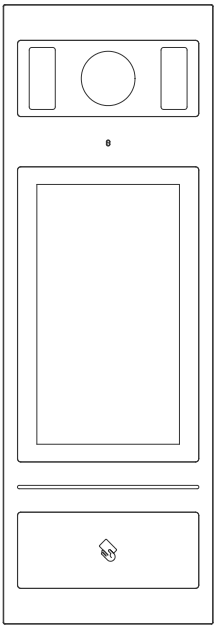
User Manual

Outdoor Station



7” Touch Panel Outdoor Station T-OS14E

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 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)：365×125×44.6mm

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

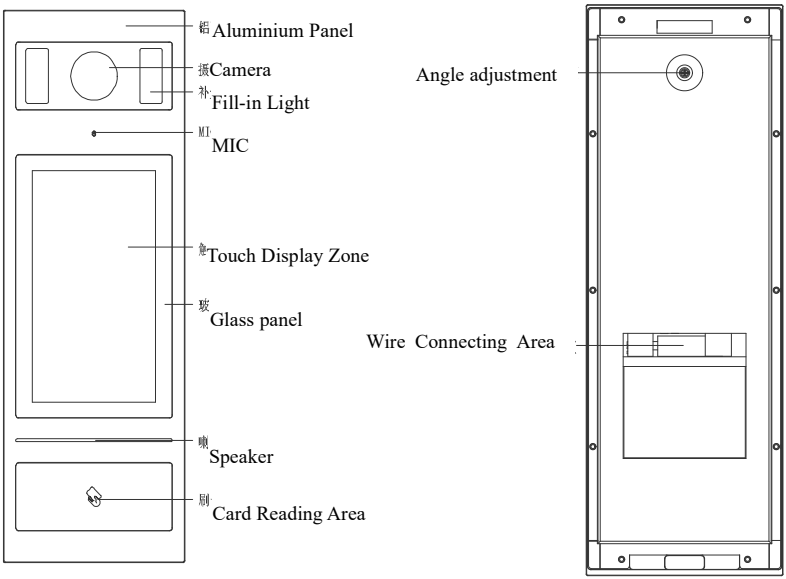
Adjustable Angle：up/down/left/right 10°

Unit 2 Appearance and Interface

