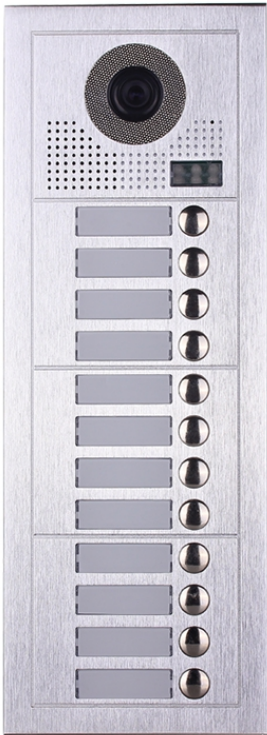


# Installation Manual and Programming Guide



## VIDEO INTERCOM SYSTEM

2-wire Door Station

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## Getting Started

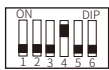
Thank you for choosing our Video Intercom System! We are proud to introduce the new updated 2-wire system, providing a straight forward installation, and a simple, intuitive user experience.

This manual includes installation steps, programming instructions, and wiring diagrams.

Please read all instructions in this manual carefully, and check all components before installing them in the building. We recommend installing and testing one component at a time (ie. room stations) making it easier to detect a potential error before completion.

Attached at the end of this installation section is a detachable End-User manual.





Button8  
Room ID=008



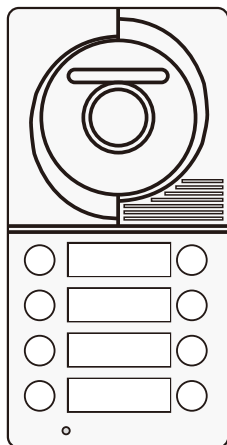
Button7  
Room ID=007



Button6  
Room ID=006



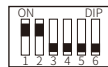
Button5  
Room ID=005



Button4  
Room ID=004



Button3  
Room ID=003



Button2  
Room ID=002

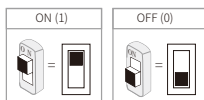
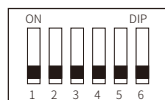


Button1  
Room ID=001



## DIP Switches Settings

Total 6 bits in the DIP switches can be configured. The switches can be modified either before or after installation.



### Bit-1, Bit-2 are used for door station ID setting (1=on, 0=off).

When multi door stations are installed in the system. These three bits must be set correctly, the first door station set to 00, the second one set to 10, the third one set to 01, the fourth one set to 11. If only one door station is installed, set to 00

- 00 - First door station
- 10 - Second door station
- 01 - Third door station
- 11 - Fourth door station

### Bit-3 Set the ring back tone

- Bit3=0 Turn on the call waiting ring tone
- Bit3=1 Disable call waiting ringtone (mute)

### Bit-4 and Bit-5 is used for unlock time setting.

- 00 - 1 second (Default setting)
- 10 - 5 seconds
- 01 - 10 seconds
- 11 - 15 seconds

### Bit-6 is used for connecting extra camera.

- 0 - No extra camera (Default setting)
- 1 - Connecting with extra camera

# Electric Lock

Adjust the timer setting with Bit-4 and Bit-5 at the outdoor station (00 = Off/Off):

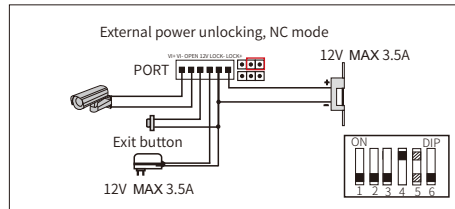
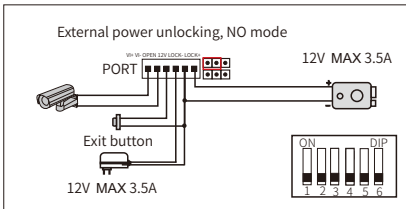
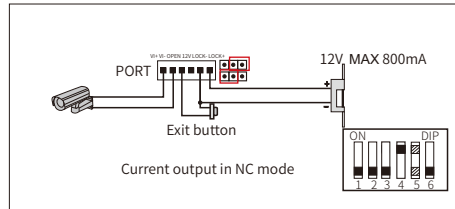
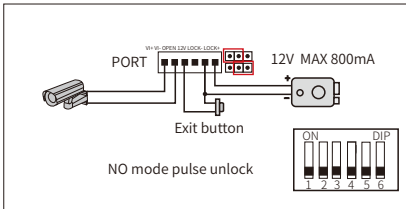
- 00** - 1 sec.
- 01** - 5 sec.
- 10** - 10 sec.
- 11** - 15 sec.



