shown below.

Figure 3-8

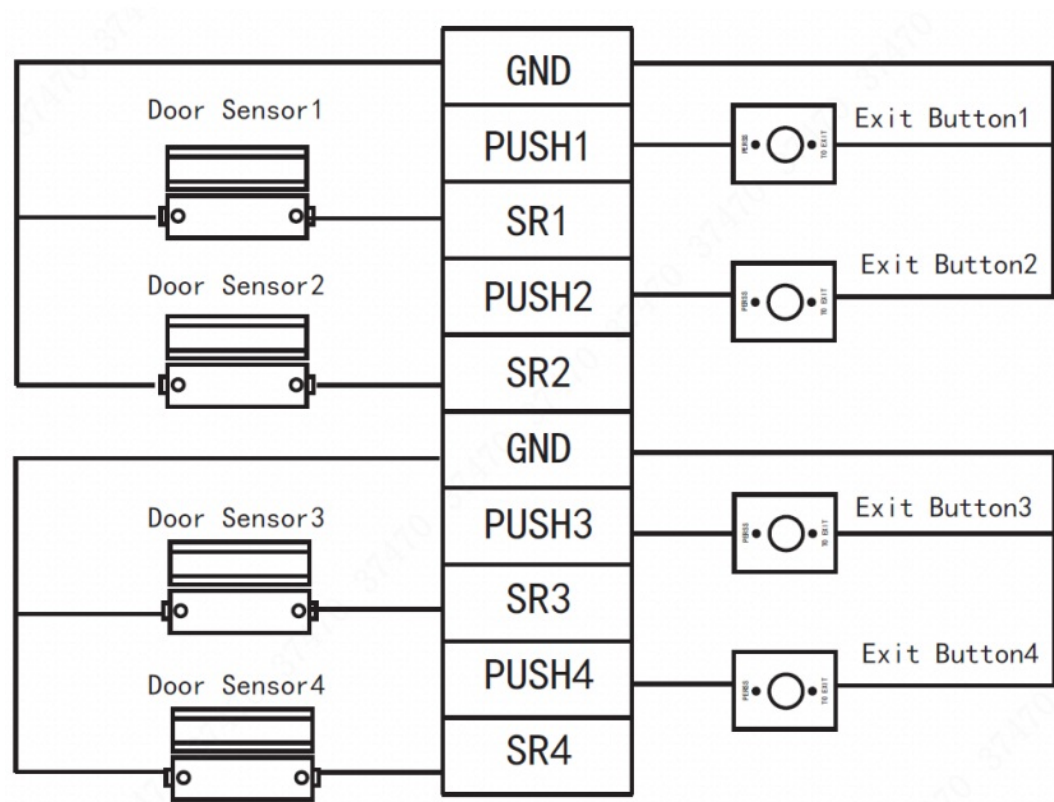


Table 3-3

Interface	Wiring Terminal	Description
Exit button + door sensor	GND	Shared by exit button of door 1 and door 2, and door sensor input of door 1 and door 2
	PUSH1	Exit button of door 1
	SR1	Door sensor input of door 1
	PUSH2	Exit button of door 2
	SR2	Door sensor input of door 2
	GND	Shared by exit button of door 3 and door 4, and door sensor input of door 3 and door 4
	PUSH3	Exit button of door 3
	SR3	Door sensor input of door 3
	PUSH4	Exit button of door 4
	SR4	Door sensor input of door 4

3.5.3 Wiring Description of External Alarm Input

External alarm input connection is shown below.

Figure 3-9

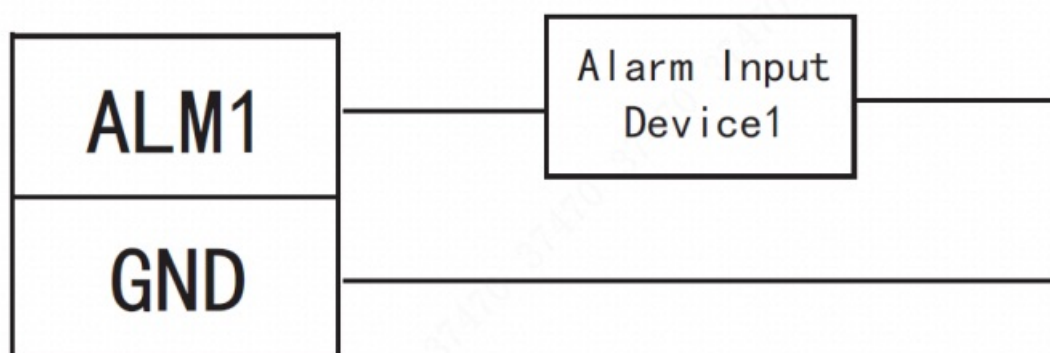


Table 3-4

Interface	Wiring Terminal	Description
External alarm input	ALM1	External alarm input interfaces are able to connect smoke detector and IR detector etc..
	GND	

3.5.4 Wiring Description of External Alarm Output

There are two connection modes of external alarm output, depending on alarm device. For example, IPC can use Mode 1, whereas audible and visual siren can use Mode 2, as shown below.

