

Outdoor Station



**Gem Series IP System Outdoor Station User Manual_V1.0
A-OS01S**

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 Overview

The Outdoor station is one of the main parts in digital video door phone system .It's connected with Indoor Monitor, Guard Unit and other devices in the system by standard CAT5 cable. And it supports RFID (IC) access control.

1.1 Functions and Characteristics

- 7" TFT LCD display
- Support IC Card
- Auto fill light with high luminance LED
- Door status detection
- Support normally-closed / normally-opened unlock
- Support face recognition unlock
- Random password unlock and QR code unlock (Cloud intercom APP required, not included in factory settings)

1.2 Parameters

Working Parameters

System:Android 6.0.1

CPU:Allwinner A64 4-Core,Basic Frequency 1.5GHz

RAM:1GB DDR3

ROM:8GB eMMC, Plus to 128GB Via TF Card

Face Storage:10000

Working Voltage: DC 24V

Static Current: ≤ 200mA

(Independent power supply only)

Working Current: ≤ 300mA(not including power supply for unlocking)

Environment Temperature: -25°C ~ +70°C

Humidity: ≤ 95%, no condensation dew

Camera

Camera Type: CMOS

Pixel: 2 Mega Pixels

View Angle: diagonal 123°

Focal distance: 3.5mm

LED: white light

Minimum Illumination: 0 lux

Display

Type: LCD

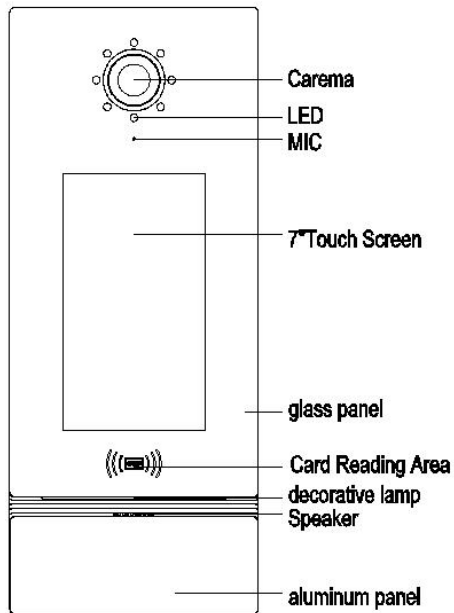
TFT Screen Size: 7"

Resolution: 600×1024

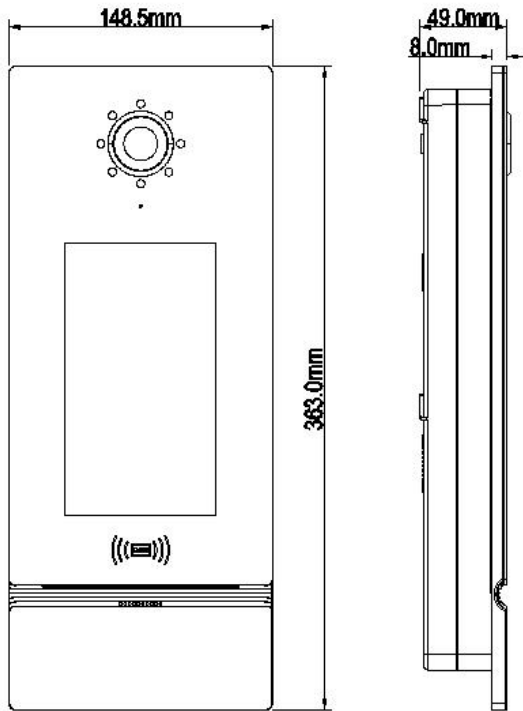
Product Dimension: (W/H/D) 148.5×363×47mm

