

General

This document elaborates on structure, installation and wiring of two-door one-way access controller.

Safety Instructions

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

Signal Words	Meaning	
	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, lower performance, or unpredictable result.	
©TIPS	Provides methods to help you solve a problem or save you time.	
	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 manual, CD-ROM, QR code or our official website. If there is inconsistency between paper 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 manual (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.

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Overview

Two-door one-way access controller is a controlling device which compensates video surveillance and visual intercom. It has neat and modern design with strong functionality, suitable for commercial building, corporation property and intelligent community.

1.1 Functional Feature

Its rich functions are as follows:

- Adopt slide rail and lock-controlled design, convenient installation and maintenance.
- Integrate alarm, access control, video surveillance and fire alarm.
- Support 2 sets of card readers.
- Support 6 groups of signal input (exit button*2, door contact*2 and intrusion alarm*2).
- Support 4 groups of control output (electric lock *2 and alarm output *2).
- With RS485 port, it may extend to connect control module.
- FLASH storage capacity is 16M (which may extend to 32M). Support max. 100,000 card holders and 150,000 card reading records.
- Support illegal intrusion alarm, unlock timeout alarm, duress card and duress code setup. Also support black-white list and patrol card setup.
- Support valid time period setting, password setting and expiration date setting of cards. Regarding guest card, its time of use can be set.
- Support 128 groups of schedules and 128 groups of holiday schedules.
- Permanent data storage during outage, built-in RTC (support DST), online upgrade.

1.2 External Dimension

Its appearance and dimension is shown in Figure 1-1 and Figure 1-2. The unit is mm.

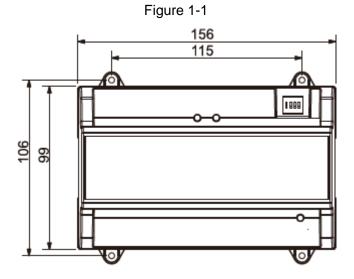
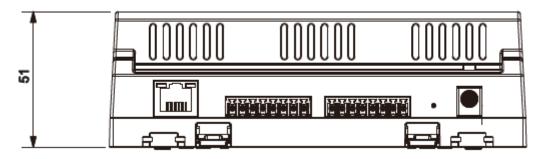


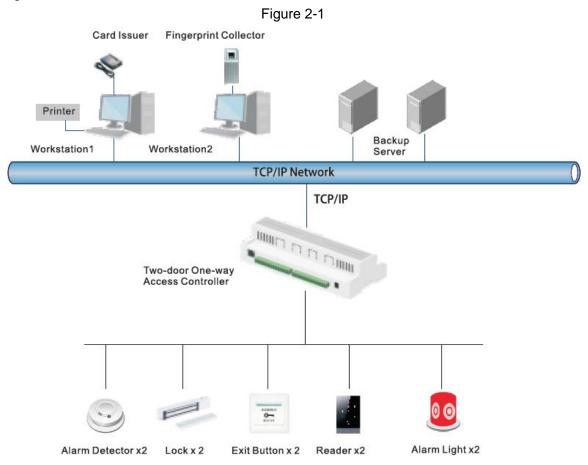
Figure 1-2



2 Installation Guide

2.1 System Structure

System structure of two-door one-way access controller, door lock and reader is shown in Figure 2-1.



2.2 Device Installation

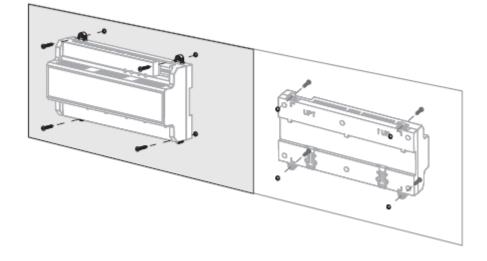
There are two installation modes.

- Mode 1: fix the whole device onto the wall with screws.
- Mode 2: with U-shaped guide rail, hang the whole device onto the wall (the U-shaped guide rail is an optional fitting).

Mode 1

Installation diagram is shown in Figure 2-2.

