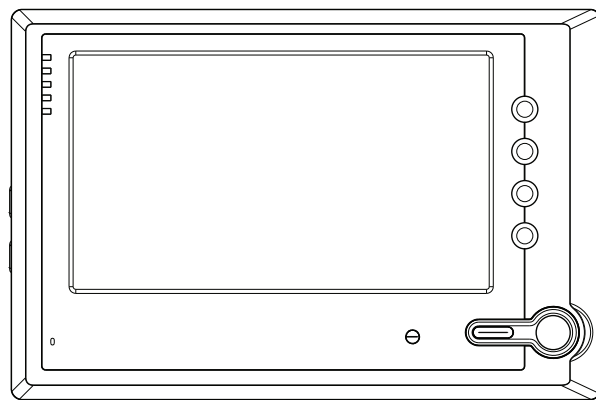
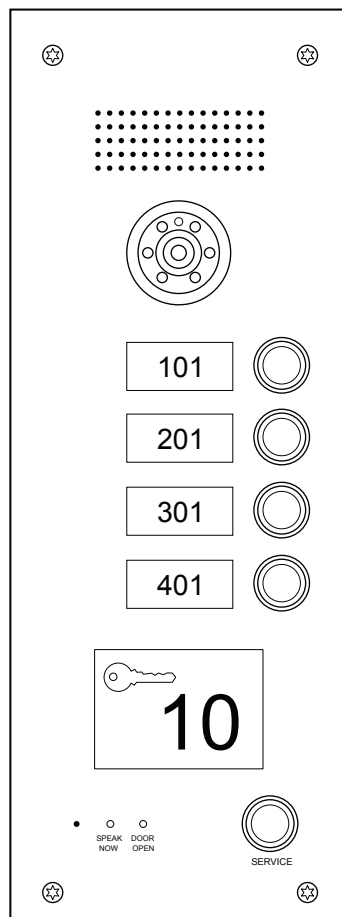


Video Door Entry System for Flats / Apartments

user manual



Cat-5 network cable



INSTALLATION TIPS

Installation environment

- The signal wires should be as far away as possible from the interfering sources.
- The signal wires should run on the low electronic route and cannot go with the high electronic (e.g. 220V house power) route or transmission signal route (e.g. CATV) in parallel.
- Do not install the products in following situations.
 - Humidity or rain
 - Sun shine
 - Shake or strike
 - Dust
 - High temperature
 - Noise

Cable installation requirements

- Category 5 or category 5E cable should be complied with international standard 《TIA/EIA-568-B.2 -2001 Commercial Building Telecommunications Cabling Standard Part 2: Balanced Twisted-Pair Cabling Components》
- All cabling work shall be in accordance with the user manual's cable standard and in accordance with the national electrical cable standard.



This symbol warns people there is dangerous voltage close to the products. Be careful of shock.



This symbol warns people the note is very important. They have to follow strictly in order for the system performs perfectly.

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1. System brief introduction

System introduction

C-5 system uses category 5 cable to transfer signal, it is very easy for system installation and maintenance. It adopts the automatic video pre-amplified and loss compensation technology to enable the stable signal transmission, this strength is more obvious in the long distance transmission, the image will be still clear and preventative from disturbance. Besides, the C5 system integrates the functions of network video intercom, alarm and message sending & receiving, which can cater to any of your needs.

System features

- High safety. Antistatic and anti thunder design.
- Super compatibility. All of the door stations and indoor phones can work with each other as you wish.
- High reliability. Door station and indoor phone are controlled by MCU to make system much safer and more reliable.
- Easy setting. System parameter set by computer, alarm information can be recorded and checked, very convenient to use.
- Simple wiring. Using standard CAT-5 cable for connection, high reliability, and convenience for installation and maintenance.

System function

■Intercom

The system supports video intercom between door station and indoor phone, door station and guard unit, perimeter gate station and guard unit, perimeter gate station and indoor phone, guard unit and indoor phone. if the product is only audio available, there can only audio intercom between above mentioned components.

■Monitor

Indoor phone can monitor door station and second confirmed door station. Guard unit can monitor door station and perimeter gate station.

[Note] Only video system has this function.

■Door release

Several ways for door release: It can be from indoor phone or guard unit to unlock, or by password or IC/ID card etc to unlock.

■Alarm

Indoor phone can send alarm signal to guard unit

[Note] Below functions only apply to indoor phone with alarm area

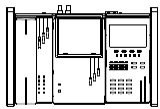


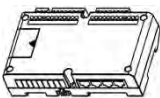

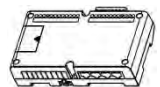
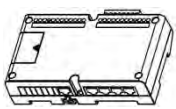

Alarm message can be sent to guard unit automatically, and guard unit can check the alarm types, time, place and resident information through the remote computer control.

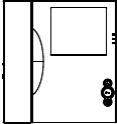


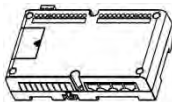
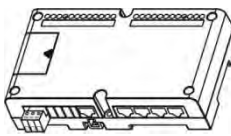
■Picture memory

Can record and check the image of visitors

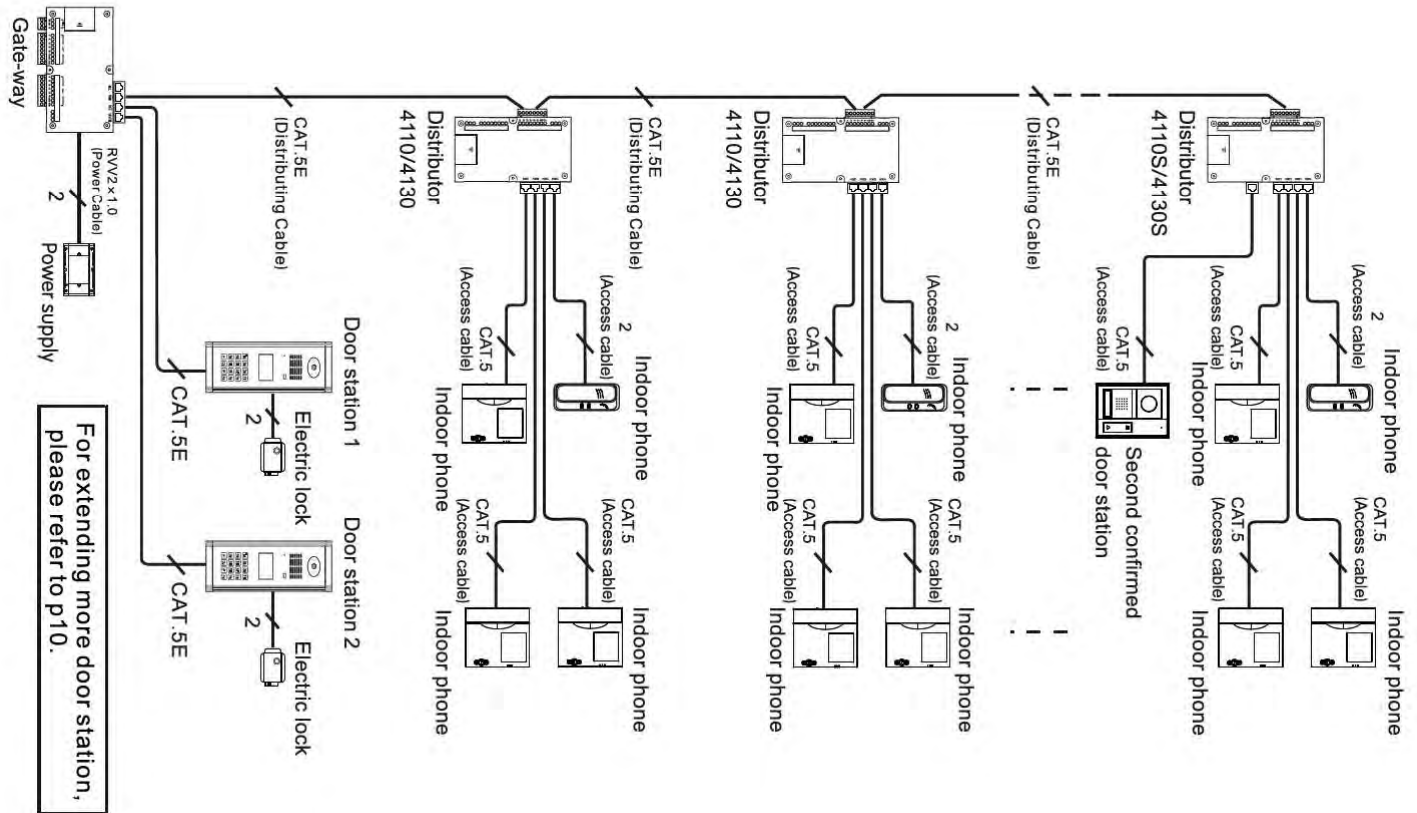
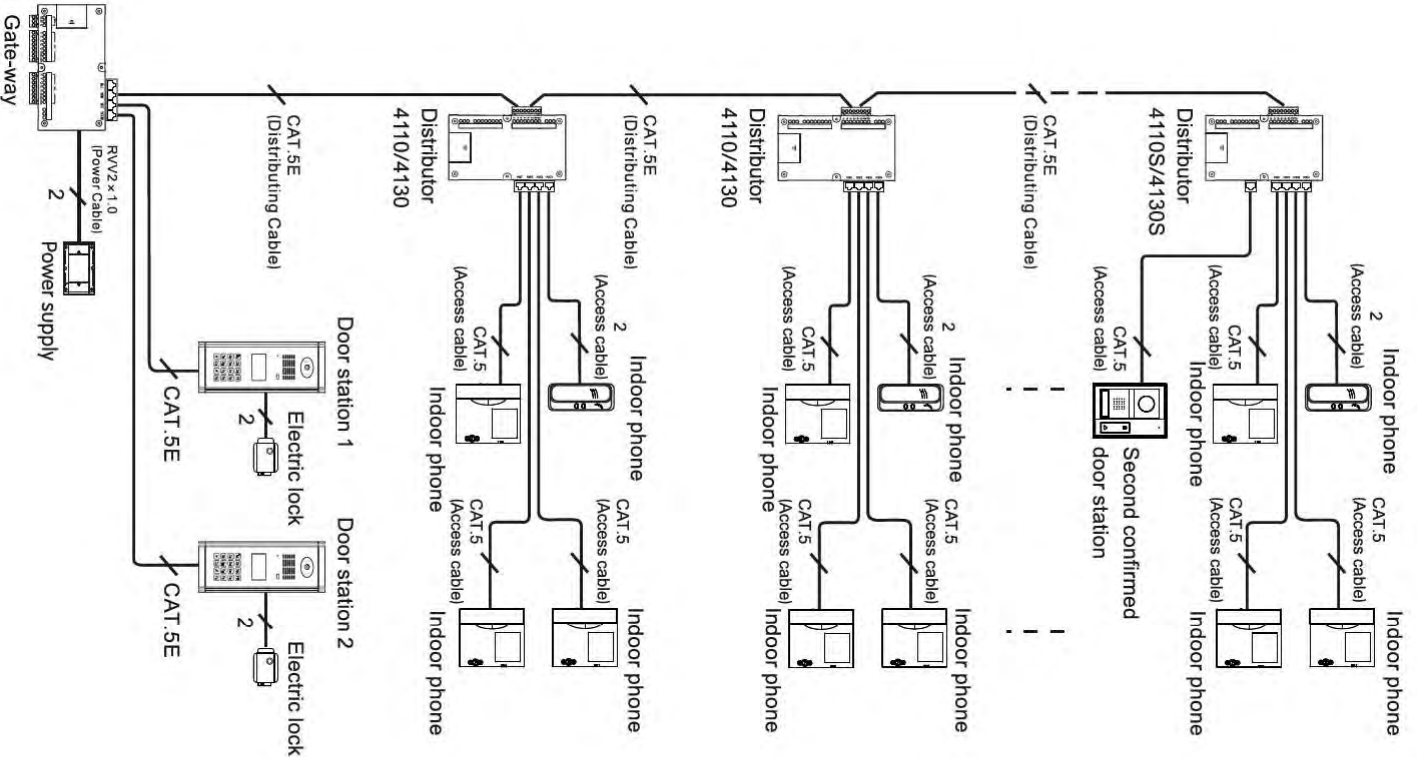
[Note] Only apply to the indoor phone with picture memory function.

Components (Pictures in the table only for reference.)

Product	Main features	specifications	Remark
Guard unit			
	Remote monitor any door station in network, intercom between all indoor phones and door stations, store and review alarm information.	Operating voltage: DC30~35V; Quiescent current: $\leq 90\text{mA}$; Operating current: $\leq 350\text{mA}$	Network equipments (optional)
Perimeter gate station			
	Using at main entrance, with the intercom, door release and other functions.	Operating voltage: DC30~35V; Quiescent current: $\leq 90\text{mA}$; Operating current: $\leq 260\text{mA}$	Network equipments (optional)
Network switch			
	Achieve the function of switching signal among every branch.	Operating voltage: DC30~35V; Quiescent current: $\leq 80\text{mA}$; Operating current: $\leq 200\text{mA}$	Network equipment (basic)
Gate-way			
	Achieve the function of audio and video signal switch function.	Operating voltage: DC30~35V; Quiescent current: $\leq 30\text{mA}$; Operating current: $\leq 90\text{mA}$	Network equipment (basic)
Door station			
	Using at building entrance, with the intercom, door release and other functions.	Operating voltage: DC30~35V; Quiescent current: $\leq 90\text{mA}$; Operating current: $\leq 250\text{mA}$	Unit equipment (basic)
Distributor			
	Achieve the function of audio, video signal distribution, each distributor can connect up to 4 indoor phones in different apartment.	Operating voltage: DC30~35V; Quiescent current: $\leq 15\text{mA}$; Operating current: $\leq 90\text{mA}$	Unit equipment (basic)
Apartment distributor(with second confirmed door station)			
	Achieve the function of audio, video signal distribution, each distributor can connect up to 4 indoor phones in the same apartment. When calling, 4 indoor phones will ring at the same time	Operating voltage: DC30~35V; Quiescent current: $\leq 15\text{mA}$; Operating current: $\leq 90\text{mA}$	Unit equipment (optional), match with apartment door station in use
Apartment second confirmed door station			
	Used in front of apartment door.	Operating voltage: DC30~35V; Quiescent current: $\leq 90\text{mA}$; Operating current: $\leq 250\text{mA}$	Unit equipment (optional), only one for each family, use together with single channel distributor(with second confirmed door station port)

Product	Main features	Specifications	Remark
Indoor phone			
	Achieve the functions of intercom, unlock, monitor, and sending alarm to guard unit	Operating voltage: DC30~35V; Quiescent current: ≤25mA; Operating current: ≤350mA	Unit equipment (basic) One family can have 1-4 pcs of indoor phone
Power supply			
Switch power supply 	Supply power for equipment (not including battery)	Operating voltage: AC180~270V 50~60Hz; DC Output: DC35V/1.4A;	System equipment (basic) User can choose power supply according to their actual need
UPS power supply 	Supply power for equipment.(The power is with battery backup inside.)	Operating voltage: AC180~270V 50~60Hz; DC Output: DC35V/1.4A; backup battery capacity: 4Ah	
Video repeater			
	Used to improve long distance network video effect	Operating voltage: DC30~35V; Operating current: ≤60mA	It is used when the network distance in a unit surpasses 600m.
Door station extender			
	Used for extend the accessory door station.	Operating voltage: DC30~35V; Quiescent current: ≤15mA Operating current: ≤ 60mA	Unit equipment (optional)

2. System wiring diagram



3. Product wiring diagram

This section will introduce wiring diagram for every parts' port in detail.

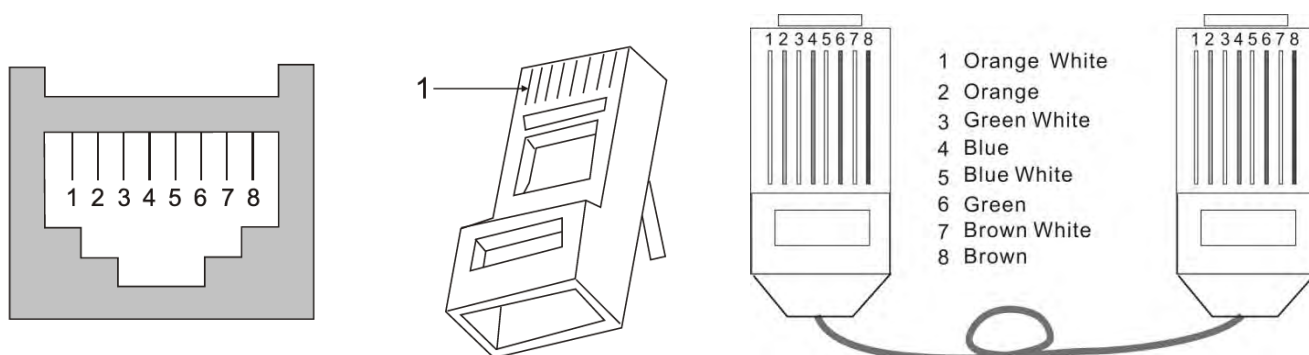
Connection explanation

1. C-5 cable connection explanation

All C-5 system use RJ45 connector, cable is in accordance with the international T568B standard, the order of wire from left to right is orange white/ orange / green white/ blue/ blue white/ green/ brown white/ brown.

