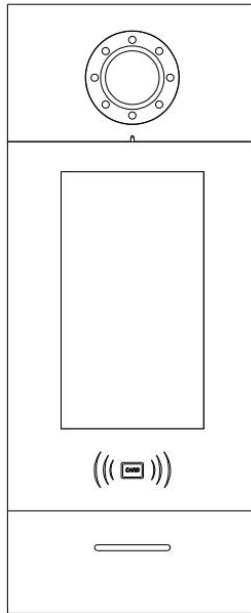


Outdoor Station



**T - series 7 inch Touch Screen Outdoor Station
User Manual_V1.0**

T-OS02E

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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Unit 1 Overview

This product is an Outdoor Station of 2-Wire analog video door phone system, it makes communication with Indoor Monitor via 2-core cable in the system, the Outdoor Station also 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
- Support tamper alarm
- Support IC Card
- Support connecting external camera

1.2 Parameters

Working Parameter

Working Voltage: DC 24~32V

Static Current: $\leq 90\text{mA}$ (DC 30V)

Working Temperature: $-25^{\circ}\text{C}\sim 55^{\circ}\text{C}$

Working Current: $\leq 400\text{mA}$ (DC 30V)

Storage Temperature: $-40^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Dimension(W/H/D): 363×148.5×47mm

Camera

Type: CMOS

Resolution: 30W

View Angle: Diagonal $70^{\circ}\times 50^{\circ}$

Min. Illumination: 0.1 lux

Focal Length: 2.5mm

Fill-in Light: white

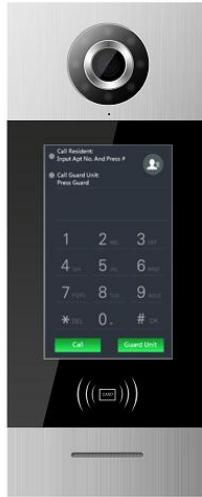
Adjustable Angle: up/down/left/right 10°