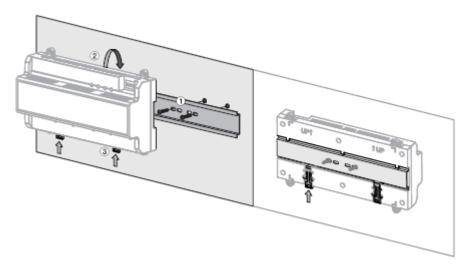




Mode 2

Installation diagram is shown in Figure 2-3.

Figure 2-3

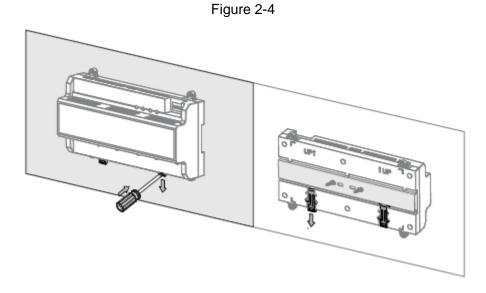


- <u>Step 1</u> Fix the U-shaped guide rail onto the wall with screws.
- <u>Step 2</u> Buckle the upper rear part of the device into upper groove of the U-shaped guide rail.
- <u>Step 3</u> Push the snap joint at the bottom of the device upwards. The installation is completed when you hear the fitting sound.

2.3 Disassembly

If the device is installed with mode 2, please disassemble it according to Figure 2-4.

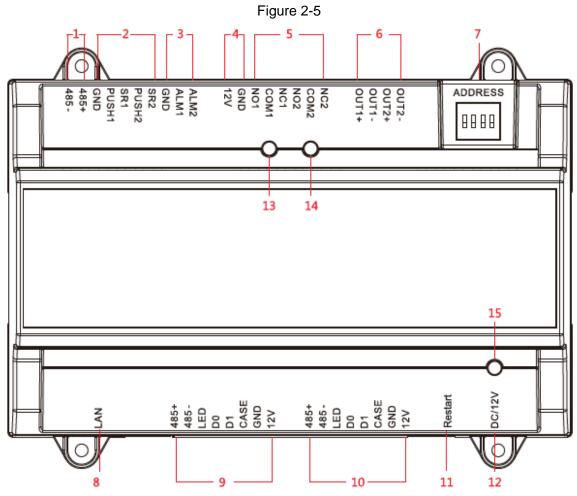
Align a screwdriver with the snap joint, press it down and the snap joint will pop up, so the whole device can be disassembled smoothly.



2.4 Wiring Diagram

2.4.1 Wiring Description of Access Controller

This device supports two-door one-way in or out. In case of alarm input, trigger external alarm output device to give an alarm. Device wiring diagram is shown in Figure 2-5.



Interfaces are described in Table 2-1.

2-1

Port Description	No.	Port Description		
RS485 communication	7	DIP switch		
Exit button and door contact	8	TCP/IP, software platform port		
External alarm input	9	Reader of door 1		
Lock power output	10	Reader of door 2		
Lock control output	11	Restart		
Alarm output	12	DC 12V power port		
	RS485 communication Exit button and door contact External alarm input Lock power output Lock control output	RS485 communication7Exit button and door contact8External alarm input9Lock power output10Lock control output11		

Indicator lights are described in Table 2-2.

Τa	able	2-2

No.	Description	
13	Door lock indicator status	
14		
15	Power indicator LED	

2.4.2 Wiring Description of Exit Button/Door Contact

Corresponding wiring terminals of exit button and door contact are shown in Figure 2-6. Please refer to Table 2-3 for descriptions of wiring terminals.

