Mini Outdoor Station



S Series Digital System Mini Outdoor Station

User Manual_V1.0

Model No.: SO001

Attentions

1、Please keep devices away from strong magnetic field , high temperature , wet environment ;



2、Please do not fall the devices to the ground or make them get hard impact ;



3. Please do not use wet cloth or volatile reagent to wipe the devices ;



4、Please do not disassemble the devices.

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Chapter 1 Product Introduction

This product is the mini outdoor stations of the S series Digital system VDP. By using standard CAT5 cables, it makes visual intercom call to indoor monitor and guard station possible. Besides, it supports IC access control.

1.1.Function

- Support SIP protocol
- Support IC card
- Support calling to indoor monitor and guard unit
- Adjustable unlock time
- Door status detection, and unlock state timeout alarm.
- Support normal open/close unlock output
- Support online update
- Support 2 door locks management

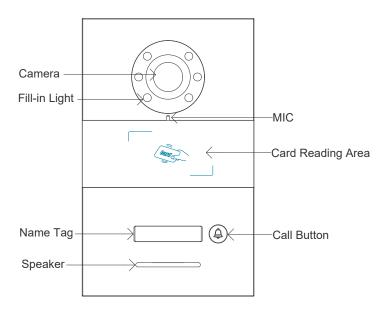
1.2. Parameter

Working Parameter

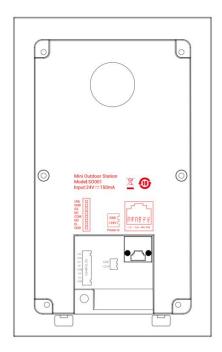
Working voltage: DC 24V/PoE 48V	Static Current: ≤75mA/PoE 48V
Working Current: ≤300mA/DC12~24V	Working Temperature: -20℃~70℃
Storage Temperature: -40°C~70°C	Dimension(W/H/D): 120×194×44.7mm
Camera	
Type: CMOS	Pixel: 2 MP
View Angle: Diagonal 95°	Min. Illumination: 0 lux
Focus Length: 2.2mm	Fill-in Light Type: white
Adjustable Angle: up/down/left/right 12°	

Chapter 2 Product Introduction

2.1. Front View



2.2. Back View



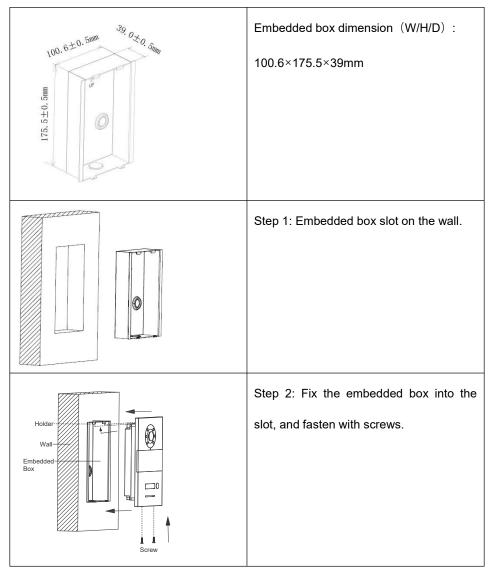
Interface Description:

RJ45 Network Interface: cable interface, connecting standard 48V POE switch

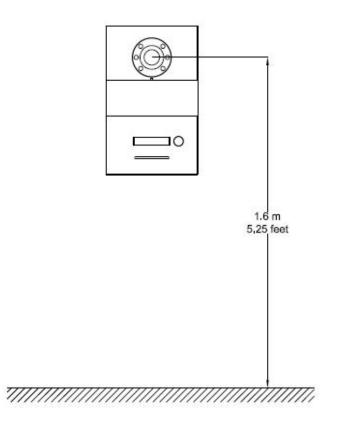
- GND +24V: independent DC 24V power supply interface
- UNL GND: Door inside unlock interface
- GS GND: door status detection interface
- NO COM NC: normal open/close interface
- EL GND: 12V electric lock

Chapter 3 Installation

3.1.Installation Steps



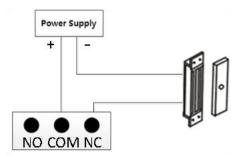
3.2. Installation Height



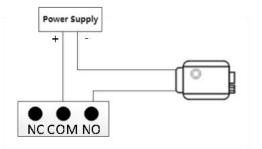
Recommended Installation Height: camera is 1.6m above the ground

3.3. Wiring Diagrams

• Wiring for Signal Unlock Mode



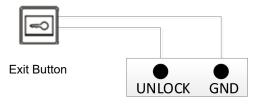
Wiring for normally closed type lock(Magnetic Lock)



Wiring for normally open type lock(Electronic lock)

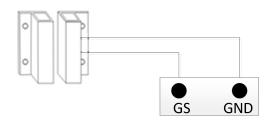
Note: If device is used for power supply under signal unlock mode, the device can only be powered by extra power supply. At the mean time, lock input

• Wiring for Exit Button Unlock Mode



Note: The wiring has no polarity.