Unit 2 Appearance and Interface

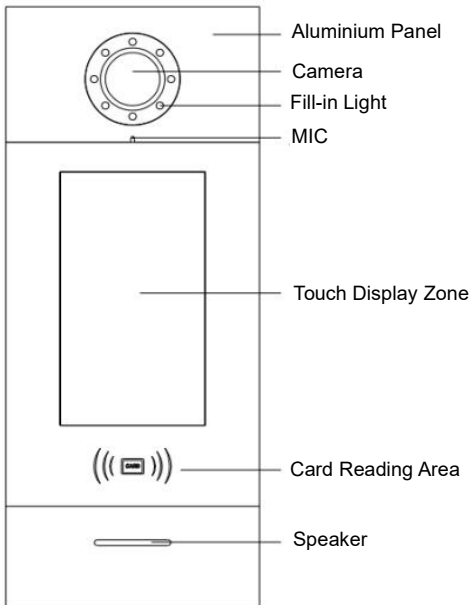
2.1 Appearance



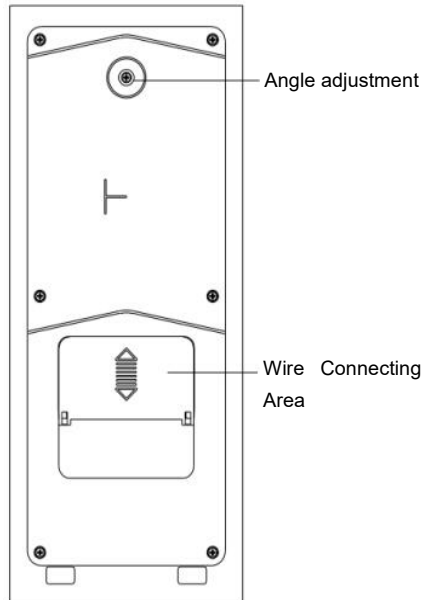
Push Button Mode



Keypad Mode

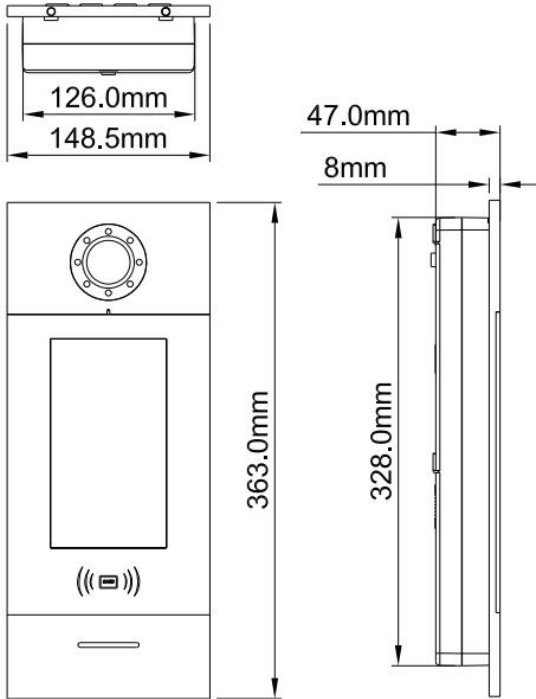


Front View

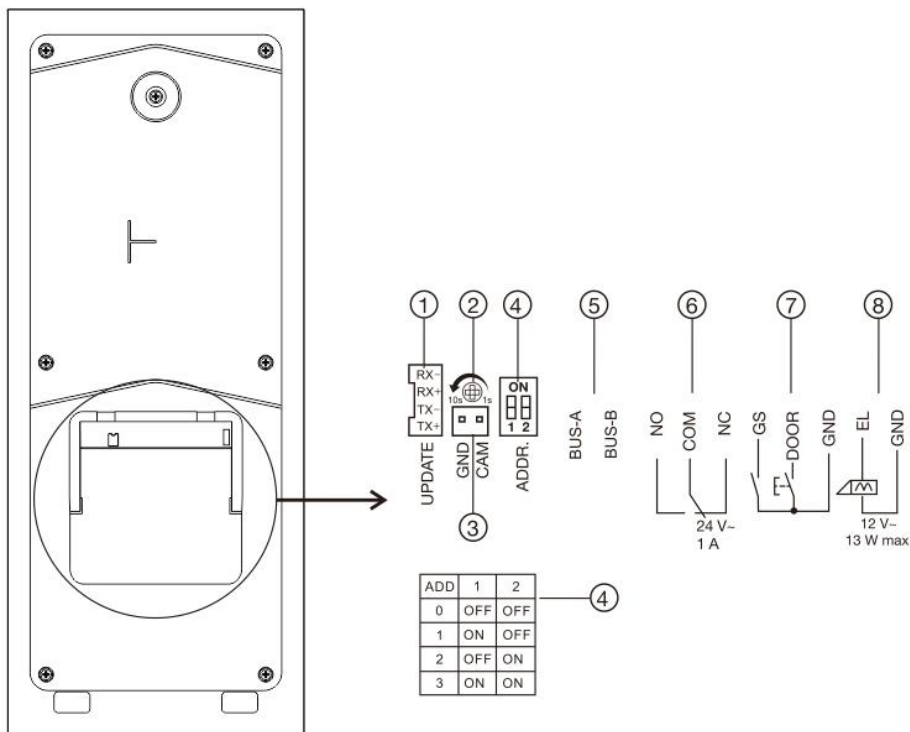


Rear View

2.2 Dimension



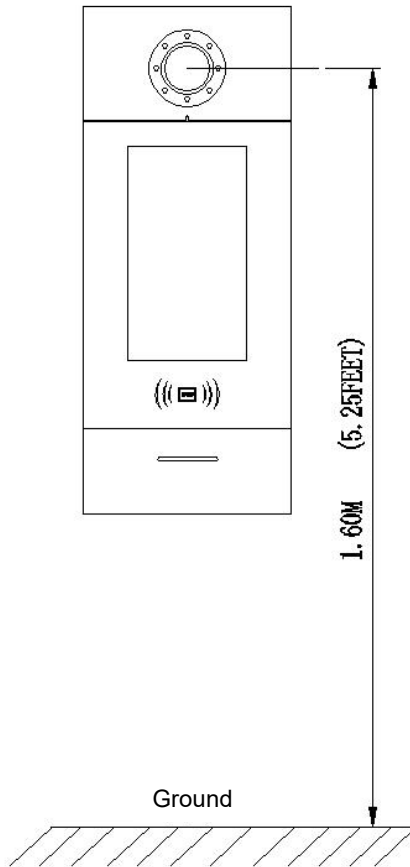
2.3 Interface Introduction



- ① Network(update) Interface (1: TX+ , 2: TX-, 3: RX+, 4: RX-);
- ② Unlock time adjustment: please check “6.4 unlock time setting”;
- ③ External camera;
- ④ Outdoor station address (ADD) setting, please check “6.5 ADD setting”;
- ⑤ BUS-A, BUS-B: 2-Wire BUS interface;
- ⑥ NO, COM, NC: Normally open pin, Common pin, Normally closed pin;
- ⑦ GS: Door status detection;
DOOR SW: Door unlocking switch;
GND: Common ground;
- ⑧ EL: Electric control lock;