Figure 2-6

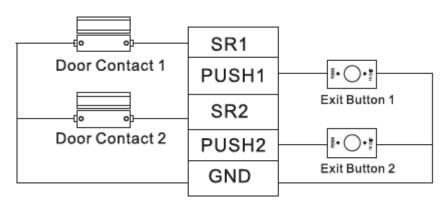


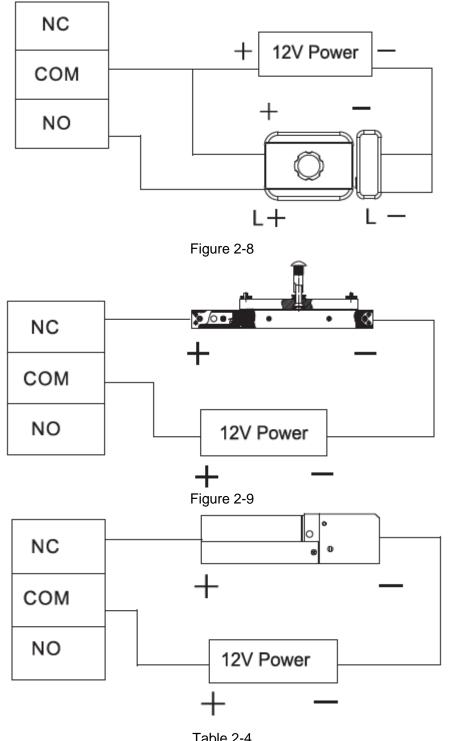
Table 2-3	
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Port Wiring Terminal Description		Description
	SR1	Door contact input of door 1
Evit button Lidoor	PUSH1	Exit button of door 1
Exit button+ door	SR2	Door contact input of door 2
contact	PUSH2	Exit button of door 2
	GND	Shared by exit button, door contact input and RS485

2.4.3 Wiring Description of Lock

Support 2 groups of lock control outputs; serial numbers after the terminals represent corresponding doors. Please choose a proper connection mode according to lock type, as shown in Figure 2-7, Figure 2-8 and Figure 2-9. Please refer to Table 2-4 for descriptions of wiring terminals.

Figure 2-7



Port	Wiring Terminal	Description
	NC1	
	COM1	Lock control of door 1
Lock control output	NO1	
port	NC2	
	COM2	Lock control of door 2
	NO2	

2.4.4 Wiring Description of Reader

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

Please refer to Table 2-5 for descriptions of wiring terminals corresponding to readers. Take door 1 for example; other readers are the same. Please refer to Table 2-6 for descriptions of reader cable specification and length.

Table 2-5				
Port	Wiring Terminal	Cable Color	Description	
	485+	Purple	195 roadar	
	485-	Yellow	485 reader	
	LED	Brown		
Entry Reader of	D0	Green	Wiegend reader	
Door 1	D1	White	Wiegand reader	
	CASE	Blue		
	GND	Black	Boodor powor oupply	
	12V	Red	Reader power supply	

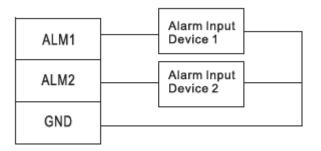
Table 2-6

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

2.4.5 Wiring Description of External Alarm Input

2-ch external alarm input connection is shown in Figure 2-10. Please refer to Table 2-7 for descriptions of wiring terminals.





Ta	ble	2-7

Port	Wiring Term	ninal	Description		
	ALM1	Alarm input port 1	External alarm input ports are able to		
	ALM2	Alarm input port 2	connect smoke detector and IR		
External alarm			detector etc		
input	GND	Shared by alarm input port 1 and 2	External alarm can link door open		
			and closed status.		
			 ALM1 external alarm links all 		

Port	Wiring Term	Wiring Terminal		scription
				doors to be normally open.
			•	ALM2 external alarm links all
				doors to be normally closed.

2.4.6 Wiring Description of Alarm Output

With 2-ch alarm output, after internal alarm input (such as door timeout) or external alarm input triggers an alarm, the alarm output device gives an alarm for 15s.

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 in Figure 2-11 and Figure 2-12. Please refer to Table 2-8 for descriptions about wiring terminals.