Wiring for Door Status Alarm



Normal Closed Type

Note: The door status alarm function can be switched off in two ways.

- 1. Grounding GS port of the host.
- 2. Enter Engineering Setting->System Setting->Door Status Alarm", turn off the

door status status alarm switch

Chapter 4 Operation Instructions

4.1. Calling Indoor Station/ Management Center

Prerequisite: In the configuration tool, set the called party.

The user presses the button for a long time/short time, and the mini outdoor device will call the Indoor Monitor/ Guard Unit according to the settings in the configuration tool, and ring back. If there has no answer within 30 seconds, the call will be ended automatically. During the call, the Indoor Monitor/Guard Unit can unlock the door and take screenshots.

4.2. Unlock

(1) Access IC card unlock

Swipe a registered card to the card reading area of Outdoor Station to unlock the door, then form the unlock record .

(2) Indoor Monitor unlock

When a resident is called or the resident is monitoring the mini outdoor station, the indoor monitor can control the unlocking of the mini outdoor station and form the unlock record.

(3) Unlock by Exit Button

There is an interface on the Outdoor Station that can wire to a button inside the door,

which residents inside can just press and unlock, then create the unlock record.

(4) Management Center unlock

After setting correctly in the management center, click the unlock button for all, and enter the user password to unlock the mini outdoor station, then generate an unlock record at the same time.

(5) Unlock by App

In the device list of the APP, click the nominated device to unlock, then outdoor station will generate the unlock record. To use the APP to unlock the lock, the following conditions must be met at the same time:

a. In the configuration tool, enter the community identification code to bind the outdoor device to the community platform.

b. The APP account is bound to the community platform and passed the personnel review.

c. The APP account has the access control authority of mini outdoor station.

Chapter 5 Configuration

Operation steps of the mini outdoor station configuration tool:

- 1. Run the "WpfAppUpdate" program as an administrator.
- 2. Switch language.
- 3. Select the device type as "SO001". Enter the Access password as "801801". Click

"Search Equipment" to view the corresponding IP address according to the MAC

address of the device.

	Tool V1.0.0_20230420					200	
am upg	grade Resources upgrade	Access password Switchi	ing Language Address tool	Upgrade managemer	nt	Loca	11 132.100.1.120
gram	upgrade						
ease	make sure device typ	es: SO001	 Access passv 	vord: •••••	🛩 Sea	irch equipment	
ease	select the software ve	ersion * Please se	elect a hardware version	* Please enter the	MAC address		
1	Device Name	MAC	IP address	Model No.	Software version	Hardware version	Operation
	Outdoor 86C89D						
		Telar Frederica Da		SO001	SO001_MAIN_V0.0.60		Upgrade
		10.01.1 0.00.00.30		<u> SO001</u>	\$0001_MAIN_V0.0.6C		Upgrade

1. Enter the URL 'http://ip_address/#/' in the browser, such as http://192.168.151.5/#/, to enter the configuration system web page of the mini outdoor station. The default password is '**admin**'.

Note: Please make sure that the IP of the computer and the IP of the device to be

configured are in the same network segment.

Mini outdoor station configuration system		En
	Mini outdoor station	
	configuration system	
	🚊 admin	
	Please enter a password	
	Device activated	
	login	

5.1. Device Name

The device name can be modified. If the SIP account information in the address book is required, the device name needs to be set to the device name corresponding to the account information in the address book. The device will pop up a window to prompt whether to use the account information of the address book.