Set the ring back tone  
 Bit3=0 Turn on the ringtone  
 Bit3=1 Turn off the ringer



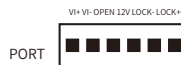
for their reference.

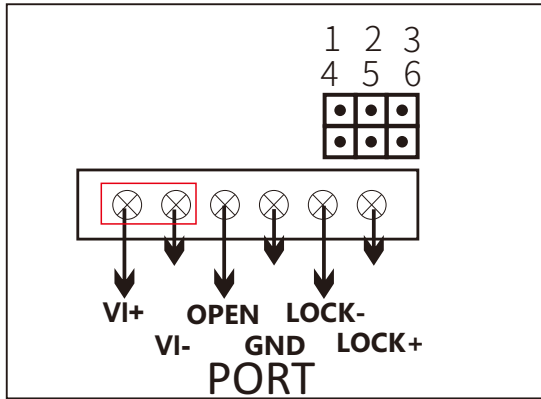


Press **OPEN**, hear unlock sound and realse the lock.

Long press **OPEN** 5s, and keep long press, hear circular ringing, release OPEN and choose interphone volume.

Idle time, bluetooth "**DOORBT**" turn on, use Android APP "**V-Intercom**" connect and modify data.





Set the jump pin 1-2 plus 5-6 to be NO mode for internal power supply

Set the jump pin 1-2 plus 4-5-6 to be free is external power supply NO mode

Set jump pin 2-3 plus 4-5 to be internal power supply NC mode

Set the jump pin 2-3 plus 4-5-6 to be free is external power supply NC mode

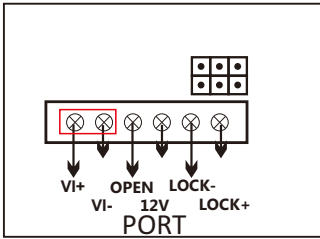
Jump pin 1-2-3 is the NC/NO mode for Lock

Jump pin 4-5-6 is to set the mode of Lock' s output

Jum pin 4-5 is continuous current output mode, maximum is 800 mA

Jump pin 5-6 is Current Limiting Mode, only suitable for electric control lock

Jump pin 4-5-6 to be free is used for external power supply



**Ports description:**

VI+: Camera positive electrode

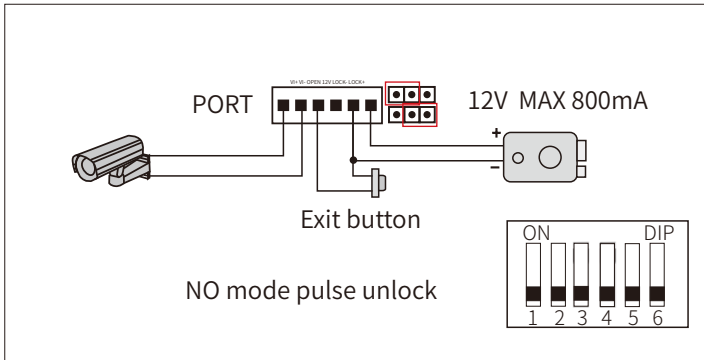
VI-: Camera negative electrode

OPEN : Door unlock button

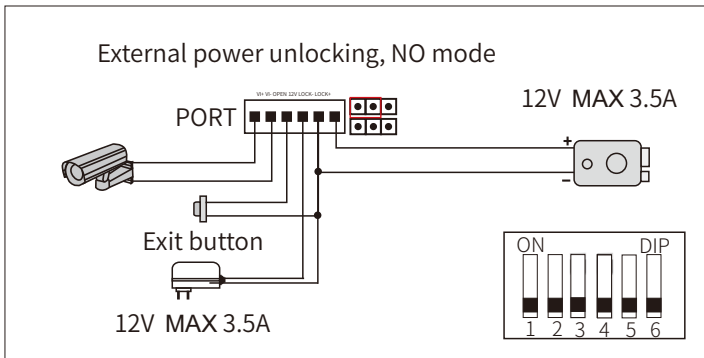
12V: Unlock the external power input - (COM) IN +12V

