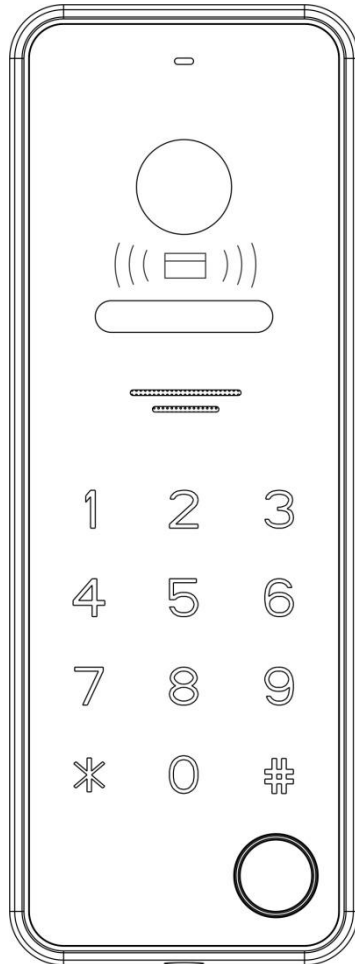


# 2D35B USER MANUAL



·Thank you for purchasing our products.

·Please read this User Manual carefully before using this product.

·Products are subject to change without notice.

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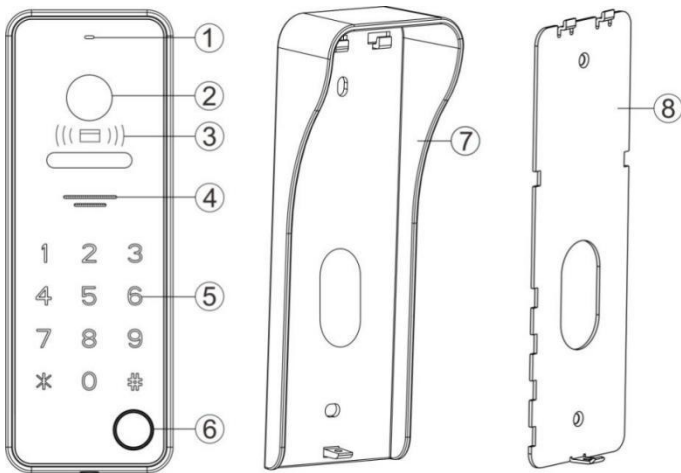
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# 1. Product Features and Main Function

- ◆ Digital 2 wire, nonpolar and easy wiring
- ◆ 1080P HD color CMOS camera
- ◆ Support 2 locks
- ◆ 120° wide viewing angle
- ◆ Night vision with automatic lumens adjustment
- ◆ Support surface mounted with a rain hood
- ◆ Slim design, suit for install at a narrow place
- ◆ Support connecting an exit button
- ◆ Support door status checking

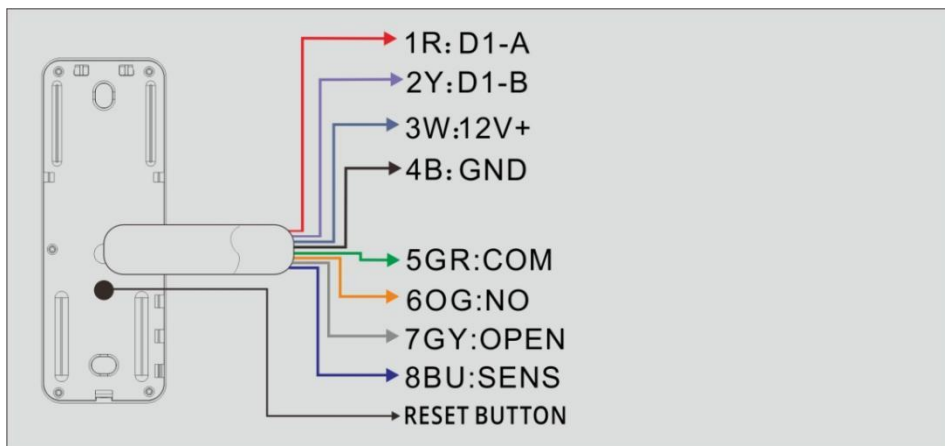
## 2. Name and the Function of Each Part