Figure 3-10 Mode 1

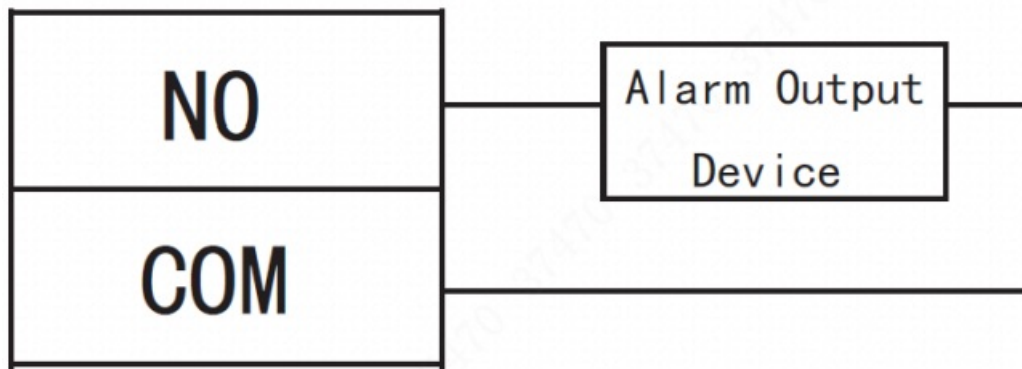


Figure 3-11 Mode 2

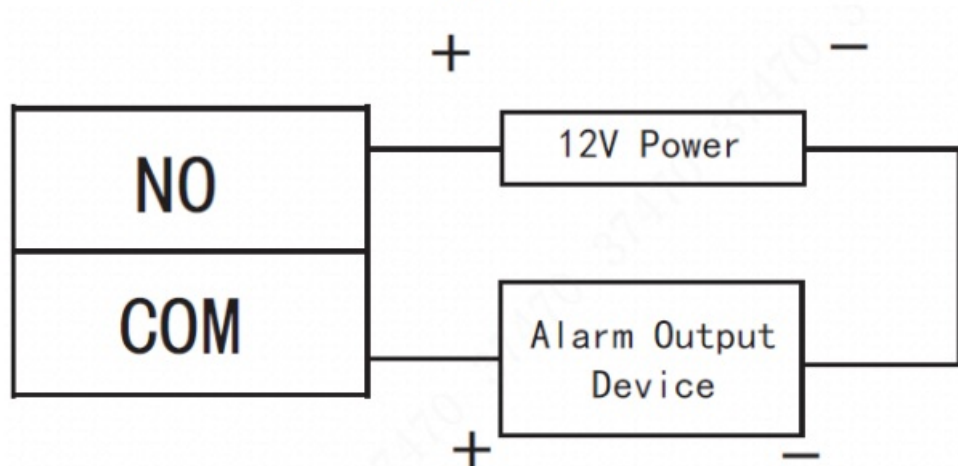


Table 3-5 Wiring terminals descriptions

Interface	Wiring Terminal	Description
External alarm output	NO	External alarm output interfaces are able to connect audible and visual sirens.
	COM	

3.5.5 Wiring Description of Lock

Support 4 groups of lock control outputs; serial numbers after the terminals represent corresponding doors. Please choose a proper connection mode according to lock type. Please refer to Table 3-7 for descriptions of wiring terminals.