LOCK-: Negative lock

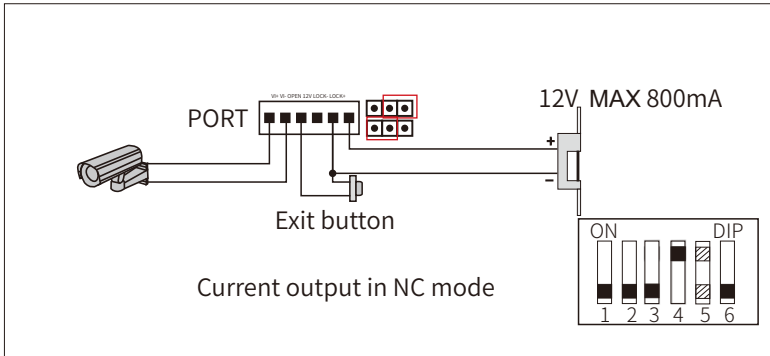
LOCK+: Positive lock



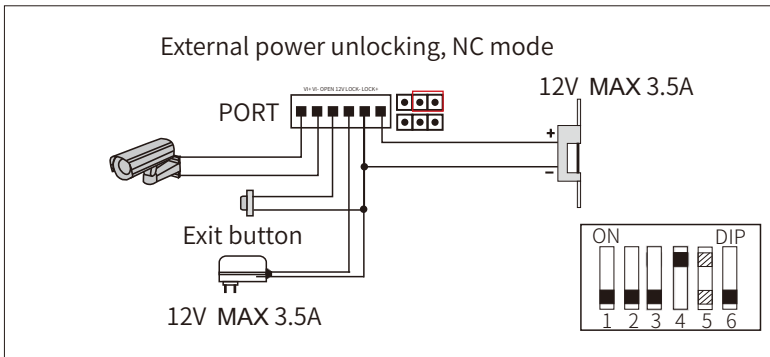
This is the internal power comb NO unlock mode. Bit 4-5 doesn't need to set. The above picture is mainly to turn on the electronic control lock



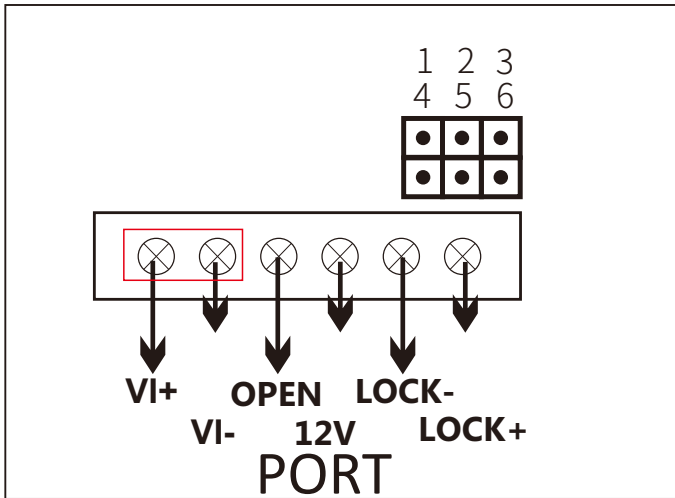
This is the external power comb NO unlock mode. Bit 4-5 no need to set. The above picture is mainly to the Power-on unlocking



This is the internal power supply NC mode Bit4-5, which needs to set the door opening delay according to your own needs. The output current of the door lock that mainly opens the magnetic lock, electric plug lock and other power locks is maximum 800mA



This is the outside electronic supply NC mode. Bit 4-5 can set the door-open delay according to your own demand. The above picture is mainly for unlocking the electric plug-in lock and magnetic lock. Maximum control electric current is 3.5A