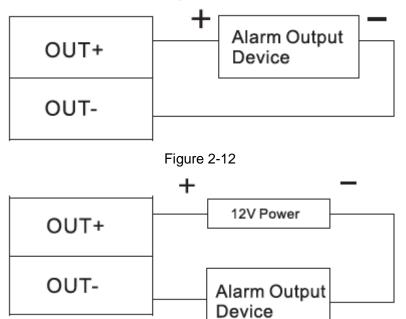


Figure 2-11

Ta	ble	2-8
I a		2-0

+

Port	Wiring Termin	al		Description	
	OUT1+	•	ALM1 triggers alarm output.		
		•	Door timeout and intrusion		
	OUT1-		alarm output of door 1.		
	0011-	•	Tamper alarm output of reader	Internal and external	
External			of door 1.	alarm output ports are	
alarm output	OUT2+	٠	ALM2 triggers alarm output.	able to connect audible	
		•	Door timeout and intrusion	and visual sirens.	
	OUT2-			alarm output of door 2.	
		•	Tamper alarm output of reader		
			of door 2.		

2.4.7 Description of Alarm Input and Output Rule

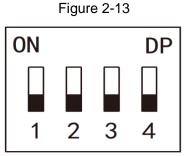
In case of alarm event, the alarm continues for 15s. Please refer to Table 2-9 for detailed alarm input and output rules.

Alarm Type	Alarm Signal Input Port	Alarm Signal Output Port	Alarm Status
External alarm	ALM1	OUT1	Link all doors to be normally open.
input	ALM2	OUT2	Link all doors to be normally closed.
	SR1	OUT1	Door timeout and intrusion alarm
Internal alarm	SR2	OUT2	trigger external alarm to give an alarm.
input	RS-485/CASE	OUT1	Tamper alarm of reader triggers
	RS-485/CASE	OUT2	external alarm to give an alarm.

Table 2-9

2.5 DIP Switch

Operate with DIP switch.



- Lthe switch is at ON position, meaning 1.
- the switch is at the bottom, meaning 0.
- $1 \sim 4$ are all 0; the system is started normally.
- $1 \sim 4$ are all 1; the system enters BOOT mode after start.
- 1 and 3 are 1, while others are 0. After restart, the system restores factory defaults.
- 2 and 4 are 1, while others are 0. After restart, the system restores factory defaults, but user info is retained.

2.6 Restart

Insert a needle into restart hole, press it once to restart the device.

Restart button is to restart the device, rather than modifying configuration.

3 Smart PSS Config

Access controller is managed with Smart PSS client, so as to realize control and right configuration of one door and door groups.

This chapter mainly introduces quick configuration. For specific operations, please refer to User's Manual of Smart PSS Client.

D NOTE

Smart PSS client offers different ports for different versions. Please refer to actual port.

3.1 Login Client

Install the matching Smart PSS client, and double click to run. Carry out initialization configuration according to interface prompts and complete login.

3.2 Add Access Controller

Add access controller in Smart PSS; select "Auto Search" and "Add".

3.2.1 Auto Search

Devices are required to be in the same network segment.

- Step 1 In "Devices" interface, click "Auto Search", as shown in Figure 3-1.
 - The system displays "Auto Search" interface, as shown in Figure 3-2.

			Figu	re 3-′	1				
PSS	Devices	New	+						□ × 13:42:55
+ Add	🔟 Delete	Import	ŷ ⁻ Backup				All Devices: 0	Online Devices:	
Name	P/Domain Name	Device Type	Device Model						
	PSS + Add Name	+ Add	▲ + Add ⑪ Delete	PSS Devices New + + Add î Delete ♣ Import ৵ Backup	PSS Devices New + + Add 10 Delete - → Import 分 Backup	+ Add 10 Delete i≷ Import 分 Backup	PSS Devices New + + Add 10 Delete & Import ŷ Backup	PSS Devices New + + Add	PSS Devices New +

Auto Search				×
	Device	Segment: 169 . 254 . 219	9 0 - 169 254 219 25	5 Search
⊖ Refresh	Modify IP		Search D	evice Number: 2
No.	IP 🔺	Device Type	MAC Address	Port
1	10.18.116.20	PC-NVR-V3.0	A0:8C:FD:E7:6B:DF	37777
2	10.18.116.61	PC-NVR-V3.0	00:0E:C6:DF:44:EA	37777
			_	
				Add Cancel

<u>Step 2</u> Input device segment and click "Search".