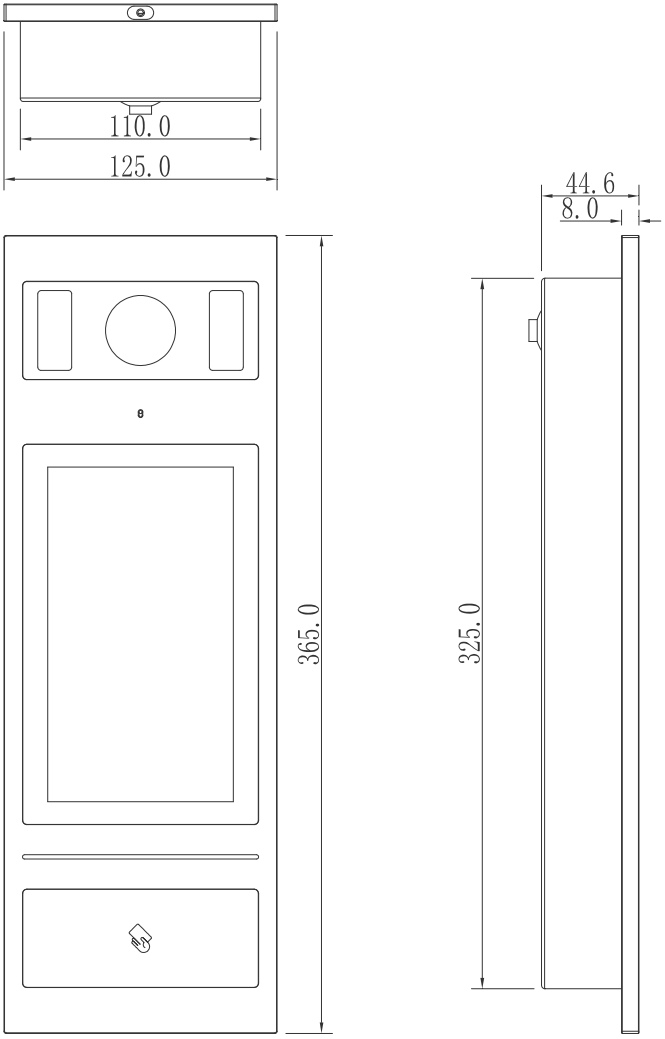
2.1 Appearance

Front View

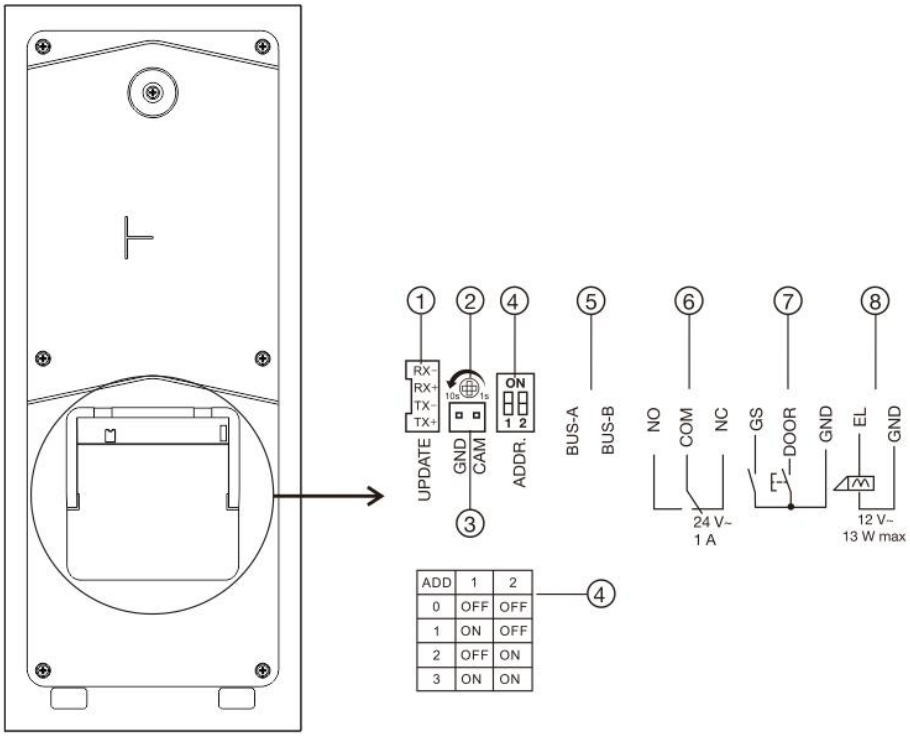
Rear View



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;

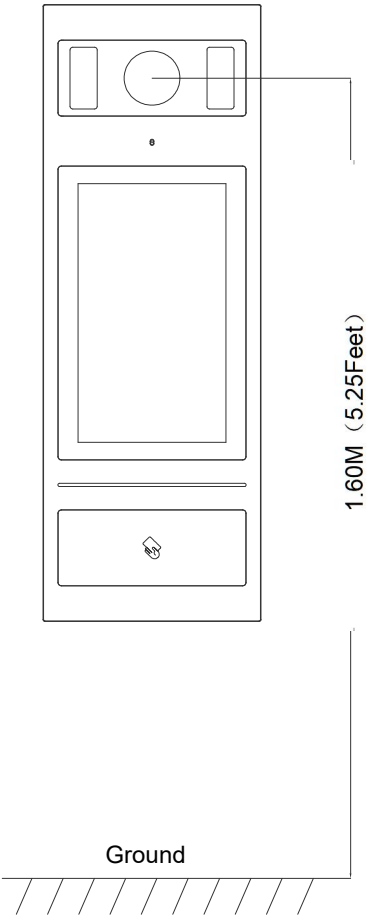
⑥ NO, COM, NC: Normally open pin, Common pin, Normally closed pin;

⑦ GS: Door status detection;
DOOR SW: Door unlocking switch;
GND: Common ground;

⑧ EL: Electric control lock;
GND:Common ground.