Port "12V" corresponds to the common end of the dry contactor

Port "lock+" corresponds to NC/NO of the dry contactor

Mode is selected by the "1-2-3" jump pin

Port "lock-" is the negative GND of the lock



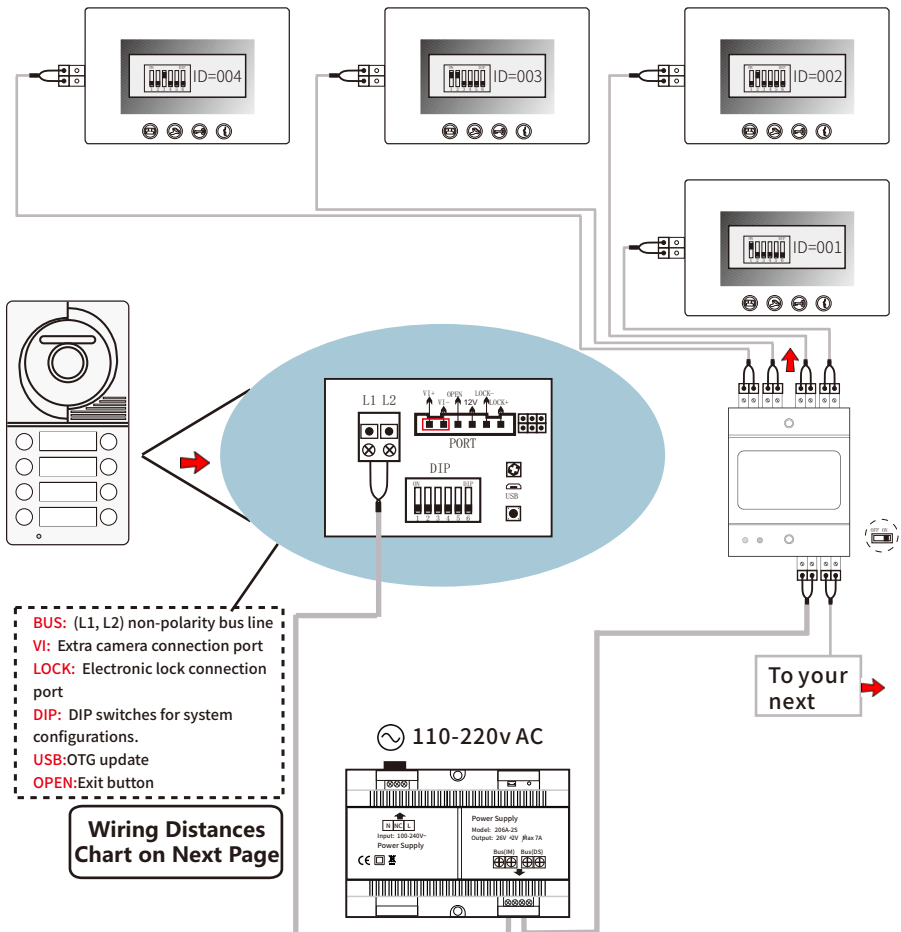
# Set-Up/Installation

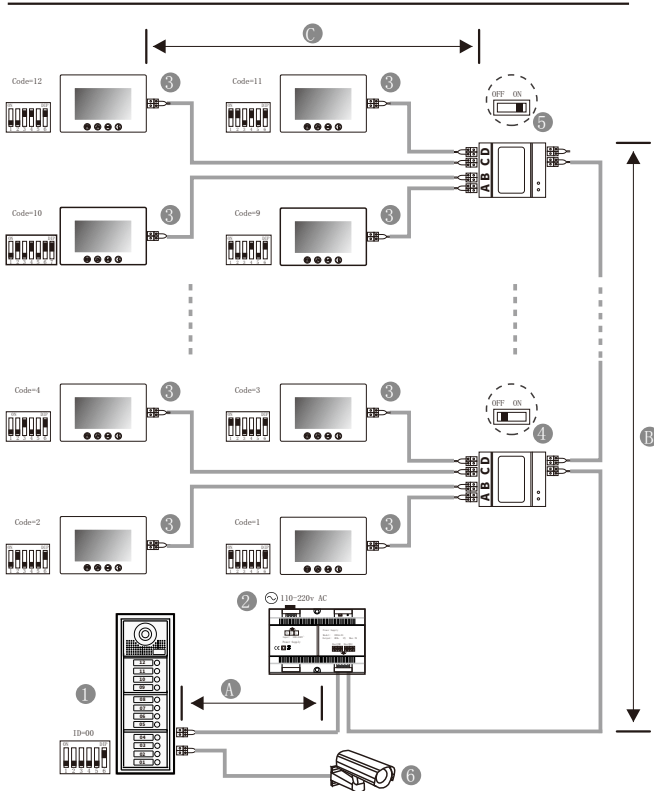
## Wiring

Below is a sample four-monitor, single-entry wiring diagram using minimum 18-awg, unshielded, stranded wire. Please take careful note of the monitor bit-codes.

