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Preface

Overview

This document elaborates device structure, installation and system function of waterproof standalone access controller.

Symbol Definition

The following symbols may appear in the document. Please refer to the table below for the respective definition.

Symbol	Note
Danger	It indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
Marning	It indicates a moderate or low level of potential danger which, if not avoided, could result in minor or moderate injury.
	It indicates a potential risk that, if ignored, could result in damage to device, loss of data, degraded performance, or unpredictable results.
Anti-static	It means electrostatic-sensitive device.
Protection against electric shock	It means high-voltage danger.
Laser radiation	It means intensive laser radiation.
© Tip	It means that it can help you to solve some problems or save your time.
Note	It means the additional information, which is to emphasize or supplement.

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 wires (power wires) recommended by this area, which shall be used within its rated specification!
- Please make sure to use standard power adapter matched with this device. Otherwise, the user shall undertake resulting personnel injuries or device damages.
- 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

Waterproof standalone access controller integrates card reading, config and execution functions. With a neat appearance and IPX6 waterproof grade, it can be used outdoors.

Its abundant function is as follows:

- Touch keyboard, TCP/IP protocol, support 30,000 valid cards and 60,000 records.
- Support to unlock via card, card + password and user ID + password.
- Support door overtime alarm, intrusion alarm, duress alarm, and tamper alarm.
- Add guest card, duress card, black/white list and patrol card, while support period of validity or times.
- Support 128 groups of schedule, 128 groups of period and 128 groups of holiday period.



2.1 Device Dimension

Device dimension is shown in Figure 2-1.

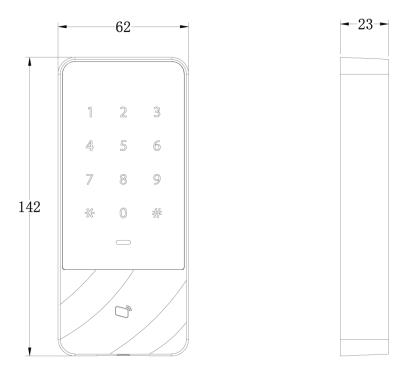
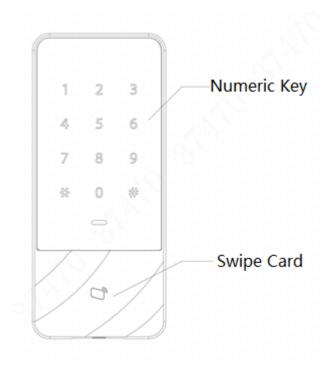


Figure 2-1

2.2 Device Structure





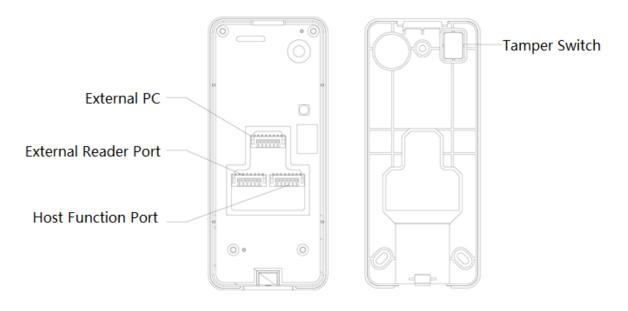
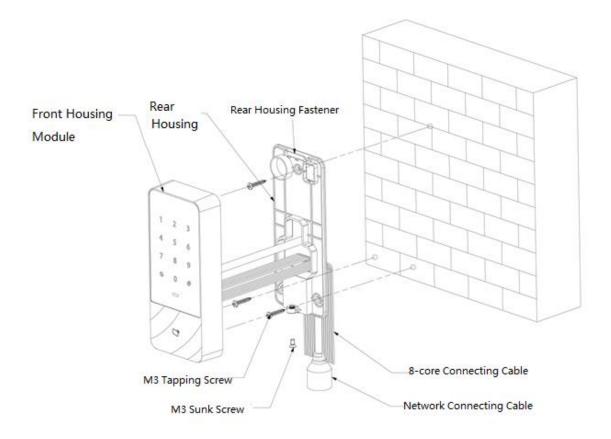