GND: Common ground.

Unit 3 Installation

3.1 Installation Height

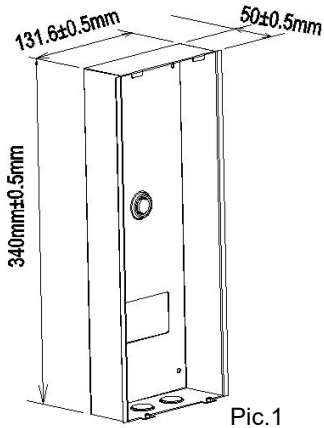


Suggested height for installation: camera is 1.6m above the ground

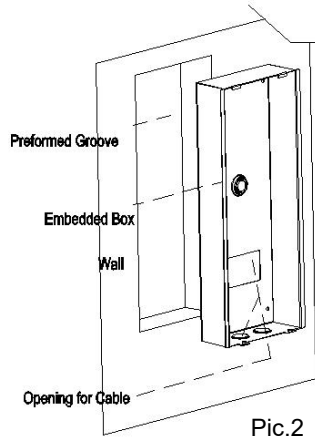
3.2 Installation Steps

Step 1: Put the embedded box into the preformed groove (as Pic.2). After getting the cable out through the opening, fasten the box with screws or by cement.

Dimensions of embedded box are as below:

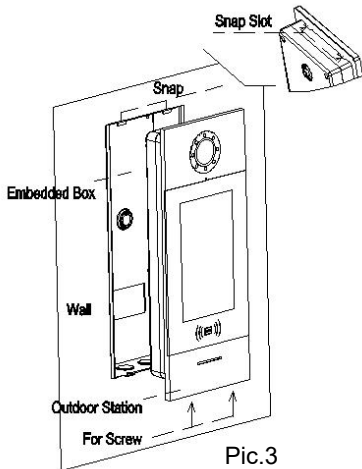


Pic.1

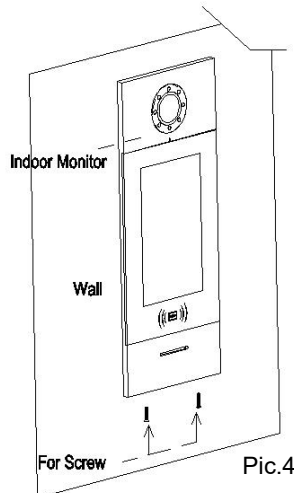


Pic.2

Step 2: After connecting the cable to the Outdoor Station (as Pic.3), match the snap slot of the Outdoor Station to the snap of embedded box and press the outdoor station into the box, then fasten the Outdoor Station to the box with screws (as Pic.4).