The diagram on the next page shows a 32-monitor configuration with an additional camera .

Take note of the distance chart at the bottom of the page to ensure your wire distances are under the listed limits.





## Legend

[1]: Door station, when there is only one Door station, the DIP bit-1 bit-2 should be set to 00.

[2]: Power supply: Integrated power supply no need connect with power separator. Conventional power supply must connect with power separator.

[3]: Monitor, each one with an unique User Code, note that all the bit-6 of the DIP should be set to 1(ON) in this case.

[4]: Video distributor set switch to OFF unless at the end of the line.

[5]: Video distributor set switch to ON at the end of the line.

[6]: Extra camera.

## Distances

When monitor quantity < 20

Cable Usage	A	B	C
Parallel cable 2x0.75mm	60m	60m	30m
Parallel cable 2x1mm	80m	80m	40m

When monitor quantity > 20

Cable Usage	A	B	C
Parallel cable 2x1mm	60m	60m	30m
Parallel cable 2x1.5mm	80m	80m	40m

# Programming

## Answering a door call

Press **CALL** button on door station, the monitor rings, the **CALL** visitor can be seen on the monitor screen. If nobody answers the call, the screen will automatically turn off in 60 seconds.

To answer an incoming call, press **TALK** to answer, calls last for 60 seconds, **DO NOT** have to hold talk to enable voice communication. Press **TALK** again to end the conversation. If the system connects with two or more monitors, answering any monitor, the others will turn off automatically.

If there is an extra camera, during and incoming call, press **MONITOR** switch to see the view of extra camera.

### Door Release

During the conversation with the visitor, press **UNLOCK** button to unlock the door.

### Monitoring

Press **MONITOR** button while in standby mode you will be able to see the view of outdoor station camera. Press **MONITOR** again switch to next door stations camera or extra camera. Press **TALK** button twice to exit. (firstly you should finish setting door station camera and extra camera, see bellow).

How to set door station camera and extra camera?

Keep pressing **ALARM** button until you hear a long beep. Start setting state of multiple door stations and extra cameras. Press **MONITOR** as many times as the quantities of specific code of door state.

For example :

There are 3 door stations, 2 door stations with extra camera, specific code of door state is 8.

Keep press **ALARM** (Long beep) – press **MONITOR** 8 time – press **ALARM**

There are 1 door stations, 0 door station with extra camera, specific code of door state is 1.

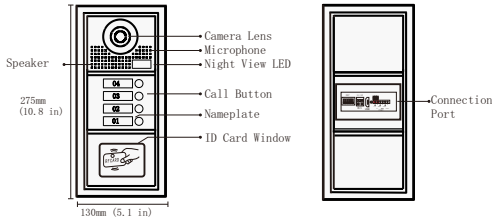
Keep press **ALARM** (Long beep) – press **MONITOR** 1 time – press **ALARM**

Bit state	User Code	Bit state	User Code	Bit state	User Code
	Code=1		Code=12		Code=23
	Code=2		Code=13		Code=24
	Code=3		Code=14		Code=25
	Code=4		Code=15		Code=26
	Code=5		Code=16		Code=27
	Code=6		Code=17		Code=28
	Code=7		Code=18		Code=29
	Code=8		Code=19		Code=30
	Code=9		Code=20		Code=31
	Code=10		Code=21		Code=32
	Code=11		Code=22		

The form of the special code of the door state is as follows:

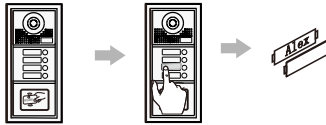
Door state	Specific code	Door state	Specific code	Door state	Specific code	Door state	Specific code
1 Door Cam	Code=1	2 Door Cam	Code=5	3 Door Cam	Code=9	4 Door Cam	Code=13
1 Door Cam	Code=2	3 Door Cam	Code=6	4 Door Cam	Code=10	4 Door Cam	Code=14
2 Door Cam	Code=3	3 Door Cam	Code=7	4 Door Cam	Code=11		
2 Door Cam	Code=4	3 Door Cam	Code=8	4 Door Cam	Code=12		

# Parts and Functions

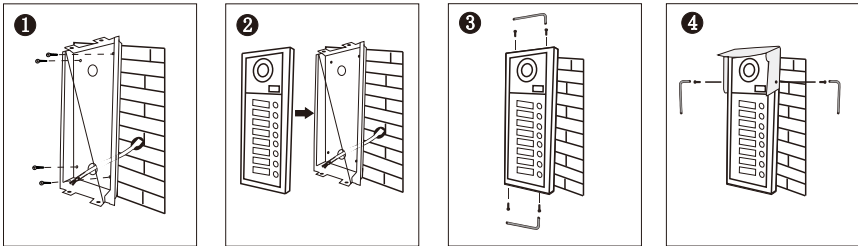


## Place Name Label

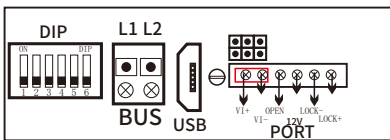
Press down and move left to open the transparent nameplate cover. Then insert the name paper and put the cover back.



## Mounting



## Terminal Description



BUS: (L1, L2) non-polarity bus line

LOCK: Electronic lock connection port

DIP: DIP switches for system configurations.

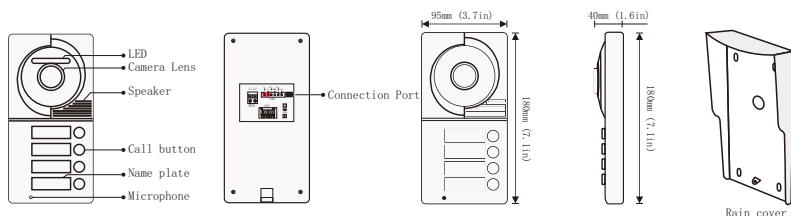
Potentiometer: Set the volume of intercom

VI: Extra camera connection port

USB: OTG update

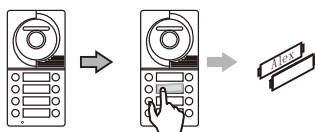
OPEN: Exit button

# Parts and Functions

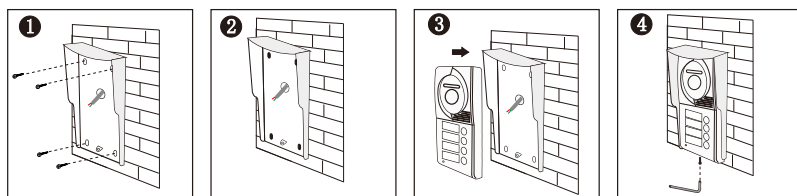


## Place Name Label

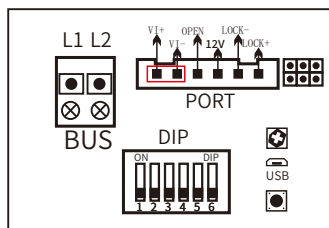
Press down and move left to open the transparent nameplate cover. Then insert the name paper and put the cover back.



## Mounting



## Terminal Description



**BUS:** (L1, L2) non-polarity bus line

**VI:** Extra camera connection port

**LOCK:** Electronic lock connection port

**DIP:** DIP switches for system configurations.

**USB:** OTG update

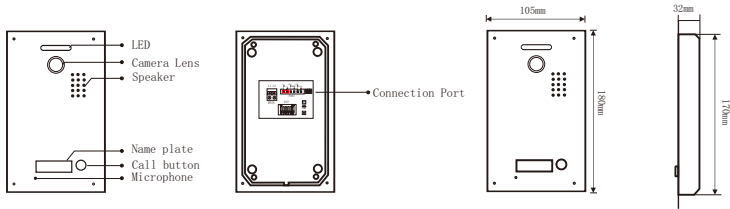
**OPEN:** Exit button

**Potentiometer:** Set the volume of intercom

**Button:** 1. Management card recording for doorstation with RFID card swiping function

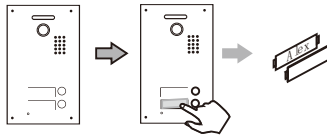
2. Long-press the button in 5 s until a buzz sound, then into Management Card recording mode.

