

## OUTDOOR STATION



### T Series 2-Wire Modular Outdoor Station

User Manual\_V1.0

T-OS20/T-OS21/T-OS22/T-OS23



# Attentions

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



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



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



- 4、 Please do not disassemble the devices.

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# Chapter 1      Function Overview

This product is an Outdoor Station in 2-wire analog video door phone system. Twin-core cable is adopted to connect into the system. It supports video intercom with Indoor Monitor.

## 1.1 Function

- Support calling to Indoor Monitor
- Support indoor monitor call/monitor unlocking, card unlocking, door unlocking
- Support dual locks
- Unlocking time is adjustable
- Support configuration of prompt sound
- Support external third-party button modules
- Support single and double column settings
- Modular design
- Aluminum panel
- 2MP Megapixel
- 130° view angle
- Voice prompts
- Surface mounted and wall mounted installation optional
- IP65 IK07 Protection grade

## 1.2 Parameters

Operation System: Linux      MCU: CKS32F051C8 (ARM 32-bit Cortex®-M0 CPU)

RAM: 8KB      Storage: 64KB

### Camera

|                              |                           |
|------------------------------|---------------------------|
| Type: CMOS                   | Resolution: 2MP Megapixel |
| FOV View Angle: 130°         | Focal Length: 3.0MM       |
| Fill Light Mode: White light |                           |

### Working Parameter

#### 1 Gang (Audio and Video Module)

|                                 |                                 |
|---------------------------------|---------------------------------|
| Working Voltage: DC 30V         | Static Current: 20mA            |
| Working Current: <130mA         | Working Temperature:-30°C~+60°C |
| Storage Temperature: -40°C~70°C | Humidity: ≤95%                  |

#### 2 Gang (Audio, Video & PushButton Module)

|                                 |                                 |
|---------------------------------|---------------------------------|
| Working Voltage: DC 30V         | Static Current: 30mA            |
| Working Current: <140mA         | Working Temperature:-30°C~+60°C |
| Storage Temperature: -40°C~70°C | Humidity: ≤95%                  |

#### 3 Gang (Audio & Video & PushButton & Card & Info Module)

|                                 |                                 |
|---------------------------------|---------------------------------|
| Working Voltage: DC 30V         | Static Current: 50mA            |
| Working Current: <160mA         | Working Temperature:-30°C~+60°C |
| Storage Temperature: -40°C~70°C | Humidity: ≤95%                  |

#### 4 Gang (Audio & Video & PushButton & Button & Card & Info Module)

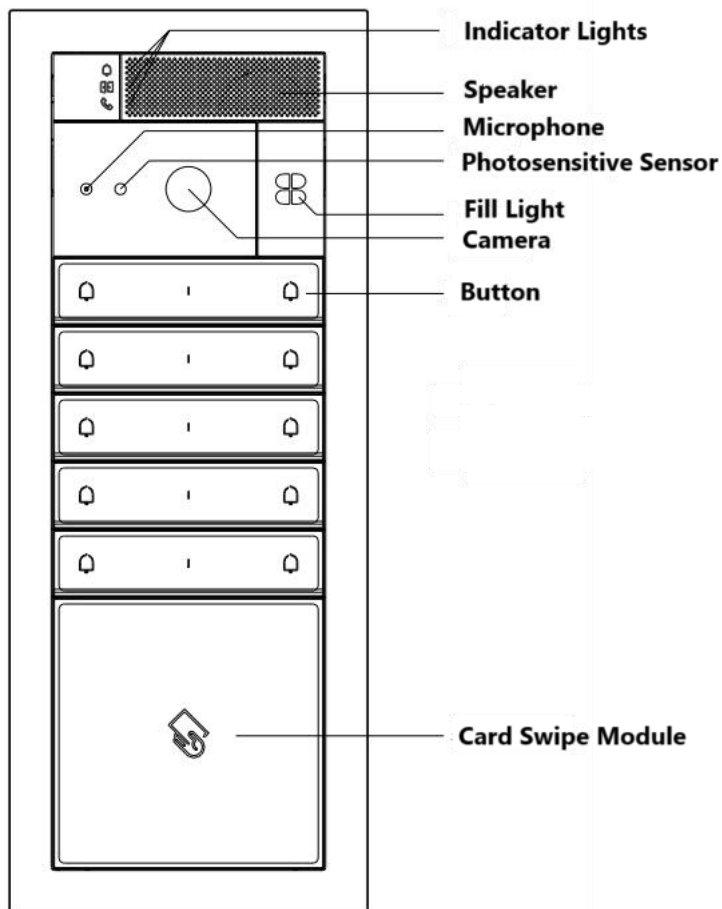
|                                 |                                 |
|---------------------------------|---------------------------------|
| Working Voltage: DC 30V         | Static Current: 60mA            |
| Working Current: <180mA         | Working Temperature:-30°C~+60°C |
| Storage Temperature: -40°C~70°C | Humidity: ≤95%                  |

\*Note: The above are examples of use and combination of standard products. Modules can be customized and arranged and combined, but only one audio and video module can exist in a device.

## Chapter 2    Product Introduction

### 2.1 Front View

Take three couplets as an example:



## 2.2 Product Dimension

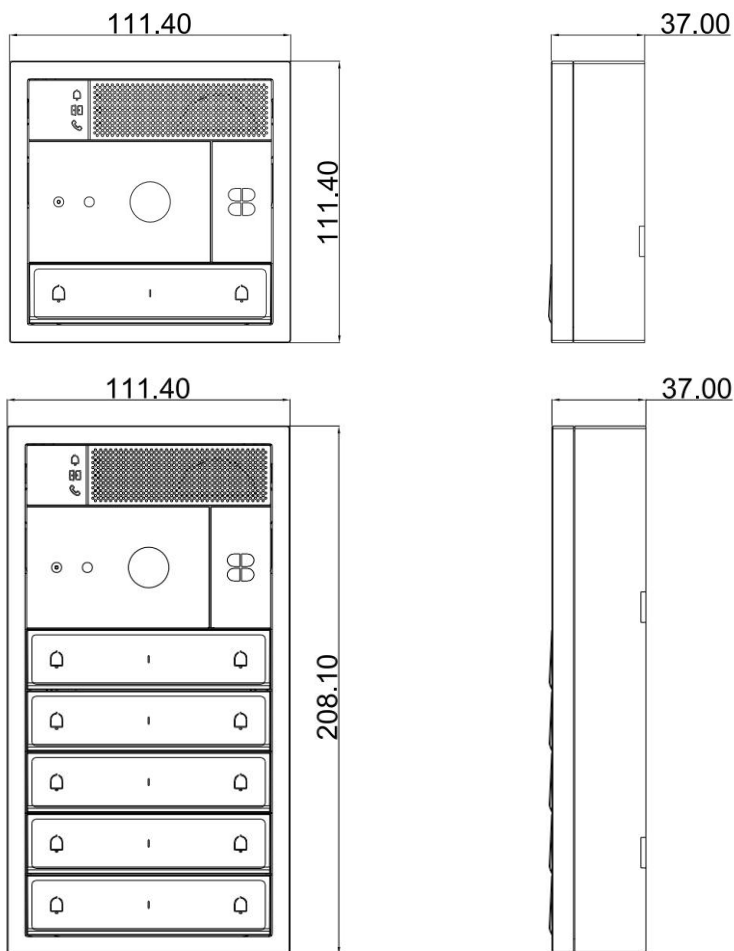
### 2.2.1 Surface mounted

1 Gang Outdoor Station: 111.4×111.4×37mm

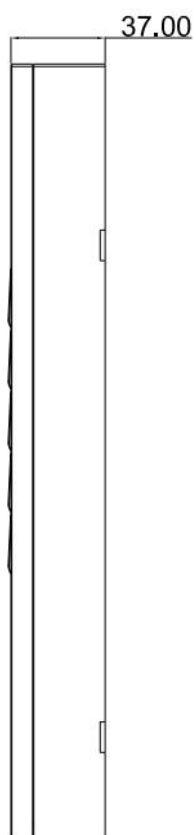
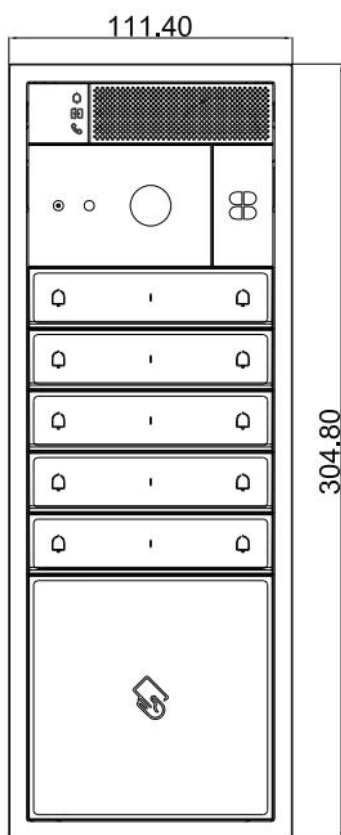
2 Gang Outdoor Station: 111.4×208.1×37mm