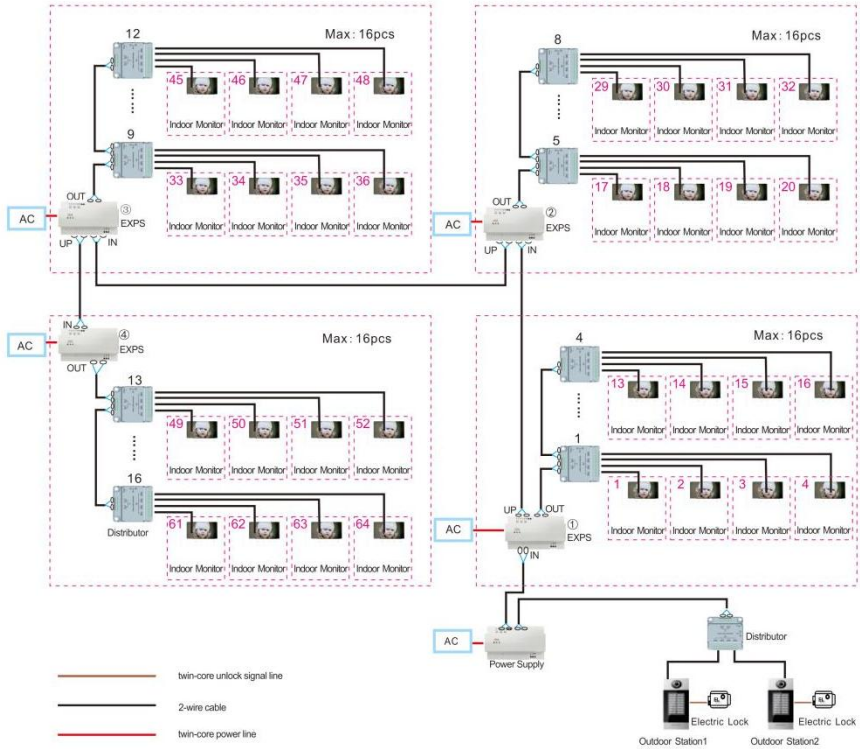


Pic.3



Pic.4

3.3 System Wiring



Remarks:

① System capacity: 1 System Power Supply + Outdoor Station(Max: 4) + Distributor(no limited) + Indoor Monitor(Max: 200 apartment) + Extended Power Supply(MAX: 16);

② Support multiple Indoor Monitors(Max. 4pcs) in 1 apartment, address of all the Indoor Monitors in one apartment should be same;

Attention: In case of over current, only 1 Indoor Monitor can be set as master within 1 apartment. Detailed setting refer to the interface introduction of Indoor Monitor.

③ In the case of having multiple Indoor Monitors in 1 apartment, all Indoor Monitors will ring when they are being called, but only the master Indoor Monitor screen will turn on. If one Indoor Monitor takes the call, the others will hangup automatically;

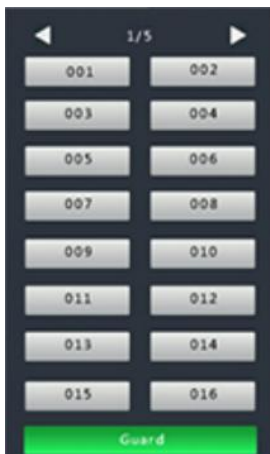
- ④ Restricted by the power consumption, the system only allows 2 Indoor Monitors turn on the screen (being operated) at the same time (intercom function is not affected);
- ⑤ Distributor is recommended for system wiring (star wiring topology), while Bus topology (hand In/ Out connection) is supported as well;
- ⑥ If the external electric lock needs to take power from Outdoor Station, then Outdoor Station itself must connect the power through the external power supply port, only in this way the power can be given from **lock mode interface**;
- ⑦ Wiring distance A is the Max. Length from Outdoor Station to Power Supply, wiring distance B is the total length from Power Supply to the last Indoor Monitor, wiring length of different types of cable are shown as below;

Specification	(A+B)length/m
RVV 2*0.75mm ²	160

Unit 4 Operation Instructions


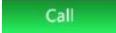
4.1 Call In Push Button Mode

In standby state of push button mode, visitors can directly press the name tag(001~200) to make the call, and the device will enter calling interface with ringback. If no answer from the resident within 3s, it will return to standby state with 3 rapid “Beep”.



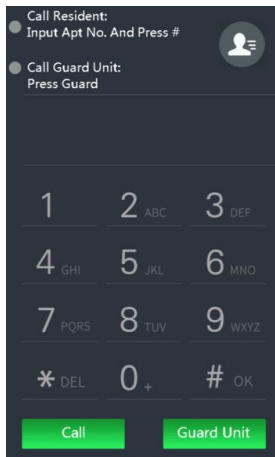
Standby state of push button mode

4.2 Call In Keypad Mode

In standby state of keypad mode, visitors can input apartment No. and then press  or  to make the call, and the device will enter calling interface with ringback.