Chapter 2 Appearance and Interface

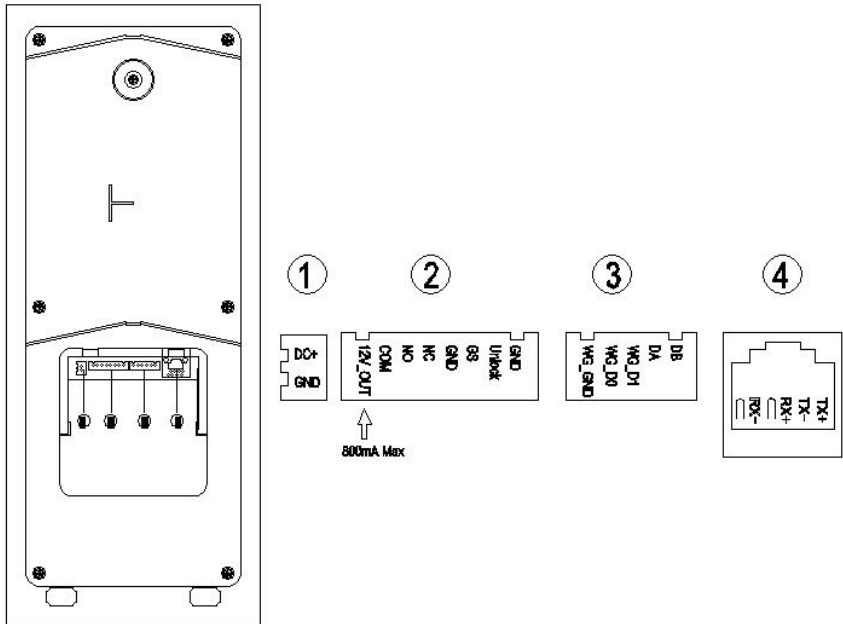
2.1 Front View



2.2 Product Dimension



2.3 Rear View



① Interface for power supply: DC 24V (interface for independent power supply, working voltage DC: 18-30V)

② +12V: Only when the Outdoor Station input voltage > 18V, +12V is given.

COM, NO, NC: Common pin, normally-open pin, and normally-closed pin.

GS: Door status detection.

UNLOCK GND: Unlock Push Button interface.

③ WG-GND, WG-D0, WG-D1: Wiegand interface.

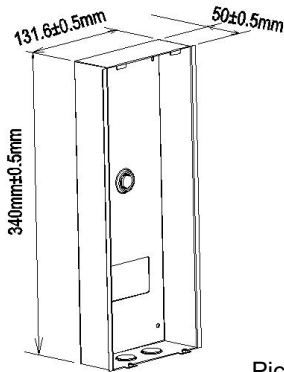
DA, DB: RS485 interface.

④ Network Interface.

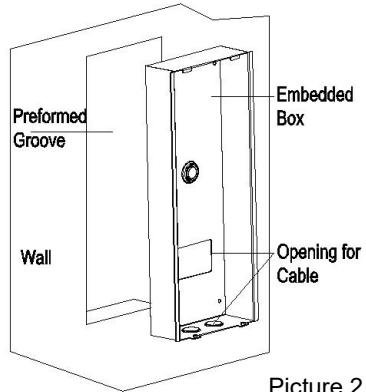
Chapter 3 Installation

3.1 Installation Illustration

Step 1: Put the embedded box into the preformed groove (as shown in Picture 2). After getting the cable out through the opening, fasten the box with nails or by cement. Embedded box dimension(W/H/D) as shown in Picture 1:

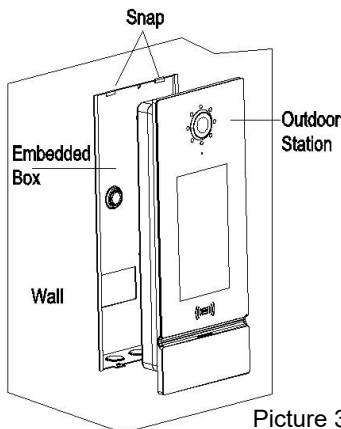


Picture 1

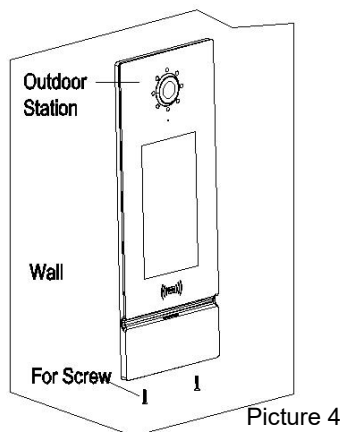


Picture 2

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 in the box, and keep it stable(as is shown in Picture 3). Then fix the screws at the bottom of the aluminium panel (as is shown in Picture 4).

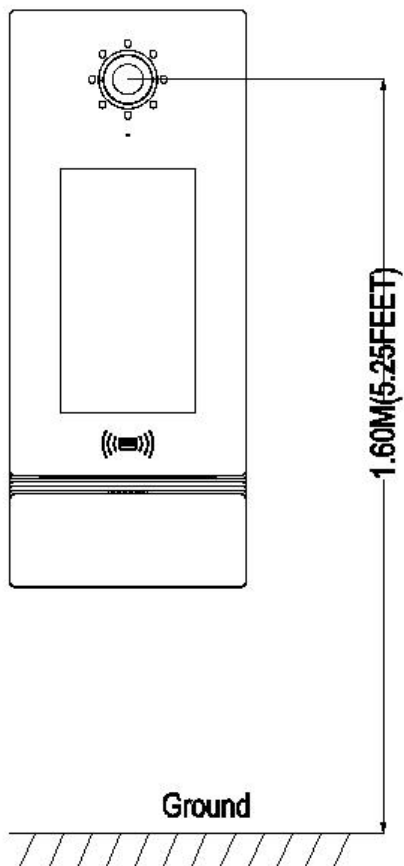


Picture 3



Picture 4

3.2 Installation Height




Recommended Installation Height: 1.6 meters

Chapter 4 Operation Instructions

Note: This manual is applicable to Outdoor Station of version V1.07 and above. Any differences please contact the supplier for support.