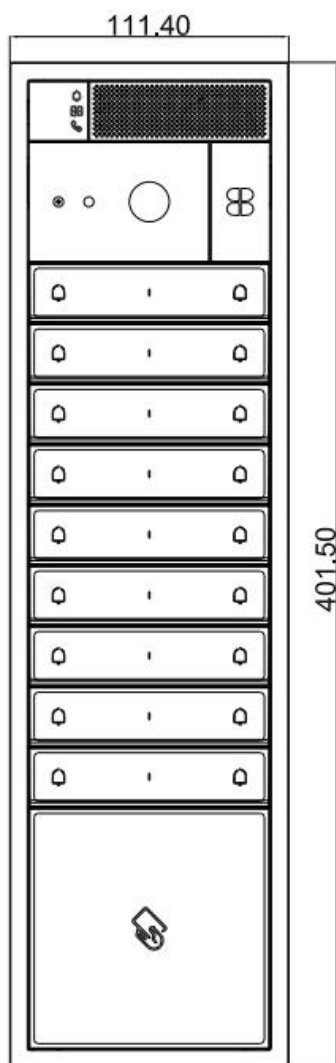
3 Gang Outdoor Station: 111.4×304.8×37mm

4 Gang Outdoor Station: 111.4×401.5×37mm



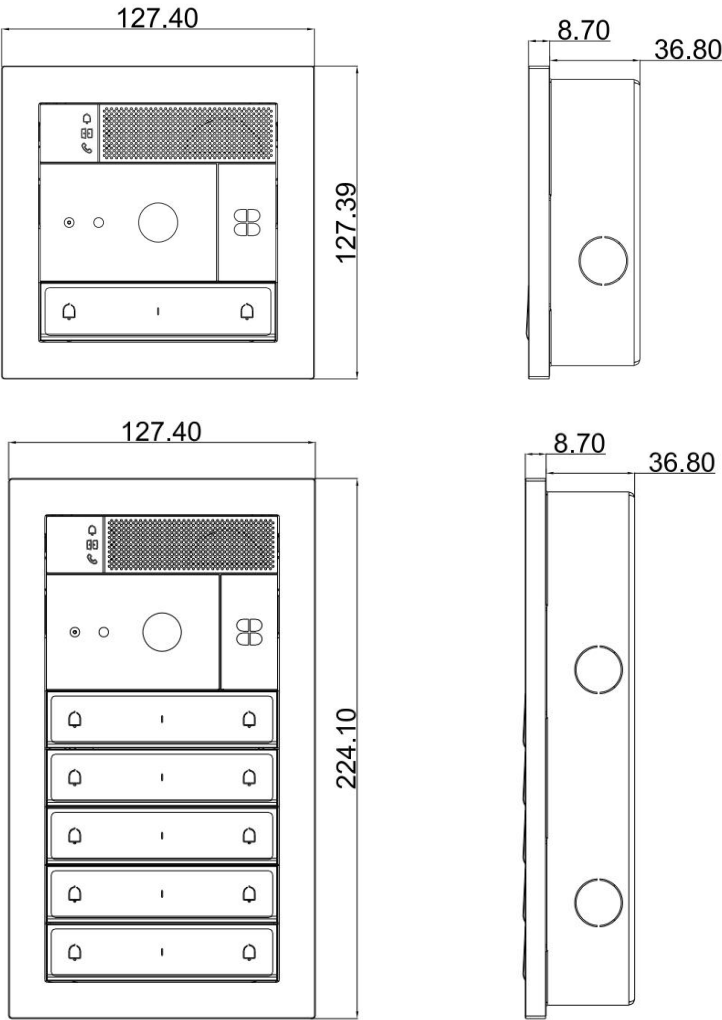


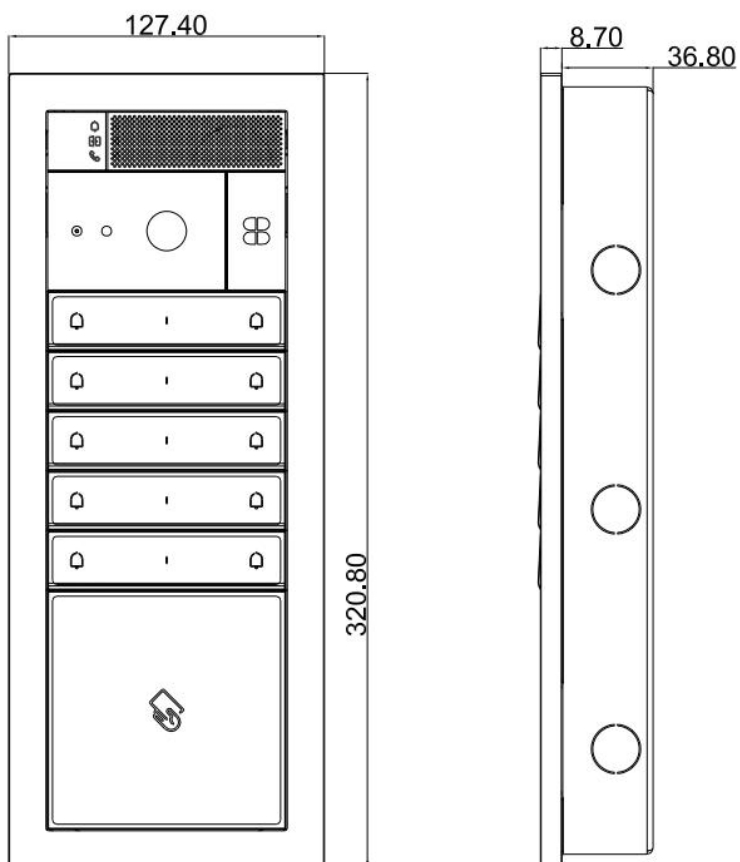


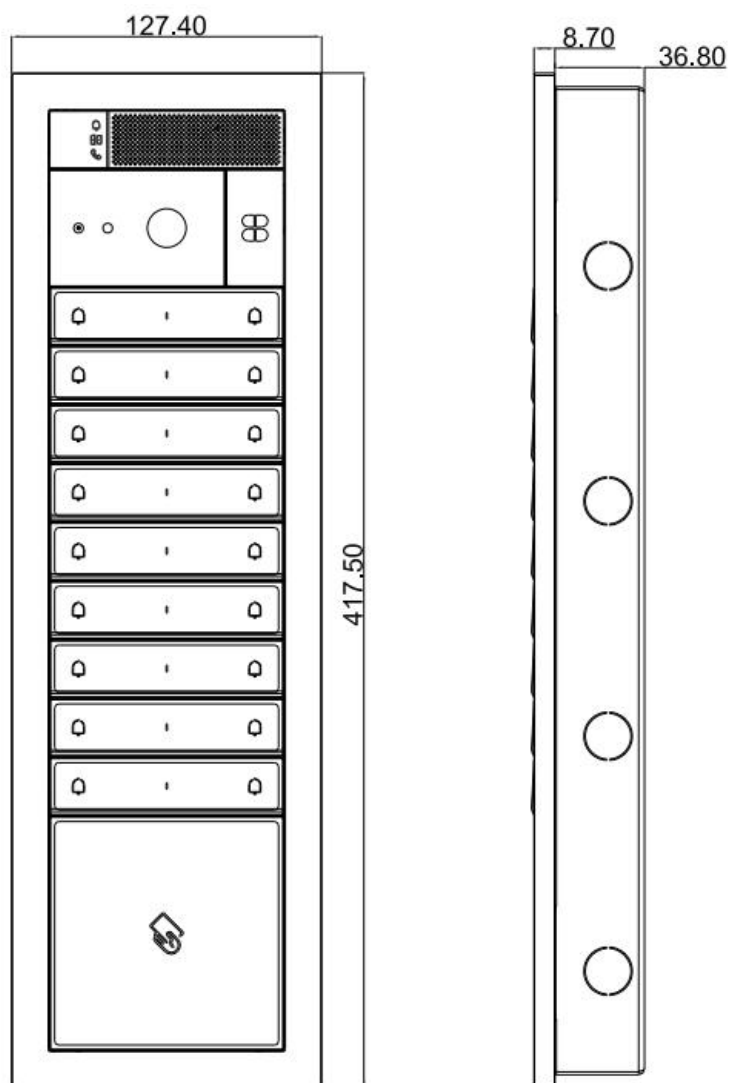


**2.2.2 Flush Mounted**

- 1 Gang Outdoor Station: 127.4×127.4×45.5mm
- 2 Gang Outdoor Station: 127.4×224.1×45.5mm
- 3 Gang Outdoor Station: 127.4×320.8×45.5mm
- 4 Gang Outdoor Station: 127.4×417.5×45.5mm

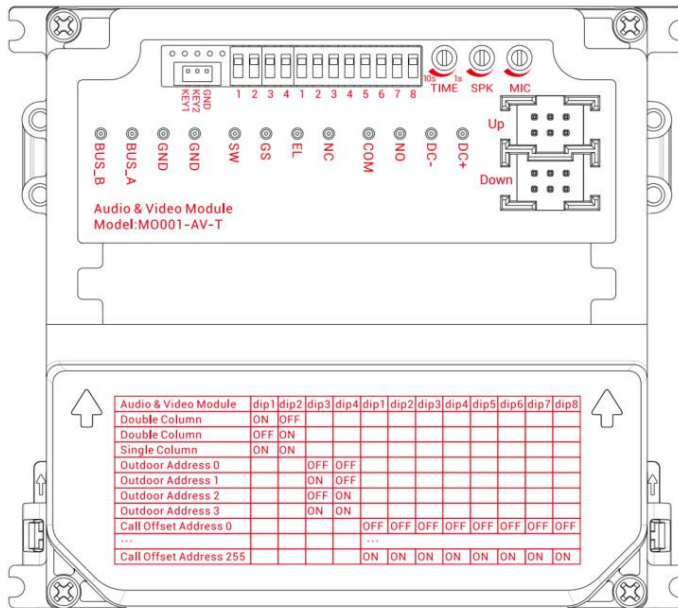






## 2.3 Interface Description

### 2.3.1 Audio & Video Module



TIME: Unlock time adjustment

SPK: Speaker volume adjustment

MIC: Microphone volume adjustment

KEY1、KEY2、GND: External third-party pushbutton module

Up、Down: Connect to other modules (Up receives, Down sends)