### 2.1. Names of Each Part



No.	Name
1	Microphone
2	Camera
3	Card reading area
4	Speaker
5	Keypad(*Cancel, #Confirm)
6	Call button
7	Rain cover
8	Mounting bracket

### 2.2. Terminal Description

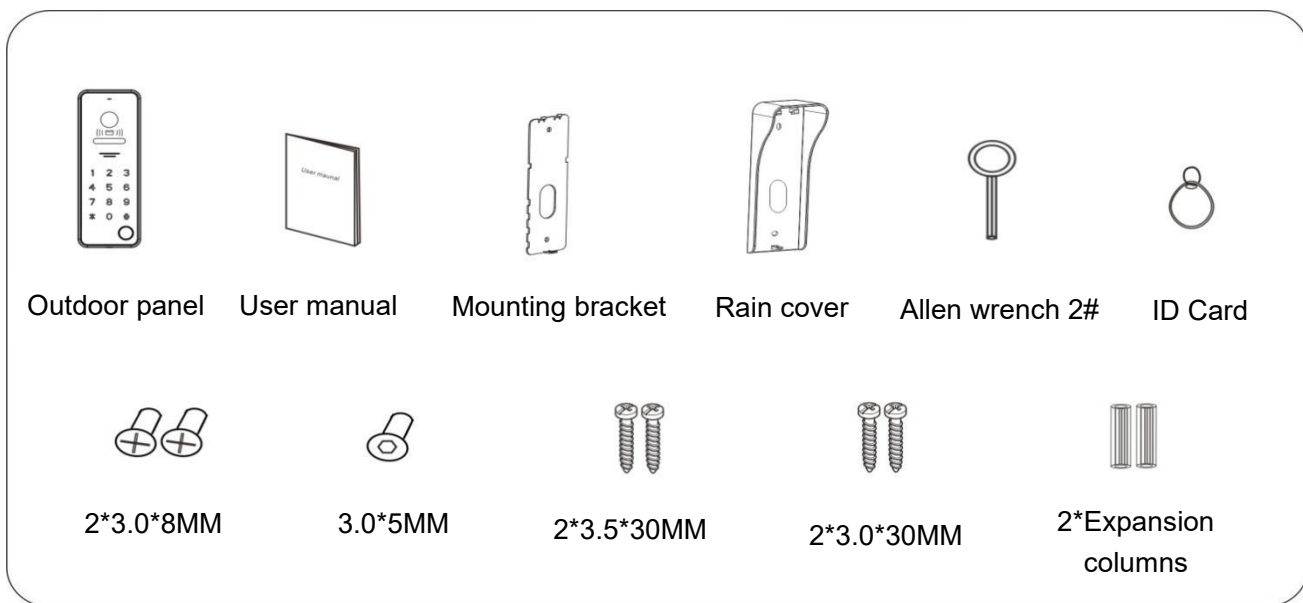


Wire NO.	Color	Description
1	Red	For connecting indoor monitor
2	Yellow	
3	White	For connecting door lock.
4	Black	
5	Green	For connecting gate lock
6	Orange	
7	Brawn	For connecting exit button
8	Blue	For connecting door status detection sensor.

**Enter outdoor panel configuration's password reset button:**

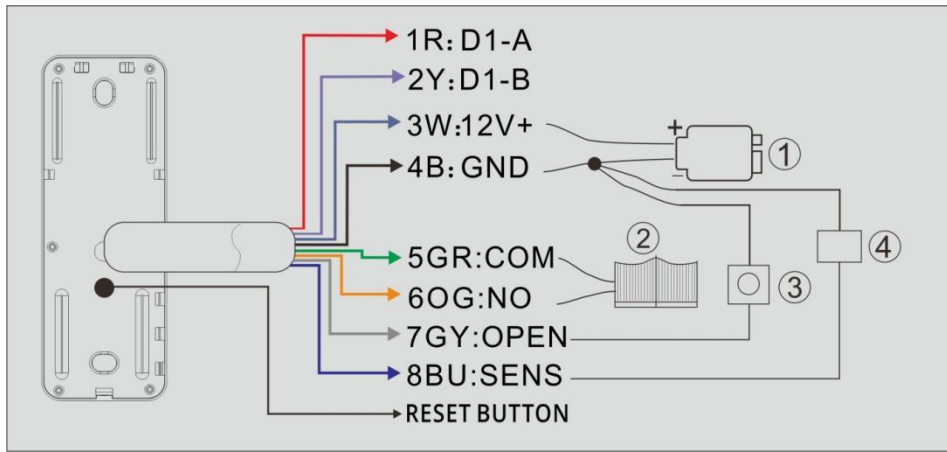
Reboot the door station, then press and hold on the reset button within 1 minute. The password resets successfully after two beeps.