The system displays search results.

- Click "Refresh" to update device information.
- Select a device, click "Modify IP" to modify IP address of the device. For specific operations, please refer to User's Manual of Smart PSS Client.
- Step 3 Select the device that needs to be added, and click "Add".
 - The system pops up "Prompt".
- Step 4 Click "OK".
 - The system displays "Login Information" dialogue box, as shown in Figure 3-3.

Figure 3-3

login information					×
User Name:	*]
Password:					
		OK	Г	Cancel	

Step 5 Input "User Name" and "Password" to log in the device, and click "OK".

The system displays the added device list, as shown in Figure 3-4. Please refer to Table 3-1 for details.

Figure 3-2

- After completing adding, the system continues to stay at "Auto Search" interface.
 You can continue to add more devices, or click "Cancel" to exit "Auto Search" interface.
- After completing adding, Smart PSS logs in the device automatically. In case of successful login, online status displays "Online". Otherwise, it displays "Offline". Figure 3-4

				3.				
SMAR	T PSS	Devices	+				◆10 1	☆
Q Auto Se	arch $+$ Add	🔟 Delete	🗞 Import 🧳	Backup			All Devices: 3	Online Devices: 1
All Devic	e Access Cor	ntroller						
No.		P/Domain Name	Device Type	Device Model				
1	ASC1202B-S	10.172.22.142	Access Controller	ASC1202B-S	0/0/4/0	Online		⇙৷✡[⇔⑪

Table	3-1
-------	-----

lcon	Description						
	Click this icon to enter "Modify Device" interface and modify device info,						
${\mathscr O}$	including device name, IP/domain name, port, user name and password.						
	Alternatively, double click the device to enter "Modify Device" interface.						
¢	Click this icon to enter "Device Config" interface and configure device						
***	camera, network, event, storage and system info.						
🗗 and 🔄	 When the device is online, the icon is E. Click this icon to exit login, and this icon turns to E. When the device is offline, the icon is E. Click this icon to login (with correct device info), and this icon turns to E. 						
Ŵ	Click this icon to delete the device.						

3.2.2 Manual Add

To add devices, device IP address or domain name shall be known first.

<u>Step 1</u> In "Devices" interface, click "Add", as shown in Figure 3-5.

The system pops up "Manual Add" interface, as shown in Figure 3-6.

Figure 3-5

SMART P	ss	Devices	New	+		• • •	. 🌣 🝊 🗕 🗆 🗙 13:42:55
Q Auto Search	+ Add	🗊 Delete	🗞 Import	ŷ ⁻ Backup		All Devices: 0	Online Devices: 0
All Device							
No.		 P/Domain Name 	Device Type	Device Model			Operation

Figure 3-6

Manual Add		×
Device Name:	*	
Method to add:	IP/Domain 🗸	
IP/Domain Name:		
Port:	* 37777	
Group Name:	Default Group 🔻	
User Name:		
Password:		
	Save and Add	Cancel

<u>Step 2</u> Set device parameters. For specific parameter descriptions, please refer to Table 3-2.

Parameter	Description			
Device Name	It is suggested that device name should be named by			
Device Name	the monitoring zone, so as to facilitate maintenance.			
Method to add	Select "IP/Domain Name". Add devices according to			
	device IP address or domain name.			
IP/Domain Name	IP address or domain name of the device.			
Port	Port number of the device. Default port number is			
FUIL	37777. Please fill in according to actual conditions.			
Group Name	Select the group of the device.			
User Name and Password	User name and password of the device.			

Table 3-2

<u>Step 3</u> Click "Add" to add a device.

The system displays the added device list, as shown in Figure 3-4. Please refer to Table 3-1 for details. Doors of the added controller are displayed under "Access" tab, as shown in Figure 3-7.