DC+, DC-: DC Power supply interface

NO、COM、NC: Relay lock normally open, common, normally closed interface

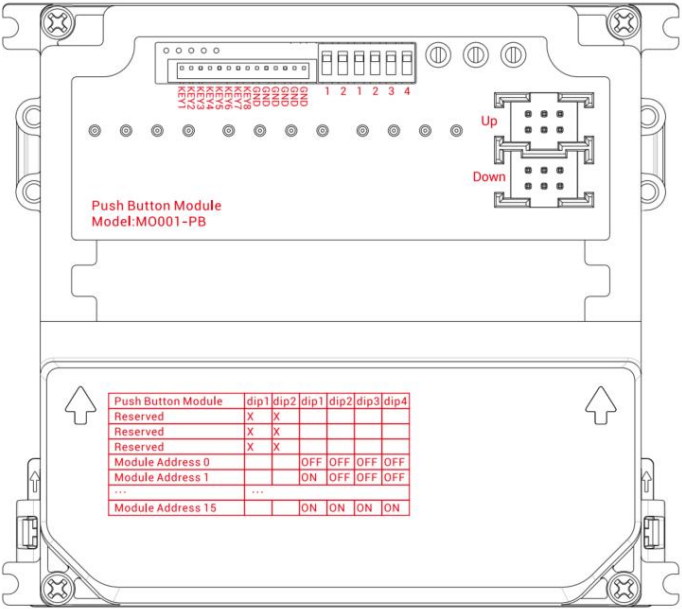
EL GND: Electric lock, public terminal interface

GS GND: Door status detection interface

SW GND: Door unlocking interface

Dip 1~12: Single and double column settings, door phone number settings, call offset address settings

2.3.2 Push Button Module

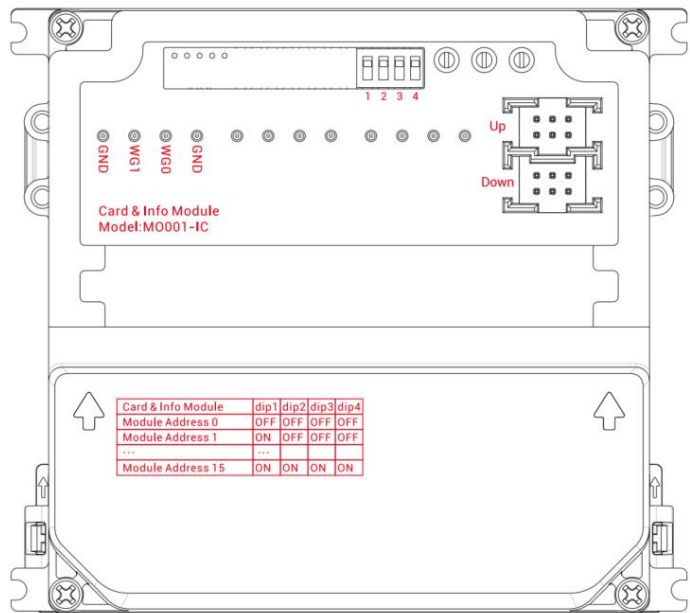


KEY1~KEY8、GND: External third-party button module

Up、Down: Connect to other modules (Up receives, Down sends)

Dip 1~6: Single and double column settings, key module number settings

2.3.3 Card & Info Module



WG0、WG1、GND: Wiegand interface (enabled by default, 34-bit output)

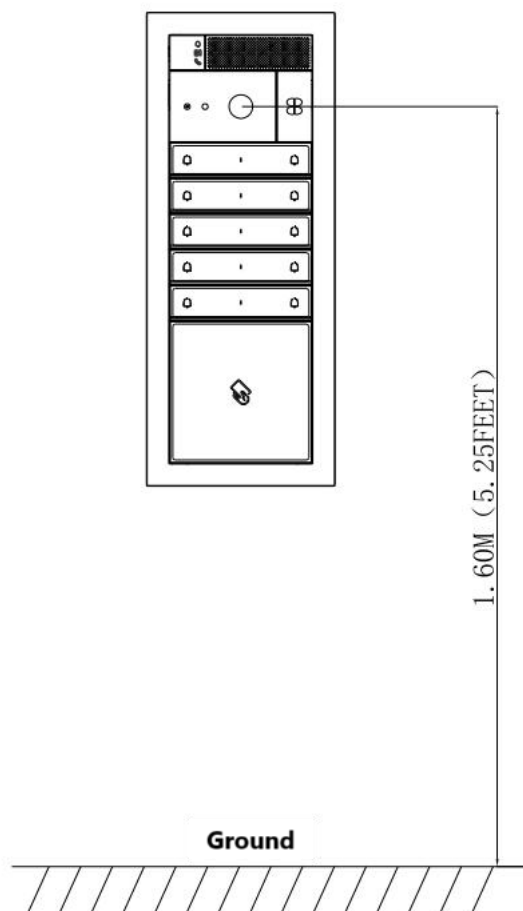
Up、Down: Connect to other modules (Up receives, Down sends)

Dip 1~4: Card swiping module number setting



## 2.4 Installation

### 2.4.1 Installation Height



Take 3 Gang Outdoor Station as an example, the recommended installation height is: 1.6 meters from the ground.

## 2.4.2 Installation Steps

### 2.4.2.1 Surface-mounted

#### Installation

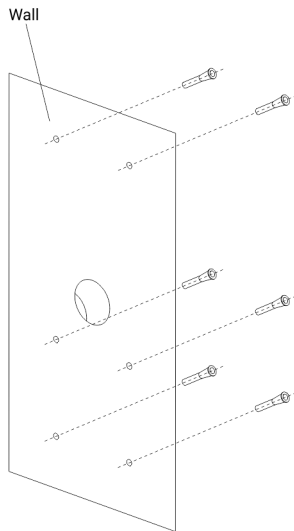
Step 1: Drill holes and install rubber plugs(as shown in Picture 1)

Drill 6 holes with 6 mm diameter in the wall, and insert the rubber plugs into the holes.

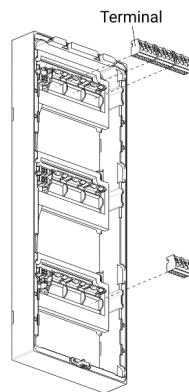
Step 2: Install the terminals into the surface-mounted bracket(as shown in Picture 2)

Take out the surface-mounted bracket and the terminals, insert the terminals into the corresponding positions.

Note: the audio and video module needs to be installed with 3 terminals, the push-button module does not need any terminal, and the nameplate & card-reader module needs to be installed with the rightmost terminal.



Picture 1



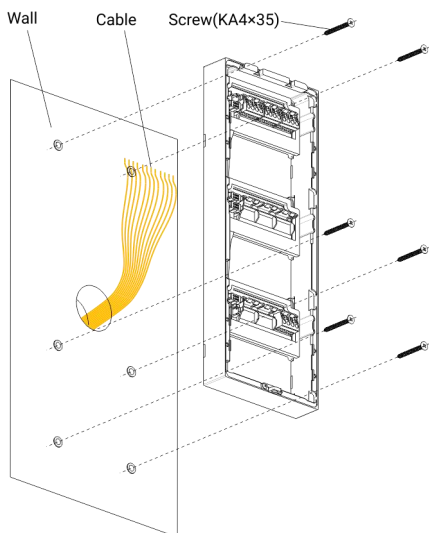
Picture 2

Step 3: Fix the surface-mounted bracket(as shown in Picture 3)

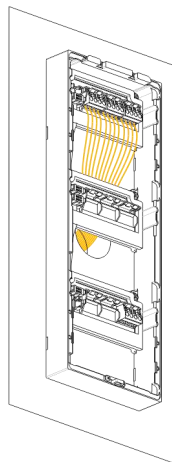
Take out the surface-mounted bracket and the screws (KA4×35), organize the cables and pass them through underneath the wiring base where the audio & video module will be installed; fasten the screws to fix the bracket to the wall.

Step 4: Wiring(as shown in Picture 4)

Insert each wire into the corresponding terminal hole and fasten the screws.



Picture 3

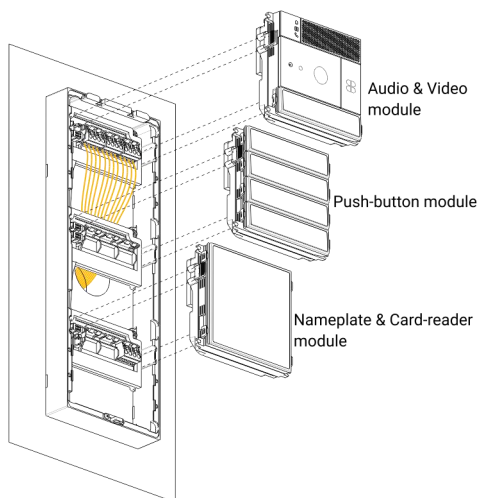


Picture 4

#### Step 5: Installing the modules(as shown in Picture 5)

Take out the modules and make the arrow on the back pointing upwards, align the semi-circular column on the module with the semi-circular holes on surface-mounted bracket. After alignment, press the module in parallel with a little force, and the installation is done when you hear two clicks.