### 3. Packing List



### 4. Wiring Diagram

#### 4.1 Electrical Lock Wiring Diagram



Remark:

**(1) Support Door Lock Type:**

- A: NO (normal open) lock, power on to unlock. Support lock of DC12V current  $\leq 2A$  (instantaneous).
- B: NC (normal close) lock, power off to unlock. Support lock of DC12V 0.35A (Max).

**(2) Support Gate Lock Type:**

- A: AC Lock: Support lock of AC125V current  $\leq 1A$
- B: DC Lock: Support lock  $\leq DC30V$ , current  $\leq 4A$

Remark:

**Lock Type and Unlock Time Setting:**

Touch “Device configuration” in the System Setting menu of 2-wire indoor monitor to enter the “Doorbell list”, select the door station, then enter the “Add to monitoring devices list” menu, choose the “Modify” to input the correct password and enter the modification interface, select the lock type to set the State to be ON or OFF, and set “Unlock Time” according to the actual needs.

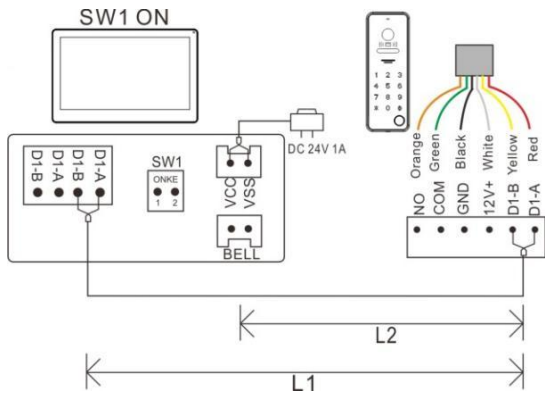
- (3) OPEN:** Unlock button, which installed inside the door, when press this button it can open the door or gate.
- (4) SENS: Door status detection sensor**

Set up of door status detection function: In the System Setting menu of 2-wire indoor monitor, touch “Device configuration” to enter the “Doorbell list”, select the door station, enter the menu of “Add to monitoring devices list”, select the “Modify” to input the correct password, then enter the modification interface, enable “Check door state”. Set “magnetic contact node type” to “Normal open” or “Normal close” according to actual needs. Set “Longest door open time”. Once the door is open, the door station will detect the door state after it reaches longest door open time. If the door is not closed after the longest door open time, the door station will alarm with beep sound.