- To add more devices, click "Save and Continue", add devices and stay at "Manual Add" interface.
- To cancel the adding, click "Cancel" and exit "Manual Add" interface.
- After completing adding, Smart PSS logs in the device automatically. In case of successful login, online status displays "Online". Otherwise, it displays "Offline".

Figure 3-7

S	MART PSS	Access	Devices	+				• •	¢ 06	— □ × 10:35:18
	Organizations Search. Q ↑ . Default Group ↑ ASC1202B-S	Door 1		Doo	r 2					
		🔛 List								· ·
		Event Info	🗹 Al		Alarm 🗹 Al	onor 🗹 Norma	al			උ ම
							•	ID: Name: Departm Tel:	ent:	
	Global Control							Card No.:		
	Always Open Always Close							Surd NO.		

3.3 Add User

Add users and bind with cards, so as to distribute authority.

In "New" interface, click "Access" to enter "Access" interface, and complete access config here.

Figure 3-8										
SMART PSS	New +				● ± ☆ a	— □ × 09:03:16				
Operation										
\bigcirc					Ø					
Live View	Access	Intercom	Video Wall	Event	Attendance					
Search										
\otimes	1	0	01							
Playback	People Counting	Heat Map	Log							
Configuration										
			\odot		2					
Devices	Device CFG	Event Config	Tour & Task	PC-NVR	User					

3.3.1 Card Type



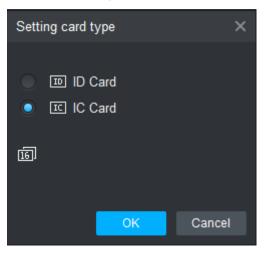
Card type shall be the same with card issuer; otherwise, it fails to read card number.

In "Access" interface, click and then click to set the card type, as shown in Figure 3-9 and Figure 3-10.

Figure 3-9

SMAF	RT PSS	Devices	Access	+	. 0		±¢α –	□ X 15:36:14
Depar	rtment List(0)	0 ø,	19 10	è ŷ ₪		I	D / Name / Card	Q
💼 Sea	ırch Q		User ID 📥		Card Type			nt Count
	Default Department(0)							
								. S.
								3
		No /Dees	20 🔻					
		No./Page	20			e de la composición de		

Figure 3-10

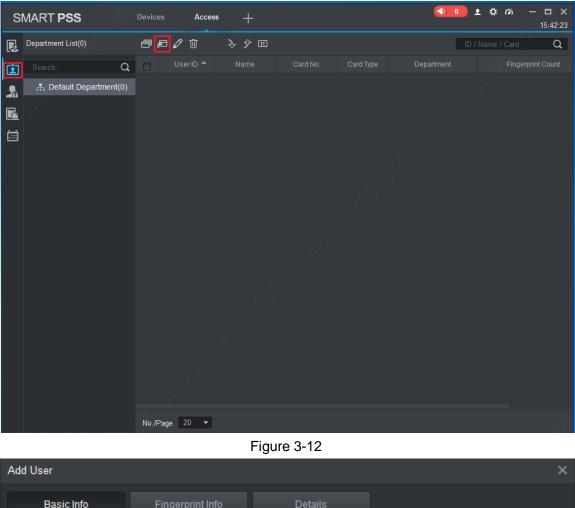


3.3.2 Single Add

Add a single user, send a card and input user info.

<u>Step 1</u> In "Access" interface, click The system pops up "Add User" dialog box, as shown in Figure 3-12.

Figure 3-11



Basic Info	Fingerprint Info	De	etails				
User ID:							
Name:							
Department:	Default Department	•				5	
Card No.:	Card Reader not ready!		Card issuer	•		Γ	
Card Type:	General Card	•					
Card Password:					0:0 11		J
Unlock Password:				_	Size:0 ~ 12 Upload Pictu		
	200						
Valid Time:	2018/7/11 0:00:00		2028/7/11 2	3:59:59		3654	Days
				Continue t	Finish	C	ancel

<u>Step 2</u> Add user info manually, including basic info, fingerprint info and details. Please refer to Table 3-3 for details.