Note: different modules need to be located in different locations.



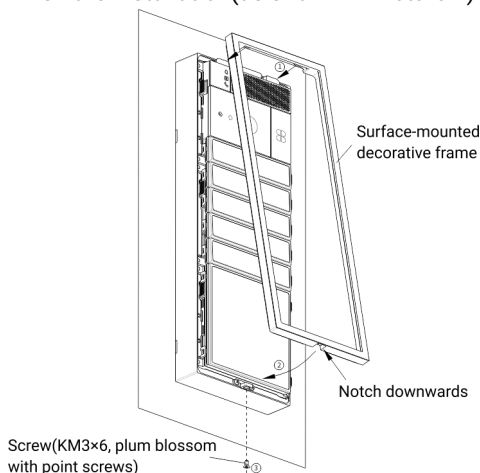
Picture 5

Step 6: Install the surface-mounted decorative frame(as shown in Picture 6)

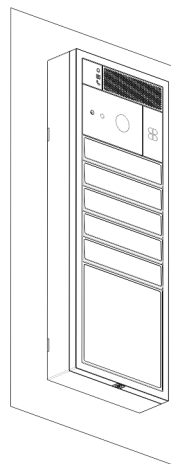
①Take out the decorative frame, pay attention to the direction: place the short side with the notch downward. Tilt the frame so that the upper part of the buckle matches the buckle on the surface-mounted bracket, and then straighten the frame so that it fits with the bracket;

②Take out the screws (KM3×6, plum blossom with point screws) and the L-type screwdriver, align the screws with the holes at the bottom of the outdoor station, and tighten them to finish the installation.

Step 7: Finish the installation(as shown in Picture 7)



Picture 6



Picture 7

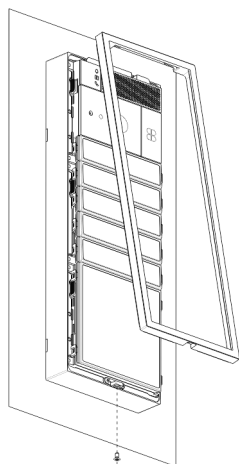
## Disassembly

Step 1: Disassemble the surface-mounted decorative frame(as shown in Picture 8)

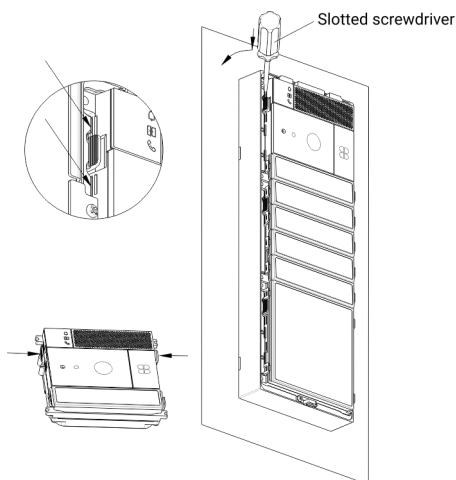
Prepare the L-type screwdriver and slotted screwdriver (or other stick with a flat head), and use the L-type screwdriver to unscrew the screws on the bottom of the outdoor station (Please keep them carefully).

Step 2: Disassemble the modules(as shown in Picture 9)

First, use your hands (recommended thumb and middle finger/ring finger) to pinch the two buckles on the module in the center to release it, and then pull it out. If it is an audio & video module or a nameplate & card-reader module, it is difficult to pull it out with bare hands due to its strong fixation. In this case, you need to use the slotted screwdriver (or other stick with a flat head) and insert the flat head into the slot of the buckle, pry the module out with force, and then pry out the other side as well. Repeat this step 1/2 times, the module can be removed.



Picture 8



Picture 9

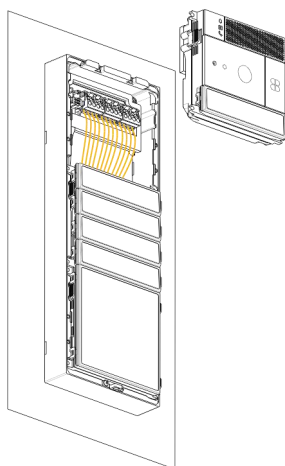
Step 3: Take out status(as shown in Picture 10)

Step 4: Replace the label(as shown in Picture 11)

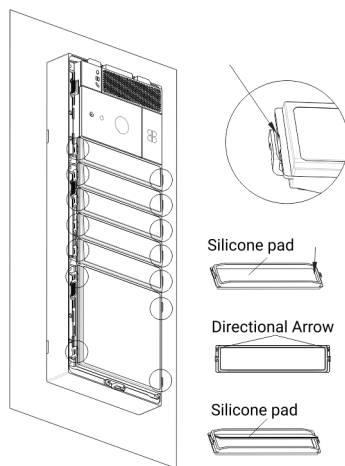
First, remove the surface-mounted decorative frame (please refer to previous steps), insert the slotted screwdriver (or other stick with a flat head) into the buckle of the button (circled part of the above figure) whose label needs to be replaced, pry open the buckle, and remove the label cover.

Turn to the back of the label cover, use a tool or fingernail to pull the silicone pad from one end, remove the silicone pad, remove the original label, replace the new label (Be careful to distinguish between front, back, and orientation, as the arrows on the label cover shown), the long side should be put into the label cover first (Note: the side of silicone pad with larger area towards the outside).

And then flatten the silicone pad, put the label cover back to the outdoor station (pay attention to the direction, as the label or the arrows on cover indicated). The same goes for replacing the label of the nameplate & card reader module. Finally, install the surface-mounted decorative frame.



Picture 10

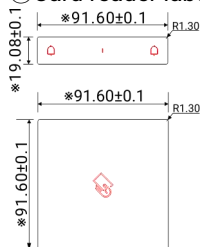


Picture 11

If you need to replace the label, please refer to the following dimensions(as shown in Picture 12):

① Push button label: 91.6×19.08×0.1mm

② Card reader label: 91.6×91.6×0.1mm



Picture 12

### 2.4.2.2 Flush-mounted

Step 1: Install the terminals

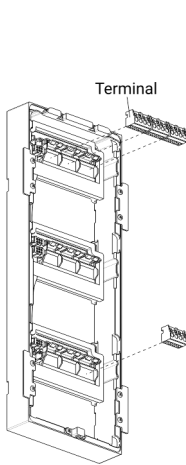
Take out the wall-mounted bracket and terminal, insert the terminal into the corresponding position.

Note: the audio and video module needs to be installed with 3 terminals, the push-button module does not need any terminal, and the nameplate & card-reader module needs to be installed with the rightmost terminal.

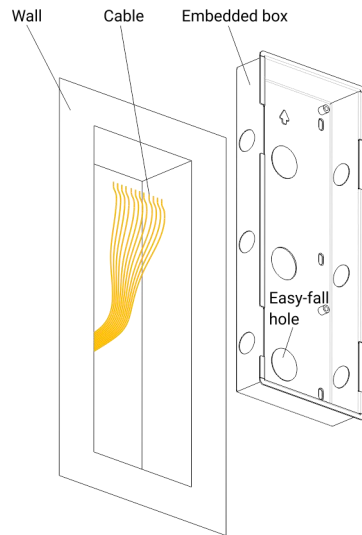
Step 2: Fix the embedded box

First, cut a slot in the wall at the planned location, please refer to the user manual for the slot's size. Knock out the iron piece in the easy-fall hole for threading the cable

through the hole, put the embedded box into the slot and fix it, and pay attention to the direction of the embedded box: the arrow points upward.



Picture 1



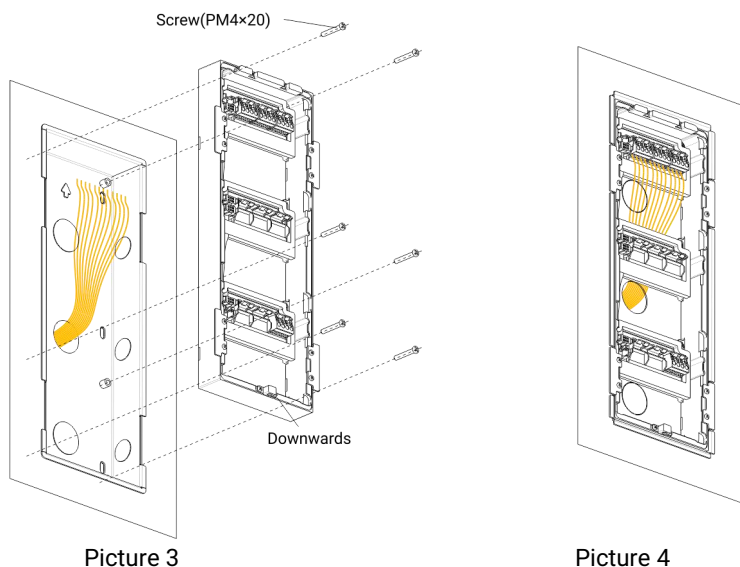
Picture 2

### Step 3: Fix the wall-mounted bracket

Take out the wall-mounted bracket and the screws (PM4x20), organize the cables and pass them through underneath the wiring base where the audio & video module will be installed; align the bracket with the embedded box (pay attention to the direction), and fasten the screws to fix the bracket in the embedded box.