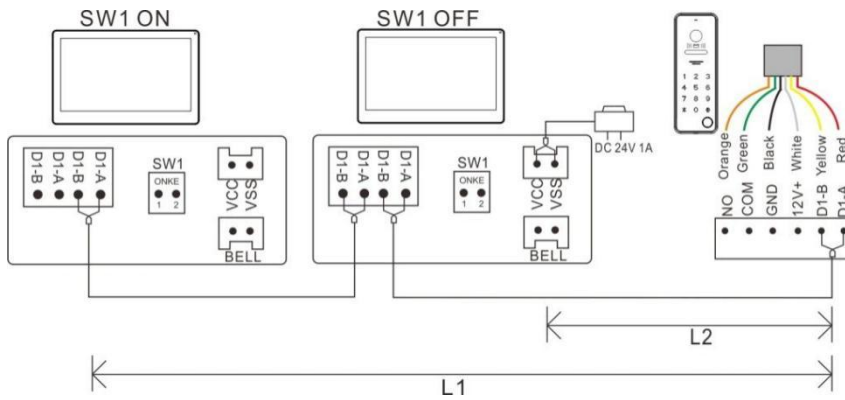
## 4.2 System Wiring Diagram

### 4.21 DC 24V 1A System Power Supply

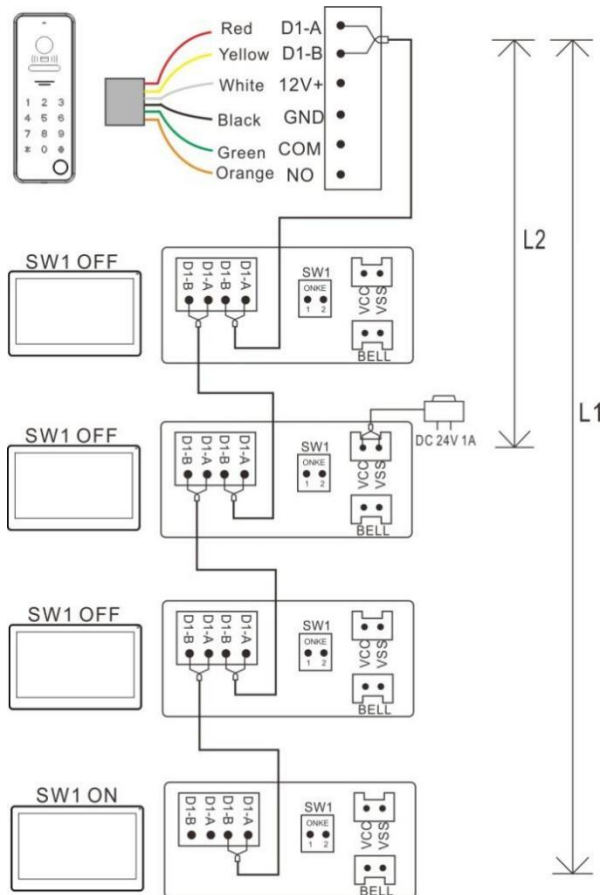
**(1) One Monitor with One Door Station**



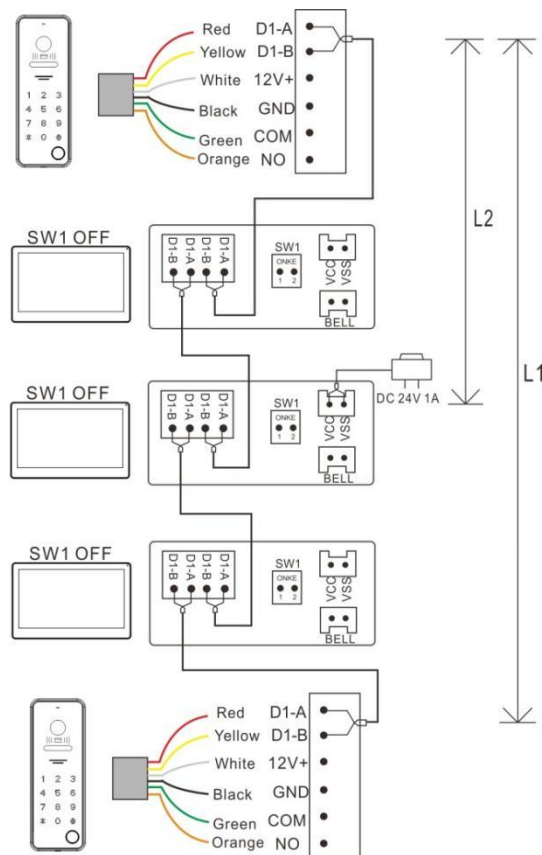
**(2) Two Monitors with One Door Station**