Figure 2-3

2.3 Device Installation



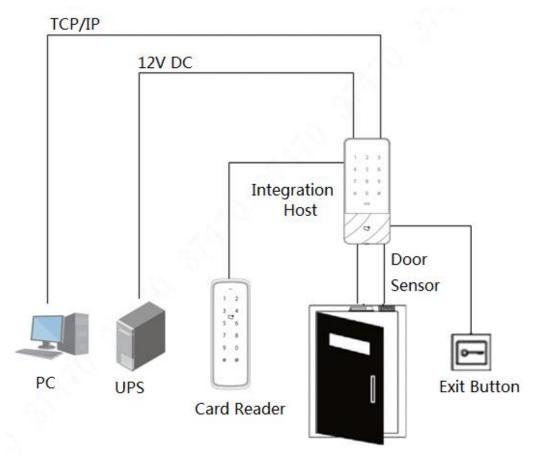


- Step 1 Fix the rear housing onto the wall with M3 tapping screw; reserve a wiring space for networking connecting cable between the rear housing and wall.
- Step 2 Pass the network connecting cable and two 8-core connecting cable from the space between rear housing and wall, neaten them in wiring duct, and then tighten M3 tapping screw.
- Step 3 Push the top of front housing module into rear housing fastener, close the lower part, and tighten M3 sunk screw at the bottom.



3.1 System Structure Diagram

The device, card reader, alarm device, access control PC and etc. compose a system as in Figure 3-1.





3.2 Wiring

Wiring terminals of the device is shown in Figure 3-2. Please refer to Table 3-1 for details.

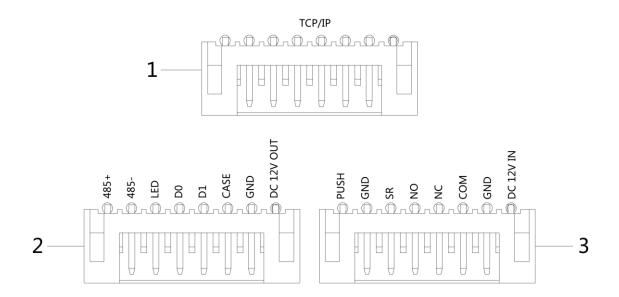


Figure 3-2				
No.	Terminal	Description		
1	RJ45	TCP/IP, network interface.		
	485+	RS485+, 485 reader.		
	485-	RS485-, 485 reader.		
	LED	Wiegand card swiping indicator signal line		
2	D0	D0, Wiegand reader.		
2	D1	D1, Wiegand reader.		
	CASE	Tamper input of reader.		
	GND	Connect GND.		
	DC 12V OUT	DC 12V power supply of reader.		
	PUSH	Connect the exit button.		
	GND	Connect GND, which is shared by door sensor and exit		
		button.		
	SR	Door sensor detection.		
3	NO	NO end of door lock.		
	NC	NC end of door lock.		
	СОМ	Lock relay.		
	GND	Connect GND.		
	DC 12V IN	DC 12V power input.		

Table 3-1

4

4.1 Enter Main Menu

Touch the panel to wake it up; enter the main menu to set corresponding functions.

Step 1 Touch the panel to wake it up, and press [#] key.

Note Note

Indicator light is blue and normally on and numeric keyboard turns on, representing that the panel has been woken up.

Functional Setting

Step 2 Input admin password and press [#] key.

Note Note

- Default admin password is 888888888.
- Indicator light is blue and flashing, which means that you've entered main menu successfully.
- Indicator light is red and normally on; after the buzzer beeps for three times, the indicator light is blue and normally on. It means that wrong password was input, so it failed to enter the main menu.

After entering the main menu, press numeric keys to set corresponding functions. Please refer to Table 4-1 for the relation between numeric keys and functions.

III Note

- After setting the functions, press [*] key to return to previous menu.
- At the main menu, press [*] key to exit the main menu.

Numeric Key	Function
0	Modify admin password.
1	Add user.
2	Delete user.
3	Unlock verification mode.
4	Set the hold time of door lock relay.
5	Device working mode.
6	Enable door sensor.
9	Restore defaults.

Table 4-1

4.2 Modify Admin Password

Note Note

For security, please modify admin password timely.

Step 1 Press [#] + admin password, and press [#] again to enter the main menu.

- Step 2 Press [0] + [#] key.
- Step 3 Input new password and press [#] key.
- Step 4 Input the new password again (both new password shall be the same), and press **[#]** key.

Password is modified successfully. Please login with the new password next time. $\fboxspace{1.5mu}$ \mbox{Note}

- Indicator light is green and normally on, and the buzzer beeps once, which means that password has been modified successfully.
- Indicator light is red and normally on, and the buzzer beeps for three times, which means that it failed to modify the password.

4.3 Add User

Add a user and associate the user with card.

Step 1 Press [#] + admin password, and press [#] again to enter the main menu.

- Step 2 Press [1] + [#] key to add a user.
 - Add user ID (1 to 8 digits). Input ID and end up with [#] key.
 Note

If the user ID exists already, it will fail to be added.