If Indoor Monitor is offline, it will return to the standby interface with “Beep” rapidly in 3 times.


If Indoor Monitor is online, it will begin the calling count down and start to play the ringback.

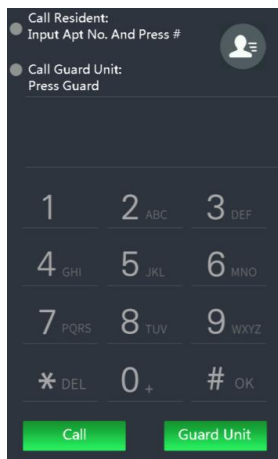


Standby state of Keypad mode

Remark: The device is using Push button mode as default, users can set DIP Switch as backside to be 0 and input the correct password to enter configuration setting for mode switching. Detailed call mode setting refer to page 18.

4.3 Name list In Keypad mode

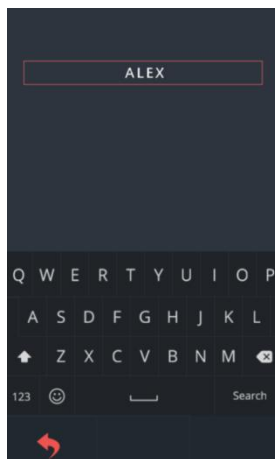
In standby state of keypad mode, visitors can press  to show the name list (list needs to be imported by PC configuration tool in advanced).





Standby state of Keypad mode



Name list Interface



Name searching Interface

Visitors can press the exact name in name list to make the call, or click the **input box** to search the resident's name, when the searching is done, click  or  to trigger the search, make the call by pressing the name.

If the device is online, it will begin the calling count down and start to play the ringback.

4.4 Call Guard Unit

In standby mode, visitors can press  to call Guard Unit.

4.5 Unlock

1) By Swiping Card

Swipe the registered card to the card reading area to unlock the door, and Outdoor Station will show "door opened".

2) By Indoor Monitor


Residents can unlock the door from Indoor Monitor when Outdoor Station is calling or

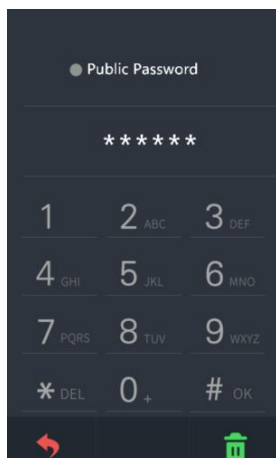
being monitored by Indoor Monitor, and Outdoor Station will show “door opened”.

3) By External Button


There is a interface for integration of external push button, when connected, a normal push button can be used to unlock the door.

4) By Public Password

If this function is activated, residents can press  and wait for 1s to enter public password interface.





Public Password Unlock Interface


In public password interface, input public password and press  to unlock the door.

Remark: 1. Default Setting for Public Password Unlock function: Deactivate

2. Default Public Password: 666666

5) By User Password

If User Password Unlock function is activated, residents can press   and wait for 1S to enter public password interface.

In User Password interface, input Apartment No. and related password, then press  to unlock the door.

Remark: User password needs to be imported by PC configuration tool, detailed setting refer to PC configuration tool instruction.

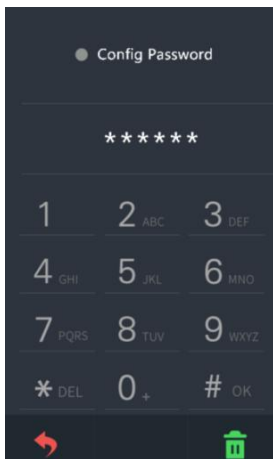
Unit 5 Settings

5.1 Setting Login Interface

In standby mode, users can press **# OK** *** DEL** to enter setting login interface.


Default configuration password: **801801**.

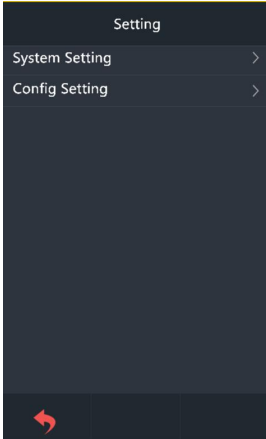
Remark: Users can also enter setting login interface by swiping administrator card.