**(3) Four Monitors with One Door Station(Maximum)**

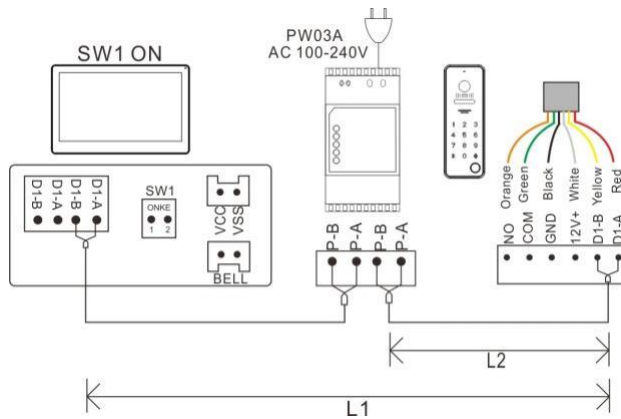


**(4) Three Monitors with Two Door Stations(Maximum)**

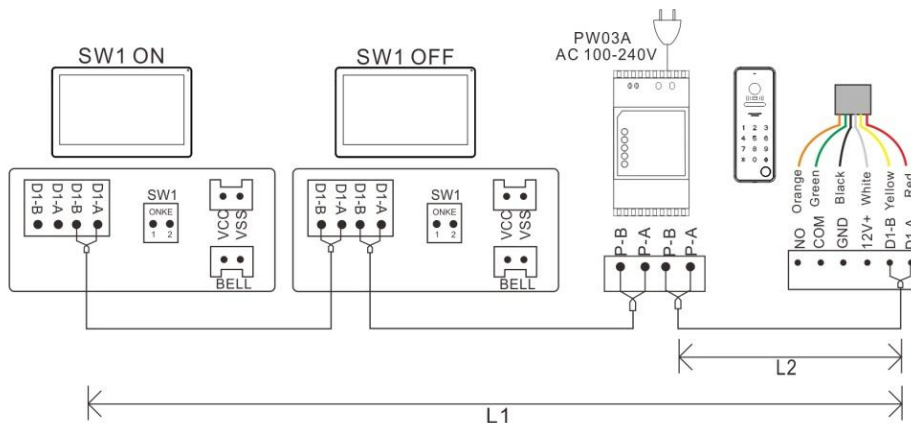


## 4.22 DC 24V 1A DIN Rail Power as System Power Supply

### (1) One Monitor with One Door Station

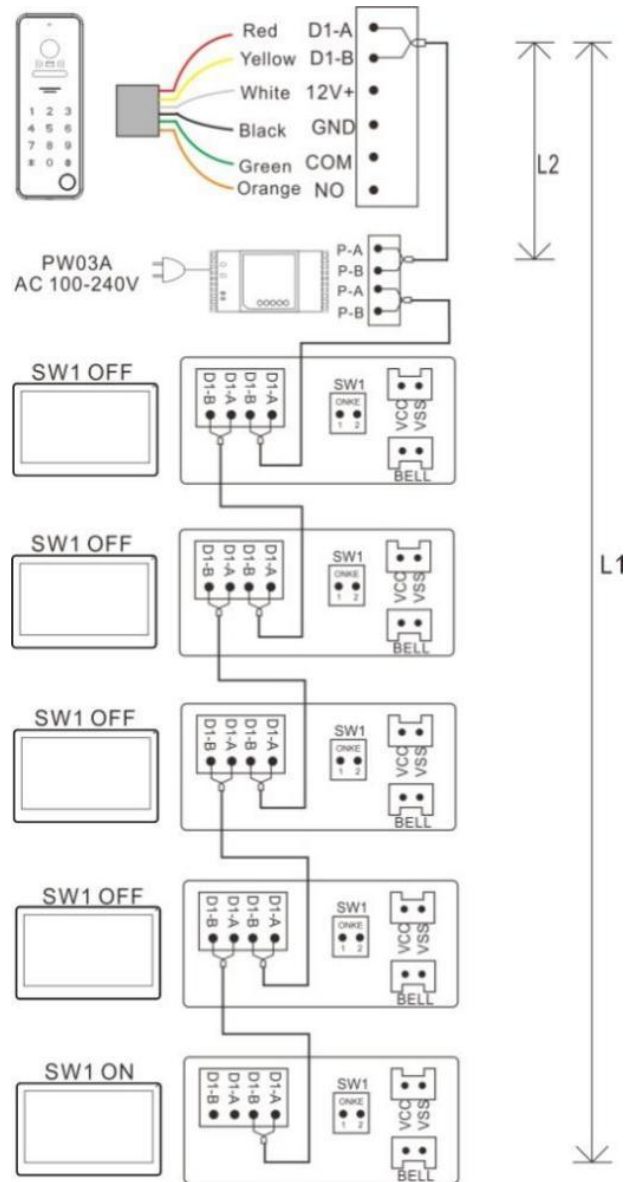
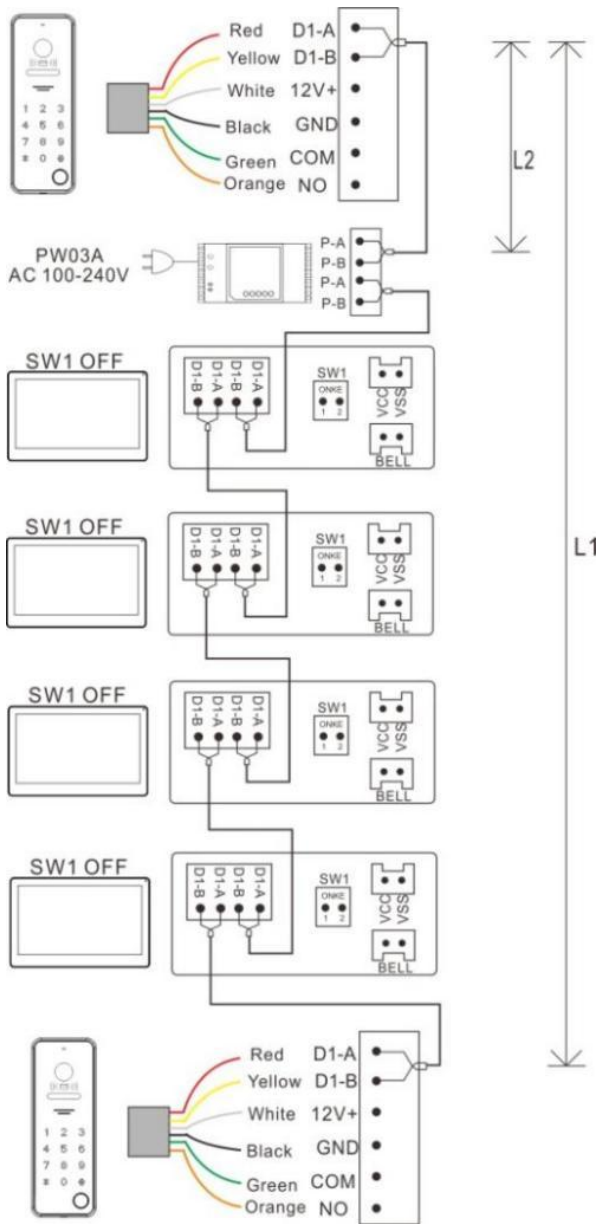


### (2) Two Monitors with One Door Station



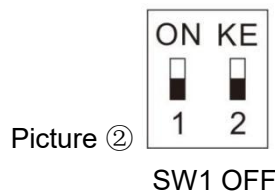
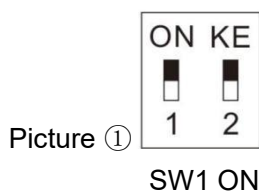
**(3) Four Monitors with Two Door Station(Maximum)**

**(4) Five Monitors with One Door Station(Maximum)**



Remark:

- (1) All cables must be unshielded.
- (2) The same BUS should use the same wire with same specification.
- (3) Each system support only one power adapter, if you connecting multi power supply, it would leads to Short circuits and system problems
- (4) 2-wire BUS terminal match setting: The last monitor on 2-wire BUS should set SW1 to be ON as below picture①, The other monitors should set SW1 to be OFF as below picture②, SW1 DIP Switch is ON by default.