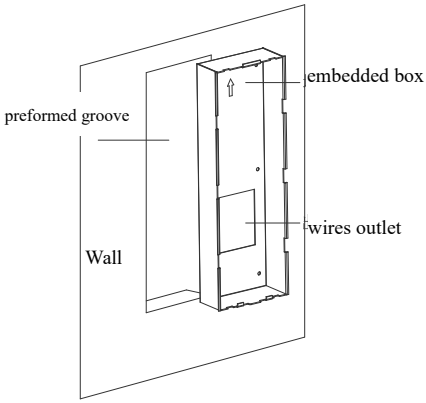
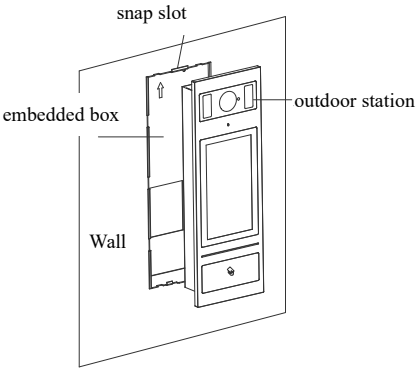
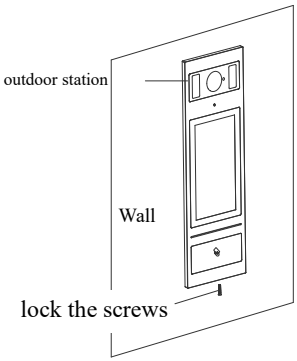
Unit 3 Installation

3.1 Installation Height

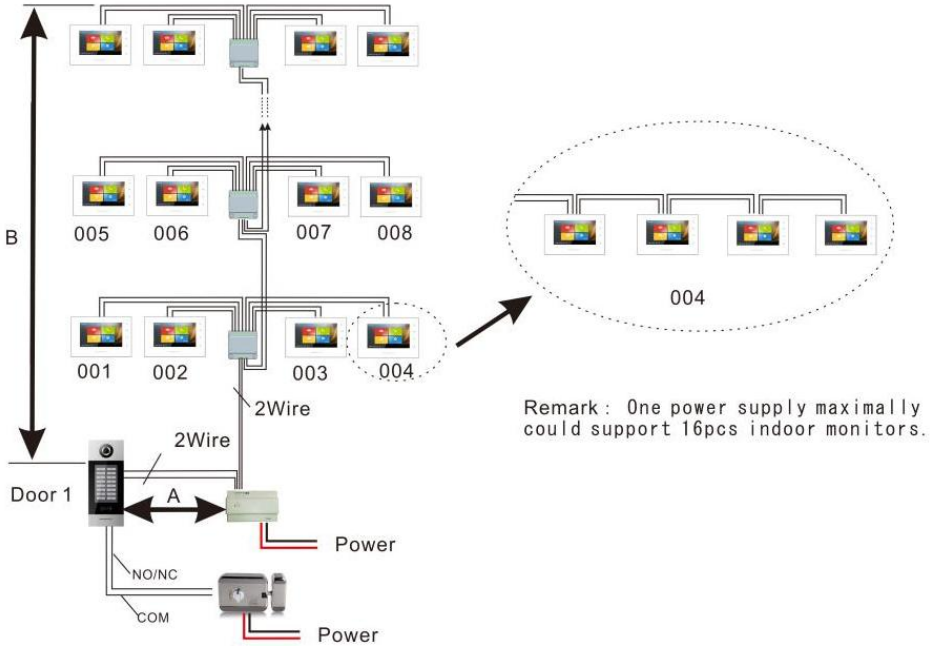


Suggested height for installation: camera is 1.6m above the ground

3.2 Installation Steps

	Step 1: put the embedded box into the preformed groove inside the wall, make the installation cables go through the wires outlet, and fix the embedded box with wall nails or cement.
	Step 2: After connecting the cables with the outdoor station, push the outdoor station into the embedded box. After that, push up the outdoor station to make the snap slot of outdoor station and embedded box match each other.
	Step 3: Lock the screws from the bottom of the outdoor station, tighten the screws to finish the installation.