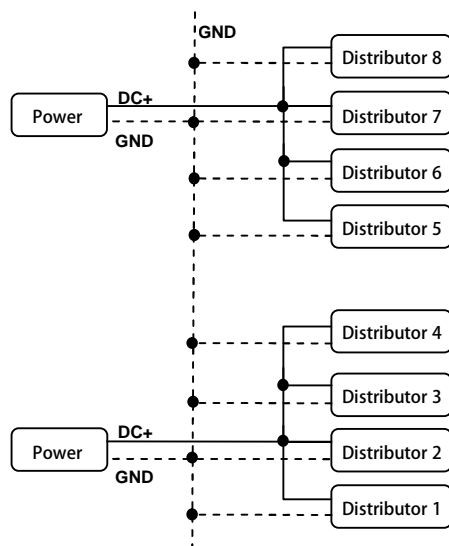
[Note] Please refer to Appendix 4 for the plug-45 making method.

Pin No.	1	2	3	4	5	6	7	8
color	ORW	OR	GRW	BL	BLW	GR	BRW	BR
silk-screen	LA	LB	VF-	AF+	AF-	VF+	GND/COM1	DC+/COM2



2. UPS power supply connection explanation

When there are a lot of distributors used in the system and the sole gate way power supply can not load any more, some more power supplies should be added to main line in the distributors.



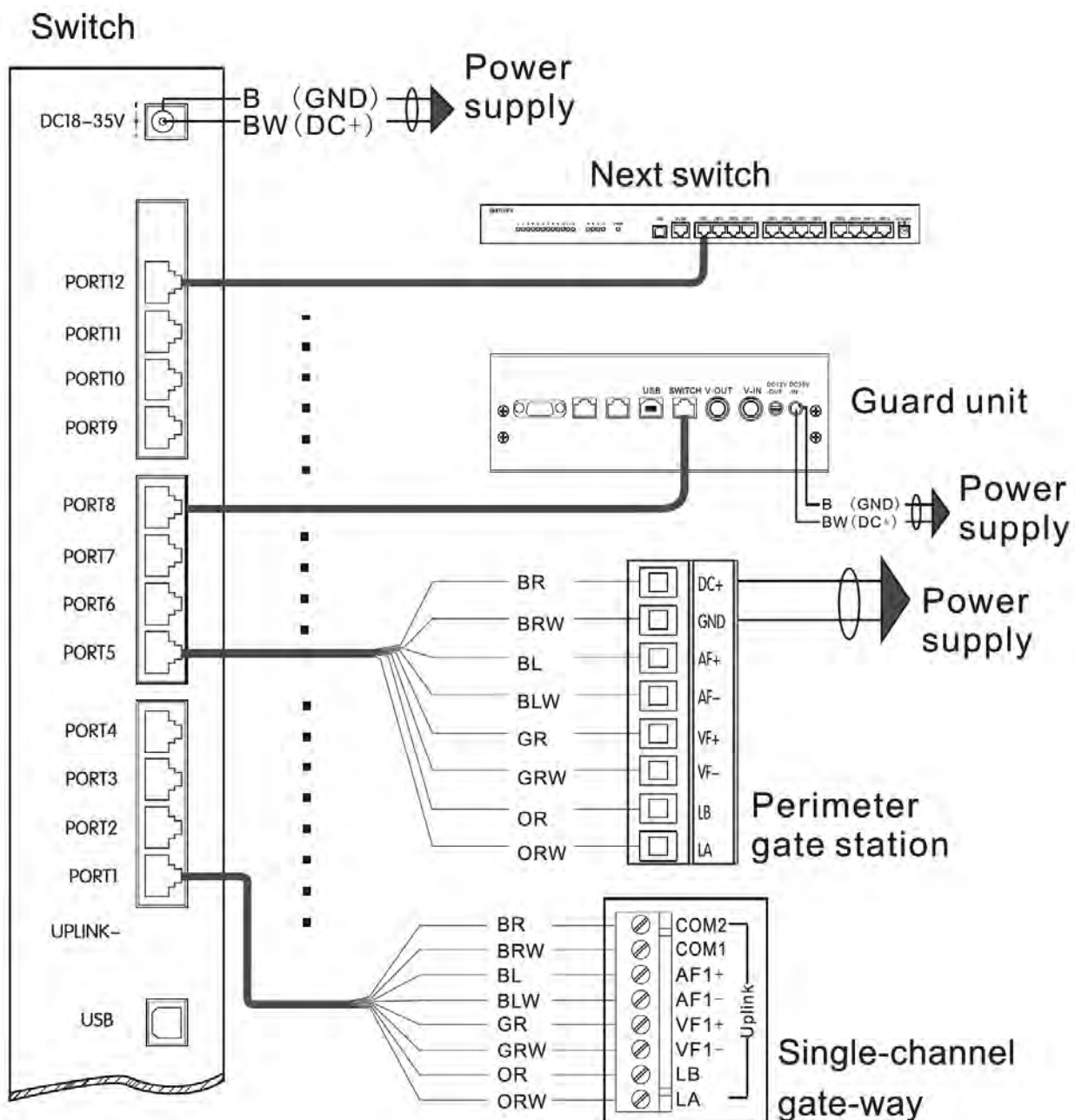
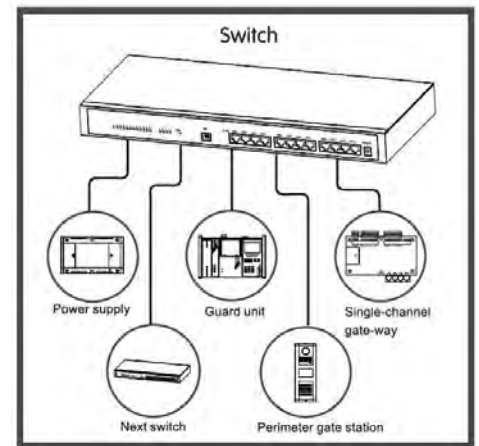
[Notes] 1. When using one power supply for multiple distributors, the power supply is required to be connected to the middle distributor, the position of power supply should be symmetry.

2. When the main line in the same building using multiple power supplies, the DC+ line should be disconnected between any two adjacent power supplies, but GND line should be linked together.

3. When one power supply supports the building that is more than 6 floors, one RVV2X1.0 cable should be connected from DC+ and GND of power supply to the DC+ and GND of each distributor. This is to avoid the line loss through the long distance transmission.

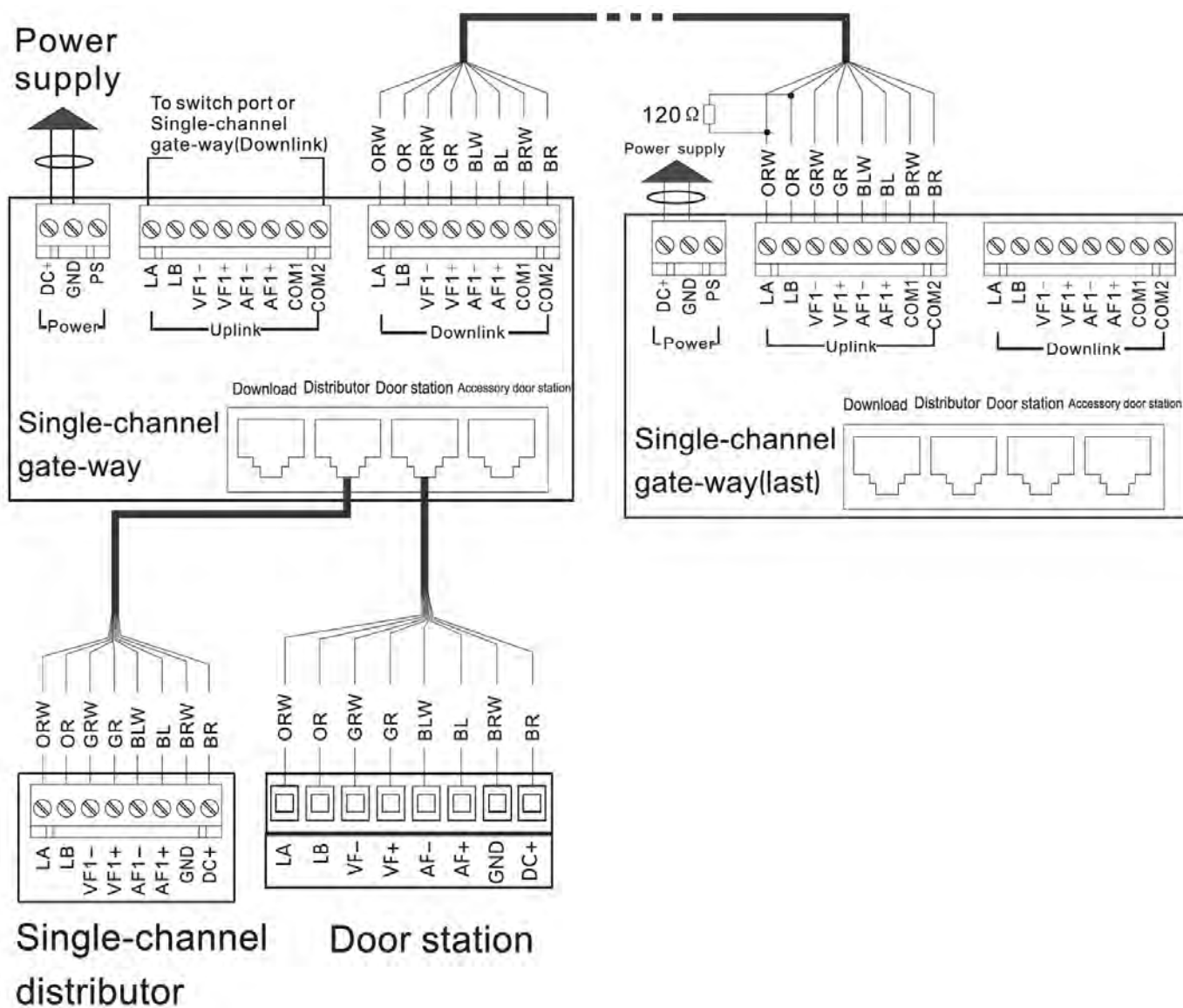
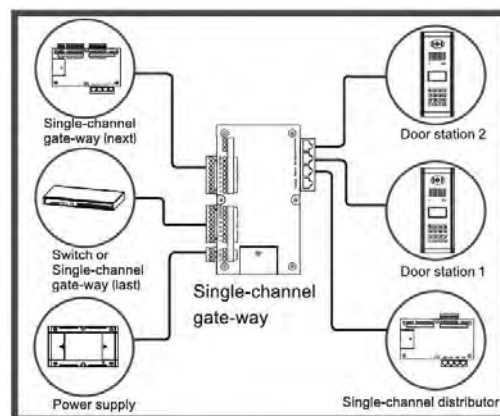
Switch wiring diagram

1. One port of switch can connect: 1 perimeter gate station/ 1 guard unit/ 1 network spur track(which can connect at most for 63 gate-ways adopts hand in hand connection method)/ 1 switch



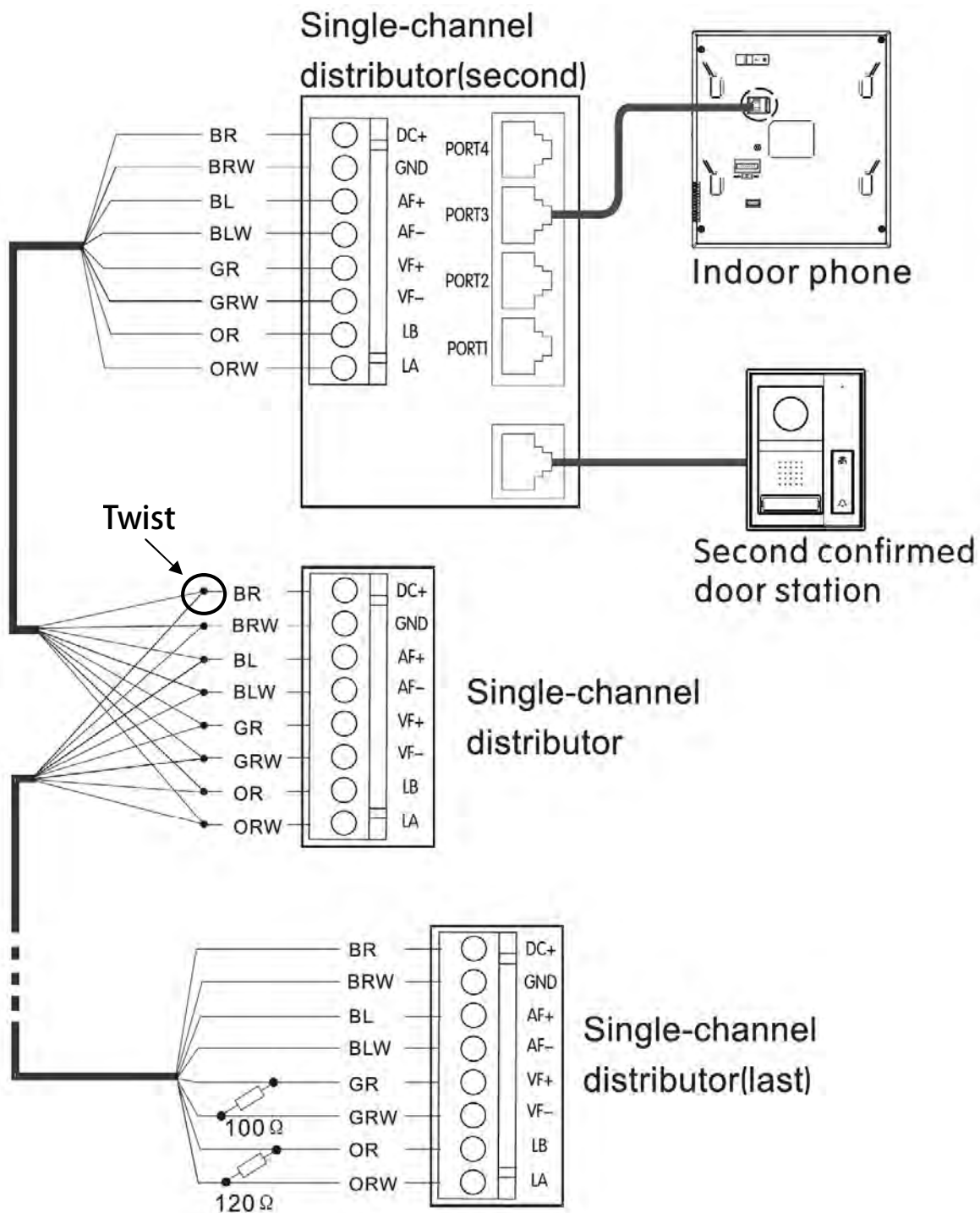
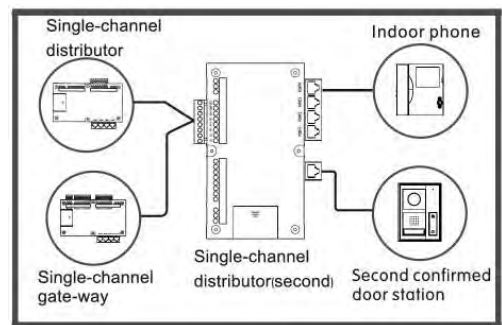
Gate-way wiring diagram

1. Accessory door station's wiring method is the same as door station.
2. Between the [Uplink] terminals (LA, LB) on the last gate way in the network should have 120Ω resistance, [Downlink] terminals do not need to be connected.
3. When wiring for power supply, PS ports should not be connected.



Distributor wiring diagram

1. PORT1 ~PORT4 is used for indoor phone connection
2. Second confirmed door station should be connected with the apartment distributor that is specified for second confirmed door station.
3. All the same signal line of up-link and down-link should be twisted together first before connecting to the distributor.
4. Between LA and LB on the last distributor in the unit should have 120Ω resistor, between VF+、VF- should have a 100Ω resistor.