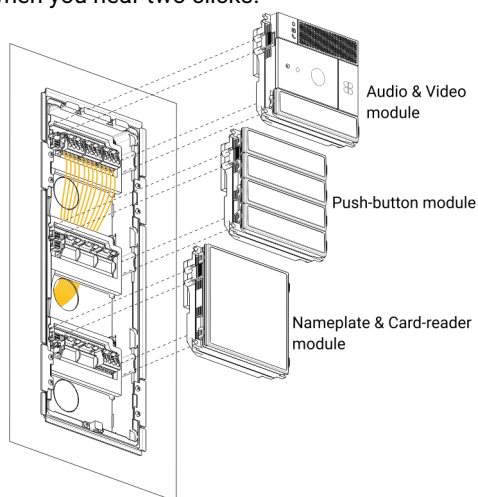
### Step 4: Wiring

Insert each wire into the corresponding terminal hole and fasten the screws.



### Step 5: Installing the modules

Take out the modules and make the arrow on the back pointing upwards, align the semi-circular column on the module with the semi-circular holes on wall-mounted bracket. After alignment, press the module in parallel with a little force, and the installation is done when you hear two clicks.

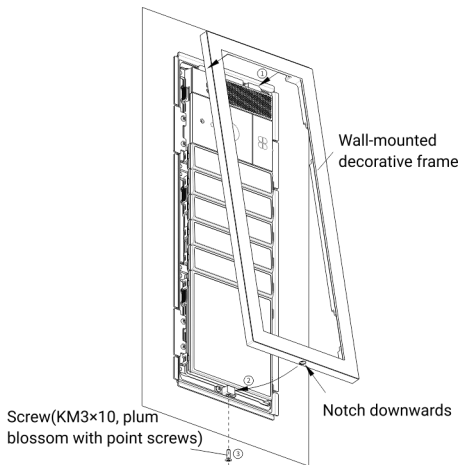


### Step 6: Install the wall-mounted decorative frame

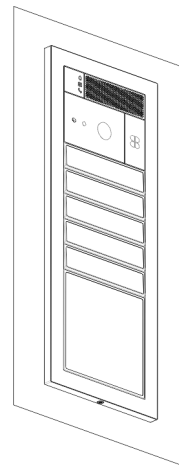


- ①Take out the decorative frame, pay attention to the direction: place the short side with the notch downward. Tilt the frame so that the upper part of the buckle matches the buckle on the wall-mounted bracket, and then straighten the frame so that it fits with the bracket;
- ②Take out the screws (KM3x10, plum blossom with point screws) and the L-type screwdriver, align the screws with the holes at the bottom of the outdoor station, and tighten them to finish the installation.

Step 7: Finish the installation.



Picture 6



Picture 7

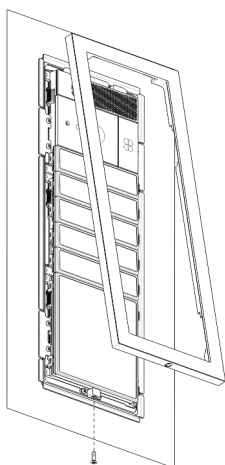
## Disassembly

Step 1: Disassemble the wall-mounted decorative frame

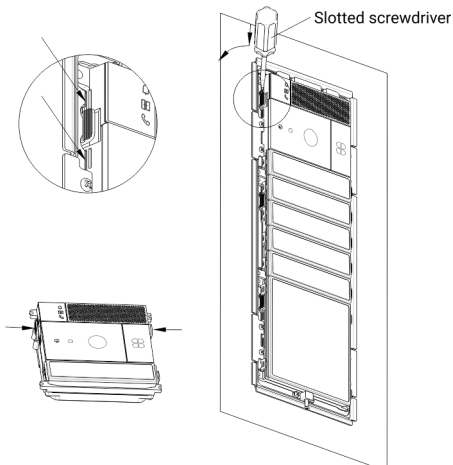
Prepare the L-type screwdriver and slotted screwdriver (or other stick with a flat head) and use the L-type screwdriver to unscrew the screws on the bottom of the outdoor station (Please keep them carefully).

Step 2: Disassemble the modules

First, use your hands (recommended thumb and middle finger/ring finger) to pinch the two buckles on the module in the center to release it, and then pull it out. If it is an audio & video module or a nameplate & card-reader module, it is difficult to pull it out with bare hands due to its strong fixation. In this case, you need to use the slotted screwdriver (or other stick with a flat head) and insert the flat head into the slot of the buckle, pry the module out with force, and then pry out the other side as well. Repeat this step 2/3 times, the module can be removed.



Picture 8



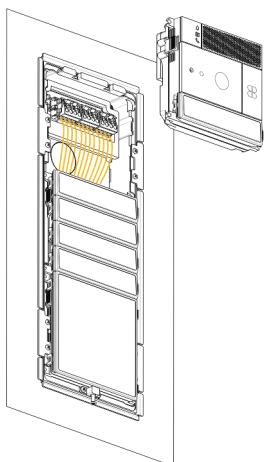
Picture 9

Step 3: Take out status.

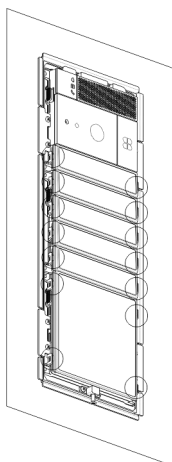
Step 4: Replace the label

First, remove the wall-mounted decorative frame (please refer to previous steps), insert the slotted screwdriver (or other stick with a flat head) into the buckle of the button (circled part of the above figure) whose label needs to be replaced, pry open the buckle, and remove the label cover. Turn to the back of the label cover, use a tool or fingernail to pull the silicone pad from one end, remove the silicone pad, remove the original label, replace the new label (Be careful to distinguish between front, back, and orientation, as the arrows on the label cover shown), the long side should be put into the label cover first (Note: the side of silicone pad with larger area towards the outside).

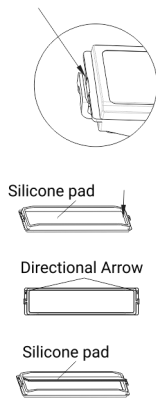
And then flatten the silicone pad, put the label cover back to the outdoor station (pay attention to the direction, as the label or the arrows on cover indicated). The same goes for replacing the label of the nameplate & card reader module. Finally, install the wall-mounted decorative frame.



Picture 10



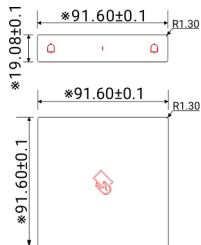
Picture 11



If you need to replace the label, please refer to the following dimensions(as shown in Picture 12):

① Push button label:  $91.6 \times 19.08 \times 0.1\text{mm}$

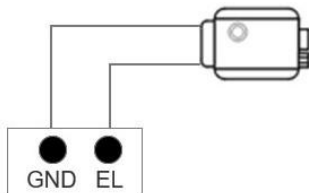
② Card reader label:  $91.6 \times 91.6 \times 0.1\text{mm}$



Picture 12

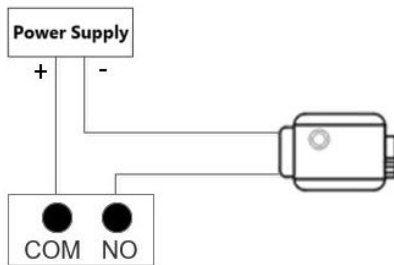
## 2.5 Door Lock Wiring diagram

- Signal unlock wiring



12V electric lock wiring method (12V electric lock)

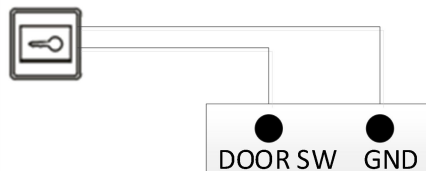
【Note】 This wiring has no polarity.



Normally open lock wiring method (relay lock)

【Note】 Do not use the outdoor station for power supply.

- Exit button unlock wiring

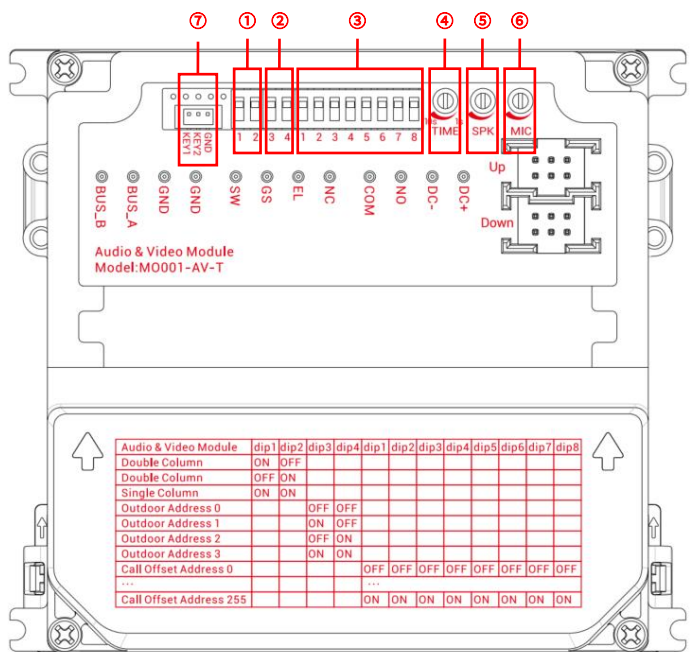


【Note】 This wiring has no polarity.