- (5) For above wiring (4.21-(2)/ 4.21-(3) , (4.22-(2)/ 4.22-(4), the ROOM ADDRESS in all monitors must be set to the same. All monitors will chime together when pressing the call button on door station.
- (6) L1 represents the length of the BUS.
- (7) For the total length limit of BUS, please refer to the Wire Distance.
- (8) The BUS has no polarity.
- (9)The default address of the monitor is 1, and the door station can call directly to the monitor after installation. But if you have changed the address of the monitor, you need to set the BUTTON ADDRESS for the door station.

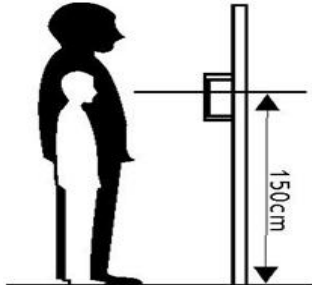
Operation method:

Touch “Device configuration” in the System Setting menu of 2-wire indoor monitor to enter the “Doorbell list”, select the door station needs to set , then enter the “Add to monitoring devices list” menu, choose the “Modify” to input the correct password and enter the modification interface. Go to “Button Address” to set call target for the button.

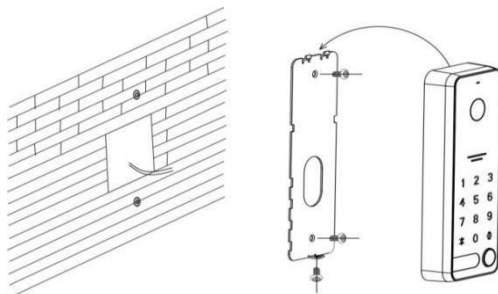
## 5. Installation Guide

### 5.1. Cautions

- (1)Choosing a suitable position for installation to avoid direct sunlight and rain.
- (2)Suggest installation height: 1.5~1.6Meters.
- (3)Ensure no power supply before installation finished.

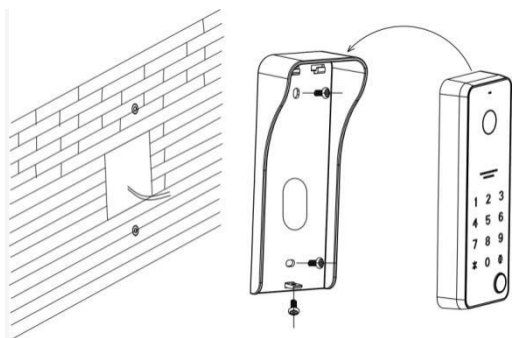


### 5.2. Surface Mounted



- (1)Drill 2 holes according to the Mounting bracket position, then insert the expansion columns into the holes.
- (2)Let the cable go through the hole on the Mounting bracket, then fix the Mounting bracket to wall with 2 screws.
- (3)Connect the cable according to the system wiring diagram.
- (4)Clip the door station onto the Mounting bracket.
- (5)Fix the door station with the screw on the bottom.



### 5.3. Surface mounted with Rain cover



- (1) Drill 2 holes according to the cover position, then insert the expansion columns into the holes.
- (2) Let the cable go through the hole on the rain cover, then fix the rain cover to wall with 2 screws.
- (3) Connect the cable according to the system wiring diagram.
- (4) Clip the door station onto the rain cover.
- (5) Fix the door station with the screw on the bottom.

### 5.4. Wire Distance

Different cable would limit the distance of wiring.

No.	Cable Type	DC24V 1A Adapter		PW03A DIN Rail Power	
		Intercom distance L1(m) (MAX)	Inner power unlock distance L2(m) (MAX)	Intercom distance L1(m) (MAX)	Inner power unlock distance L2(m) (MAX)
1	Single pair cable (Standard CAT-5) 	150	100	150	100
2	Double pair cable (Standard CAT-5) 	200	150	200	150


- Remark:
- (1) Unlock distance L2 means the distance from the 1st door station to the system power supply.
  - (2) Intercom distance L1 means the total distance of 2 wire BUS.
  - (3) The same BUS should use the same wire with same specification.

## 6. RFID Access Control Management

At standby state, read a registered card at the door station, the door will be open after a beep.

If you want to open the gate lock, press and hold on the call button on the door station, the button light will be on, read a registered card within 3 seconds, the gate lock will be open.

If read a unregistered card at the door station, there will be 2 beeps to remind you that it's invalid card.