Setting Login Interface

5.2 Main Setting Interface

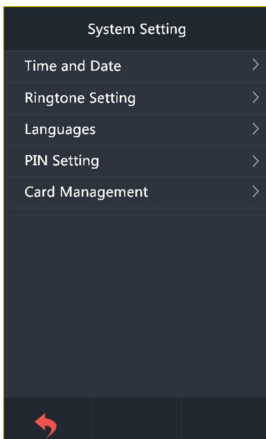
After inputting the correct configuration password and , main setting interface is shown as below:



Main Setting Interface





Unit 6 System Settings

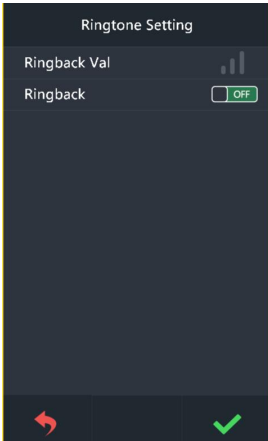
System setting includes Time Setting(reserved), Ringtone Setting, Languages, PIN and Card Management.



System Setting Interface



6.1 Ringtone Setting

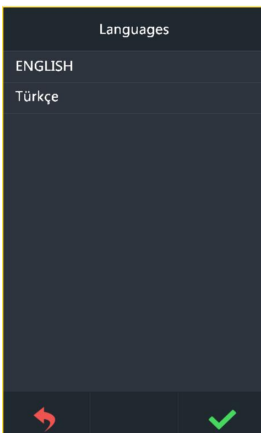
Ringtone setting interface is shown as below, users can press  to adjust volume, press  to turn on / off mute function. After setting is done, press  to save and press  to return last page.



Ringtone setting Interface




6.2 Language Setting

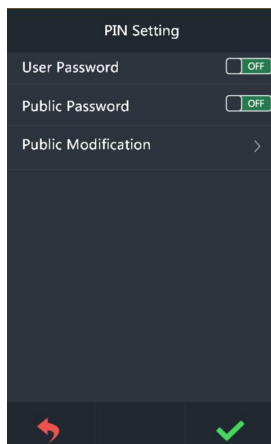
Language setting interface is shown as below, users can select the language and press  to confirm, press  to return last page.



Language Setting Interface

6.3 PIN Setting

Password setting includes: User Password, Public Password and Public Password Modification. Users can press  to turn on / off unlocked by user password or unlocked by public password. Press  to confirm or press  to return last page.



PIN Setting Interface

6.4 Unlock Time Setting

There is an adjustable potentiometer on the back side of the outdoor station(No.③), unlock time can be adjusted by ratio of 180°from 1 second to 10 seconds, lengthen in anticlockwise direction, shorten in clockwise direction.

6.5 ADD Setting

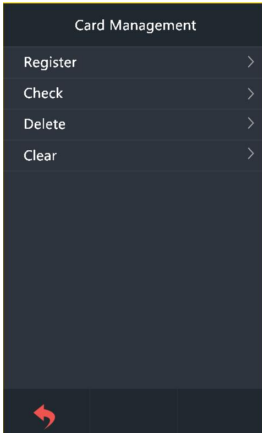
There is a DIP SWITCH at the back of the outdoor station(⑤), the method of setting is as below:

1	2	ADD
OFF	OFF	0
ON	OFF	1
OFF	ON	2
ON	ON	3




Note: It enters setting mode when ADD is 0.

6.6 Card Management

Card management includes register, check(card information), delete, clear(delete all).





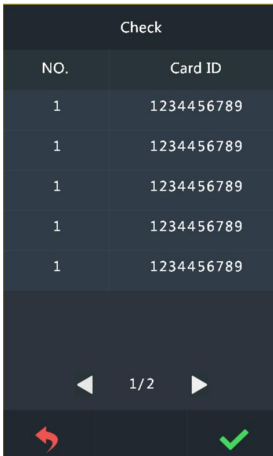
Card Management Interface

Swipe a card or input the card number to register, after registering finished, press  to confirm, or press  to return last page. While inputting card number, users can press  to delete each number. The operation of card deletion is same as card registration.