3.3 System Wiring



Remarks:

1. The maximum quantity is: 1pc power supply+ 1pc outdoor station+4pcs distributor+16pcs 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.

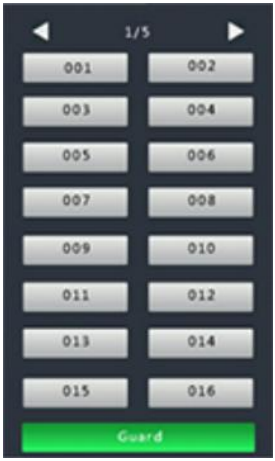
6. Wiring distance A is the maximum length between outdoor station to power supply.Wiring distance B is the total length from power supply to the last indoor monitor. Wiring length of different kinds of wire is as below:

Specification	（A+B）length/m
RVV 2*0.75mm²	110
Twisted pair	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”.



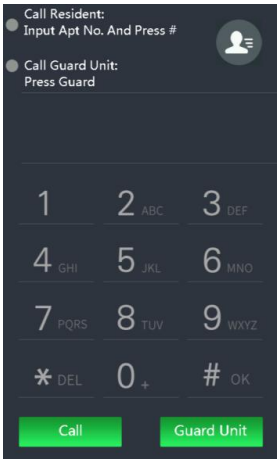
Standby state of push button mode

4.2 Call In Keypad Mode

In standby state of keypad mode, visitors can input apartment No. and then press # OK or Call 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.

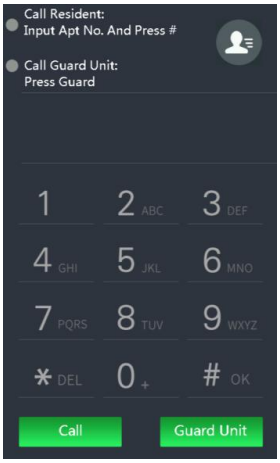


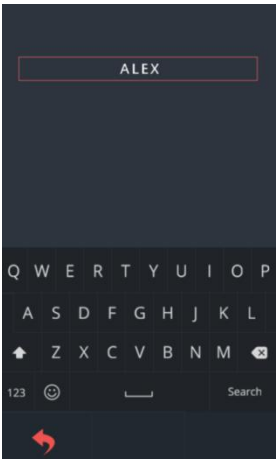
Standby state of Keypad mode

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 the 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

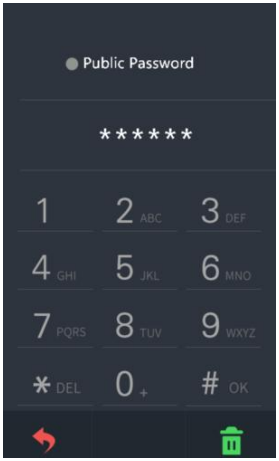
Residents can unlock the door from Indoor Monitor when Outdoor Station is calling or being monitored by Indoor Monitor, and Outdoor Station will show “door opened”.

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 # OK and wait for 1s to enter public password interface.



Public Password Unlock Interface

In public password interface, input public password and press # OK 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 * DEL # OK and wait for 1S to enter public password interface.

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

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

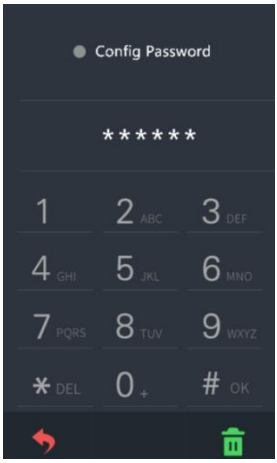
Unit 5 Settings

5.1 Setting Login Interface

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

Default configuration password: **801801**.