# Chapter 3     DIP Settings

Remove the module back cover to set the module dial code.

## 3.1 Audio and Video Module MO001-AV-T



The audio and video module is a necessary component of the modular outdoor station and can be used alone. The pushbutton module/Card & Info module must be used with the audio and video module.

The audio and video module can be set: single and double column dial setting (number ①), outdoor station number setting (number ②), call offset setting (number ③), unlocking time setting (number ④), speaker volume setting (number ⑤), microphone volume setting (number ⑥), external third-party 2 button modules (number ⑦).

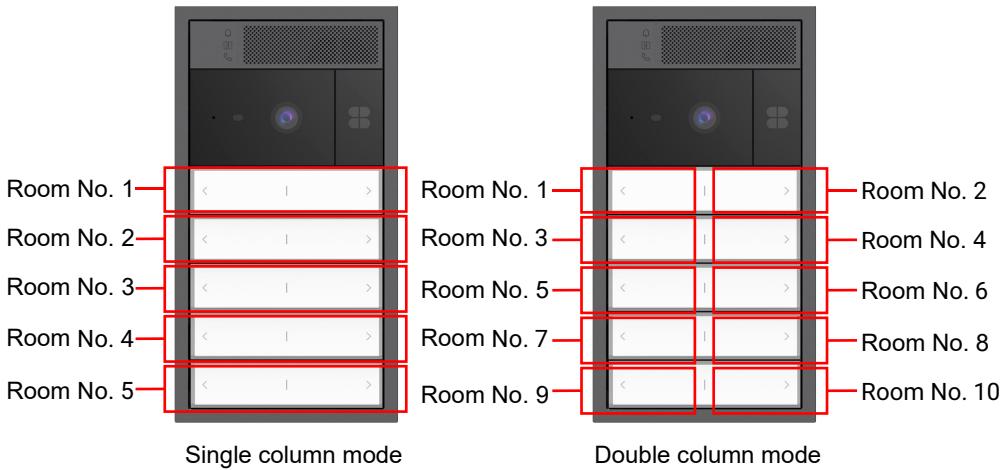
### 3.1.1     Single and Double Column Dialing Settings

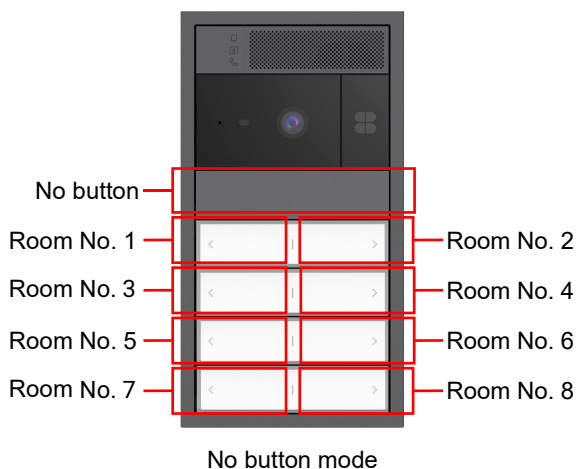
The key part of the audio and video module can be set to single-column or double-column mode through the DIP switch. This setting will affect the key module. Except for the no-key mode, the single-column/double-column mode of the key module will be consistent with the setting of the audio and video module.

#### 1. Single-column/double-column mode

Setting method: The 1st and 2nd bits from left to right are encoded, such as number ①.  
 Use binary encoding, 0 is OFF, 1 is ON.

| Single/Dual Column | Call Room Number                                                                                               | Dial Code Setting |
|--------------------|----------------------------------------------------------------------------------------------------------------|-------------------|
| Double column mode | The left and right buttons will call different room numbers                                                    | 10 Or 01          |
| Single column mode | The left and right buttons will call the same room number                                                      | 11                |
| No button          | The audio and video module does not enable the button, and the button module will be addressed starting from 1 | 00                |





### 3.1.2 Outdoor Station Coding Settings

The outdoor station number can be set by the DIP switch.

Setting method: Encode the 3rd and 4th digits from left to right, such as number ②. Use binary encoding, 0 is OFF, 1 is ON.

| Outdoor Station No. | Dial Code Setting |
|---------------------|-------------------|
| 1                   | 10                |
| 2                   | 01                |
| 3                   | 11                |
| Invalid             | 00                |

Note: If an invalid outdoor station number ("00") is set, the outdoor station will not be able to make calls and will emit a "beep, beep" sound when making calls.

### 3.1.3 Call Offset Settings

The call offset can be set by the DIP switch so that visitors can call the residents of the corresponding room number by pressing the button.

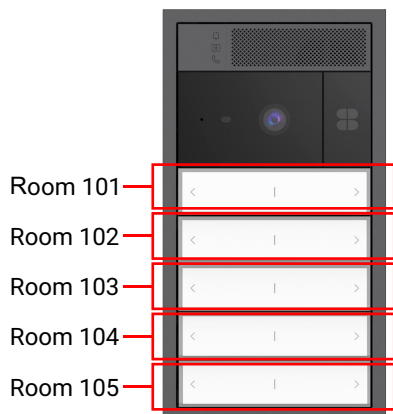
#### 1. Room number range

- The room number range of the indoor machine is "1~200". The room number "200" can be set to be fixed as the Guard Unit.
- If the room number is exceed 200, the outdoor station call fails.

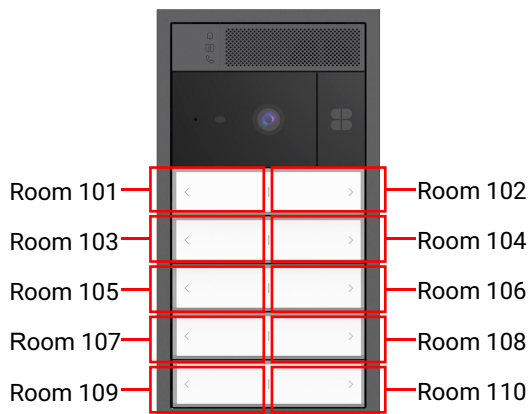
2. Setting method: The DIP switch has 8 bits in total, and the 5th to 12th bits from left to right are coded as shown in No. ③. Each position can be set to 0 or 1 in binary according to the required offset.

For example: the dial code is 00100110, which is offset by 100 digits. When the outdoor station calls the indoor station, the first button will call room number 101

(offset by 100 digits based on the default room number 1)



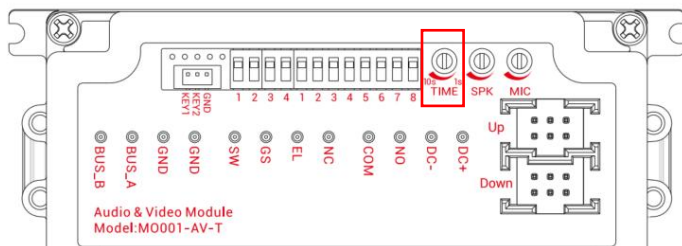
Single column mode



Double column mode

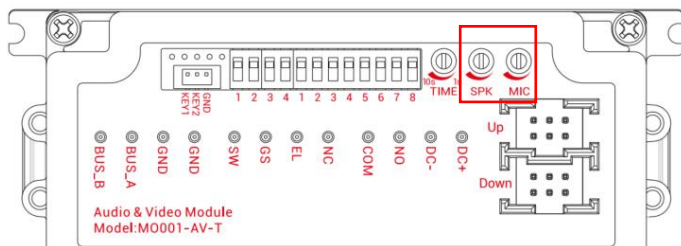
### 3.1.4 Unlock Time Settings

The unlocking time potentiometer on the back of the outdoor station can be used to adjust the unlocking time of lock 1, as shown in No. ④. The range is 1~10S.



### 3.1.5 Speaker/Microphone Volume Adjustment

The speaker/microphone volume can be adjusted by the speaker potentiometer and microphone potentiometer on the back of the outdoor station, such as No.⑤ and No.⑥.

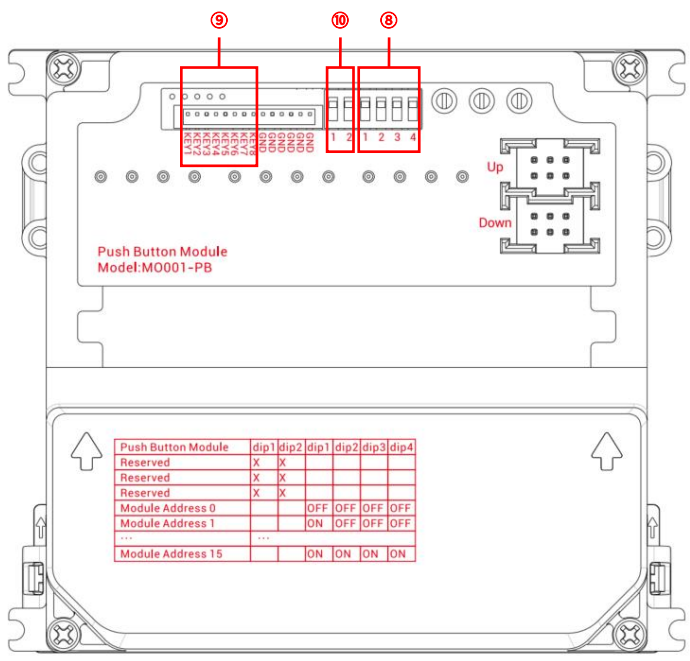




3.1.6 External Third-Party Button Module

Each audio and video module has 2 buttons. The room number called by each button is related to the single and double columns and call offset settings. The audio and video module supports external third-party button modules, and the docking lines are KEY1 and KEY2, as shown in number ⑦. The effect of triggering a third-party button corresponds to the two buttons on the modular door machine one by one, and the effect is the same.