Touch SETTING icon  on Main Menu to enter SETTINGS interface, then touch DEVICE CONFIGURATION, then touch DOORBELL LIST. Touch the Door Station you want to change the settings, touch MODIFY, input password and # to enter MODIFY interface. Touch ACCESS CONTROL MANAGEMENT to do the below settings:

### 6.1 Access State

It's on by default. If users do not want to use card access control function, please disable this item.

## 6.2 Register Access Card(125KHz ID card)

Touch Register access card, the screen will display below message: Please show your card to the door panel.....

At such state, the user can register new cards at the door station. When the user shows a new ID card to the card reading area on the door panel, the card will be registered after a beep. Same operation to add more access cards. After registered all the cards, please exit REGISTER ACCESS CARD interface.

**Remark:** The registered card information is save in the door station, so you can mange it at any indoor monitor which connects to the door station. If it's a private door station, it can only be managed by its call target monitors.

## 6.3 Check/Manage Registered Card Information

All the registered access card information could be found in VALID REGISTERED CARD LIST. Touch any registered card to enter a sub menu, then you can edit the card information.

MAIN INDEX can be a room no. or any easily remember no. for one family.

SUB INDEX can be a series no. for registered card of one family.

If you want to pause one access card, touch MOVE TO INVID REGISTERED CARD LIST.

If you want to delete one access card, touch DELETE ACCESS CARD.


If you want to delete all registered card information, touch DELETE ALL REGISTERED CARD INFORMATION.

## 6.4 Backup Registered Card Information

Insert a micro SD card into the indoor monitor. Then go to ACCESS CONTROL MANAGEMENT, touch BACKUP REGISTERED CARD INFORMATION, a sub menu will appear, touch CONFIRM to start backup. When backup finished, it will go back to ACCESS CONTROL MANAGEMENT interface.

## 6.5 Restore Registered Card Information


Insert the micro SD card, which has registered card backup information, into the indoor monitor. Then go to ACCESS CONTROL MANAGEMENT, touch RESTORE REGISTERED CARD INDORMATION. Choose

ACCESS DATE folder, a sub menu will appear, touch  to restore registered card information.

## 6.6. Password unlock setting

Please enable Password unlock function on indoor monitor first, on standby mode, input correct password and touch # confirm, when you heard a “beep”, the door is unlocked. If you input wrong password, it will have two beeps.

Method to enable password unlocking:

Touch any place on screen to enter main menu interface, Touch  to enter setting, Touch “Device configuration” to enter Device configuration interface, then touch Doorbell list to enter Doorbell list menu, select the outdoor panel you need to revise, touch Modify and enter password, touch # to confirm, Enter Modify interface,Enable Password unlock enable status, enter Unlock password setting to change password, default password is 0000 0000, please be noted the first digit should not be 0.

Remark: when disable Password unlock enable status, touch digits and enter password on keypad could not unlocking.

## 7. Specification

No	Item	Content
1	Communication	Digital 2 wire
2	Audio	Digital audio (bidirectional)
3	Video	1 channel digital video (output)
4	Camera	1080P HD color CMOS camera
5	Night vision	Infrared light(with automatic lumens adjustment)
6	Effective distance (0 Lux)	0.5 meter
7	Viewing angle	Horizontal 120 degree, Vertical 60 degree
8	Buttons	1 mechanical buttons
9	Working voltage	DC12V-24V 0.3A MAX
10	Support electrical lock	NC Lock of DC12V 0.35A (Max), or NO Lock of DC12V $\leq 2A$ (instantaneous).
11	Support gate lock	One unlock signal (dry contact). (1): AC Lock: Support lock of AC125V current $\leq 1A$ (2): DC Lock: Support lock $\leq DC30V$ , current $\leq 4A$
12	Unlock control	Signal instruction
13	Support card type	ID card(125KHz)
14	Support card number	1000pcs
15	Power consumption	3W
16	Working temperature	-25°C - +60°C
17	Storage temperature	-30°C - +60°C
18	IP Grade	IP65
19	Dimension	152*55*21MM /160.5*63.5*35MM(With rain cover)