E Mini outdoor station con	iguration system			English ~	😌 - j
Device name	Device name				
은 SIP Account Settings					
Et router contactSet		• Device name:	text	Save	
En Card management					
δ . Unlocking management $~\sim~$					
Alarm settings					
C Network settings					
Time setting					
D Video setting					
Cloud server settings					
👍 Cell Identification number					
© Login password modification					
About					
					_

5.2. SIP Account Setting

- Local user name: Enter user name, configure the local SIP account, for dial-up calls. Note: Cannot be duplicated with other usernames under the same network.
- (2) Local SIP account: Display the local SIP account is generated by the local user name and IP address, for call accounts under the same network.
- (3) Cloud SIP account: Display when the device is connected to the cloud server, the cloud intercom SIP account assigned by the server to the device.
- (4) SIP Account 1、2: Can manually configure SIP account information and select whether to enable it. Enter user name, server password, server address and server port, select transmission method (UDP、TLS); also can use the account information of the address book by configuring the device name.

Mini outdoor station con	figuration system		Eng	lish v
② Device name	SIP Account Settings			
, Q. SIP Account Settings				
Et router contactSet				
Er Card management.		• Username:	898655	
δ . Unlocking management \sim		Local SIP account:	sip 898655@192.168.159.250	
Alarm settings				
C Network settings		Cloud SIP account:		
Time setting	Enable	: ()	Enable:	
Video setting				
Cloud server settings	User name		User name z.	
差 Cell identification number	Server password	Please enter the server passo	Server password:	Please enter the server password
Control Login password modification	Server address	Please enter the server addre	Server address:	Flease entry the server address
E About	Server por	Please enter the server port.	Server port:	
	Advanced setting		Advanced settings	
	Advanced second		Advanced settings	
Login password modification	Transfer mode	e Snieči v	Transfer mode:	Select v
E About				
			Save	

5.3. Contact Setting

5.3.1. Call Setting

Configure the called party for the button on the single outdoor unit. Click < address book selection > button, In the pop-up window, select the contact as the short/long pressed called party, each button has a maximum of 8 contact.

E Mini outdoor station con	iguration system			English ~	😒 -
Oevice name	Contact settings				
의 SIP Account Settings					
Prouter.contactSet	Key 1 short press:		Key 2 :	short Press: address book selection	
V router.callSettings		address book selection			
© router.addressBook					
Card management ·	Key 1 long press:	address book selection	Key 2	address book selection	
Alarm settings	Key 3 short Press:	address book selection	Key 4	short press: address book selection	
C Network settings					
Time setting	Key 3 long press:	address book selection	Key 4	long press: address book selection	
Video setting			Save		
 Cloud server settings 					
🦽 Cell identification number					
Cogin password modification					
E About					

5.3.2. Contacts List

Display information about the current contact. Contacts include: Network devices discovered after automatic configuration is enabled. Address book Imported devices and manually added devices.

- Add: add contacts on the local device by entering the remarks and SIP account.
- Delete: can delete the contact data. Note: when the network device is online which discovered after automatic configuration is enabled, cannot be deleted.
 Devices imported through the address book cannot be deleted either.

Mini outdoor station configuration system		English ~	😏 - j
Device name			
,Q, SIF Account Settings		9	
Er router contactSet			
😵 router callSettings	Indoor_86C806 sp.307393/g192.168.158.164	G	
router addressBook Card management	sp 585304() 192 158 159 149		
6 Utiloking management ~	sp: 1264 (8) 152, 168, 158, 254		
Atam settings	up:613744@192,168,159,145	E. 🗑	
C Network settings	sip 472343(3192,168,158,206	E0 🗑	
Time setting	Contact.addCon	stad	
C3 Video setting			
Cloud server settings			
🦽 Cell identification number			
© Login password modification			
About			

5.4. Card Management

5.4.1. Card Management

Use this configuration tool to register, modify, delete and empty the card information for local device. Under the default server or custom server mode, the local card data is automatically synchronized with the platform. The maximum storage capacity of access cards is 20,000 cards.

- Single addition: Enter card numbers or put the IC card to the card reading area of mini outdoor station to read the card numbers, select card type (user card Administrator card), click the confirm button to add successfully.
- (2) Continuous addition: Select the card type,put the IC card to the card reading area of mini outdoor station, hear a beep indicating successful registration, cycle

swiping card registration operation.

- (3) Modification: Click the modify button in the action bar, to modify the information about access card.
- (4) Deletion: Click the delete button in the action bar, to delete the corresponding access card, and the access card will lose the unlocking permission.
- (5) Empty: Empty the data of resident cards and administrator cards of the device.