Table 3-3

Parameter	Description
	User ID (mandatory).
	Name (mandatory).
	Department (auto association).
	Card No.: input by card reader or input manually.
	• Card type: general card, VIP card, guest card, patrol card,
	blacklist card and duress card.
Basic Info	 Card Password: it is used to open the door with card + password.
	• Unlock Password: it is used to open the door with password.
	Number of Use: it only applies to guest card.
	• Valid Time: set the valid time of card, which is 10 years by
	default.
	• Picture: user picture, max. 120K.
	NOTE NOTE
	Card no. and user ID cannot be repeated.
	Collect fingerprints with fingerprint reader and access reader.
Fingerprint Info	Max. 2 fingerprints for every person.
	Support to enter fingerprint name.
Details	Fill in detailed user info according to interface parameters.

<u>Step 3</u> Click "Finish" to finish adding the users.

3.4 Add Door Group

Divide doors into groups and manage them together.

Step 1 In "Access" interface, click Access Level", as shown in Figure 3-13.

Figure 3-13

SI	MAF	RT PSS	Access	+		◆● ± ☆	₼ — □ × 09:17:17
R		Name:		TimeZone: All	✓ Search		
Ŀ		Add De	lete				
2					Door Group Details Name: Door List1	TimeZone:All Day	
		Door List1	All Day	Ø 2+ Ū	Door List(1)	Person list(0)	
					master controller-Door 1		Department
	No./	Page 20 🔻					

Step 2 Click "Add".

The system pops up "Add Door Group" dialog box, as shown in Figure 3-14.

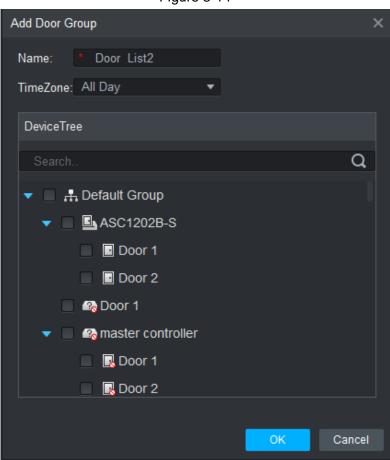


Figure 3-14

Step 3 Enter "Name"; select "Time Zone" and doors to be managed. Step 4 Click "OK" to complete adding.

3.5 Authorize

Grant users authorities according to door group and user.

3.5.1 Authorize According to Door Group

Select a door group, add corresponding users to the group, so all users in the group obtain authority of all doors in the group.

Step 1 In "Access" interface, click 2, and then click "Access Level", as shown in Figure 3-15.

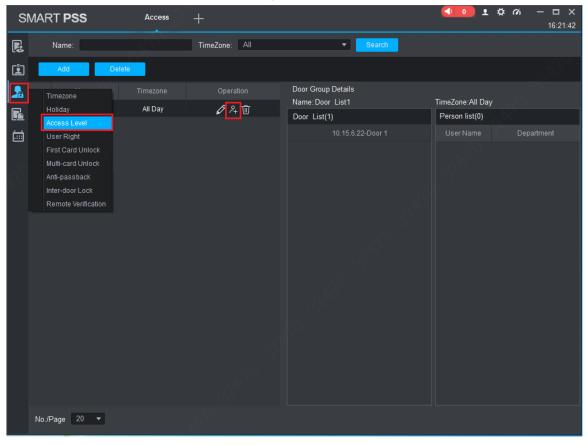


Figure 3-15

Step 2 Click

The system pops up "User Select" dialog box.

Step 3 Select the user's department from dropdown list, or enter the user's ID or name directly, as shown in Figure 3-16.

Figure 3-16

User Select			×
Name: Do	oor List1		
User List			Ū -I
User ID		Department	Operation
Dropdown list	•	User ID/N	Vame Q
User ID		De	epartment
an Star			
			$[-\mathcal{O}_{\mathcal{D}_{\mathcal{A}}}]$
the second s			

<u>Step 4</u> In the search list, select the user and add to user list.