Figure 3-12

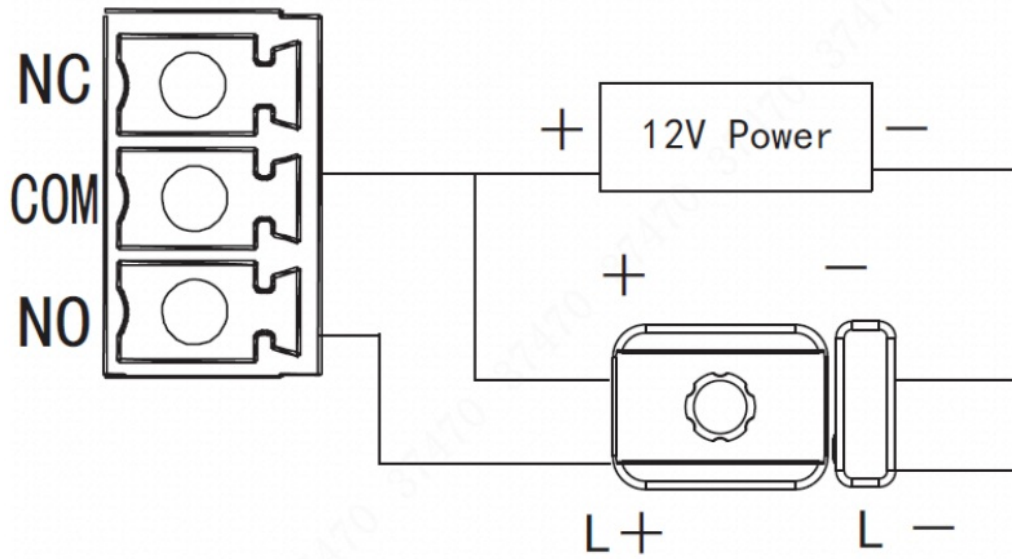


Figure 3-13

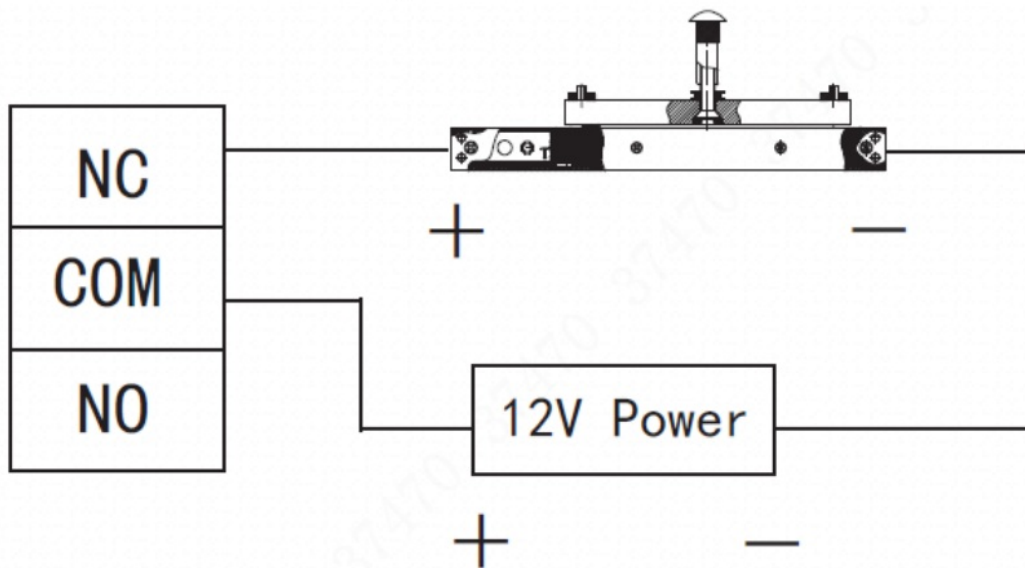


Figure 3-14

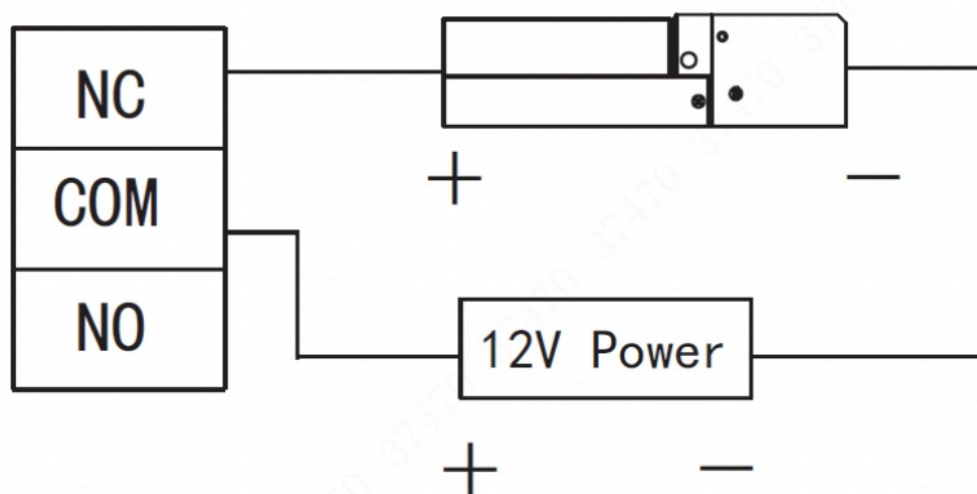


Table 3-6

Interface	Wiring Terminal	Description
Lock control output interface	NC1	Lock control of door 1
	COM1	
	NO1	
	NC2	Lock control of door 2
	COM2	
	NO2	
	NC3	Lock control of door 3
	COM3	
	NO3	
	NC4	Lock control of door 4
	COM4	
	NO4	

3.5.6 Wiring Description of Reader



Note

1 door only supports to connect one type of reader—485 or Wiegand.