Add a card. Swipe a card and end up with [#] key.
 Note

If card number is not needed, press [#] key directly to skip this step.

- 3. Add password (1 to 8 digits).
 - ♦ If it is necessary to set password, input a password and press **[#]** key.
 - Otherwise, press **[#]** key directly.
 - Note Note

Please set the password if you don't swipe card to add card number. If password is not set, it will fail to be added.

One user is added after completing above 3 steps. Continue to add other users in this way.

After adding users, the system stays at "Add User" menu. Please press [*] key to return to the main menu.

Note Note

- Indicator light is green and normally on, and the buzzer beeps once, which means that the user has been added successfully.
- Indicator light is red and normally on, and the buzzer beeps for three times, which
 means that it failed to add the user.

4.4 Delete User

Delete user info; the corresponding card info will be deleted and it won't have right to unlock the door.

Step 1 Press [#] + admin password, and press [#] again to enter the main menu.

Step 2 Press [2] + [#] key.

- Swipe the card directly and press [#] key to delete the user.
- Input ID and press [#] key to delete the user.
- Input 0000 and press [#] key to delete all users.

After deleting users, the system stays at "Delete User" menu. Please press [*] key to return to the main menu.

Note Note

- Indicator light is green and normally on, and the buzzer beeps once, which means that the user has been deleted successfully.
- Indicator light is red and normally on, and the buzzer beeps for three times, which means that it failed to delete the user.

4.5 Set Unlocking Mode

According to needs, set to unlock with card, card + password or user ID + password. Default mode is card or user ID + password.

- Step 1 Press [#] + admin password, and press [#] again to enter the main menu.
- Step 2 Press [3] + [#] key.
- Step 3 Select unlocking mode.
 - Card: unlock by swiping a card.

Press [0] + [#] key.

• Card + password: swipe the card and then input password.

Press [1] + [#] key.

• User ID + password: input user ID+ [#] key, and then input password + [#] key to unlock.

Press [2] + [#] key.

After setting is completed, the system returns to the main menu automatically. Press [*] to exit main menu.

4.6 Set Opening Time

With a relay, control door hold time. The door is kept open during the hold time, and is closed automatically after this period.

- Step 1 Press [#] + admin password, and press [#] again to enter the main menu.
- Step 2 Press [4] + [#] key.
- Step 3 Input the time (ranging from 1 to 600s) and press [#] key.

After setting is completed, the system returns to the main menu automatically. Press [*] to exit main menu.

4.7 Set Device Working Mode

The waterproof standalone access controller has two modes, namely controller and reader.

- Step 1 Press [#] + admin password, and press [#] again to enter the main menu.
- Step 2 Press [5] + [#] key.
- Step 3 Select working mode.
 - Controller: open the door by swiping card. Default device is controller.
 - Press [0] + [#] key.
 - Reader: it only reads card, rather than controlling the door.
 - Press [1] + [#] key.

After setting is completed, the system returns to the main menu automatically. Press [*] to exit main menu.

4.8 Set Door Sensor

Select whether door sensor is enabled or not. After enabling, the buzzer will give an alarm if the door is not closed when the time is out.

- Step 1 Press [#] + admin password, and press [#] again to enter the main menu.
- Step 2 Press [6] + [#] key.
- Step 3 Select whether door sensor is enabled.
 - Disable: it is disabled by default.
 - Press [0] + [#] key.
 - Enable:
 - Press [1] + [#] key.

After setting is completed, the system returns to the main menu automatically. Press [*] to exit main menu.

4.9 Restore Defaults

Restore all configurations to factory defaults.

- Step 1 Press [#] + admin password, and press [#] again to enter the main menu.
- Step 2 Press [9] + [#] key.
- Step 3 Input 000 and press [#] key.

After setting is completed, the system is rebooted automatically.



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

This part mainly introduces quick configuration. For details, please refer to matching user's manual and Smart PSS user's manual.

Note Note

Smart PSS client has different interfaces depending on the versions. Please refer to actual interface.

5.1 Log in Client

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

5.2 Add Access Controller

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

5.2.1 Auto Search

Devices are required to be in the same network segment.

Step 1 In "Devices" interface, click "Auto Search", as shown in Figure 5-1.

The system displays "Auto Search" interface, as shown in Figure 5-2.