Remark: Capacity of registered card: 2000 cards maximum

Users can enter "check(card information)" to check all card numbers and the quantity of registered cards.



Press   to page up/down the card numbers.



NO.	Card ID
1	1234456789
1	1234456789
1	1234456789
1	1234456789
1	1234456789

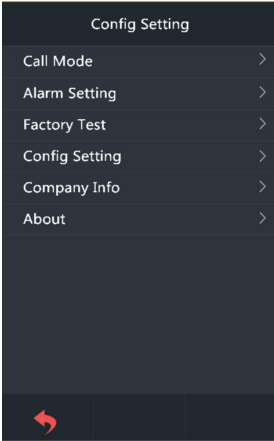
Card Information Interface

If you choose **Clear**, a message will pop-up to confirm the operation(delete all), press

 to confirm the operation, or press  to return last page.

Unit 7 Configuration Setting

Configuration setting includes Call Mode Setting, Alarm Setting, Factory Test, Configuration Setting, Company Info(reserved) and Device info. Users can press each icon to enter a particular setting.



Configuration Setting Interface


7.1 Call Mode Setting

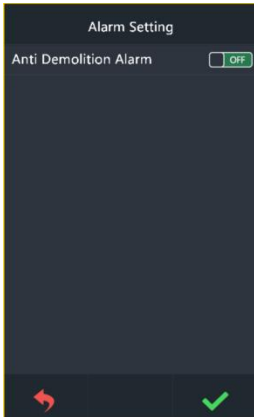
Call Mode Setting interface is shown as below, users can choose each of the dialing method by pressing their icon, then press  to confirm and the call mode is set.



Call Mode Setting Interface

7.2 Alarm Setting

Alarm setting interface is shown as below, users can press  to turn on/off anti demolition alarm. The alarm will ring when Outdoor Station is being disassembled by external force.



Alarm Setting Interface

7.3 Door Status Detection

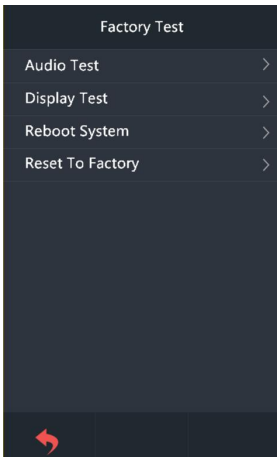
With this function, there will be alarm warning if there's overtime door open status(more than 120 seconds).

7.4 Factory Testing

There are various testing programs on factory testing interface, most frequently used are "Reboot System " and "Reset To Factory".

When choosing "Reboot system", choose "confirm" on pop-up box to restart system.

When choosing “Reset To Factory”, choose “confirm” on pop-up box to restore the system as factory setting, using push button mode, all settings (For example the device properties , volume etc.) will be restored as factory setting.



Factory Test Interface

Remark:

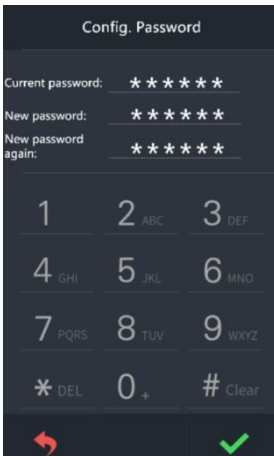
- 1.Resetting device within 60s after power on, all data will be erased (name list, card list, private unlock password);
Resetting device after 60s since power on, it will only restore factory setting.
- 2.After resetting, the first registered card will be treated as Admin card.

7.5 Configuration Password

To change the configuration password: input the current password, move to new password box for entering new password.

If entering the new password you input correctly twice, it will save the modification.

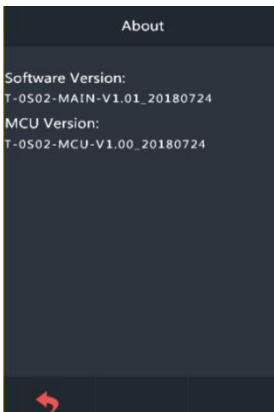
Password number limitation: 6 digits.



Configuration Password Interface

7.6 Device Information

In device information interface you can find the version of software and MCU.



Device Information Interface