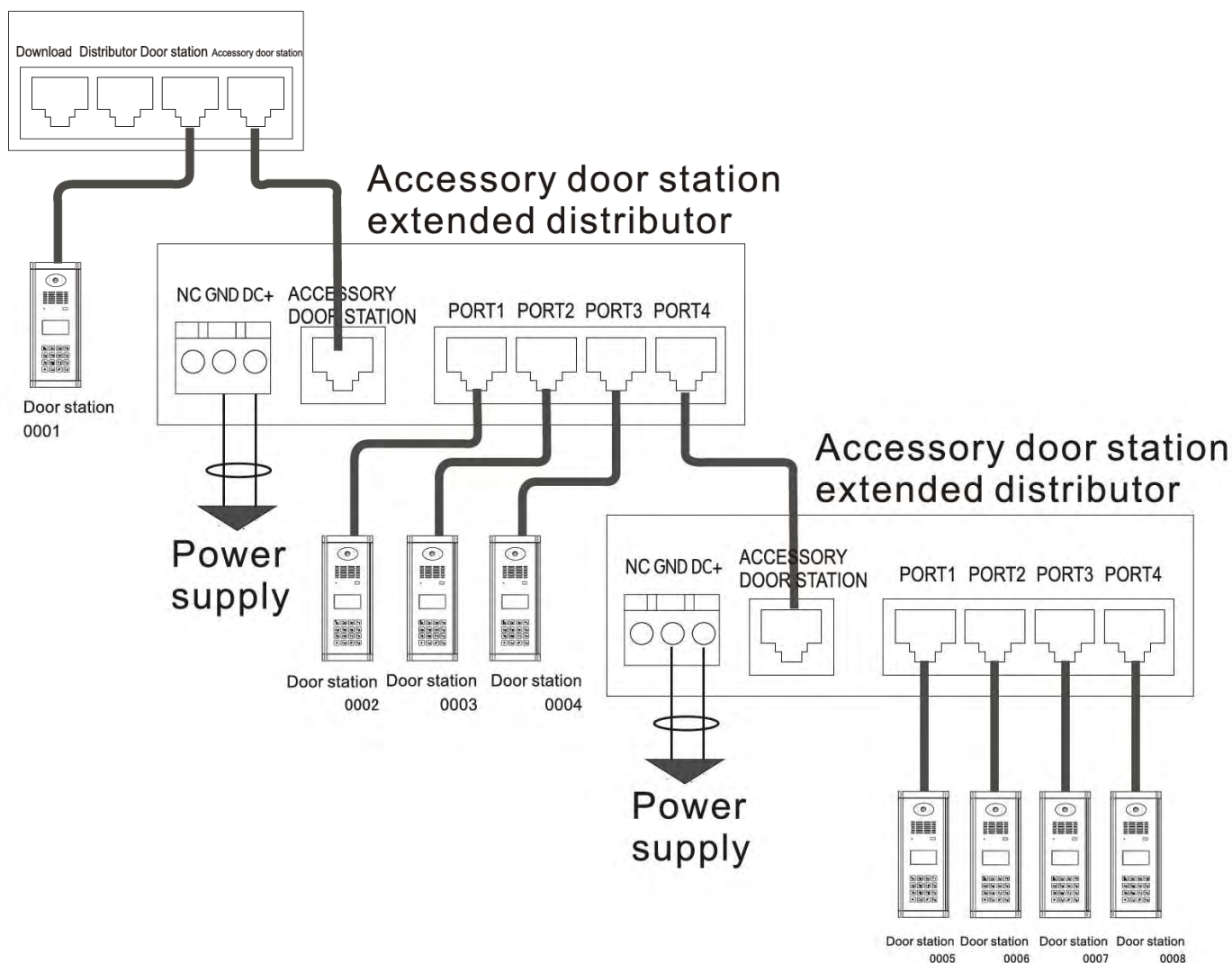


Door station extender diagram

1. Door station should be set for busy mode: Switch off power, press the button 1 on door station then switch on power. After this, when one door station is used, other door station will show "system busy", this can prevent system conflicts.
2. When setting ports for door station and gate-way, the ports No. should be set as the following sequence.

	Door station No.	Gate way port No.
door station	0001	1
accessory door station 1	0002	2
accessory door station 2	0003	3
...
accessory door station7	0008	8

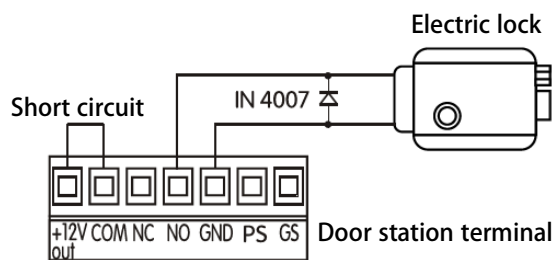
Single-channel gate-way



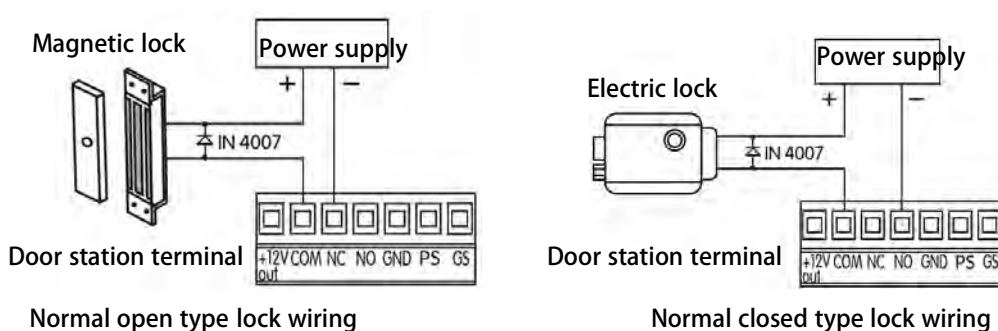
Door station lock diagram

System provides two ways of electric lock connection for user to choose: Power unlock and signal unlock. (Note: For oversea market, always use the signal unlock).

1. Power unlock

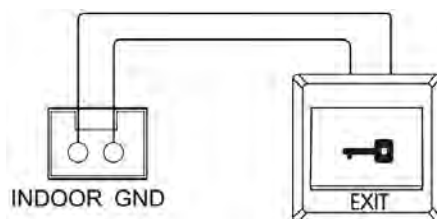


2. Signal unlock



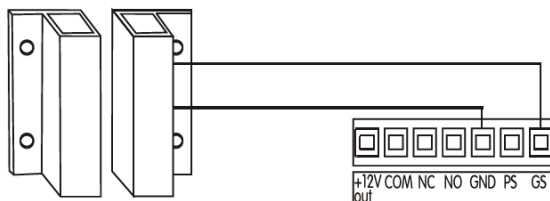
[Note] This way of unlocking needs DC12V separate power supply.

3. Exit button unlocking



4. Door alarm diagram

Connect the door station [GS] terminal to the door alert sensor as follows show, the door station will send alarm message to managing center if the door is opened for more than 120s.



[Note] There are two methods to switch this function OFF.

1. Connect the [GS] terminal to earth.
2. Refer to the "Appendix 1~2. door station operation explanation" → "Alarm Setting" to set it OFF.

4. System programming

According to product wiring diagram, connect all the parts and then start system programming. Programming should follow the sequence from a building to network system. Programming products in a building first, then program system products in network.

Building programming

First step: Hardware setting

This step is to set address for gate-way and distributor.

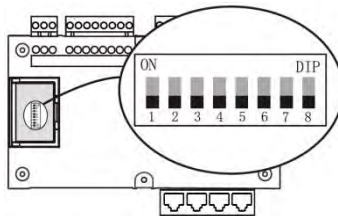
[Note] 1. All the gate-way number which connect to the same port of switch should not be repeat.

2. All the distributor number which connect to the same gate-way should not be repeat.

3. Please take record of the gate-way number and distributor number, these information may be used in the coming setting.

■ Address gate-way (Set gate-way number)

1. DIP switch (it is in the cover plate on the left side of gate-way), show as below:



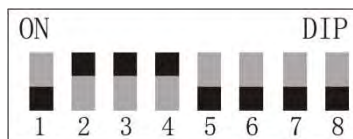
2. Address range :001~063

3. Address calculating: According to the form below, plus all the number that is on the [ON] position, and you will get the address number.

DIP	1	2	3	4	5	6	7	8
Digits	1	2	4	8	16	32	none	none

[Note] When setting address, please according to sequence of unit order to set numbers/digits(DIP 7-8 is invalid, and can not be set on [ON] position to the DIP7 and DIP8.)

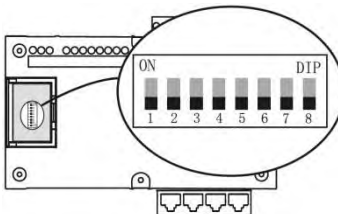
e.g.:



From the above picture, the digit is =2+4+8=14, so the gate-way' s address/number is 014.

■ Address distributor (Set distributor number)

1. DIP switch (it is in the cover plate on the left side of distributor), show as below pictures

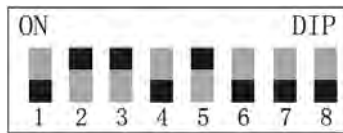


2. Address range :001~254

3. Address calculating: According to below form, add all digits on [ON] position to get the address number.

DIP	1	2	3	4	5	6	7	8
Digit	1	2	4	8	16	32	64	128

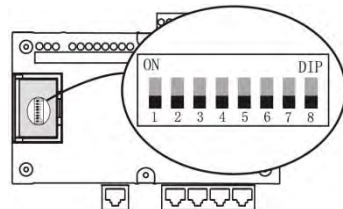
e.g.:



From the above form: the digit is $=24 + 16 = 22$, so the distributor's address/number is 022.

■ Apartment distributor programming

1. DIP switch (it is in cover plate on the left side of distributor)



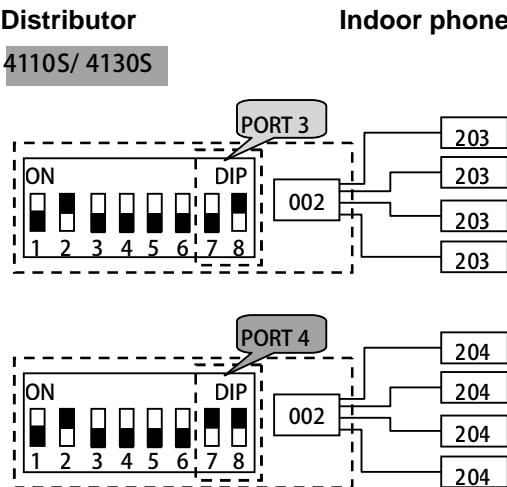
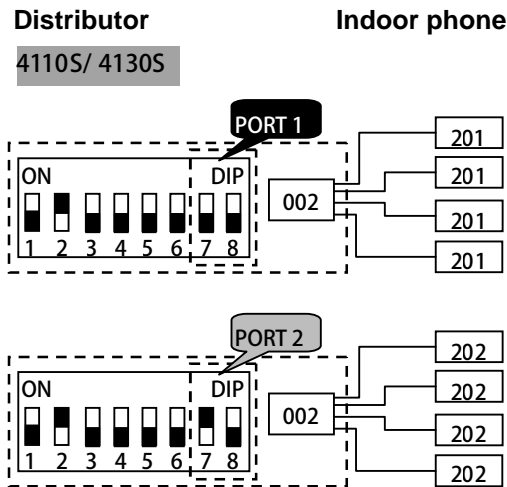
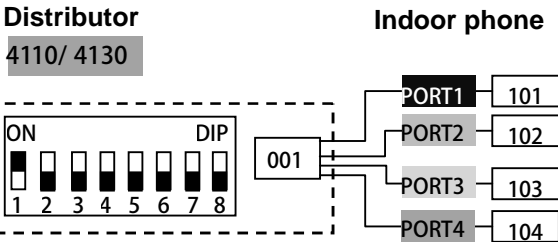
2. Address range: 001~063.
3. Address calculating: According to the form below, add all the digits on the [ON] position to get the address number.

DIP	1	2	3	4	5	6	7	8
Digit	1	2	4	8	16	32	none	none

When each apartment needs only 1 indoor phone, then the distributor can use 4110 or 4130, and 4 ports of distributors connect to 4 different indoor phones in different apartments.

If one apartment wants to have 2 or more indoor phones, then distributor 4110S or 4130S should be used, and 4 ports of the distributor connect to the indoor phones in the same apartment.

During the programming, the address number of the any two 4110/4130 distributors should be different with each other, while the address number of 4 distributor 4110S/4130S can be the same by setting the DIP 1-6 the same digit, while DIP7 and 8 different. Details refer to the below illustration.

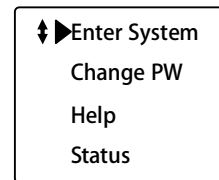


(LCD door station)

Step 2: Door station programming

1. Memory/Information clearance (Only used in the first time programming)

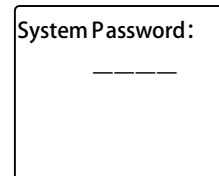
On standby mode, press[F1] key, enter function main menu as P1 shows, select "Enter System" and press [#] key to confirm.



(1)

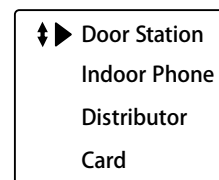
LCD shows as P2,input system password: 2-0-0-3

[Note] This password is the original one



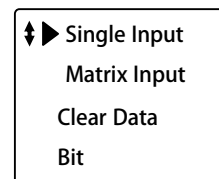
(2)

If the system password is correct, automatically enter P3 press F2 to select indoor phone ,press # key to confirm



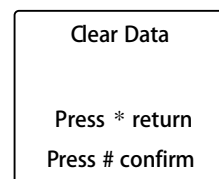
(3)

Enter P4 , press F2 to select "Clear Data" and press [#] to confirm



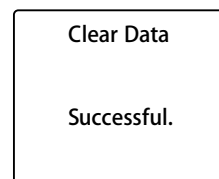
(4)

LCD shows as P5, press [#] key



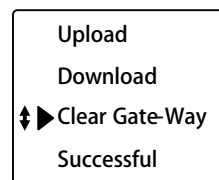
(5)

If clearance successful, a long sound of "di" can be heard and LCD shows as P6, press [*] key to back to menu of P4



(6)

In the menu of P4, press F1 or F2 to flip, choose "Clear Gate-Way" and press [#] to confirm. After clearance LCD shows as P7, press [*] to back to menu of P3



(7)

2. Door Station No. setting

Select “door station” in the menu of P3, press [#] to confirm, then LCD shows as P8, input door station No. and gate-way port here.

[Note] Door station's No. is from 0001, Port No. of gate-way please refer to the port of gate-way connected to door station

e.g.: The No. of the 6th door station in the building is 0006. gateway port is 6 after successfully setting, a long sound of “di” can be heard and the LCD shows as P9
Press * button to return to P3 after finish.

Door station No.
0001
Gate-Way Port :
1

(8)

Door station No.
0006
Gate-Way Port :
6

(9)

3. Indoor phone setting

Choose indoor phone in P3, press[#]button to confirm and enter P10, the information of indoor phone can be set here.

[Note] By direction key [F1] or [F2] to choose function or flip, press [] key to back to P3.*

I. Indoor phone digit

In P10, choose digit of indoor phone No. press[#] to confirm LCD shows as P11, according to residents' room No. digit. Press [F1] or [F2] to select indoor phone digit and press [#] to confirm after setting, back to P10 automatically.

[Note] You should choose the indoor phone digit first, then you can proceed with the indoor phone number setting.

↕▶ Single Input
Matrix Input
Clear Data
Bit

(10)

↕▶ 2 bits
3 bits
4 bits
4 bits Current

(11)

Then proceed with indoor phone information input, there are two input modes: Single input mode and matrix input mode user can choose what they need.

II. Single input mode

In P10, choose single input mode press[#]to confirm LCD shows as P12.

- ◆ Indoor phone No: 2~4 digit No. (Digit is depended on the last indoor phone digit)
- ◆ Distributor No Input the distributor No. of indoor phone, valid scope: 001~254
- ◆ Port No.: Input distributor port No. connecting to indoor phone valid scope: 1~4
- ◆ Ring: This system offers 3 types of ring for user to choose input ring No. (1~3)

Input data according to the indication, as P13 shows.

Indoor phone: _ _ _ _
Distributor: _ _ _
Port No.: _
Ring Type: _

(12)

Indoorphone:0101
Distributor:001
Port No.:3
Ring Type:3

(13)

After finish, back to P12 input next indoor phone No. or press [*] to back to P10.

[Note] 1. Ringing will be heard when indoor phone is called

2. When system's ring is chord melody type, there are 3 types of rings for chosen. If the door station is with Dingdong ring type, then it is always "Dingdong" ring when choose 1-3.

III. Matrix input mode

[Note] This mode is only suitable for buildings with matrix structure, if every floor has different quantity of apartment, then should choose single input mode.

In P10, choose matrix input mode press[#]to confirm LCD shows as P15,input data according to hint

- ◆ Start No.: Input the start indoor phone No.
 - ◆ End No.: Input the last indoor phone No.
 - ◆ Ring Type: 3 types of ring for user to choose input ring No. (1~3)
 - ◆ Password: Input resident password 1-2-3-4
- After finish,input press [*] to return to P1

e.g.: A building has 20 floors, each floor has 4 apartments. The indoor phone start No. is 0101 end No. is 2004.
Distributor No. is from 001to 020
The ring for door station calling indoor phone is 2
Resident password: 1-2-3-4

Setting as P16 shows, after input password, if there is no error, P17 will show and back to P15 automatically then you can input another data, also you can press [*] to back to P10.

Start No.: _ _ _ _
End No. : _ _ _ _
Ring Type:_
Password: _ _ _ _

(15)

Start No.: 0 1 0 1
End No. : 2 0 0 4
Ring Type:2
Password:* * * *

(16)

Successful

(17)

IV. Data upload

After indoor phone information set/program through door station, all data is saved in door station, when connecting system to network, these data need to be upload to gate-way

↕▶ Upload
Download
Clear Data

(19)

Seq. No.:080
Indoorphone.:2004
Distributor001-1
Ring Type:2

(20)

Step 3. Testing basic functions

To test and check each device whether they work properly or not.