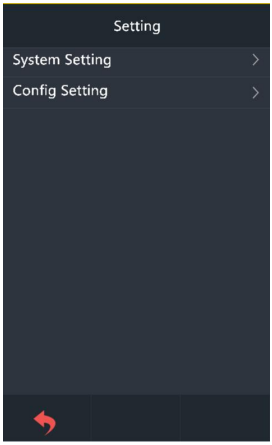
Remark: Users can also enter setting login interface by swiping administrator card.



Setting Login Interface

5.2 Main Setting Interface

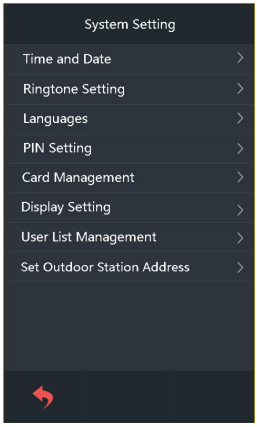
After inputting the correct configuration password and # OK, main setting interface is shown as below:



Main Setting Interface

Unit 6 System Settings

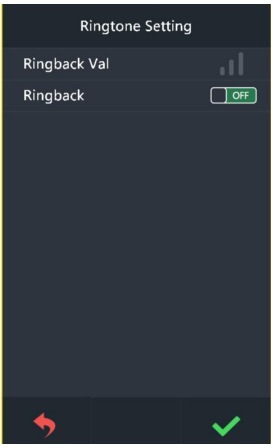
System setting includes Time Setting(reserved), Ringtone Setting, Languages, PIN Setting, Card Management,Display Setting,User List Management and Set Outdoor Station Address.



System Setting Interface

6.1 Ringtone Setting

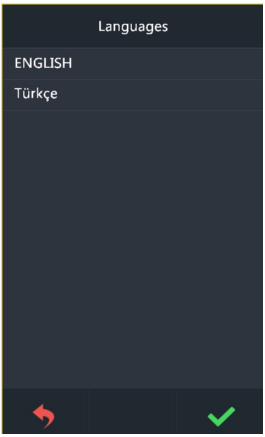
Ringtone setting interface is shown as below, users can press to adjust volume, press OFF to turn on / off mute function. After setting is done, press to save and press to return last page.



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.

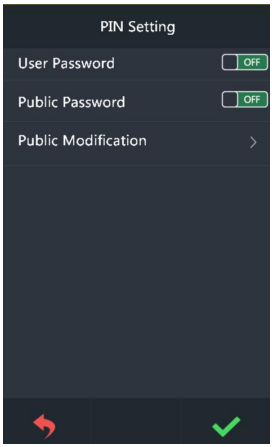


Language Setting Interface

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

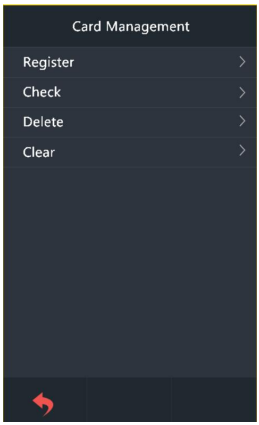
There is a DIP SWITCH at the back of the outdoor station(⑤), the method of setting is as below:

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).



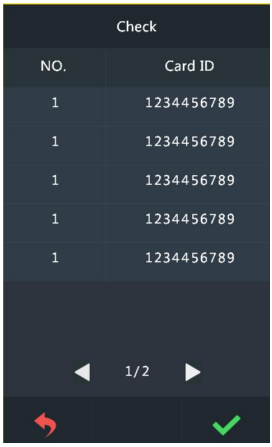
Card Management Interface

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.



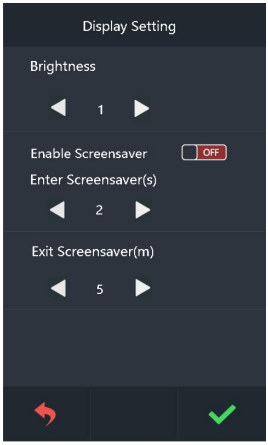
Card Information Interface

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.