3.2 Push Button Module MO001-PB



The button module cannot be used alone and must be used with the audio module. The button module can be set: button module number setting (number ⑧), external third-party button interface (number ⑨), reserved interface (number ⑩).

3.2.1 Keypad Module Number Settings

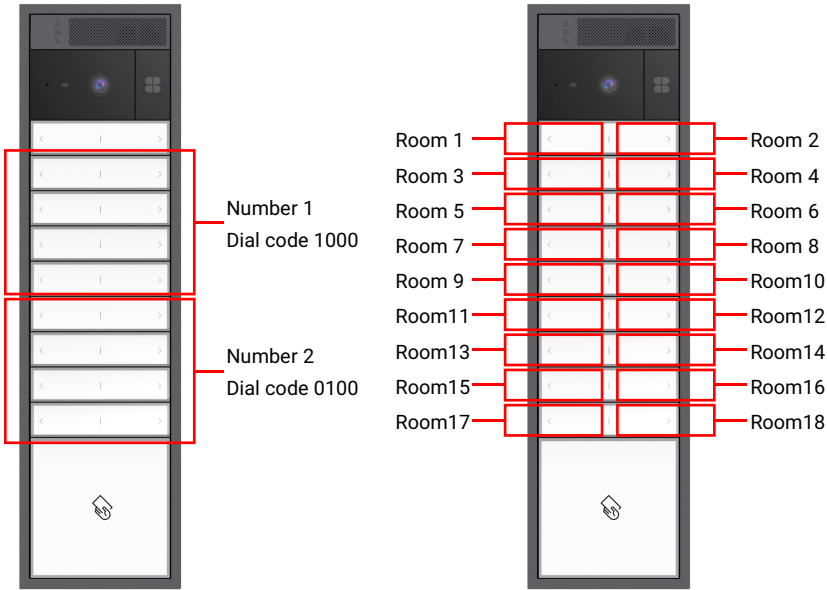
Whether there is only one key module or multiple key modules (up to 15 modules can be connected), a number must be set for each key module. When multiple modules are connected to the whole machine, the key module number must start from 1 and be continuous and non-repeating.

Setting method: Encode the 3rd to 6th digits from left to right, such as number ⑧. Use binary encoding, 0 is OFF and 1 is ON.

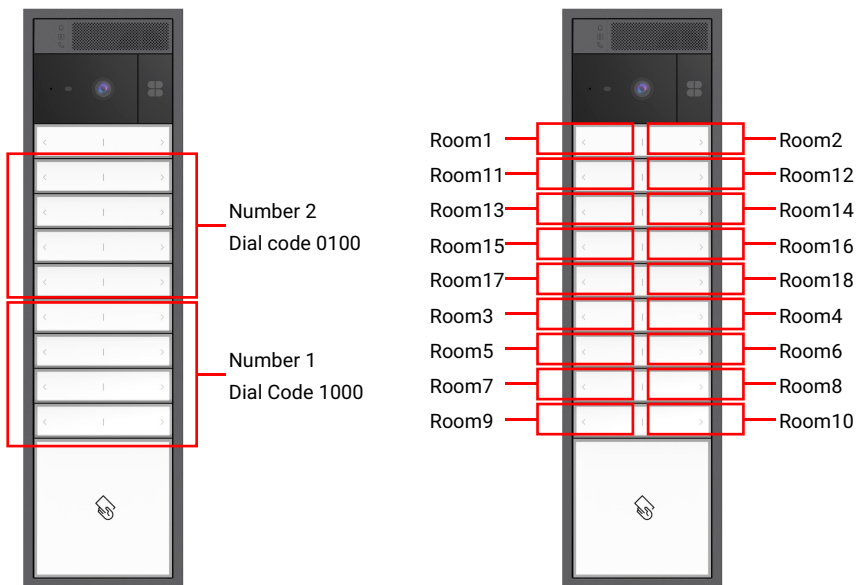
| Key module number  | Dial code setting |
|--------------------|-------------------|
| 1st button module  | 1000              |
| 2nd button module  | 0100              |
| 3rd button module  | 1100              |
| 4th button module  | 0010              |
| 5th button module  | 1010              |
| 6th button module  | 0110              |
| 7th button module  | 1110              |
| 8th button module  | 0001              |
| ...                | ...               |
| 15th button module | 1111              |

For example: When the outdoor phone is set to double columns and there is no call offset, there are two button modules, there are two ways to set the button module number:

1. Set the upper button module to number 1 and the lower button module to number 2



2. Set the upper button module to number 2 and the lower button module to number 1

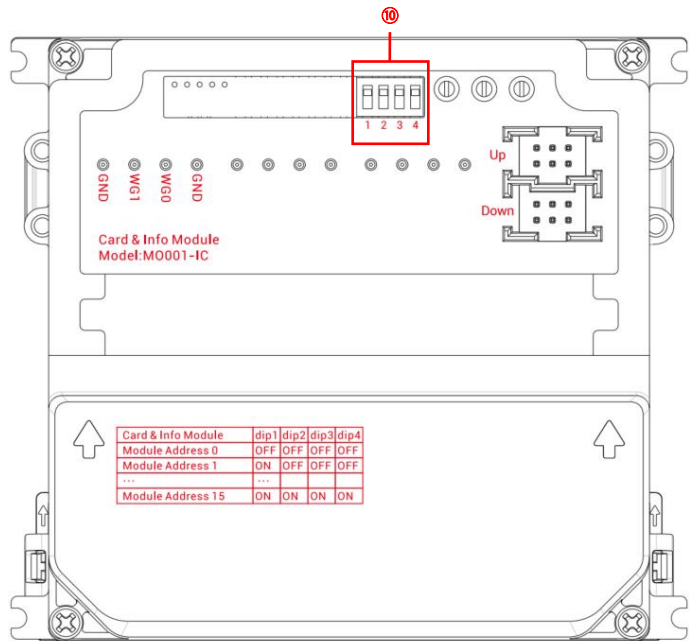


### 3.2.2 External Third-Party Button Module

Each button module has 8 buttons. The room number called by each button is related to the single and double columns, call offset settings, and button module number.

The button module supports external third-party button modules, and the connection lines are KEY1~KEY8, as shown in number ⑨. The effect of triggering a third-party button corresponds one-to-one with the 8 buttons on the modular door machine, and the effect is the same.

### 3.3 Card & Info Module MO001-IC



#### 3.3.1 Card swiping module number settings

If there is only one card swipe module or multiple card swipe modules (up to 15 connected), you need to set a number for each card&Info module, and the number of each button module can be set to be repeated.

Setting method: Encode the 1st- 4th digits from left to right, as shown in No. ⑩. Use binary encoding, 0 is OFF and 1 is ON.

| Card swipe module number             | Dial setting |
|--------------------------------------|--------------|
| 1 <sup>st</sup> card swipe module    | 1000         |
| 2 <sup>nd</sup> card swiping module  | 0100         |
| 3 <sup>rd</sup> card swiping module  | 1100         |
| 4 <sup>th</sup> card swiping module  | 0010         |
| 5 <sup>th</sup> card swiping module  | 1010         |
| 6 <sup>th</sup> card swiping module  | 0110         |
| 7 <sup>th</sup> card swiping module  | 1110         |
| 8 <sup>th</sup> card swiping module  | 0001         |
| ...                                  | ...          |
| 15 <sup>th</sup> card swiping module | 1111         |

## Chapter 4 Instructions

### 4.1 Call Residents

The visitor presses the call button to start calling the indoor monitor, and the indoor monitor rings. Press the call button repeatedly, and the indoor monitor starts ringing again and resets the countdown. If the resident does not answer within 30 seconds, the call ends automatically.

The room number called by the button is related to the single and double column settings, call offset settings, and button module number settings:

1. Single and Double Column: Single column means the left and right buttons in the same row call the same room number, and double column means the left and right buttons in the same row call different room numbers. For details, see ["2.1.1 Single and Double Column Dial Code Settings"](#).
2. Call offset: The offset address refers to the room number assigned to the outdoor station as the starting call. For example, outdoor station 1 as unit 1 outdoor station allows calls to households 1 to 10, and outdoor station 2 as single 2 outdoor station allows calls to households 11 to 20. In this case, you need to set the offset address of outdoor station 1 to 0 and the offset address of outdoor station 2 to 10 (in binary, the dial code is set to 01010000). The room number called by the button is equal to the physical button address plus the call offset address. For example, if the physical address is 8 and the call offset address is also 8, then the room number called is 16. See ["2.1.3 Call offset setting"](#) for details.
3. Key module number: Whether there is only one key module or multiple key modules (up to 15 can be connected), you need to set the order for each key module. See ["2.2.1 Key module number setting"](#) for details.