1. Door station calling indoor phone

Input room No. on door station to call indoor phone, indoor phone answers and unlocks the door.

Malfunction 1. Door station shows: Fail-2.

- Check the wiring between door station and gate-way, distributor and gate-way
- Check if the DIP digit set in distributor is the same with the indoor phone setting on door station.

Malfunction 2. Door station enters ringing status, indoor phone doesn't response.

- Check wiring between indoor phone and distributor.

2. Accessory door station calling indoor phone(only for system with accessory door station)

Dial room no. on accessory door station to call indoor phone, indoor phone answers and unlocks the door.

The problem phenomenon and solving method of the accessory door station is the same as the door station

3. Indoor phone monitor (only for video system)

Press monitor button on indoor phone to monitor the door station.

(LED door station)

Step 2: Door station programming

1. Memory/Information clearance (Only used in the first time programming)

On standby mode, press **F1** button, enter function main menu as P1 shows.



(1)

Input the system password: **2 0 0 3** .
If the password is correct, automatically enter P2. It means enter the setting state successfully.



(2)

In the setting state, input **1 #** , then input **2 #** to clear all the indoor phone information. The LCD will show as P3 during process.



(3)

If clearance successful, a long sound of “di” can be heard and LCD shows as P4, press [*] button to back to menu of P2.



(4)

In the menu of P2, input **6 #** to clear the information in the gate-way. After clearance, a long sound of “di” can be heard and the LCD shows as P5, press [*] button to back to menu of P2.



(5)

2. Door station No. setting

In the menu of P2 input **0 #** , enter the door station number setting, it will show as P6 for the first time setting.

Input door station number, e.g.: **0 1 0 1**

Input the gate-way port which connect to the door station, e.g.:

1

Press **#** button to confirm, it will automatically return to P2.

[Note] Door station's No. is from 0001, Port No. of gate-way please refer to the port of gate-way connected to door station.



(6)

3. Indoor phone setting

In the menu of P2, input **1** **#**, the LCD will show as P7, the information of indoor phone can be set here.

I. Indoor phone digit

In the menu of P7, input **3** **#**, the LCD will show as P8.

The right number shows the current indoor phone digit. Input the new number (2~4), and press **#** button to confirm.

[Note] You should choose the indoor phone digit first, then you can proceed with the indoor phone number setting.



(7)



(8)

Then proceed with indoor phone information input, there are two input modes: Single input mode and matrix input mode. User can choose what they need.

II. Single input mode

In the menu of P7, input **0** **#**, the LCD will show as P9.

Input the indoor phone No., distributor No., port No., and ring No. in turn.

- ◆ Indoor phone No: 2~4 digit No. (Digit is depended on the last indoor phone digit) e.g. **0 1 0 1**
- ◆ Distributor No: Input the distributor No. of indoor phone, valid scope: 001~254 e.g. **0 0 1**
- ◆ Port No.: Input distributor port No. connecting to indoor phone valid scope: 1~4 e.g. **1**
- ◆ Ring: This system offers 3 types of ring for user to choose input ring No. (1~3) e.g. **3**



(9)



(10)

After finish, the LCD shows as P10, input next indoor phone No. or press **[*]** to back to P7.

[Note] 1. Ringing is only heard when indoor phone is called.

2. When system's ring is chord melody type, there are 3 types of rings for chosen. If the door station is Dingdong ring type, it is always "Dingdong" ring when choose 1-3.

III. Matrix input mode

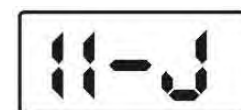
[Note] This mode is only suitable for buildings with matrix structure, if every floor has different quantity of apartment, then should choose single input mode.

In the menu of P7, input **1** **#**, the LCD will show as P11.

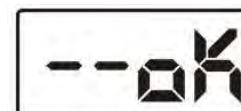
- ◆ Start No: Input the start indoor phone No. e.g. **0 1 0 1**
- ◆ End No: Input the last indoor phone No. e.g. **0 7 0 4**
- ◆ Ring Type: Input ring number (1~3) e.g. **1**
- ◆ Password: Input resident password e.g. **1 2 3 4**

After finish, the LCD shows as P12, press **[*]** to back to P7.

[Note] The original password is 1-2-3-4. You can refer to "Appendix 2" → "Change password" to change it.



(11)



(12)

IV. Indoor phone data upload

[Note] This function is for upload indoor phone data saved in door station to gate-way when in network.

In the menu of P7, input **4** **#** The LCD will show as P13,
finally the LCD shows the upload result which is P14
Press [*] back to P2.



(13)



(14)

Step 3. Testing basic functions

To test and check each device whether they work properly or not.

1. Door station calling indoor phone

Input room No. on door station to call indoor phone, indoor phone answers and unlocks the door.

Malfunction 1. Door station shows: Err2 (It means there is no response for calling).

- Check the wiring between door station and gate-way, distributor and gate-way
- Check if the DIP digit set in distributor is the same with the indoor phone setting on door station.

Malfunction 2. Door station enters ringing status, indoor phone doesn't response.

- Check wiring between indoor phone and distributor.

2. Accessory door station calling indoor phone(only for system with accessory door station)

Dial room no. on accessory door station to call indoor phone, indoor phone answers and unlocks the door.

The problem phenomenon and solving method of the accessory door station is the same with the door station

3. Indoor phone monitor (only for video system)

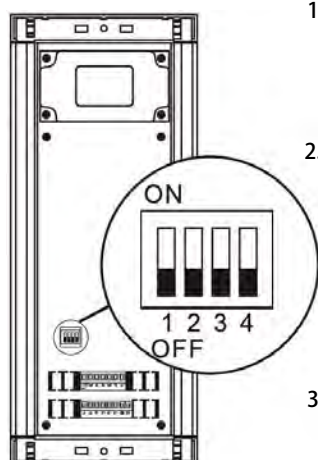
Press monitor button on indoor phone to monitor the door station.

(Direct -call door station)

Step 2: Door station programming

■ Dip switch setting

Adjust the switches (if there is) according to the follow illustration:



1. Gate-way ports setting

PORT: [Door station 1]	
PORT: [Door station 2]	

2. Buttons setting

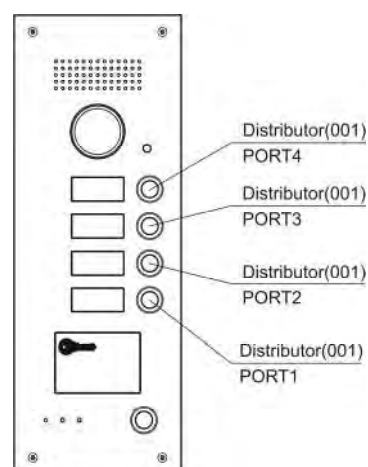
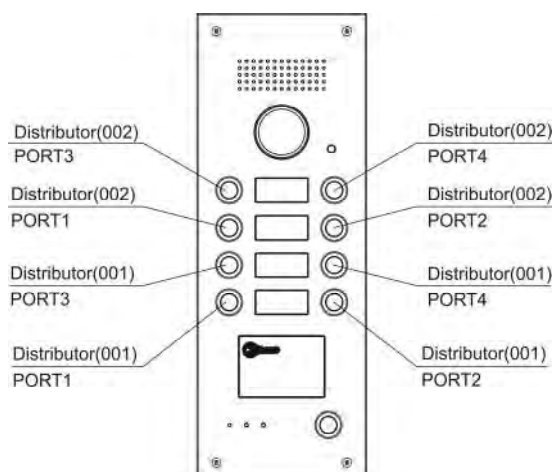
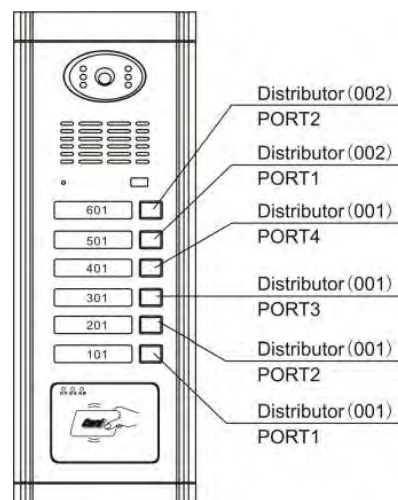
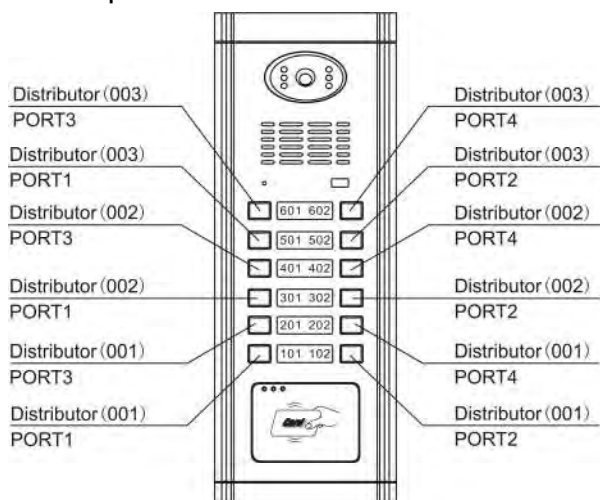
Single columns buttons	
Two columns buttons	
Three columns buttons	
Four columns buttons	

3. Unlock time setting

1 sec.	
5 sec.	

■ Door station buttons list

The correspondence between door station buttons and distributor ports is as follows show:



Following setting especially for G9 door station (By remote control)

First , you must enter the system setting:

1.Press [FN] +password(4 bits) +[ENTER]

2.The door station will sound a long beep and the [DOOROPEN] LED will flash slowly. It means enter the system setting.

[Note] the original password is /1234/.

1. Memory/Information clearance (Only used in the first time programming)

1. Press [FN] + [DEL+] +[ENTER]

2. The door station will sound a long beep. And the [DOOR OPEN] LED will start to flash slowly. It means successfully to clean the indoor phone data.

3. Press [FN] + [CLEAR] +[ENTER]

4. The door station will sound a long beep. And the [DOOR OPEN] LED will start to flash slowly. It means successfully to clean the gate-way data.

2. Door Station No. setting

1. Press [SERVICE] + [UNLOCK], input door station number [apartment number(4 bits) + gate-way port number(1 bits)]

2. The door station will sound a long beep. And the [DOOR OPEN] LED will start to flash slowly. It means successful.

3. Indoor phone setting

1. Press [FN]+[REG-], [DOOROPEN] LED will flash quickly.

2. Press [CALL] button on the door station, system will sound a short beep.

3. Input "Distributor (3 bits)" + "Port number (1 bits)" + [ENTER]

4. If the door station sounds a long beep, that means the program is successful. While the [DOOROPEN] LED will still flashing quickly.

The program for another buttons is available by repeating step 2 and step3.

4. Indoor phone data upload

[Note] This function is for upload indoor phone data saved in door station to gate-way when in network.

1. Press [FN] + [TIME] +[ENTER]

2. The door station will sound a long beep. And the [DOOR OPEN] LED will start to flash slowly. It means successfully to upload the indoor phone data.

Step 3. Testing basic functions

To test and check each device whether they work properly or not.

1. Door station calling indoor phone

Press call button on door station, the corresponding indoor phone will ring, then answer the call and unlock the door.

Malfunction 1. Door station sounds three short “di” .

- Check the wiring between door station and gate-way, distributor and gate-way

Malfunction 2. Door station enters ringing status, indoor phone doesn't response.

- Check wiring between indoor phone and distributor.

2. Accessory door station calling indoor phone(only for system with accessory door station)

Press call button on door station to call indoor phone, indoor phone answers and unlocks the door.

The problem phenomenon and solving method of the accessory door station is the same with the door station

3. Indoor phone surveillance (only for video system)

Press monitor button on indoor phone to monitor the door station.

According to building programming steps, have all door stations programmed, and then proceed network system programming.

Step 1. Perimeter gate station setting

On standby mode, press F1 to enter main menu of P1, choose "Enter System" and press # to confirm.

LCD shows P2 , enter system password 2-0-0-3

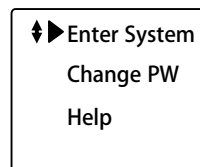
[Note] This password is the original one

If the password is correct, enter P3 automatically choose perimeter gate station No. and press # to confirm

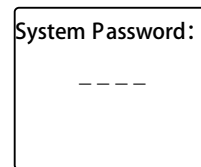
LCD shows P4 , enter here the perimeter gate station No. and switch port No., then press [*] to back to P3

[Note] The valid scope for perimeter gate station is 00~09.

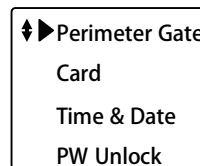
e.g.: Input the data according to left Picture and press # to confirm, after successful registration, shows P5



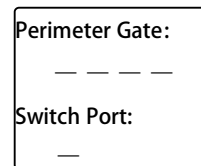
(1)



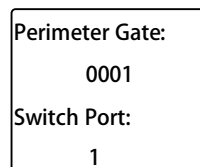
(2)



(3)



(4)



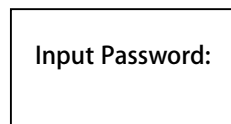
(5)

Step 2. Guard unit setting

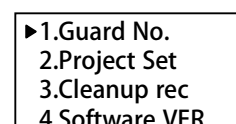
Press [confirm]key, LCD shows P1, input code: 1-2-3-4-5-6-7-8

[Note] This password is initial code

If password is right, will enter P2 directly



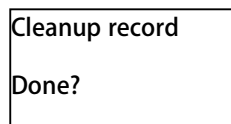
(1)



(2)

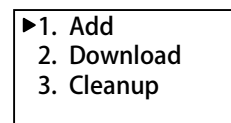
1.Data clearance (For first time programming)

In P2, press [down] key to choose "Cleanup rec.", press "confirm" key, LCD shows P3 , and press "confirm" key again clear guard unit data.



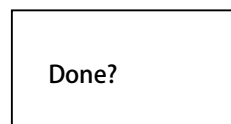
(3)

In P2, press[down] key to "Project Set" , press confirm LCD shows P4



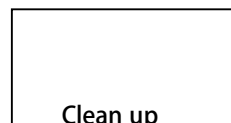
(4)

In P4, press[down]key to choose "Cleanup" , press confirm LCD shows P5



(5)

Press confirm key, LCD shows cleanup status, after finish, show P6, then back to P4



(6)

2. Setting guard unit No.

[Note] If there is only one guard unit in network, then the guard unit number is 1.

Press "back" key to return to P2 choose "guard unit No. setting" press confirm key, LCD shows P7

According to hint, input new guard unit No press "confirm", key LCD shows P8, then back to P2

Guard No:1
New:

(7)

Guard No:1
New:2

Save OK

(8)

3. Add setting form

[Note] This form collects information from door station in the building, guard unit and perimeter gate station in network.

Then download this setting form to switch to make system work.

In P2, press [down] key to select system set, press confirm key and LCD shows P9

In P9, select "add" and press confirm key, LCD shows P10

In P10, press [down] key to check each setting information, then it comes to P11

►1. Add
2. Download
3. Cleanup

(9)

►1.Type:Door
2.No:0001
3.SwitchPort:00
4.Dist: 0 m

(10)

5.Gate No:01
6.Gate Port:01
7.Previous
►8.Next

(11)

Setting door station information

In P10, press [down] key to select "No.", use number key to enter door station No., setting as P12

[Note] Door station No. can be set according to building apartment No.

After No. setting, press [down] key to select "switch port", enter switch port No. (The port No. which has been connected to gateway terminals), as P13 shows.

After setting the switch port, press [down] key to select "dist", enter the distance (from door station to switch), as P14 shows.

0: 0m 1: 150m 2: 300m 3: 450m

4: 600m 5: 750m

After distance setting press [down] key to select "gate No." Enter gate-way No. setting, shows as P15

After gate way No. setting, press [down] key to select "gate port", enter gate port No. as P16 shows.

Till now one door station's information setting is completed, press [#] to save. Following the above steps to set another door station.

1.Type:Door
►2.No:0101
3.SwitchPort:00
4.Dist: 0 m

(12)

1.Type:Door
2.No:0101
►3.SwitchPort:01
4.Dist: 0 m

(13)

1.Type:Door
2.No:0101
3.SwitchPort:01
►4.Dist: 150 m

(14)

2.No:0101
3.SwitchPort:01
4.Dist: 150 m
►5.Gate No:01

(15)

3.SwitchPort:01
4.Dist: 150 m
5.Gate No:01
►6.Gate Port:1

(16)

Then proceed with perimeter gate station and guard unit setting.

In P10, select setting equipment: 0: door station 1:guard unit
2:perimeter gate station

Example enter 2, and LCD shows P17

Then set perimeter gate station (guard unit) No., switch port No.
and distance, setting is just like door station setting, press[#]
save when finish.

►1.Type:Perimete
2.No:0001
3.SwitchPort:00
4.Dist: 0 m

(17)

4.Download setting form

Press [back] key to back to P9, press[down] key to select
“download setting form” , press [confirm] key after download
LCD shows P18.

Successfully
0012 Bar

(18)

After successful download, back to P9

Step 3. Basic function tests

1. Perimeter gate station call guard unit

Press # on perimeter gate station to call guard unit and guard unit answers.