# Parts and Functions

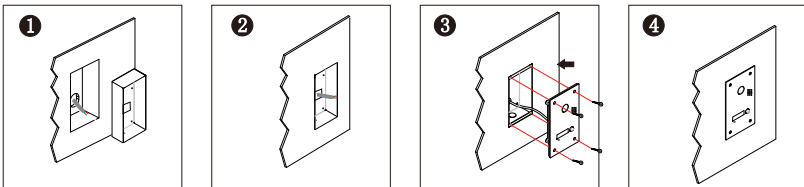


## Place Name Label

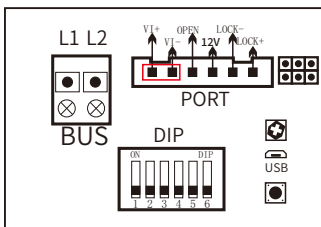
Press down and move left to open the transparent nameplate cover. Then insert the name paper and put the cover back.



## Mounting



## Terminal Description



BUS: (L1, L2) non-polarity bus line  
 VI: Extra camera connection port  
 LOCK: Electronic lock connection port  
 DIP: DIP switches for system configurations.  
 USB: OTG update  
 OPEN: Exit button  
 Potentiometer: Set the volume of intercom

Button: 1. Management card recording for doorstation with RFID card swiping function

2. Long-press the button in 5 s until a buzz sound, then into Management Card recording mode.

# User Instructions of RFID Access Control

## IC Card Control

### 1) Using IC card Encryption Mode(Factory Default):

When disconnected Encryot stitch, means IC card encryption mode. When swiping card unlocking, IC card should be with corresponding . password. This function prevent copy IC card by others

### 2) Using IC Card No Encryption Model:

When connected Encryot stitch, means IC card no encryption mode. When swiping card unlocking, unlocking only with corresponding IC ard number. After copy IC card, use the copy card unlocking.

### 3) Record Manage Card:

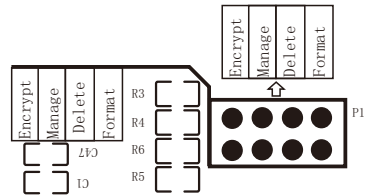
When connected Manage stitch, hearing one beep every second get into record manage card mode, swiping a new IC card, manage card recording successfully when hearing a long beep, cut off the Manage stitch to ending at last.

### 4) Delete a User Card:

Connecting Delete stitch, hearing a beep, swiping the user card which needs to delete in 10 seconds. Hearing three times short beep, delete successfully, cut off the Delete stitch to ending at last.

### 5) Formatting All The Cards:

Connecting Format stitch, hearing a beep begin to formatting, hearing a beep after 5 seconds, all the manage cards and user cards will be deleted, formatting finished, cut off the Format stitch to ending at last.



## ID Card Control

### 1) Make a master card :

Firstly to cut off the power of the outdoor station, secondly to connect Jp2 with power, then sound will be heard every 1.5second, now to swipe new ID card will hear a long beep, that means new master card has been made, finally to take off JP2 will exit.

### 2) Delete all user cards :

Firstly to cut off the power of the outdoor station, then to connect Jp3 with power, now a long beep will be heard, that means all user cards has been deleted, finally to take off JP3 will exit.

### 3) Add more user ID card :

Under standby, firstly to swipe the Master card, then to swipe new User cards one by one, now to swipe the Master card again, so new User cards have been made. only 2720pcs user cards can be made in the system.

### 4) Open the door by ID user card

Under standby, to swipe the active access ID user card on the access window will open the door, if the User card is not activated by the Master card, then the door can not be open and Dee beep will be heard at 3

## Specification

Power Supply:	DC 24V
Power Consumption:	1W in standby, 5W in working
Unlock Power output:	12Vdc, MAX 800mA
Unlock Timing:	1s, 5s, 10s, 15s
Working Temperature:	-20°C~ +55°C