### 4.2 Unlock

- Indoor monitor unlock

When calling a resident or monitoring the outdoor station, the indoor monitor can unlock the outdoor station. The indoor monitor can choose unlock 1 or unlock 2.

- Swipe card to unlock

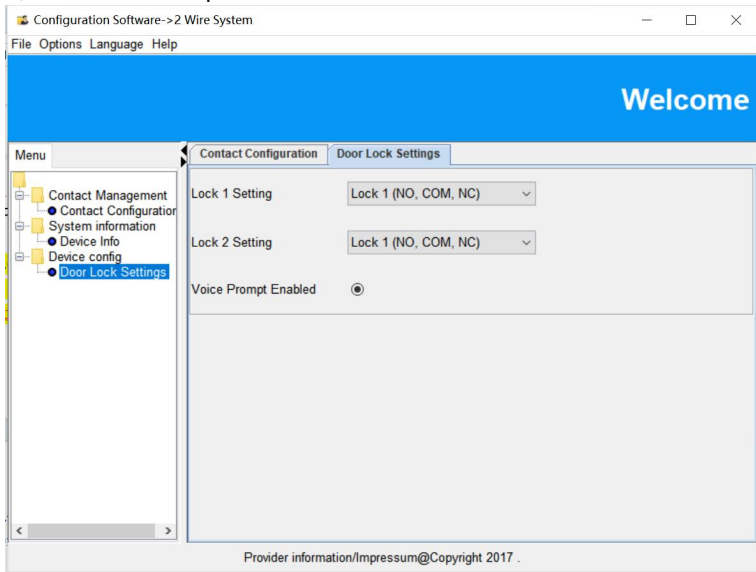
Residents can unlock the door by placing the registered access card close to the card swiping area on the device. The default unlocking mode is unlocking 1.

- Unlocking from inside the door

The machine provides an interface for the exit button interface. After connecting the exit button, the resident only needs to press the exit button from inside the door to unlock the door. The default unlocking of the exit button is unlocking 1.

- Configuration

The default lock 1 is a relay signal lock (NO, COM, NC), and the unlocking time is set for lock 1. The default lock 2 is a 12V electric lock (EL GND). It can be configured through the PC tool, as shown in the picture.



## 4.3 Card Management

### 4.3.1 Outdoor Station

- Register Admin card

After the outdoor station is restored to factory settings, it will be powered on again within 60 seconds. The first card swipe is the administrator card. After swiping the card, the outdoor station will beep, indicating that the Admin card is successfully registered.

Note: If the administrator card is not registered **within 60 seconds**, the backlight of the audio module stops flashing and becomes permanently on, indicating that the registration card mode has been exited.

- Card Registration Mode

In standby mode, swipe the administrator card once to enter the card registration mode. If you swipe another card **within 15 seconds**, the door station will beep 3 times; if it exceeds 15 seconds, the door station will beep 3 times and the system will automatically exit to idle mode; swipe the card again to enter the continuous registration user card mode.

- Continuously register user cards (in this state, the ring indicator and the audio module backlight flash once every 3 seconds)

In the card registration mode, swipe the administrator card once, the outdoor station

beeps, and then enters the continuous user card registration mode. Within the response time of 15S, you can swipe the card to register the user card:

- ①If the user card is successfully registered, the outdoor station will prompt long time beep and restart the timer, and you can continue to register other user cards;
- ②If the user card registration fails, the outdoor station beeps **3** times shortly and restarts the timer;
- ③If there is no operation for more than 15 seconds, the outdoor station will beep briefly and the system will automatically exit to idle state.

After registration is complete, swipe the administrator card again to exit to idle state.

- Continuously delete user cards (in this state, the ring indicator and the audio module backlight flash twice every 3S)

In the card registration mode, swipe the administrator card twice, the outdoor station beeps twice, and then enters the continuous deletion of user cards mode. Within the response time of 15S, you can swipe the card to delete the user card:

- ①If the user card is deleted successfully, the outdoor station will prompt a long time beep and restart the timer, and can continue to delete other user cards;
- ②If the user card deletion fails, the outdoor station beeps **3** times shortly and restarts the timer;
- ③If there is no operation for more than 15 seconds, the outdoor station will beep briefly and the system will automatically exit to idle state.

After the deletion is complete, swipe the administrator card again to exit to the idle state.

- Continuously register the administrator card (in this state, the ring indicator and the audio module backlight flash 3 times every 3S)

In the card registration mode, swipe the administrator card **3** times and the outdoor station beeps 3 times, which means it enters the continuous administrator card registration mode. Within the response time of 15S, you can swipe the card to register the administrator card:

- ①If the administrator card is successfully registered, the outdoor station will beep and restart the timer, and you can continue to register other administrator cards;
- ②If the administrator card registration fails, the outdoor station beeps **3** times and restarts the timer;
- ③If there is no operation for more than 15 seconds, the outdoor station will beep briefly and the system will automatically exit to idle state.

After registration is complete, swipe the administrator card again to exit to idle state.

- Continuously delete the administrator card (in this state, the ring indicator and the audio module backlight flash 4 times every 3 seconds)

In the card registration mode, swipe the administrator card **4** times, the outdoor station beeps 4 times, and then enters the continuous deletion mode of the administrator card. The administrator card can be deleted by swiping the card within 15S:

- ①If the administrator card is deleted successfully, the outdoor station will prompt long

time beep and restart the timer, and can continue to delete other administrator cards;  
 ②If the administrator card fails to be deleted, the outdoor station will beep **3** times and restart the timer;

③If there is no operation for more than 15 seconds, the outdoor station will beep and the system will automatically exit to idle state;

After the deletion is complete, swipe the administrator card again to exit to the idle state.

- Delete all user cards (in this state, the ring indicator and the audio module backlight flash 3 times every 3S)

In the card registration mode, swipe the administrator card **5** times, the outdoor station beeps 10 times, and then enters the mode of deleting all user cards. Within the response time of 15S, swipe the administrator card to delete all user cards:

①If the deletion is successful, the outdoor station will prompt a long time beep and the system will automatically exit to idle state;

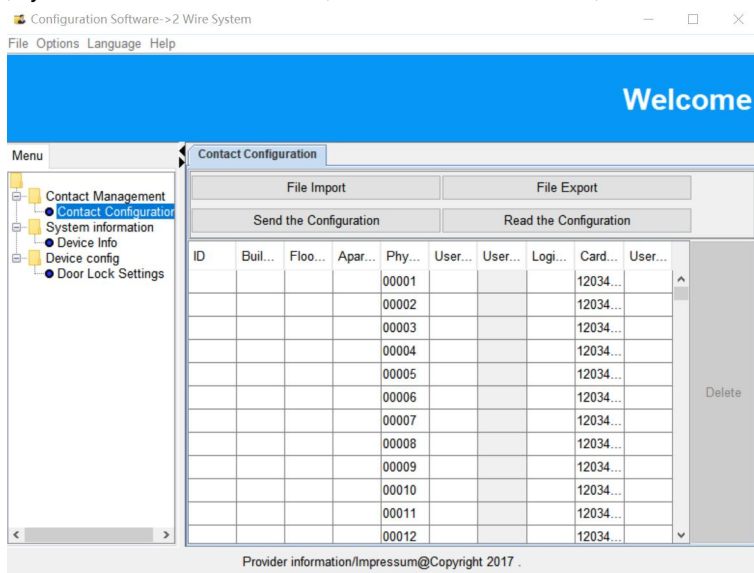
②If the deletion fails (wrong card is swiped), the outdoor station beeps 3 times and the system automatically exits to idle state;

③If there is no operation for more than 15 seconds, the outdoor station will make a short beep and the system will automatically exit to idle state.

Note: Administrator card + user card  $\leq$  **200** cards.

### 4.3.2 PC

Using the Configuration Software tool, you can import cards in batches, export cards in batches, synchronize cards to devices, read cards from devices, and delete cards.





## 4.4 Door status detection

- Open

The door status detection function is closed by default. Short-circuit GS and GND for more than 30 seconds to open the door status detection.

Note: After the device is powered off, it will default to closed door status detection.

- Trigger

The door status detection function has been enabled. If the door is open for 120 seconds, the outdoor station will sound a door open timeout alarm, which will not stop until the door is closed.

## 4.5 Restore factory settings

Turn off the power of the outdoor station, then turn it on again within 60 seconds, set the "outdoor station number dial" to 00, and long press any call button. If you hear a long "beep", the factory settings are restored successfully. If you hear three "beep, beep, beep" prompts an error, the factory settings restoration failed.

Note: After restoring the factory settings, the user card and administrator card will be cleared.

## 4.6 Prompt sound

Use the browser to access the general configuration of the device: <http://tools.gvs-icloud.com/#/>. Enter the <Voice Prompt Packaging Tool> interface, upload the corresponding .wav format file for "Unlock, Call, Talk, Busy", click <Generate File>, generate a bin file, and burn the audio file (flash burning tool) to the device.

- Unlock: Voice prompt when the outdoor station is unlocked.
- Call: Voice prompt when the outdoor station calls the indoor monitor.
- Talk: Voice prompt when the outdoor station calls the indoor monitor and the indoor monitor answers; Voice prompt when the indoor monitor monitors the outdoor station and actively transfers the call.
- Busy: Voice prompt when the outdoor station calls the busy/offline indoor monitor; Voice prompt when the outdoor station calls the indoor monitor and the indoor monitor hangs up; Voice prompt when the outdoor station calls the indoor monitor and the call is not answered after ringing for 30S.