Malfunction 1, perimeter gate station shows: Fail-2.

- Check the wiring between perimeter gate station and switch.

Malfunction 2. Perimeter gate station shows: Fail-11.

- Check wiring between guard unit and switch.

Malfunction 3. Guard unit ringing, but no image, perimeter gate station no ringing.

- Check whether the indicator light on switch for guard unit and perimeter gate station port is on or off. If the indicator light is on, but it is not the same as the wiring port, check the setup form of perimeter gate station and guard unit, check whether they are in accordance with the actual wiring.

2. Door station (LCD) calling guard unit

Press # key on door station to call guard unit, and guard unit answers.

Malfunction 1. Door station shows: Fail-2

- Check wiring between door station and gate-way.

Malfunction 2. Door station shows : Fail-9.

- Check wiring between switch and gate-way

Malfunction 3. Door station shows: Fail-11.

- Check wiring between guard unit and switch

Malfunction 4. Guard unit ringing, but no image, door station no ringing

- Check whether the indicator light on switch for guard unit and gate -way port is on or off. If the indicator light is on, but it is not the same as the real wiring port, check the setup form of door station and guard unit, check whether they are in accordance with the actual wiring or not.

Malfunction 5. The door station no. shows on the guard unit is not the same with reality.

- Check whether the door station setup form is in accordance with the actual wiring or not.

2-2. Door station (LED) calling guard unit

Press # key on door station to call guard unit, and guard unit answers.

Malfunction 1. Door station shows: Err2

- Check wiring between door station and gate-way.

Malfunction 2. Door station shows: Err9

- Check wiring between switch and gate-way

Malfunction 3. Door station shows: Err11

- Check wiring between guard unit and switch

Malfunction 4. Guard unit ringing, but no image, door station no ringing

- Check whether the indicator light on switch for guard unit and gate-way port is on or off. If the indicator light is on, but it is not the same as the real wiring port, check the setup form of door station and guard unit, check whether they are in accordance with the actual wiring or not.

Malfunction 5. The door station no. shows on the guard unit is not the same as reality.

- Check whether the door station setup form is in accordance with the actual wiring or not.

2-3. Direct-call door station calling guard unit

Press # key on door station to call guard unit, and guard unit answers.

Malfunction 1. Door station sounds short “di” “di” “di” .

- Check wiring between door station and gate-way.

- Check wiring between switch and gate -way
- Check wiring between guard unit and switch

Malfunction 1. The door station no. shows on the guard unit is not the same as reality.

- Check whether the door station setup form is in accordance with the actual wiring or not.

3. Intercom between indoor phone and guard unit

Pick up the handset of indoor phone (if it is hands-free indoor phone, press "talk" button), then press "call" button to call guard unit, guard unit answers and intercom with each other. Pick up guard unit handset, dial the indoor phone No. to intercom with the indoor phone.

Malfunction 1. Indoor phone No. shows on guard unit does not in accordance with the real indoor phone.

- Check whether the indoor phone data/information from the door station has been uploaded to the gate-way or not.

4. Perimeter gate station calling indoor phone

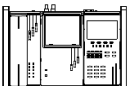


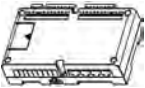
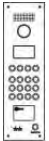
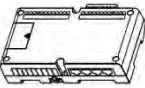


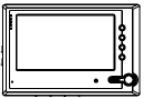
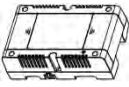
Dial room No. on perimeter gate station and call indoor phone, indoor phone answers and unlock the door.

5. Project case

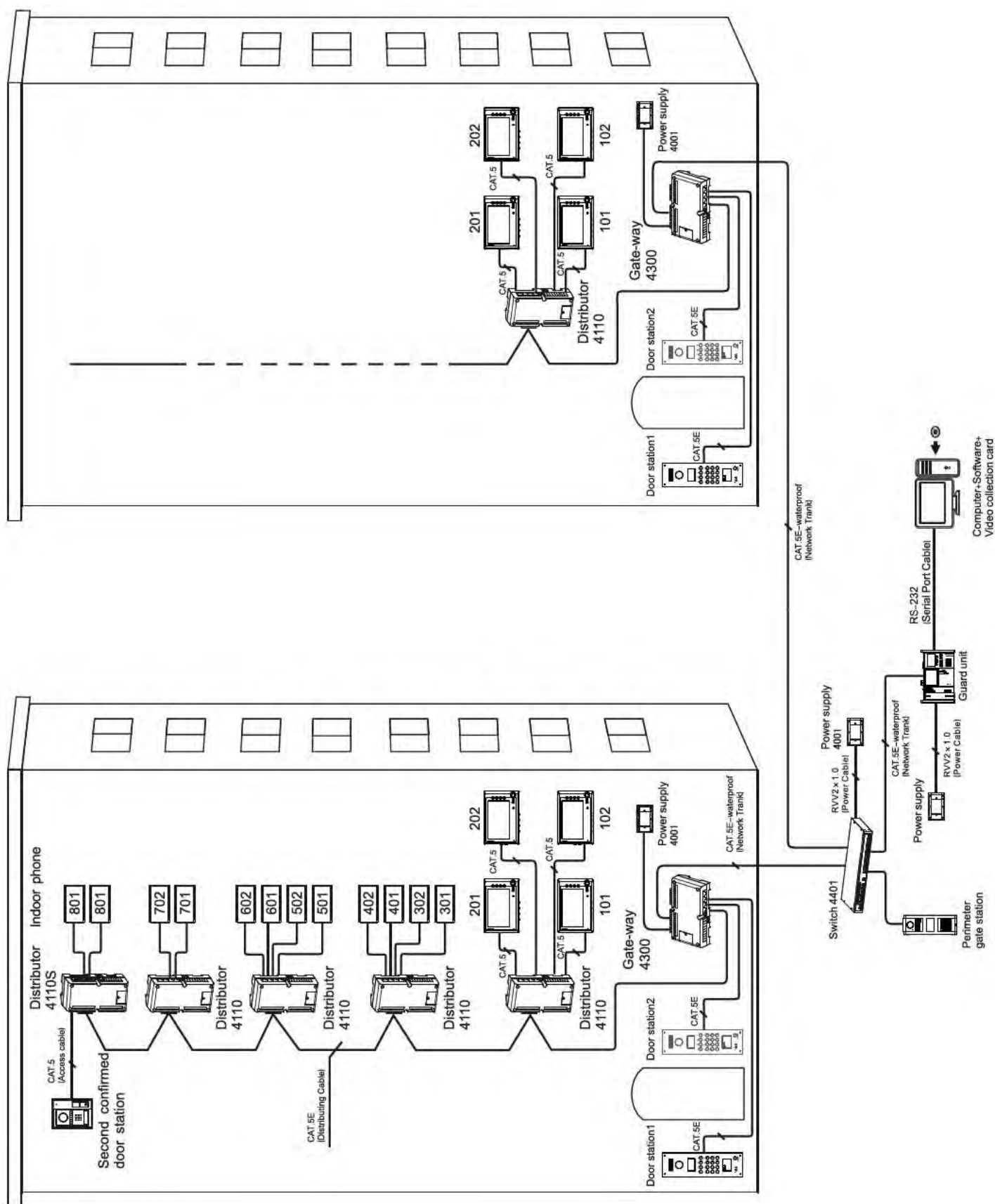
Customer requirement description

1. There is a community with two buildings, each building has 8 floors, from 1st to 7th floor, there are 2 residents in each floor, and in 8th floor there' s only 1 resident.
2. There are two door stations be installed at the front door and back door.
3. From 1st to 7th floor, each resident have an indoor phone. While in 8th floor there are two indoor phones and a second confirmed door station.
4. There is a guard unit at the managing center, and there is a perimeter gate station at the main entrance.

Components

Product	Picture	quantity
Guard unit 6805		1
Perimeter gate station 6831		1
Network switch 4401		1
Gate-way 4300		2
Door station 2608		4
Distributor 4110		8
Apartment distributor 4110S		2
Second confirmed door station 5805		2
Indoor phone Cygni / Lyra		32
Switch power supply 4001		4

System wiring diagram



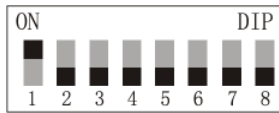
[Note] Please refer to "3. Product wiring diagram" for detailed wiring diagram.

■Unit door station programming

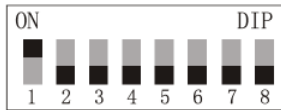
First program first building

Step 1: Hardware setting

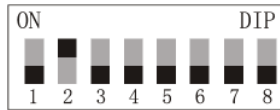
- (1) Set DIP of 4300 gate-way to 001 as below



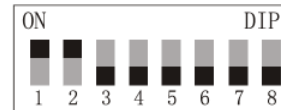
- (2) Set the DIP digit for distributor 4110 & 4110S) in the unit respectively from 001-005



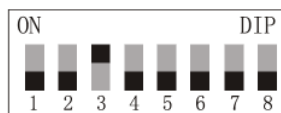
(001)



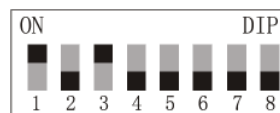
(002)



(003)



(004)



(005)

Step 2: Door station setting (first set on main door station)

1. Clear data
2. Door station No. setting, shows as below

Door station No.
0001
Gate-Way Port :
1

3. Indoor phone information setting

- (1) Indoor phone number digit setting, show as below:

2 bits
↕▶ 3 bits
4 bits
3 bits Current

- (2) Input indoor phone information, here adopts matrix input mode (From 1st to 7th floor).

Start No.:101
End No. :702
Ring Type:2
Password:***

And the 8th floor should be set by single input, show as below:

Indoor phone801
Distributor: 005
Port No.: 1
Ring Type:2

5. Data upload, after upload, show as below:

Seq. No.: 0 15
Indoorphone.: 8 0 1
Distributor 0 0 5-1
Ring Type: 2

6. Second confirmed door station setting (setting method is the same as door station step 1-4), setting picture for step 2 is as below.

Door station No.
0002
Gate-Way Port :
2

Step 3: Basic function test

1. Door station calling indoor phone
Dial room No. like 203 on door station to call indoor phone, indoor phone answers and unlock the door.
2. Second confirmed door station calling indoor phone.
Dial indoor phone No. to call indoor phone, indoor phone answers and unlock the door.
3. Indoor phone surveillance (only apply in video system)
Press the "surveillance" key to watch the door station status

Programming second building

The programming method is the same with the first building.

■ Network setting:

Step 1: Perimeter gate station setting

Set perimeter gate station No. and switch port on perimeter gate station.

Perimeter Gate :
0001
Switch Port :
5

Step 2: Guard unit setting

1. Clear guard unit record and setup form.
2. Setting guard unit No.
3. Add setup form as below:

Type	Code	Switch port	Distance	Gate-way code	Gate-way port
Door station	0101	01	150m	01	1
Door station	0102	01	150m	01	2
Door station	0201	02	300m	01	1
Door station	0202	02	300m	01	2
Perimeter gate station	0001	05	300m	—	—
Guard unit	01	03	300m	—	—

4. After finishing setup form, download it to switch, when download finishes, will show below:

Successfully
0006 Bar

Step 3: Test basic functions

1. Perimeter gate station calling guard unit

Press # key on perimeter gate station to call guard unit, and guard unit answers.

2. Door station calling guard unit

Press # key on door station to call guard unit, guard unit answers

3. Intercom between indoor phone and guard unit.

Pick up indoor phone handset (if it is hands-free indoor phone, please press “talk” button), press “call” button to call guard unit, guard unit answers; Pick up the handset of guard unit, dial room No. to call indoor phone, indoor phone answers.

4. Perimeter gate station call indoor phone

Dial room No. on perimeter gate station (For example: Calling unit 001, room no. 301, you should dial “00010301” . Note: For the 3 digits door station, you should add 0 in the front to make the door station digits to be 4-digit.)

6. Product installation explanation

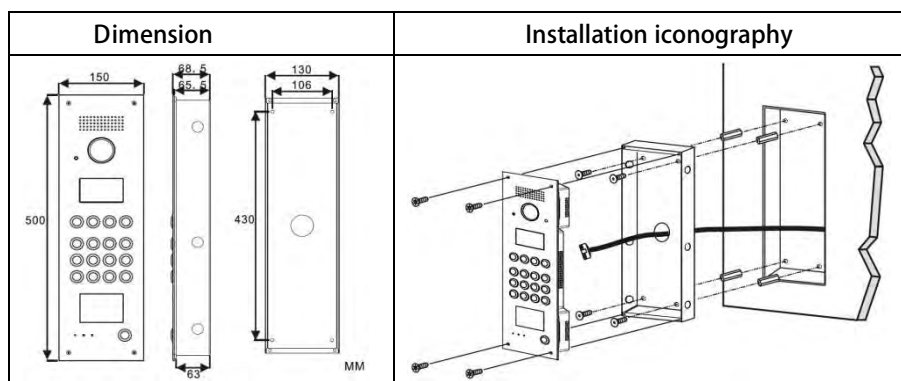
Door station installation

[Note] Picture for reference only, please refer to the manual attached with door station for detailed installation.

◆ Installation method

1. Make a square groove on proper position on wall or door according to the dimension of door station.
2. Put the door station back cover into the groove, according to the hole on the cover to make marks in the groove, and then drill holes.
3. Insert plastic expanding pipes into the holes in the groove, then install the back cover to the square groove with screw.
4. Install the top parts of door station to the back cover, use screws to fasten it from the screw holes on the top part.

[Note] if the door station is installed on iron door, no need to proceed step 2 and 3, please directly weld the back cover into the groove of iron door.



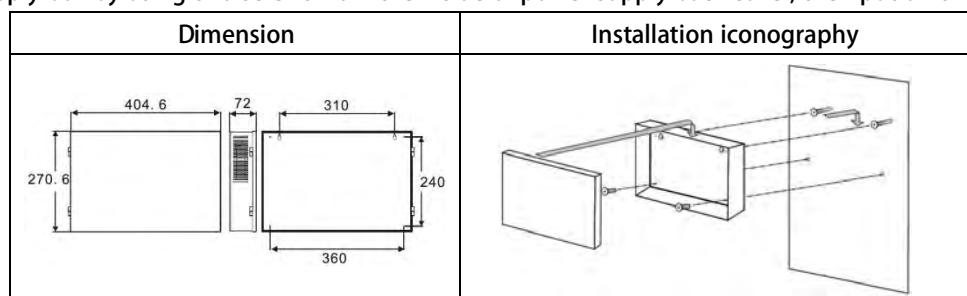
◆ Installation notes

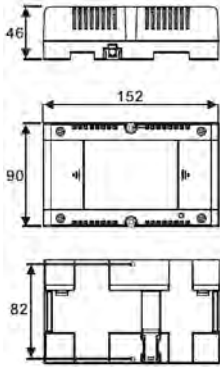
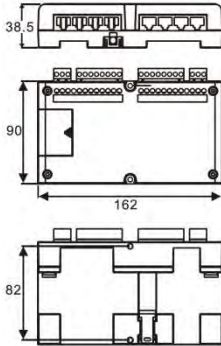
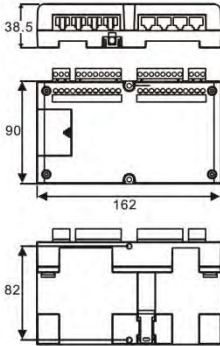
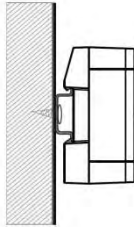
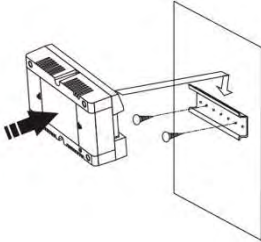
- ① When drill holes on iron door or wall, please remember to be in accordance with the specific model and installation dimension.
- ② Before install the back cover of door station, please take care of the installation depth to ensure the surface of the door station is on the same level with the surface of iron door and wall in case there is big gap between the surface of door station and wall/iron door.
- ③ Flush installation type should be installed to the security door that is not to be opened
- ④ Do not install door station in the environment of rain, wet, high temperature, and too much ash. Don't install it near to causticity objects.
- ⑤ Installation height: Above the ground for 1100mm-1400mm. (Suggestion: When using video door station, the camera's view scope should be considered for the installation height to proper see the visitors' face. People in wheelchair's height should be also considered.)

UPS power supply installation

◆ Installation method

1. Refer to the power supply dimension, mark the position of holes on back cover of power supply on the wall, and insert 2/3 length of screw into the wall.
2. Hang the power supply back cover to the screw.
3. Fasten power supply box by using two screws from the inside of power supply back cover, then put on the power supply front cover.

