Outdoor Station

Outdoor Station with 7” Touch Panel
Attentions

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

   ![Warning symbols]
   - Away from magnetic field
   - Away from high-temp
   - Prevent moisture

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

   ![Warranty]
   - Handle with care

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

   ![Warranty]
   - Wipe with care

4. Please do not disassemble the devices.
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Unit 1 Overview

This product is an outdoor station of 2 wire analog video door phone system. It is connected with indoor stations in the system by 2 core wire. And it supports access control with IC card.

1.1 Functions and Characteristics
- Support video intercom and unlocking
- Support real-time monitoring
- Door status detection, and unlock state timeout alarm
- Tamper Alarm
- Support IC card
- Support external camera

1.2 Parameters

Working Parameters
- Working Voltage: DC 24~32V
- Static Current: ≤ 90mA (DC 30V)
- Working Temperature: -25℃ ~ 55℃
- Working Current: ≤ 400mA (DC 30V)
- Storage Temperature: -40℃ ~ 70℃
- Dimension(W/H/D): 363×328×148.5mm

Camera
- Camera Type: CMOS
- Pixel: 30W
- View Angle: Diagonal 70°×50°
- Min. Illumination: 0.1 lux
- Focal Length: 2.5mm
- Fill-in Light Type: white
- Adjustable Angle: up/down/left/right 10°
Unit 2 Appearance and Interface

2.1 Appearance

Front View
- Aluminium Panel
- Camera
- Fill-in Light
- MIC
- Touch Display Zone
- Card Reading Area
- Speaker

Rear View
- Angle adjustment
- Wire Connecting Area
2.2 Dimension

- Width: 148.5 mm
- Height: 328.0 mm
- Depth: 363.0 mm
- Top: 47.0 mm
- Bottom: 8 mm
2.3 Interface Introduction

① Network interface (1: TX+, 2: TX-, 3: RX+, 4: RX-)
② DC+GND: Independent power supply input
③ Unlock time adjustment, please check “4.6 unlock time setting”
④ External camera
⑤ Outdoor station address (ADD) setting, please check “4.8 ADD setting”
⑥ BUS-A,BUS-B: BUS interface
   NO,COM,NC: Normally open pin, common pin, normally closed pin
   GS: Door status detection
   DOOR SW: Door unlock switch inside
   GND: Common ground
⑦ Lock mode: Power supply for external electronic lock
Unit 3 Installation
3.1 Installation Height

Suggested height for installation: camera is 1.6m above the ground
**3.2 Installation Steps**

Step 1: Put the embedded box into the preformed groove. After getting the cable out through the opening, fasten the box with screws or by cement. Dimensions of embedded box are as below:

![Dimensions Diagram]

Step 2: After connecting the cable to the outdoor station, match the snap slot of the outdoor station to the snap of embedded box and press the outdoor station into the box.

![Snap Slot Diagram]
3.3 System Wiring

Remarks:
1. The maximum quantity is: 1pc outdoor station+32pcs distributor+128pcs indoor station;
2. Support multiple indoor monitors(maximum Qty is 4pcs) in one apartment, address of all indoor monitors in one apartment should be same.
**Attention:** When there's multiple monitors in one apartment, only one can be set as main indoor monitor, otherwise there will be an overcurrent. Please check the interface introduction for how to set a main indoor monitor.
3. When there're multiple indoor monitors in one apartment and after they are called, all indoor monitors will ring at the same time but only the screen of the main indoor monitor is turned on, and after one of the monitors pick up the call, all monitors hang up.
4. Power supply is limited, so only 2 monitors are allowed to be operated at the same time (monitor quantity on intercom function is not limited).
5. Wiring method with distributors(Star wiring) on above picture, Bus wiring(Hand in hand wiring) shown as right part of above picture are recommended.
6. Wiring distance A is the maximum length between outdoor station to power supply. Wiring distance B is the total length from power supply to the last indoor monitor. Wiring length of different kinds of wire is as below:

<table>
<thead>
<tr>
<th>Specification</th>
<th>(A+B) length/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>RVV 2*0.75mm²</td>
<td>110</td>
</tr>
</tbody>
</table>
Unit 4 Operation Instructions

4.1 Factory Reset
Within 60s after powering the outdoor station, turn the address switch to 0, in the meantime, long press the unlock switch (DoorSW and GND in short circuit) for 3 seconds, after a long beep sounds from outdoor station, factory reset is done. After factory reset, all user’s cards and admin cards will be clear.