4.1 Call Indoor Station

After inputting room number, click  to start the call or after 5s without operation, it will call the room automatically.

If the monitor is online, it will have the ring-back tone during the call, If there is no any answer within 30 seconds, it will be ended automatically.

If the monitor is offline, it will not have the ring-back tone during the call and indicate no answering.



4.2 Call Guard Station

At the status of Standby, visitors can click  to call guard unit.

4.3 Face Recognition and Management

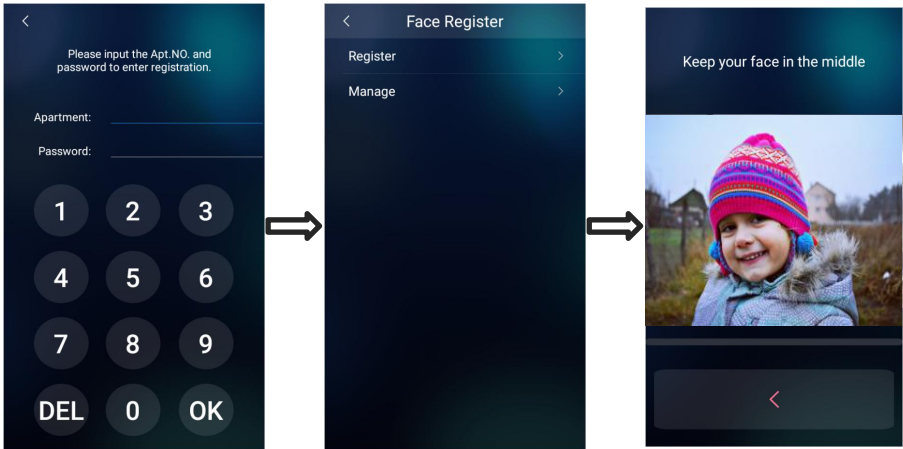
Residents can register and manage faces via this device or PC.

4.3.1 Face Registration via Outdoor Station

Click  icon to enter Face Unlock Interface, and then click  to enter face registration interface, residents can choose room number or user card for registration.

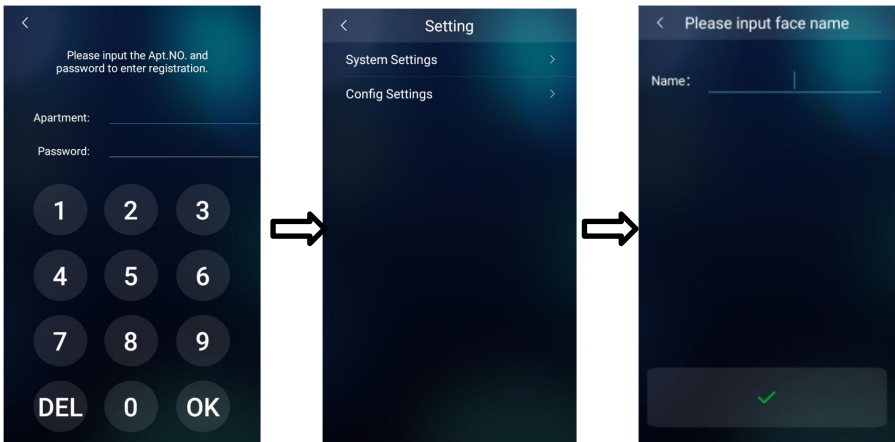
1. Register by room number

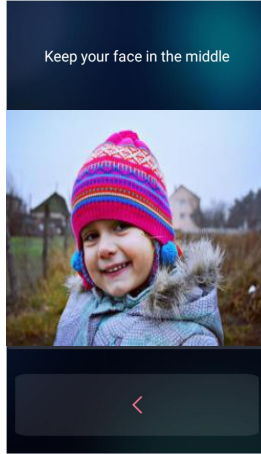
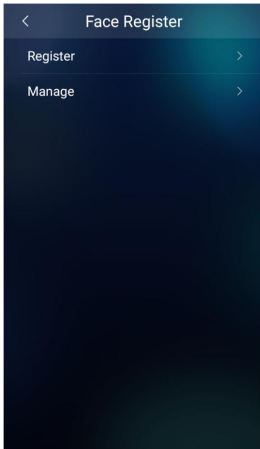
(1) Residents input the correct room number and password to enter the face registration interface :



Interface of face registration

(2) Administrator can input the room number “0000”, config password “801801”(default) into the engineering settings ----- face registration. Input the room number to arrange the face registration for residents (input room number “0000” to register for administrator)





2. Register by swiping user card

Residents can enter Face Registration interface with their resident card, which should be authorized by PC Management Center in advance.