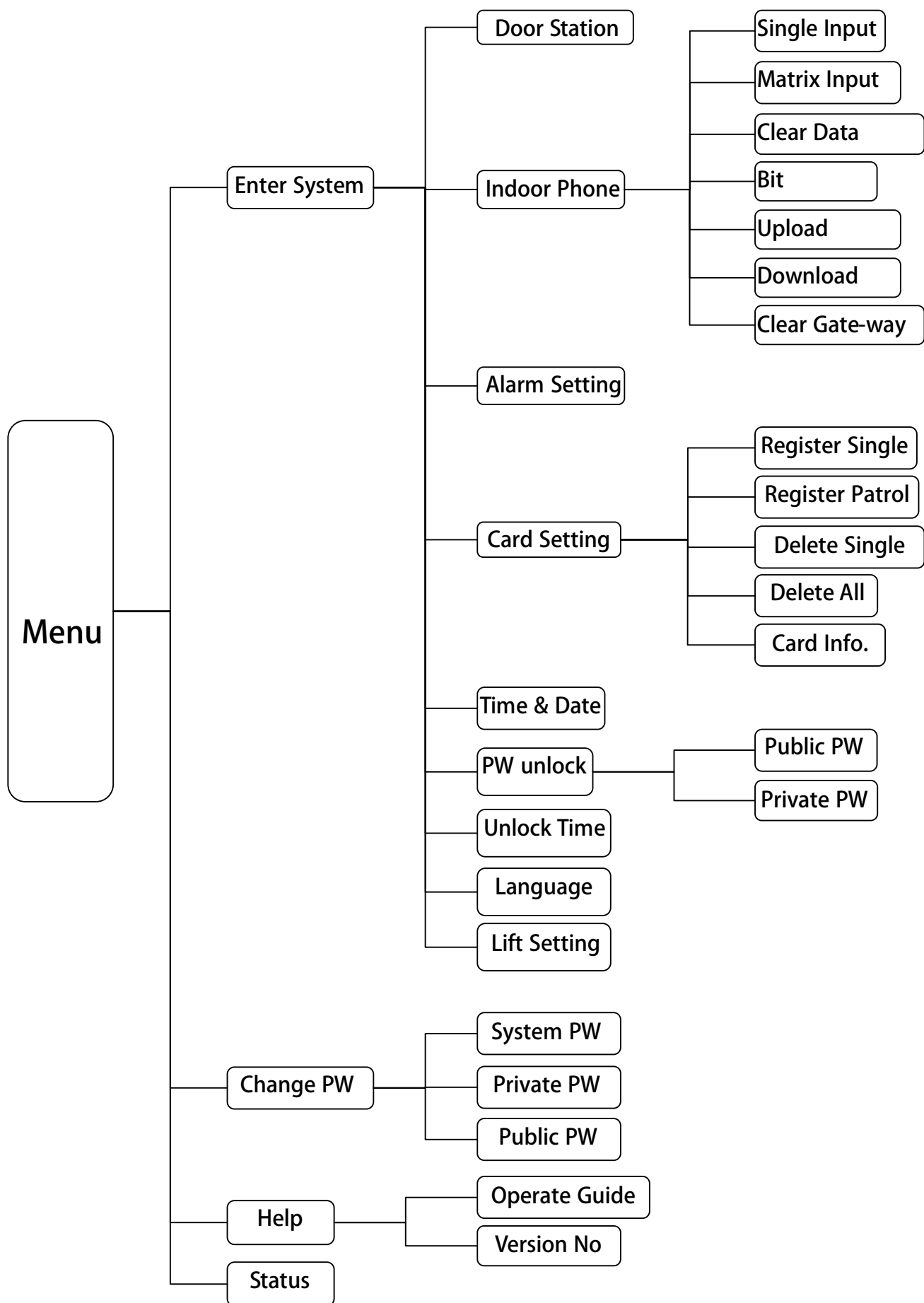


Product name	Switch power	Distributor	Gate-way
Dimension			
<div><div><p>Method 1. According to hole distance on dimension map, install directly onto the wall</p><p>Method 2. Put the upper buckle on the back of these parts into the U shape track, and push the buckle horizontally until the lower buckle also enter the U shape track, please refer to right picture.</p></div><div></div></div>			

7. Trouble shooting

Malfunction phenomenon	Elimination method
Unlocking error	A. Check the indoor switch button if it works properly. B. Check the reverse diode linked to lock if it is connected correctly. C. Check if the connection between lock and door station is correct or not.
Door station calling indoor phone, but indoor phone doesn't ring and doesn't have image.	Check distributor address/number setting to see whether the address/number is repeated or not.
Door station calling indoor phone, indoor phone rings but has no image	Check whether PS port on gate way connects to ground or not.
Door station calling indoor phone, the image is not clear.	Check whether one of the video lines is off or not. Or check whether the video matching resistance is connected correctly or not.
Door station calling indoor phone, the volume is small	Check whether one of the audio line is off or not.
Supply power for door station, the screen works but the button does not work.	Check whether the button bounce back after pressing or not.
Door station calling indoor phone, but indoor phone n doesn't exist.	Check whether door station has set relative indoor phone no. or not.
Door station calling indoor phone fails.	Check whether the wiring is correct or not.
Door station calling indoor phone, indoor phone indicator light is showing busy, but indoor phone doesn't ring.	A. Check if the port on distributor connected to indoor phone is right or not. B. check if the port on gate-way connected to door station is the same with real setting.
Door station calling guard unit, no echo ringing, guard unit rings, when pick up the handset of guard unit, guard unit shows it is in conversation, but no voice and image.	A. Check if gate-way port set on door station is correct or not. B. Check if the wiring through gate-way is right or not. C. Check if the setting on switch is in accordance with reality, the switch indicator light can be for your reference.
Guard unit has abnormal alarming.	Check if door station's GS port has been connected to GND port or not?

Appendix 1. LCD door station operation explanation



This door station has series of functions, and each function has its own function form. To enter function form, please press F1 key, press F1 or F2 key to roll and browse the function form, press [#] key to confirm the function form you need. Use the same way to choose sub-function form and setting. Press [*] key to back to former function form or quit function form, if for 15 seconds, the key is not used, it will quit from setting status automatically.

[F1]: Press this key to enter function form
 direction key(up)
 [F2]: Direction key (down)
 [F3]:Direction key (left), public code unlocking key
 [F4]:Direction key(right) resident code unlocking
 [1~9]: Number
 [#]: confirm
 [*]: quit

Under standby mode, press F1 key, to enter main menu of function, showing as P1

System setting

In P1 select "Enter System", press[#] to confirm, LCD shows P2, enter system password here: 2-0-0-3

[Note] This code is initial password, users can revise the password.

If the password is correct, it will enter P3 automatically, here can proceed system functions setting.

[Note] Use direction key[F1] or [F2] to select functions, press[] to back to P1.*

Data clearance

For first time setting, system data clearance is needed

1. Cancel all indoor phones No.

In P3, press [F2] to select "Indoor Phone", press [#] to confirm, enter P4, select "Clear Data", press[#].

LCD shows P5, according to hint press[#]to cancel all indoor phone No.

After successful clearance, a long sound of "di" can be heard at the same time LCD shows P6, press[*] to back to last menu P4.

[△] This function is used in the first time setting only.

2. Cancel gate-way data

In P4, press[F2] to select "Clear Gate-way", press[#] to confirm, after gate-way data clearance, LCD shows P7, press[*]to back to P3.

[△] This function is used in the first time setting only.

↕▶ Enter System
 Change PW
 Help
 Status

(1)

System Password :
 _ _ _ _

(2)

↕▶ Door Station
 Indoor Phone
 Alarm Setting
 Card Setting

(3)

↕▶ Single Input
 Matrix Input
 Clear Data
 Bit

(4)

Clear Data
 Press * return
 Press # confirm

(5)

Clear Data
 Successful.

(6)

Upload
 Download
 ↕▶ Clear Gate-way
 Successful

(7)

■Door station setting

In P3, select “Door Station” , press[#]to confirm LCD shows P8, here enter door station No. and gate-way port No.

[Note] Door station No. is from 0001, gate-way port No. is the gate way port to which door station connects.

e.g. The 6th door station in the building, its No. is 0006, Gate-way port is 6, after successful setting, a long sound of “di” can be heard and LCD shows P9.
Press * button to return to P3.

Door station No.
0 0 0 1
Gate-Way Port :
1

(8)

Door station No.
0 0 0 6
Gate-Way Port :
6

(9)

■Indoor phone setting

In P3 select “Indoor Phone” , press[#]to confirm enter P10, setting each indoor phone functions.

[Note] Use direction key [F1] or [F2] to choose function, press [] to back to P3.*

1. Indoor phone digit

In P10 select “Bit” , press[#] to confirm, LCD shows P11, choose indoor phone bit according to room No., press [#]to confirm, after setting, the system will back to P10 automatically.

[Note] When setting indoor phone, this should be proceeded first.

↕▶ Single Input
Matrix Input
Clear Data
Bit

(10)

↕▶ 2 bits
3 bits
4 bits
4 bits Current

(11)

Then input indoor phone information, two input methods: Single input mode and matrix input mode. Users can choose what they need.

2.Single Input

In P10, select “Single Input” , press[#]to confirm, LCD shows P12.

◆Indoor phone: 2~4 digit indoor phone No. (It can be set at “Bit” setting).

◆Distributor: Input the distributor No. to which indoor phone connects. Valid scope: 001~254 (use three digits).

◆Port No.: Input the distributor port No. to which indoor phone connects, Valid scope: 1~4.

◆Ring Type: This system provides 3 types of ring for option, input ring No. (1~3).

According to hint, input data, then it shows P13.

After finish, it shows P14, then back to P12 input next indoor phone No. or press [*] to back to P10.

[Note] 1.Ringing is only heard when indoor phone is called.

2. When system's ring is chord, there are 3 types of rings for chosen, otherwise it is always “Dingdong” ring when choose 1-3.

Indoorphone: _ _ _ _
Distributor: _ _ _
Port No.: _
Ring Type: _

(12)

Indoorphone:0101
Distributor:001
Port No.:1
Ring Type:3

(13)

Indoorphone:0101
Distributor:001
Port No.:1
Successful

(14)

3.Matrix input mode

[Note] This mode is only suitable for building with structure of matrix, if the structure is different between floors, please choose single input mode.

In P10, choose “Matrix Input” , press [#] to confirm, LCD show P15, input data according to hint.

- ◆ Start No.: Input start No. of indoor phone.
- ◆ End No.: Input last No. of indoor phone.
- ◆ Ring Type: Setting is the same as “Single Input” .
- ◆ Password: Input resident password 1234.

[Note] This code is initial code, users can revise it in function form, please refer to “Change PW” part.

Press * button to back to P10.

e.g.: A building has 20 floors, each floor has 4 apartments. The indoor phone start No. is 0101, end No. is 2004.

Distributor No. is from 001to 020.

The ring for door station calling indoor phone: ring 2.

Resident password: 1-2-3-4.

Setting as P16 shows, after input password, if there is no error, P17 will show and back to P15, at this time another data can be input, also can press [*] to back to P10.

Start No.:_ _ _ _
End No. :_ _ _ _
Ring Type:_
Password:_ _ _ _

(15)

Start No.:0 1 0 4
End No. :2 0 0 4
Ring Type:2
Password: * * * *

(16)

↕▶ Upload
Download
Clear Gate-way

(17)

Seq. No.:080
Indoorphone.:2004
Distributor020-4
Ring Type:2

(18)

4. Indoor phone data upload

[Note] This function is for upload indoor phone data saved in door station to gate-way when in network.

In P10, press [F1] or [F2] to flip menu, choose “Upload” , shows as P17, press[#]to confirm, and start to upload data, finally screen shows the upload result which is P18 .

Press [*]to back to P17.

5. Indoor phone data download

[Note] This function is for download the indoor phone information saved in gate-way to door station when in network.

In P17, choose “Download” , press[#]to confirm, LCD shows data download status.

As P18 shows.

After data download completed, LCD shows P19, press[*]to back to P16.

Upload
↕▶ Download
Clear Data
Please wait...

(19)

Upload
↕▶ Download
Clear Data
Successful

(20)

■Alarm setting

In P3 select “Alarm Setting” , press [#] to confirm, enter P21, according the prompt to set the alarm ON/OFF.

[Note] Use direction key [F1] or [F2] to choose function, press [*]to back to P3.

Alarm Setting
1+# Choose ON
0+# Choose OFF
Current OFF

(21)

■Card registering

In P3, choose "Card" , LCD shows P22, here proceed IC/ID card setting.

[Note] Use direction key [F1] or [F2] to choose or flip menu, or press [] to back to P3.*

1. Resister single card

In P21, choose "Register Single" , LCD shows P23, according to hint, input card No., press [#] to confirm, or put card on door station' s sensor, and finish single card registration.

After successful registration, shows P24, then input another card' s No. or put that card on sensor to begin new registration, or press [*] to return to P22.

[Note] The card digits should be 10 digits. If the card number do not reach 10 digits, then you need to add the 0 in front to make it to be 10 digits.

2. Register patrol card

In P22, choose "Register Patrol" , press [#], input card No. according to hint, press [#] to confirm, after successful registration LCD shows P25, press [*] to return to P22.

3. Delete single card

In P22, choose "Delete Single" , press [#] and LCD shows P26, input card No. according to hint or put card on sensor and press [#] to confirm, after successful delete, screen shows P27. Use this same way to delete next card No. by entering the card number or putting card on sensor for deletion, press [#] to confirm, press [*] to return to P22.

4. Delete all cards

In P22, press [F2] to select "Delete All" press [#] to confirm, LCD shows P28.

Press [#] to confirm delete, LCD shows P29, press [*] to back to P22.

[⚠] Be cautious to use this operation.

5. Check resident card

In P22, press [F2] to select "Card Information" , press [#] to confirm, LCD shows P30, screen shows all information for registered card, after inquiry, press [*] to back to P22.

RegisterSingle
Register Multi
RegisterPatrol
Delete Single
(22)

Register Single
No.:
Press # confirm
(23)

Register Single
No.:
Floor:
Press # confirm
(23)*

Register Single
No. :0007234177
Successful.
(24)

Register Single
No. :0007234177
Floor: 06
Successful.
(24)*

Register Patrol
No.: 1245422867
Successful
(25)

Delete Single
No.:
Press # confirm
(26)

Delete Single
No. :0007234177
Successful
(27)

Delete All
Press * return
Press # confirm
(28)

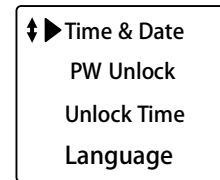
Delete All
Successful
(29)

Card Info.
No.: 0007234177
Seq. No.: 001
Qty.: 012
(30)

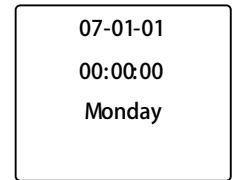
■Time adjustment

In P3, press [F1] or [F2] to select “Time & Date” , as P31 shows. Press [#] to confirm, LCD shows P32, set time according to hint, press [#] to confirm. After finish adjustment, the system will be back to P31 automatically.

[Note] When setting, can use [F3]and [F4] to move cursor left and right for selecting.



(31)



(32)

■Password unlocking

In P31, press [F2] to select “PW Unlock” , press [#], LCD shows P33, set the right password unlocking type to unlock the door. Press [*] to back to P31 when finish.

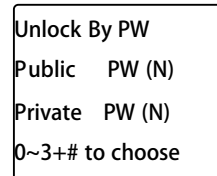
0#: Public PW (forbidden), user’ s PW (forbidden).

1#: Public PW (allow), user’ s PW (forbidden).

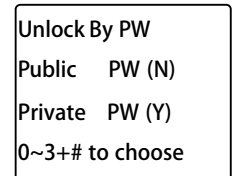
2#: Public PW (forbidden), user’ s PW (allow).

3#: Public PW (allow), user’ s PW (allow).

e.g.: Press 2, then press #, the LCD will show P34.



(33)



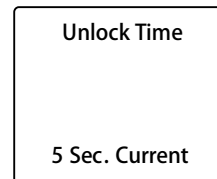
(34)

■Unlocking time

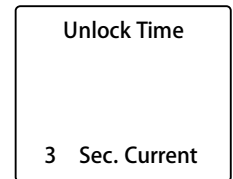
In P31, press [F2] to select “Unlock Time” , press [#] to confirm, LCD shows P35, set unlocking time according to hint, press [#] to confirm. Press [*] to back to P31 when finish.

[Note] The unlocking time length is from 1 second to 9 seconds. For the ex-factory, the initial is 1 second.

e.g.: Input [3], press[#]to confirm, LCD will show P36.



(35)



(36)

■Language

In P31, press [F2] to select “Language” , press [#] to confirm, LCD shows P37, set language according to hint, press [#] to confirm.



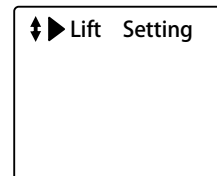
(37)

■Lift setting

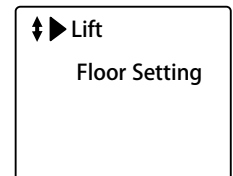
In P3, press [F1] or [F2] to select “Lift setting” , as P38 shows. Press [#] to confirm, LCD shows P39.

1. Lift

In P39, press [F1] or [F2] to select “Lift” , press [#] to confirm, LCD shows P40. Set lift ON/ OFF according to hint.