Mini outdoor station confi	Anigron exerciti			English ~		<u> </u>
3 Device name	card.carManager					
R, SIP Account Settings						Add Continuously increas
🕆 router contactSet						
🖻 Card management	Card number	remarks	card type	+100	Registration time	Action
Card management	3615772724		Administrator card	Etom	2000-01-01 00:00:00	Modify Detete
router.carManagerSetting	2612262682		Resident card	章加密	2023-06-05 09:54:40	Modify Delete
§ Unlocking management ∽ Atarm settings	0924546642		Resident card	202	2023-06-05 09:54:44	Modify Delete
Network settings						
Time setting						
Video setting						
Cloud server settings						
2 Cell identification number	Clearal					
Login password modification			Total 2 items < 1 > 10 /	page - Goto 1		
2 About						

5.4.2. Card management Setting

Card anti-copy: When this is enabled, the registered card will be encrypted and cannot be copied.

■ Mini outdoor station confi	iguration system	The operation done	English ~	۰ 😒
② Device name	Card prevents replication management			
,Q, SIP Account Settings				
En router contactSet		Automatic configuration mode		
Pr Card management				
Card management				
router.carManagerSetting				
δ . Unlocking management $~\sim~$				
Atam settings				
O Network settings				
Time setting				
Video setting				
Cloud server settings				
🦽 Cell identification number				
C Login password modification				
E About				

5.5. Unlocking management

5.5.1. Unlocking Records

Used to view the unlocking record of the device.

Mini outdoor station cont	figuration system		English ~		O ~
O Device name	Unlocking record				
,9, SIP Account Settings		* a			
Pg router contactSet					
Pr Card management		Unlocking type	Unlocker	Unlocking time	
δ Unlocking management ~		Call unlocking		2023-06-06 02:09:47	
Unlocking record Unlock settings		Call unlocking		2023-06-06 02 09 49	
Atam settings		Call unlocking	sig:307383@192.168.158.164.5060	2023-06-07 02:06:44	
Network settings		Call unlocking	sip.307393@192.168.158.164.3060	2023-06-07 02:06:47	
Time setting					
Video setting					
Cloud server settings					
୍ୟ Cell identification number			Total 184 items c 1 17 18 19 > 10 /page ~ Goto 19		
Cogin password modification					
About					

5.5.2. Unlocking Setting

- Unlocking time: Support modify the duration of unlocking , automatically closes the door after timeout. The value ranges from 1-30 second.
- (2) Lock 1 / Lock 2 DTMF unlock password: Set the unlock password of Lock 1 / Lock 2 DTMF, Lock 1 default password is 6666666, Lock 2 default password is 8888888. When the DTMF password on the local device is same as the indoor unit's, outdoor station can unlock Lock 1 / Lock 2.

■ Mini outdoor station conf	guration system	English ~	😒 × (
② Device name	Unlock settings		
,9, SIP Account Settings			
Et router contactSet	Length of unlocking time:	30second ~	
Pr Card management	Lock one DTMF	659656	
δ Unlocking management	unfocking code:		
Unlocking record	Lock two DTMF unlocking code:	888888	
Unlock settings		Save	
Atarm settings			
Network settings			
Time setting			
Video setting			
Cloud server settings			
√e Cell identification number			
C Login password modification			
About			

5.6. Alarm Setting

(1) Tamper alarm: When this is enabled, If the device is removed by external force, the device will sound an alarm tone.

(2) Disconnected alarm: When this is enabled, If the device is disconnected, the device will sound an alarm tone, and the status bar displays the disconnected icon.

(3) Door status alarm and door status alarm tone: When this is enabled, the door is

detected opened over 120 seconds, the device will sound an alarm tone.

Mini outdoor station configuration system		English ~	🕒 - j
Device name Alarm settings			
, D, StP Account Settings			
Er router contactSet	Anti-dismantie alarm		
Er Card management	Door status alarm		
δ. Unlocking management	Door status alarm sound switch		
.C. Alarm settings	Disconnection alarm		
C Network settings			
Time setting	Save		
🖾 Video setting			
Cloud server settings			
. Cell identification number			
Cogin password modification			
@ About			
			_

5.7. Network Setting

- Automatic configuration mode: When this is enabled, the local device can discover other S-series devices in the same network segment.
- (2) DHCP: Need manually configure the network after closed, enter IP address .

 Mini outdoor station configuration system English ~ 🔵 🕤 ② Device name Network settings ,Q, SIP Account Settings ET router contactSet Auto-configuration mode Et Card management 0 DHCP δ . Unlocking management $~\sim~$ Alarm settings C Network settings 🗄 Time setting Video setting Cloud server settings 差 Cell identification number C Login password modification E About

subnet mask、gateway、DNS.