SMART P	ess	Devices	New	+	• • •	☆ ぺ − ロ × 13:59:17
Q Auto Search	+ Add	🗊 Delete	🔈 Import	介 Backup	All Devices: 0	Online Devices: 0
All Device						
	Name 🏾 🗖	P/Domain Name	Device Type			Operation

Figure 5-1

Auto Search				×
	Device \$	Segment: 172 26 6	1 - 172 26 6 25	5 Search
⊖ Refresh	(IP) Modify IP		Search D	evice Number: 48
No.	IP 🔺	Device Type	MAC Address	Port
17	172.26.6.78	VTS5240B	0e:3e:68:55:75:66	37777
18	172.26.6.79	VTS5240B	00:00:23:34:45:76	37777
19	172.26.6.82	VTH1510CH	4c:11:bf:4c:0c:4b	37777
20	172.26.6.83	VTO9241D	20:17:11:16:16:51	37777
21	172.26.6.85	VTO9241D	90:02:bb:29:9b:47	37777
22	172.26.6.86	VTH1510	4c:11:bf:3a:cf:0c	37777
23	172.26.6.87	ASA2212A	3c:ef:8c:1f:1b:a9	37777
24	172.26.6.88	VTS5240B	80:0a:c3:a4:f5:66	37777
			_	
				Add Cancel

Figure 5-2

- Step 2 Input device segment and click "Search". The system displays search results.
 - I Note
 - 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" dialog box, as shown in Figure 5-3.

login information		×
User Name:	*	
Password:		
T assword.		
	OK Canc	el



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 5-4.

Note Note

- 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".

SMART P	ss	Devices	New	+				• • •	な ベ ー ロ × 14:10:05
Q Auto Search	+ Add	Delete	🗞 Import	ŷ ⁻ Backup				All Devices: 1	Online Devices: 1
All Device	Access Cont	roller							
v		P/Domain Name	Device Type						Operation
🗹 1 🛛 A	SI1201E	172.26.6.105	Access Cont	ASI1201E	37	0/0/0/0	Online	00000000000	⇙৷✡[⇔৩

Figure 5-4

5.2.2 Manual Add

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

Step 1 In "Devices" interface, click "Add", as shown in Figure 5-5.

The system pops up "Manual Add" interface, as shown in Figure 5-6.

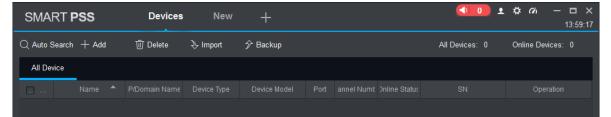


Figure 5-5

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

Figure 5-6

Step 2 Set device parameters. For specific parameter descriptions, please refer to

Parameter	Description
Device Name	It is suggested that device name should be named by
	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 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 5-1.

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		
Poll	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 5-1

Step 3 Click "Add" to add a device.

The system displays the added device list, as shown in Figure 5-4. Doors of the added controller are displayed under "Access" tab, as shown in Figure 5-7. \square Note

- 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".

SMART PSS De		Device	CFG	Devices	Access	s +				0 1	¢ 0)	— C	1 X :14:13
	Organizations SearchQ → ADefault Group → ASI1201E	Q	Door 1	۷									
			🗄 List	== View									
			Event Info	2 A	di 🔽 .	Alarm	🗹 Abno	or 🔽	Normal			ර	Ŵ
										ID:			
										Name:			
										Departm Tel:	ent:		
	Global Control									Card No.	: 0477	9273	
	Always Open Always Cl	ose											

Figure 5-7



Technical Parameters

Classification	Name	Parameter Value					
System parameter	Main processor	32-bit processor					
	Lock control	1-channel					
Door control	Door sensor	1-channel					
parameter	Exit button	1-channel					
	External reader	1-channel (RS485, Wiegand)					
	Door overtime alarm	Give an overtime alarm when door opening time exceeds "door overtime". This function shall be set.					
	Intrusion alarm	Give an intrusion alarm if someone intrudes without swiping card or inputting password.					
	Duress alarm	Give a duress alarm if you enter with duress card.					
	Tamper alarm	Tamper alarm button will give a tamper alarm if the access control device is tampered.					
	Unlocking mode	Support card, card + password, user ID+ password.					
Function	Remote verification	Support bonding with period.					
	Schedule	128 groups					
	Period	128 groups					
	Holiday	128 groups					
	Network upgrade	Upgrade the device through network.					
	Patrol card	Patrol card can be swiped and records at patrol points. Patrol card cannot unlock the door.					
	Guest card	Set the use times of the card. The card will lose effect in case of exceeding the use times.					
Interface	Network interface	1					
parameter	RS485 interface	1					
	Power supply	DC 12V					
	Power consumption	≤2W (excluding reader)					
	Working temperature	-30°C~+60°C					
General	Working humidity	5%~95%					
parameter	Atmospheric pressure	86kPa∼106kPa					
	Dimension	142mm×62mm×23mm					
	Weight	1.0kg					
	Installation mode	Surface mounting					