<u>Step 5</u> Click "OK" to finish authorization.

- The search list filters user info without card number.
- In the user list, cancel the added user and delete the user's authority.

3.5.2 Authorize According to User

Select a user, distribute door group and grant door group authority to the user.

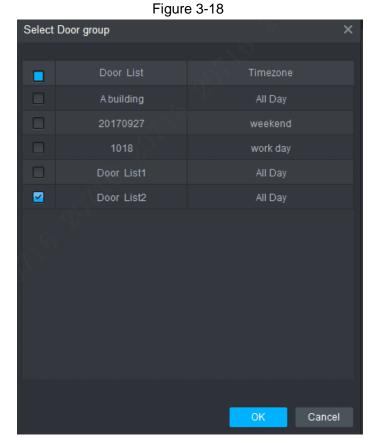
Step 1 In "Access" interface, click And then click "User Right", as shown in Figure 3-17.

Figure 3-17

SI	MART PSS	Access -	ł		1	●● ± ♥ @	% — ◻ X 16:29:51
E	Department List	ID / Name /	Card Q				
٤	Search Q	User ID			Operation Door Group In	nfo	
2	🕂 Default Department(1)	1111	Jack	Default Department	Ø		Timezone
							100
		No./Page 20) 🔻				

Step 2 Click

The system pops up "Select Door Group" dialog box, as shown in Figure 3-18.



<u>Step 3</u> Select the door group and click "OK" to finish authorization.

For problems not included hereinafter, please contact local customer service personnel or consult headquarter customer service personnel. We will be always at your service.

1. Question: After power on, power indicator doesn't turn on or the buzzer doesn't respond.

Answer: Please check whether power plug is inserted in place. Please pull it out and insert it again.

2. Question: After the reader is connected with the device, card swiping light doesn't turn on, and it doesn't respond after swiping a card.

Answer: Please check whether reader connector is inserted in place. Please pull it out and insert it again; check whether reader contact light turns on.

3. Question: Client software fails to detect the device.

Answer: Please check whether TCP/IP connector is connected properly, and whether device IP is in the same network segment.

4. Question: After swiping card, it prompts that card is invalid.

Answer: Please check whether this card number has been added in the controller.

5. Question: Default IP of access controller.

Answer: Default IP address is 192.168.0.2.

6. Question: Default port, initial user name and password of access controller.

Answer: Default port is 37777, initial user name is admin and password is 123456.

7. Question: Online upgrade of the device.

Answer: Connect the device and platform through network, and upgrade it at the platform.

8. Question: Max. wiring distance and transmission distance of card reader and controller.

Answer: It depends on network cable type and whether it needs power supply of control relay.

Connected with CAT5E network cable, typical value is:

- RS485, 100m.
- Wiegand, 100m.

Appendix 1 Cybersecurity Recommendations

Cybersecurity is more than just a buzzword: it's something that pertains to every device that is connected to the internet. IP video surveillance is not immune to cyber risks, but taking basic steps toward protecting and strengthening networks and networked appliances will make them less susceptible to attacks. Below are some tips and recommendations on how to create a more secured security system.

Mandatory actions to be taken for basic equipment 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 equipment (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 equipment 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 equipment network security:

1. Physical Protection

We suggest that you perform physical protection to equipment, especially storage devices. For example, place the equipment 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 equipment (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 equipment 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. Enable Whitelist

We suggest you to enable whitelist function to prevent everyone, except those with specified IP addresses, from accessing the system. Therefore, please be sure to add your computer's IP address and the accompanying equipment's IP address to the whitelist.

8. MAC Address Binding

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

9. Assign Accounts and Privileges Reasonably

According to business and management requirements, reasonably add users and assign a minimum set of permissions to them.

10. 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.

11. 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.

12. Secure Auditing

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

13. Network Log

Due to the limited storage capacity of the equipment, 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.

14. Construct a Safe Network Environment

In order to better ensure the safety of equipment 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.