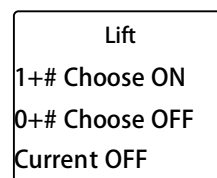
(38)



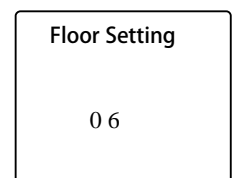
(39)

2. Floor Setting

In P39, press [F1] or [F2] to select “Floor Setting” , press [#] to confirm. LCD shows P41. Input the start floor number, press [#] to confirm.



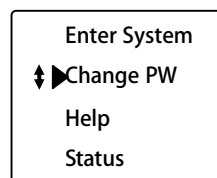
(40)



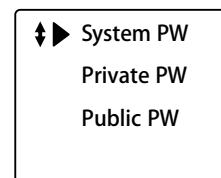
(41)

Change password

Press [*] to back to P1, select "Change PW", as P42 shows.
Press [#] to confirm, enter P43.



(42)



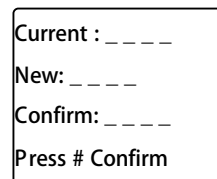
(43)

Change system password

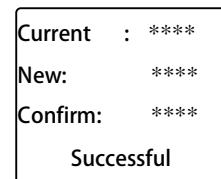
In P43, choose "System PW", LCD shows P44, change system password according to hint.

e.g.: After input password, press [#], if password is correct, LCD shows P45, press [*] to back to P43.

[Note] For the first time change, the initial password is 2003.



(44)



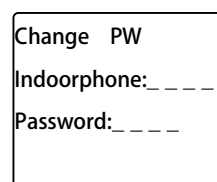
(45)

Change resident password

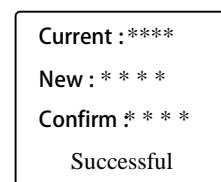
In P43, choose "Private PW", press [#], LCD shows P46, enter room No. and password according to hint.

[Note] For the first time change, the initial password is 1234.

If the password is correct, then enter new password setting. Enter the new password twice, and press [#] to confirm, if change is successful, then shows P47. LCD will back to standby mode automatically.



(46)



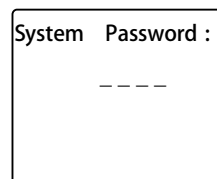
(47)

Change public password

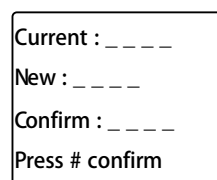
In P43, choose "Public PW", press [#] to confirm, LCD shows P48, enter system password, then change the public password.

If the system code entered is correct, LCD shows P49, according to the hints, change the public password, after change, screen shows P50, press [*] to back to P43.

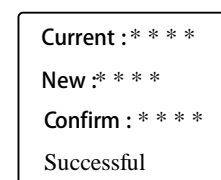
[Note] For the first time change, the initial password is 1234.



(48)



(49)

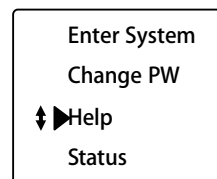


(50)

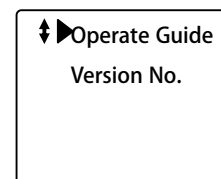
User's guide

Press [*] to back to P1, which is the main menu of function, choose "Help", as P51 shows.

Press [#], LCD shows P52, here press F1 or F2 to check the operation explanation and version No., press [*] to back to P51.



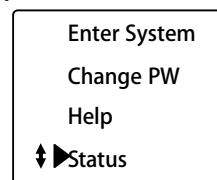
(51)



(52)

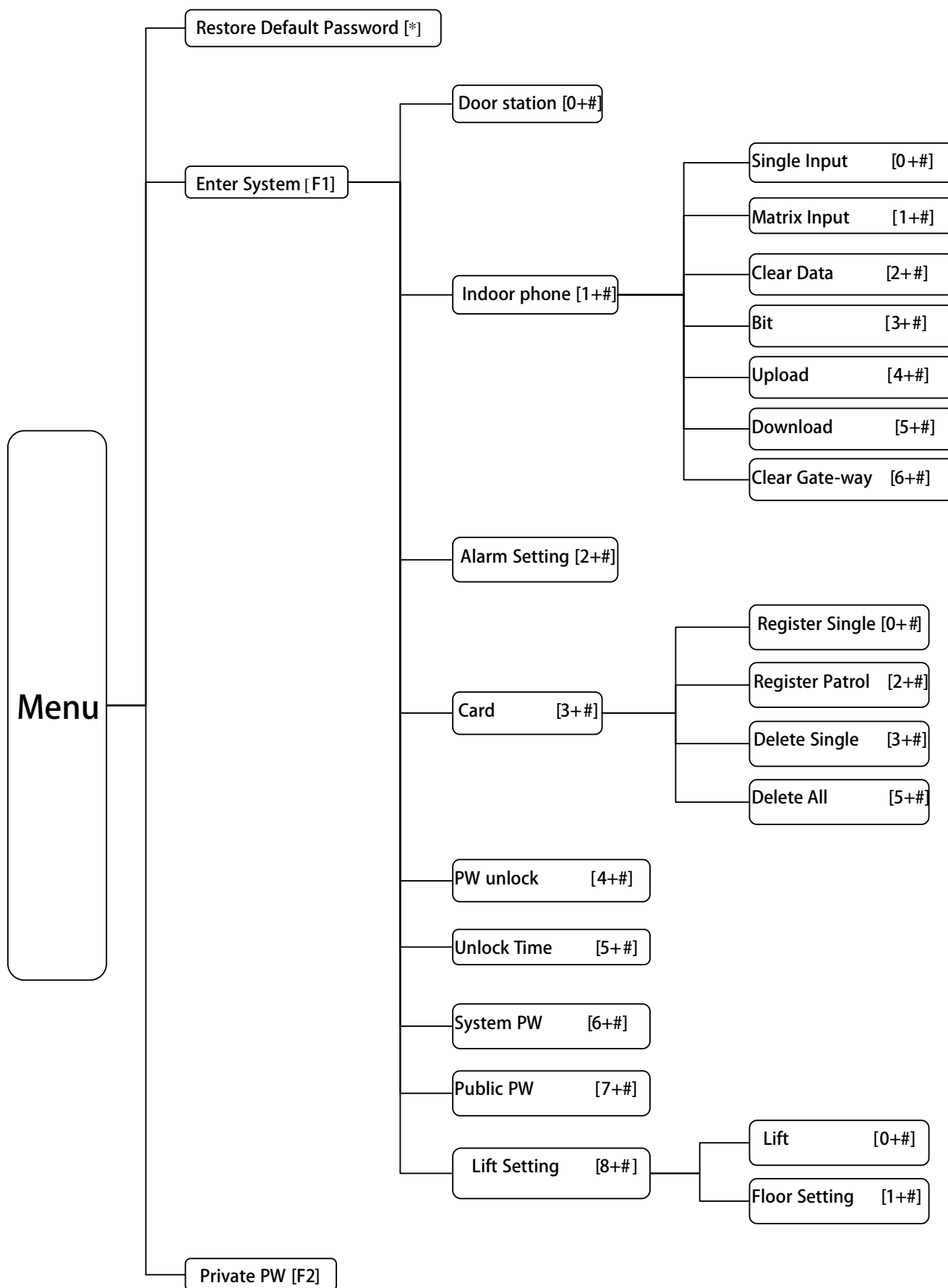
Status check

In P1, choose "Status", LCD shows P53, press [#] to look up all user's information which saved in system.



(53)

Appendix 2. LED door station operation explanation



This door station has series of functions, and each function has its own function form

Restore Default Password

Hold [*] button on the door station, then connect the power, the default password will be restored. And the LCD will show the version number of software.

[Note] The P1 is for example.

System Setting

Press [F1] button, enter the menu

The LCD displays as P2. Input the system password.

[Note] The system original password is 2003. Please refer to "System PW" to change it.

If the password is correct, it will enter P3 automatically, here can proceed system functions setting.

[#] : Confirm

[*] : Quit



(1)



(2)



(3)



(4)



(5)



(6)



(7)

Data clearance

For first time setting, system data clearance is needed

1. Cancel all indoor phone No.

In P3, input [1]+[#] , then input [2]+[#] to clean all the indoor phone information. The LCD will shows as P4 during process.

If clearance successful, a long sound of "di" can be heard and LCD shows as P5, press [*] button to back to menu of P3.

This function is used in the first time setting only.

2. Cancel gate-way data

In the menu of P3, input [6]+[#] to clear the information in the gate-way. After clearance, a long sound of "di" can be heard and the LCD shows as P6, press [*] button to back to menu of P3.

Door station setting

In the menu of P3 input , enter the door station number setting, it will show as P7 for the first time setting.

Input door station number, e.g. 101

Input the gate-way port which connect to the door station, e.g.: 1

Press [#] button to confirm, it will automatically return to P2.

[Note] Door station's No. is from 0001, Port No. of gate-way please refer to the port of gate-way connected to door station.

1. Indoor phone setting

In the menu of P3, input [1]+[#], the LCD will show as P8, the information of indoor phone can be set here.

I. Indoor phone digit

In the menu of P8, input [3] + [#], the LCD will show as P9.

The right number shows the current indoor phone digit. Input the new number (2~4), and press [#] button to confirm.

[Note] You should choose the indoor phone digit first, then you can proceed with the indoor phone number setting.



(8)



(9)

Then proceed with indoor phone information input there are two input modes : Single input mode and matrix input mode user can choose what they need.

II. Single input mode

In the menu of P8, input [0]+[#] the LCD will show as P10.

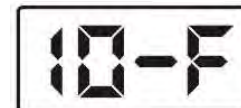
Input the indoor phone No., distributor No., port No., and ring No. in turn.

- ◆ Indoor phone No: 2~4 digit No. (Digit is depended on the last indoor phone digit) e.g. 0101
- ◆ Distributor No Input the distributor No. of indoor phone, valid scope: 001~254 e.g. 001
- ◆ Port No.: Input distributor port No. connecting to indoor phone valid scope: 1~4 e.g. 1
- ◆ Ring: This system offers 3 types of ring for user to choose input ring No. (1~3) e.g. 3

After finish, the LCD shows as P11, input next indoor phone No. or press [*] to back to P8.

[Note] 1. Ringing is only heard when indoor phone is called.

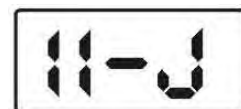
2. When system's ring is chord, there are 3 types of rings for chosen, otherwise it is always "Dingdong" ring when choose 1-3.



(10)



(11)



(12)

III. matrix input mode

[Note] This mode is only suitable for buildings with matrix structure, if every floor has different quantity of apartment, then should choose single input mode.

In the menu of P8, input [1]+[#], the LCD will show as P12.

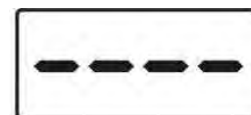
- ◆ Start No: Input the start indoor phone No. e.g. 0101
- ◆ End No: Input the last indoor phone No. e.g. 0704
- ◆ Ring Type: Input ring number (1~3) e.g. 1
- ◆ Password: Input resident password e.g. 1234

After finish, the LCD shows as P13, press [*] to back to P8.

[Note] The original password is 1-2-3-4. You can refer to "Appendix 2" → "Change password" to change it.



(13)



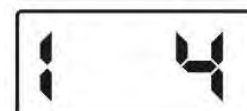
(14)

IV. Indoor phone data upload

In the menu of P8, input [4]+[#]. The LCD will show as P14, finally the LCD shows the upload result which is P15

Press [*] back to P8.

[Note] This function is for upload indoor phone data saved in door station to gate-way when in network.



(15)

V. Indoor phone data download

In the menu of P8, input [5] + [#]. The LCD will show as P16. After finish, press [*] to back to P3

[Note] This function is for download the indoor phone information saved in gate-way to door station when in network.



(16)

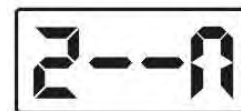
Alarm Setting

In the menu of P3, input [2]+[#]. The LCD will show as P17.

Input [0]+ [#] door alarm is OFF, as P17 shows.

Input [1]+[#], door alarm is ON, as P18 shows.

After finish, press [*] to back to P3



(17)



(18)

■Card registering

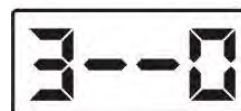
In the menu of P3, input [3]+[#]. The LCD will show as P19.

Here proceed IC/ID card setting

1. Resister single card

In the menu of P19, input [0]+[#] The LCD will show as P20.

input card No, press[#] to confirm or put card on door station' s card reader, and finish single card registration



(19)

2.Register patrol card

In the menu of P19, input [2]+[#] The LCD will show as P21.

input card No, press[#] to confirm or put card on door station' s card reader, and finish patrol card registration



(20)



(21)

3. Delete single card

In the menu of P19, input [3]+[#] The LCD will show as P22.

Input card No, press[#] to confirm or put card on door station' s card reader, and finish single card deletion.



(22)

4. Delete all cards

In the menu of P19, input [5]+[#] The LCD will show as P23.

Press [#] to confirm delete. After finish, press[*] to back to P3

[△] Be cautious to use this operation.



(23)

■Password Unlock Setting

In the menu of P3, input [4]+[#], then begin to set the Public PW and the Private PW ON/OFF.

[0]+[#]: Public PW(OFF) ,user' s PW(OFF)

[1]+[#]: Public PW(ON) ,user' s PW(OFF) ;

[2]+[#]: Public PW(OFF) ,user' s PW(ON)

[3]+[#]: Public PW(ON) ,user' s PW(ON)

■Unlocking time

In the menu of P3, input [4] + [#]. The LCD will show as P24. The right number shows current unlock time. It will change after input a new number, then press [#] button to confirm.

[Note] Unlock time is from 1s to 9S.



(24)

Change password

■Change system password

In the menu of P3, input [6] + [#]. The LCD will show as P25. Input the password, if it is correct, LCD will show as P26. Input the new password, LCD will show as P27, then repeat to input the password again, press [#] button to confirm. After finish, the LCD will show as P28.

[Note] The system original password is 2003.



(25)



(26)



(27)



(28)

■Change public password

In the menu of P3, input [7] + [#]. The LCD will show as P29. Input the new password, press button to confirm. After finish, the LCD will show as P30.

[Note] The original public password is 1234.



(29)



(30)

Lift Setting

In the menu of P3, input [8] + [#]. The LCD will show as P31.

■Lift

In the menu of P31, input [0] + [#]. The LCD will show as P32. Input [0]+[#], lift control function is OFF. The LCD will show as P33. Input [1]+[#], lift control function is OFF. The LCD will show as P34. After finish, press [*] button return to P31.



(31)



(32)

■Floor Setting

In the menu of P31, input [1]+[#]. The LCD will show as P35.

Input the floor number, press [#] button to confirm.

e.g. Second underground floor, input F3+[2], as the P36 shows.

1 floor, input [0]+[1] as the P37 shows.

■Change resident password

In the standby state, press [F2] button, the LCD will show as P38.

Input the digit as follows prompt:

- ◆ Room number e.g.0101
- ◆ Current password e.g.1234
- ◆ New password e.g.5678
- ◆ Repeat the new password e.g.5678

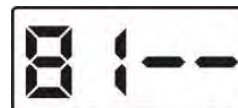
If the password is correct, the door station will sound a long beep, then return to standby state.