4.2 Card Registration

- Registration for admin card
Power the outdoor station after factory reset, the first swiped card within 60 seconds will be the admin card. After a short beep from outdoor station, the admin card is registered.

- Card Registration Mode
In standby mode, swipe the admin card to enter card registration mode, there will be a long beep from outdoor station. In 15 seconds, swipe the admin card again will enter continuously registration mode. There will be 3 times of short beep if the swiped card is not the admin card. After 15 seconds without any operation, there will be 3 times of short beep and the outdoor station will return to standby mode.

- Continuously Card Registration Mode
In card registration mode, swipe the admin card and after a beep, it will enter continuously card registration mode. In 15 seconds, user card can be registered:
  ① If card is registered successfully, outdoor station beeps and timing restarts, new user card can be registered;
  ② If card registration fails, outdoor station will beep 3 times and timing restarts.
  ③ If there’s no operation for 15 seconds, it will return to standby mode.
After registration is finished, swipe the admin card then it will return to standby mode.

- Continuously Card Deletion Mode
In card registration mode, swipe the admin card twice, outdoor station beeps twice, it will enter continuously card deletion mode. In 15 seconds, user card can be deleted:
  ① If card is deleted successfully, outdoor station will beep once and timing restarts, then more cards can be deleted;
  ② If card deletion fails, outdoor station will beep 3 times then timing restarts.
③ If there's no operation for 15 seconds, outdoor station beeps and return to standby mode.

After card deletion is finished, swipe the admin card then it will return to standby mode.

- **Continuously Registration Mode for Admin Cards**
  In card registration mode, swipe admin card 3 times, outdoor station beeps 3 times, then enters continuously registration mode for admin cards. In the following 15 seconds, admin card can be registered by swiping.
  ① If admin card is registered successfully, outdoor station beeps and timing restarts, more admin card can be registered;
  ② If admin card registration fails, outdoor station beeps 3 times and timing restarts;
  ③ If there's no operation for 15 seconds, the outdoor station beeps and returns to standby mode.

After registration, swipe the admin card then it returns to standby mode.

- **Continuously Deletion Mode for Admin Cards**
  In card registration mode, swipe admin card 4 times, outdoor station beeps 4 times, then it will enter continuously deletion mode for admin card. In 15 seconds, admin card can be deleted by swiping.
  ① If admin card is deleted successfully, the outdoor station beeps and timing restarts, more admin card can be deleted;
  ② If admin card deletion fails, outdoor station beeps 3 times and timing restarts;
  ③ If there's no operation for 15 seconds, the outdoor station beeps and returns to standby mode.

After deletion, swipe the admin card then it returns to standby mode.

- **Delete All User Cards**
  In card registration mode, swipe admin card 5 times, the outdoor station beeps 10 times, then it will enter delete all mode.
  ① If delete all user cards successfully, outdoor station beeps and returns to standby mode;
  ② If deletion of all user cards fails (or swipe the wrong card), outdoor station beeps 3 times and return to standby mode;
  ③ If there's no operation for 15 seconds, outdoor station beeps and returns to standby mode.

**Note:**

Quantity of Admin card + User card ≤ 200pcs

### 4.3 Calling Resident

By short press the keypad of the outdoor station, visitor starts to call indoor monitor and enter calling request interface for 3 seconds, ringtone of indoor monitor echoes back. If there's no answer for 3 seconds, outdoor station beeps 3 times.
4.4 Door Status Warning
With this function, there will be alarm warning if there’s overtime door open status (more than 120 seconds).

4.5 Tamper Alarm
With this function, if there’s external force tampering the outdoor station, there will be alarm warning that outdoor station is under tampering.

4.6 Unlock time setting
There is an adjustable potentiometer on the back side of the outdoor station (③), unlock time can be adjusted by ratio of 180° from 1 second to 10 seconds, lengthen in anticlockwise direction, shorten in clockwise direction.

4.7 Unlock
1) By swiping card: Swipe the registered card then unlock the door.
2) By Indoor monitor: Door can be opened by indoor monitor when it’s communicating with outdoor station or under surveillance mode.
3) External push button unlock: As there’s interface for integration of external push buttons, when connected, a normal push button can be used to unlock the door.

4.8 ADD setting
There is a dialer at the back of the outdoor station (③), the method of setting is as below:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>ADD</td>
</tr>
<tr>
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<td>OFF</td>
<td>0</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>1</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>2</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: It enters setting mode when ADD is 0.