Table 3-7 Descriptions of wiring terminals

Interface	Wiring Terminal	Cable Color	Description
Entry Reader of Door 1	485+	Purple	485 reader
	485-	Yellow	
	LED	Brown	Wiegand reader
	D0	Green	
	D1	White	
	CASE	Blue	
	GND	Black	Reader power supply
	12V	Red	

Table 3-8 Descriptions of video cable specification and length

Reader Type	Connection Mode	Length
485 Reader	CAT5e network cable, 485 connection	100m
Wiegand Reader	CAT5e network cable, Wiegand connection	30m

3.6 DIP Switch

Set device number and speed with DIP switch.



• the switch is at ON position, meaning 1.



• the switch is at the bottom, meaning 0.

Figure 3-15

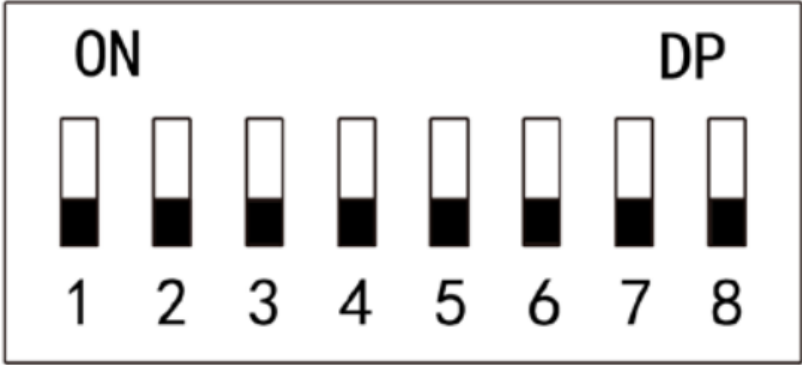
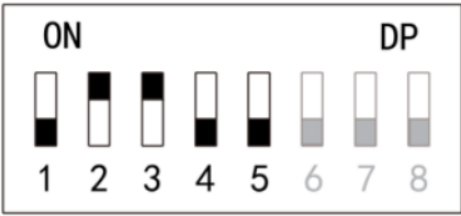
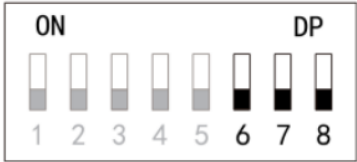
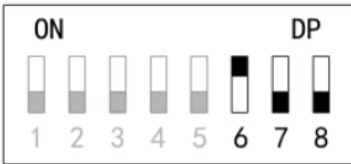
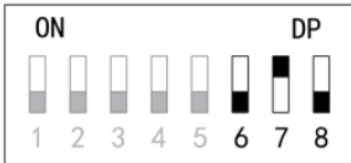
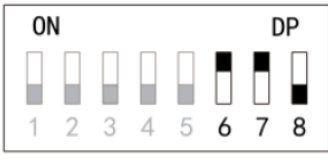


Table 3-9

Function	No.	Description
Device Number	1 5	<p>Set device number with binary system. The left is the lowest order. For example:</p>  <p>Binary representation 00110 corresponds to 6 in decimal system.</p>
Speed	6 8	<p>Set the speed.</p> <p>• All of them are at the bottom , transmission speed is 50kb/s.</p> <p>• Only digit 6 is at ON position , transmission speed is 80kb/s.</p> <p>• Only digit 7 is at ON position , transmission speed is 100kb/s.</p> <p>• Digits 6 and 7 are at ON position , transmission speed is 125kb/s.</p>

3.7 Reboot

Insert a needle into RESET hole, and long press the reboot controller.

Appendix 1 Technical Parameters

Table 3-10

Parameter	Specification
Processor	32-bit ARM processor
Storage Capacity	16M
Max User	20,000
Max Record	30,000
Communication Port of Reader	Wiegand,RS485
Communication Port	CAN
Quantity of Connected Reader	4 groups
Working Power	Rated power 10V-15V DC, rated current 0.75A
Real-time Monitoring	Support
Fire Alarm Linkage	Support
Vandal-proof Alarm	Support
Illegal Intrusion Alarm	Support
Unlock Overtime Alarm	Support
Duress Card Setup	Support
DST and Time Sync	Support
Online Upgrading	Support

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.



Documents / Resources

 <p>V1.0.3</p>	<p>dahua DHI-ASC1204B EOL Four Door Access Controller [pdf] User Manual DHI-ASC1204B, EOL Four Door Access Controller, DHI-ASC1204B EOL Four Door Access Controller, Four Door Access Controller, Access Controller, Controller</p>
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References

- [AffordableLaundry.com is for sale | HugeDomains](#)