(33)



(34)



(35)



(36)



(37)

Appendix 3. Perimeter gate station operation explanation

Key Function:

[F1]: To enter function menu and direction key(up). characters

[F2]: Direction key(down)

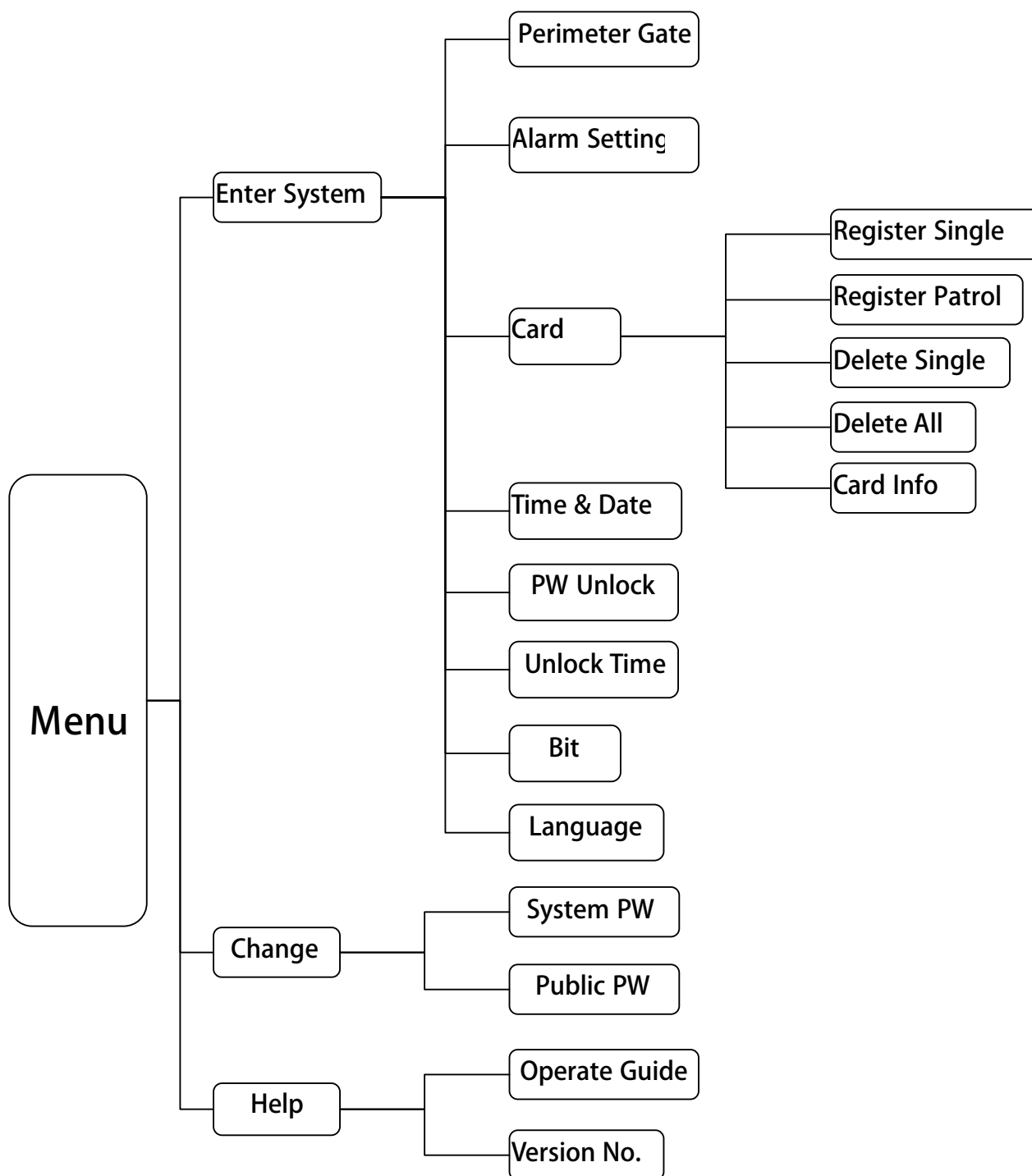
[F3]: Direction key(left) public password unlocking

[F4]: Direction key(right) resident password unlocking

[1~9]:To enter figures or

[#]: Confirm key

[*]: Quit



Under standby mode, press [F1], enter function main menu shows as P1.

System setting

In P1, choose "Enter System", press [#] to confirm, LCD shows P2, enter system password 2-0-0-3.

[Note] This password is system initial code, user can according to their needs. Please refer to P42 for details.

If password is correct, it will enter P3, set system accordingly.

[Note] Use direction key [F1] or [F2] to choose or flip, or press [] to back to P1.*

■ Perimeter gate station No. setting

In P3, choose "Perimeter Gate", press [#] to confirm, LCD shows P4, enter perimeter gate station No. and switch port No.

*[Note] Valid scope for perimeter gate station No. is from 01~09;
Switch port No. is the port No. which perimeter gate station connects with switch.*

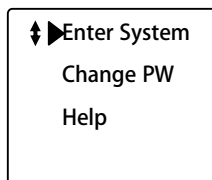
For example: Enter data according to hint, press [#] to confirm, after successful registration, shows P5.

When finish setting, press [*] button to return to P3.

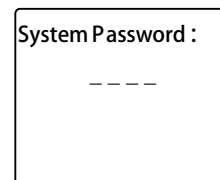
■ Alarm setting

In P3 select "Alarm Setting", press [#] to confirm, enter P6, according the prompt to set the alarm ON/OFF.

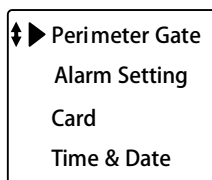
[Note] Use direction key [F1] or [F2] to choose function, press [] to back to P3.*



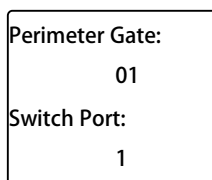
(1)



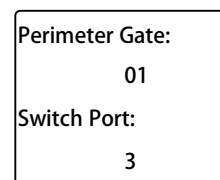
(2)



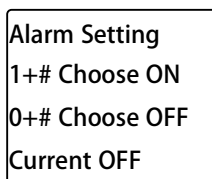
(3)



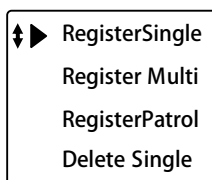
(4)



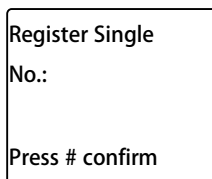
(5)



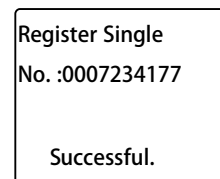
(6)



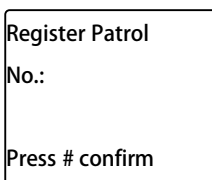
(7)



(8)



(9)



(10)

■ Card setting

In P3, choose "Card", LCD shows P7, proceed settings for IC/ID card here.

[Note] Use direction key [F1] or [F2] to choose function or flip, or press [] to back to P3.*

1. Register single card

In P7, choose "Register Single", LCD shows P8, enter card No. according to hint, press [#] to confirm, or put card on sensor of perimeter gate station to finish single card registration.

After successful registration, P9 shows, enter next card's No. or put next card on sensor to begin new registration, or press [*] to back to P7.

[Note] The ID card data is 10 digits ID card. When the ID card number do not reach 10, then please add "0" at front.

2. Register patrol card

In P7, choose "Register Patrol", press [#], LCD shows P10, enter card No. according to hint, press [#] to confirm, after successful registration, press [*] to back to P7.

3.Delete single card

In P7, choose "Delete Single" , press [#], LCD shows P11, enter card No. according to hint, press [#] to confirm, or put card on sensor of perimeter gate station, after successful deletion, shows P12. Then you can proceed with the deletion of another card No. by entering another card' s No. or putting card on sensor, press[*] to back to P7.

Delete Single
No.:

Press # confirm

(11)

Delete Single
No. :0007234177

Card Deleted

(12)

4. Delete all cards

In P7, press [F2] to flip and choose "Delete All" , press [#] to confirm, LCD shows P13.
Press [#] to confirm deletion, LCD shows P14, press [*] to back to P7.

[Note] Be cautious to use this function.

Delete All

Press * return
Press # confirm

(13)

Delete All

Successful

(14)

5. Resident card check

In P7, press [F2] to flip and choose "Card Information" , press [#] to confirm, LCD shows P15, screen shows all information about registered cards. Press [*] to back to P7 after checking.

Card Info.
No.: 0007234177
Seq. No.: 001
Qty.:012

(15)

■ Time setting

In P3, choose "Time & Date" , press [#], LCD shows P16, set time according to hint, press [#] to confirm. The system will back to P3 automatically after setting.

[Note] When setting, press [F3] and [F4] to move cursor to choose function.

07-01-01
00:00:00
Monday

(16)

■ Password unlocking

In P3, choose "PW Unlock" , press [#], LCD shows P17, set the unlock type, after setting, press [*] to back to P3.

0#: Public code (forbidden), user' s code (forbidden).

1#: Public code (allow), user' s code (forbidden).

2#: Public code (forbidden), user' s code (allow).

3#: Public code (allow), user' s code (allow).

Example: Enter [2], press [#] to confirm, LCD shows P18.

Unlock By PW
Public PW (N)
Private PW (N)
0~3+# to choose

(17)

Unlock By PW
Public PW (Y)
Private PW (N)
0~3# to choose

(18)

■Unlocking time

In P3, choose "Unlock Time" , press [#]to confirm, LCD shows P19, enter unlocking time according to hint, press[#]to confirm.

After setting, press [*] to back to P3.

[Note] The unlock time length is from 1 second to 9 seconds. The original is 1 second.

For example: Enter[3], press[#]to confirm, LCD shows P20.

Unlock Time

5 Sec. Current

(19)

Unlock Time

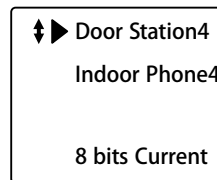
3 Sec. Current

(20)

■Indoor phone digit setting

[Note] This information is used for setting the digit length of indoor phone when perimeter gate station calls it.

In P3 choose "Bit" , press [#] to confirm, LCD shows P21. Use number key to enter door station and indoor phone No.' s,digit and press [#] to confirm, after setting, the system will back to P3 automatically.



(21)

■Language

In P3, press [F2] to select "Language" , press [#] to confirm, LCD shows P22, set language according to hint, press [#] to confirm.

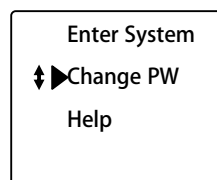


(22)

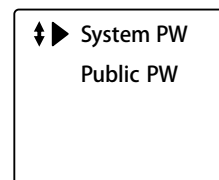
Change password

Press [*] to back to P1(function main menu), choose "Change PW" , as P23 shows.

Press [#] to confirm, enter P24.



(23)



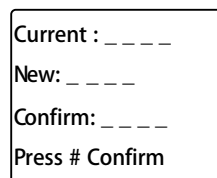
(24)

■ Change system password

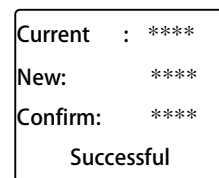
In P24, choose "System PW" , LCD shows P25, change system password according to hint.

For example: After enter password, press [#], if password is correct, LCD shows P26, press[*]to back to P24.

[Note] For first time change, the original password is 2003.



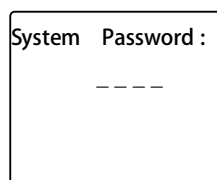
(25)



(26)

■ Change public password

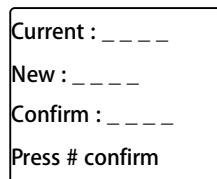
In P24, choose "Public PW" , press[#] to confirm, LCD shows P27, enter system password to change the public password.



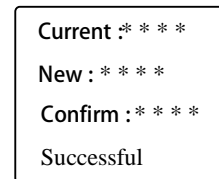
(27)

Enter correct system password, LCD shows P28, change public password according to hint. After change, the screen shows P29, press[*]to back to P24.

[Note] For first time's change, the original password is 1234.



(28)

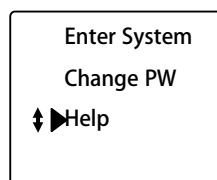


(29)

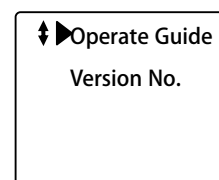
User's guide

Press [*] to back to P1(main function menu), choose "help" , shows P30.

Press [#], LCD shows P31, use [F1] and [F2] to inquire operation explanation and version, press [*] to back to P30.



(30)



(31)

Appendix 4. RJ45 plug making method

Firstly, introduce some tools and materials needed for making RJ45 plug.



RJ45 plug



CAT-5



Clamp

■RJ45 plug

RJ45 Plug is the connector of CAT-5 with module jack structure. There are 8 grooves on the front of the connector called 8P (Position), and there are 8 metal contact points called 8C (Contact). When connecting CAT-5, the metal thorn should stab into the cable, making metal thorn connecting with cable's copper conductor to make the system works.

■CAT 5 cable

C-5 system adopts currently widely used Category 5 cable and Category 5E cable. Meanwhile, network wiring should adopt water proof Category 5E cable. To distinguish C-5 cable and C-5E cable, please refer to below picture.



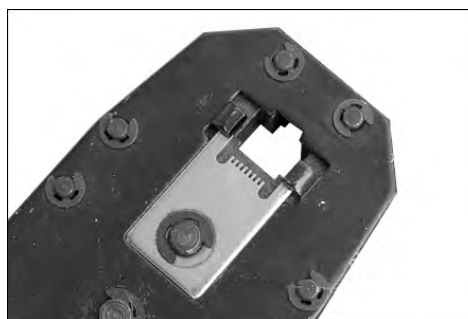
C-5



water proof C-5E

■Clamp

On top of clamp is RJ45 plug groove used for binding plug and cable together, there are three size grooves, respectively are 6P, 8P and 4P. The 8P groove is what we use for binding RJ 45 plug. Behind 8P grooves, we can see dentate modules, which are used for pressing 8 plug contact points to cable.



RJ45 plug making step pictures

Step 1. Use clamp's knife edge to cut needed length of the cable.



Step 2. Remove the grey rubber protector, use knife edge to cut the cable trim



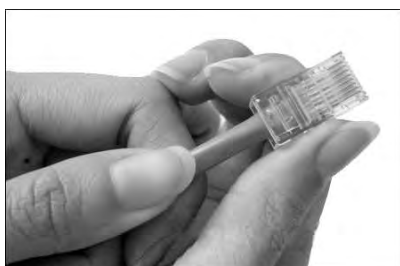
Step 3.: Untie the twisted lines follow the sequence from left to right (orange white-orange-green white-blue-blue white- green-brown white-brown) to arrange the lines make them straight and clean.



Step 4. : Use clamp knife edge to cut the top of the lines clean, the remained parts without rubber should be around 15mm.



Step 5 : Insert the ready lines into plug according to the picture (Note: The plug with spring should face down.)and make sure that the lines are to the top of the plug

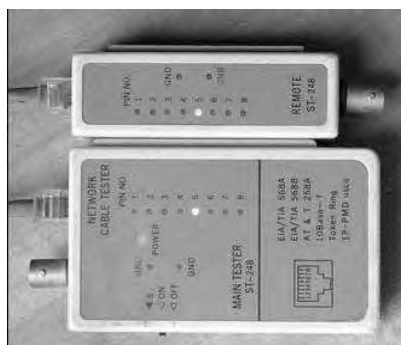


Step 6 : Pressing plug. After making sure the lines' sequence is correct, put the plug into the 8P groove press the clamp to make the needle outside of plug into plug.

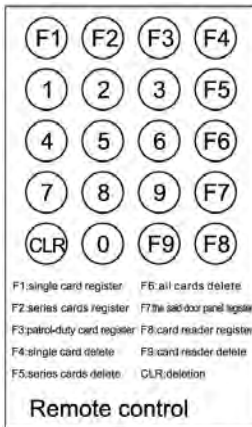


Step 7: repeat Step 1 - Step 6 for another end of the cable.

Step 8: use the tester to test if the wires at two ends are conjoint well and corresponding each other at right sequence.



Appendix 5. Remote control user manual



Specifications:

Battery: 3V (CR2025)

Available distance: ≤ 1 meters

Angle: $\leq 30^\circ$

※ Remarks function

1.If enter wrong number, please press [CLR] button to delete the wrong one.

■ Change password

1. Press [CLR]→ current password (4 bits)→newpassword(4bits)→[F3].
2. The Card Reader status LED will blink once, and the device will sound a long "di";
3. If enter a wrong number, the Card Reader status LED will blink thrice quickly, and the device will sound three short "di", please repeat the step1.

[Note]The original password is 1-2-3-4.

Enter the setting state

1. Press [CLR]→ Password (4bits)→[F3].
2. The Card Reader status LED will on, and the device will sound a long "di"
3. If enter a wrong number, the Card Reader status LED will blink thrice quickly, and the device will sound three short "di", please repeat the step1.

[Note]Press [CLR]→[F3] can quit the setting state.



Hereinafter settings are available only after enter the setting state.

■ Unlock time

Press [CLR]→Unlock time (01~20)→[F3].

[Note] Original factory setting is 5s.

e.g. Press [CLR]→[0][8]→[F3], to set the unlock time 8s.

■ Register single card

Card number register

Press[CLR]→ Card number→[F1]

Card reader register:

Press[CLR]→[F8]→put the cards close to the card reader in turn→[CLR] .

e.g. press[CLR]→[02584235]→[F1] .

or press[CLR]→[F8]→first card→ second card→.....→[CLR] .

■ Register patrol card

Press [CLR]→ Card number→[F3]

■ Delete single card

Card number delete

Press[CLR]→ Card number→[F4]

Card reader delete:

Press[CLR]→[F9]→put the cards close to the card reader in turn→[CLR] .

■ Delete all cards

Press [CLR] →Password →[F6], card reader status LED blinks continuously. And it return to be on after delete all the cards, the device will sound a long beep at the same time.

■ Register device number

Press[CLR] →Door station number(4 bits) →[F7].

WARRANTY CARD

NB Please keep this document safe, as it is proof of your Warranty
Your Video door system comes with a one year Manufacturers Warranty. When
used normally, the following services are offered:

1. Replacement for malfunctioning parts in first three months
2. Repair free of charge for malfunctioning parts in first year

The following actions will void the Warranty:

1. Damage to the device during installation
2. Damage to the device through misuse
3. Opening and/or disassembling the device
4. Attempting to force the device to perform functions for which it is not intended
5. Attaching the device to power supplies other than those recommended by the manufacturer

Distributor for Warranty purposes:

Intelligent Home Online Ltd

34a High Street

Hornsey

London

N87NX

+44 (0)20 83482040

www.intelligenthomeonline.com

Product: _____

Purchaser Name: _____

Invoice N: _____

Purchase Date _____

WARRANTY CARD

NB Please keep this document safe, as it is proof of your Warranty
Your Video door system comes with a one year Manufacturers Warranty. When used normally, the following services are offered:

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5. Attaching the device to power supplies other than those recommended by the manufacturer

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Purchase Date _____



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