6.7 Display settings

The display setting page is divided into four functions : Brightness adjustment, Enabling Screensaver, Entering Screensaver and Ending Screensaver time setting .

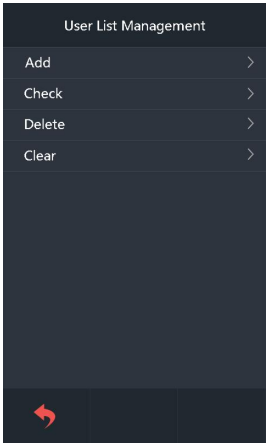
Click to adjust the brightness , enter the screen saver time setting and end the screen saver time setting , switch OFF to set the screensaver on or off . After the adjustment is completed, confirm and click , and click to return to the upper menu.



Display settings interface

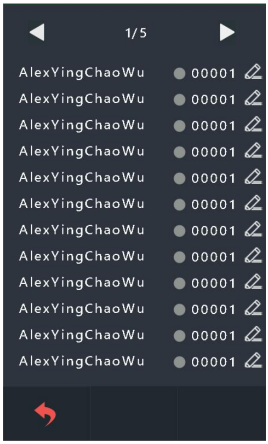
6.8 User list Management

The user list management page is divided into four options: add , confirm , delete, and clear .



User list management interface

Register by entering the room number and user name in the add user interface , and click to confirm after registration, or click to return to the upper menu .



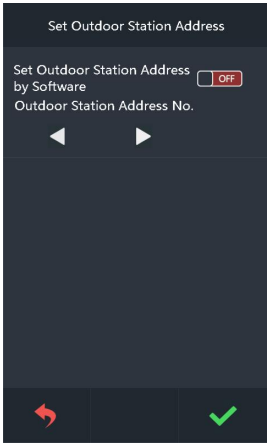
User List Management - Confirmation Interface

In the confirmation user interface, click to edit the name list, modify the room number and user name, and then click to confirm, or click to return to the upper menu . In the delete user interface, delete the list of names by clicking on it. Click Clear to pop up the " Whether to clear the user card " dialog box, click to clear all the added name list , click to return to the upper menu.

6.9 Set Outdoor Station Address

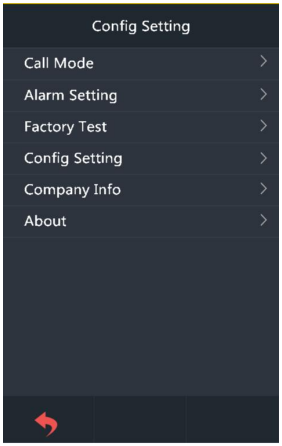
Switch

to enable or disable the function of software setting outdoor station address. Click to set the outdoor station number, and the outdoor station number setting range is 1-9.



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.Currently this model does not support tamper alarm function. The tamper alarm setting in the software is not workable.

Alarm Setting Interface

7.3 Door Status Detection

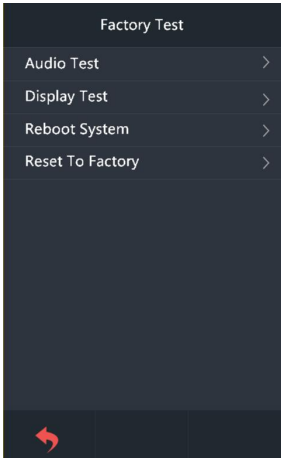
With this function, there will be alarm warning if there's overtime door open status(more than 120 seconds).

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.

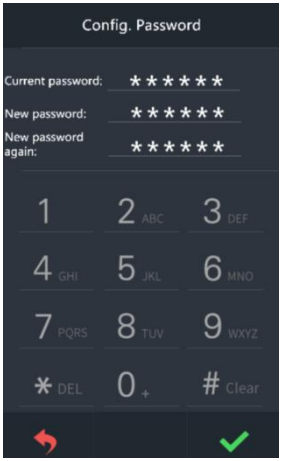
2.After resetting, the first registered card will be treated as Admin card.

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