5.8. Time Setting

- (1) Refresh: The local time can be refreshed. After the NTP server and time zone are modified, need to click save, then click refresh, the device can get the updated time.
- (2) NTP server setup: Enter server address, enable the device to obtain the accurate clock time from the NTP server address set.
- (3) Time zone setting: According to the country, select the time zone. This machine will convert the local time according to the set NTP server and time zone.

E Mini outdoor station config	guration system	English ~	💿 - j
O Device name	Time zone setting		
,Q, SIP Account Settings			
Et router contactSet		2023-06-07 05:49:43 Retream	
Er Card management			
δ . Unlocking management $~~\sim~$	NTP Set	ver Settings	
Alarm settings	Server 1:	time.windows.com	
C Network settings	Server 2:	time hist gov	
Time setting	Server 3:	time-twinist.gov	
Video setting	Time zone setting:	UTC +0:00 V	
Cloud server settings		Save	
🖉 Cell identification number			
Cogin password modification			
E About			

5.9. Video Setting

Support to set the video bit rate during the call and monitoring.

Mini outdoor station cor	figuration system		English ~	🤤 × 1
② Device name	Video setting			
,9, SIP Account Settings				
Par router contactSet		Video bit rate Very High setting:	Save	
Et Card management				
ξ . Unfocking management \sim				
.Q. Alarm settings				
C Network settings				
Time setting				
Et Video setting				
Cloud server settings				
Je Cell identification number				
Cogin password modification				
About				

5.10. Cloud Server Setting

(1) Default server /Custom server

Upload the registered face and access card data to the server, and synchronize the data download from the server.

When switching to no server mode, you can choose whether to retain server data. If choose to retain, the device will not clear the data sent by the serve; If choose not to retain, the device will empty the data.

(2) Without server

Stand-alone mode, the face and access card data registered on the machine are saved locally.

When switching to a default server or a custom server, can select whether to upload local data. If choose upload, then upload the local data to the server and synchronize server data; If choose not upload, then empty the local data and synchronize server data.

E Mini outdoor station con	figuration system			English ~	- چ
O Device name	Cloud server settings				
,Q, SIP Account Settings					
Et router contactSet		O Default cloud erver	Custom the server	No cloud server is used	
Et Card management			Save		
ξ . Unlocking management $~\sim~$					
Alarm settings					
C Network settings					
Time setting					
Video setting					
Cloud server settings					
.2 Cell identification number					
Login password modification					
E About					

5.11. Community Identification Code

In default server or custom server mode, the local machine can be bound to the

corresponding community by entering the community identification code.

Mini outdoor station confi	guration system	English ~	🔵 - j
O Device name	Cell identification number		
,P, SIP Account Settings			
Err router contactSet	Cell identification number:	Please enter the cell identification code	
En Card management			
δ Unlocking management			
.) Alarm settings			
C Network settings			
Time setting			
D Video setting			
Cloud server settings			
🦽 Cell identification number			
© Login password modification			
🖂 About			
			*

5.12. Login Password Change

Login Password can be changed .

E Mini outdoor station configuration system	English +	🗇 ~ j
Device name Change the password		
R SP Account Settings		
P router contactilies * * Original Password:	Productions the original parameters (
E Card management * New Password:	Prenie estra a sew juitisiont	
& Unlocking management -	Please entry to new demonst agen	
 Aiam settings password: 		
C Network settings	Save"	
(2) Time setting		
C Video setting		
🖒 Coud server settings		
Jb Cell identification number		
Cogin password modification		
E About		

5.13. About

Used to view device related information, including: device name, software version, MCU version, LAN, subnet mask, gateway, DNS, MAC address, cloud intercom server, device management center, and device SIP account information.

Mini outdoor station configuration system		English ~	C
Device name About			
Q. SIP Account Settings			
P∃ router contactSet ~	Device name:	C.,	
E Card management	Software version:	SO001_MAIN_V0.0.6D_20230601	
	MCU version:	SO001_MCU_V1.12_20230531	
δ Unlocking management ~	LAN	192 168 159 250	
Alam settings	Subnet mask	255.255.254.0	
	Gateway	192 168 158 19	
O Network settings	DNS1	114 114 114 114	
Time setting	DNS2	192 168 2 68	
Video setting	MAC address:	1c.87.76.86.c8.a7	
- video serang	Cloud intercom server		
Cloud server settings	Device Management Center	C.	
🖉 Cell identification number	Device SIP account inform	nation	
C Login password modification	sip.898655@192.168.159.2	150 Local	
🔄 About			