Administrator can swiping the patrol card to enter the interface of administrator face registration.

During the registration, please keep your face in the middle of the screen, a message “done” will be prompted when the face is successfully registered.

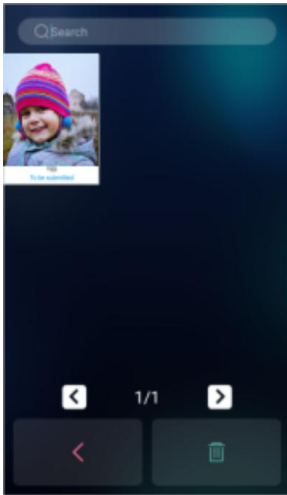
4.3.2 Face Registration via PC

Face Registration can also be done by PC management center (Resident Management --- Enroll resident) . Details please refer to <PC face synchronization manual>





4.3.3 Face Management

In Face Registration interface, click **Manage** to view the face list, user can slide left or right to check the registered face.



Interface of Face List

2) Click  at the bottom right corner of the screen to delete the selected face.

Click  to return to the previous interface.

(Note: If the registered face has been synchronized to the PC management center, the face can only be deleted when the Outdoor Station is well connected with PC management center)

4.4 Unlock


4.4.1 Unlock by Card

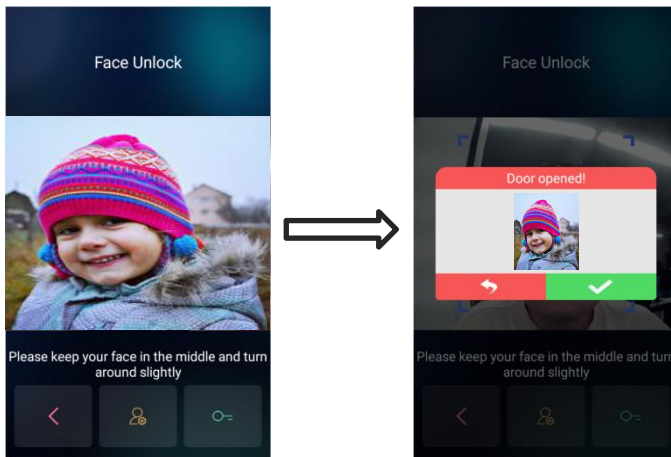
Swipe a registered card to the card reading area of Outdoor Station/Gate Station to unlock the door .

4.4.2 Unlock by Push Button

There is an interface on the Outdoor Station/Gate Station that can wire to a button inside the door, which residents inside can just press and unlock.


4.4.3 Unlock by Face

1) Click  icon to enter Face Unlock interface.



Interface of Face Unlock

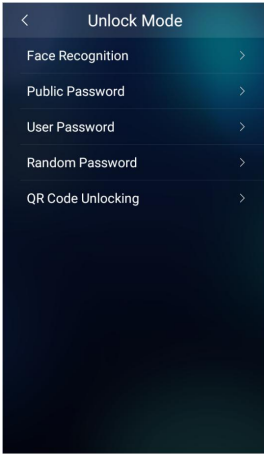
2) For registered face, keep standing in the middle of the screen, if identified successfully, a pop-up message of “Door Opened” will appear.

3) Click  to return to the Standby interface.

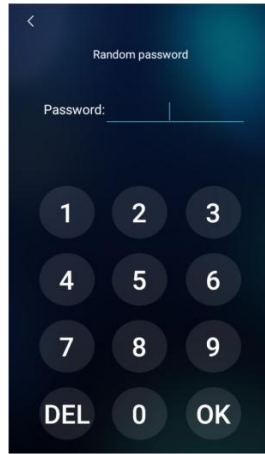
4.4.4 Unlock by Random Password

1) In Face Unlock interface, click  to select Unlock Mode.

2) Choose Random Password Unlock --- Input the Random password (Note: Random Password is generated by Cloud Intercom APP)



Interface of Unlock Mode

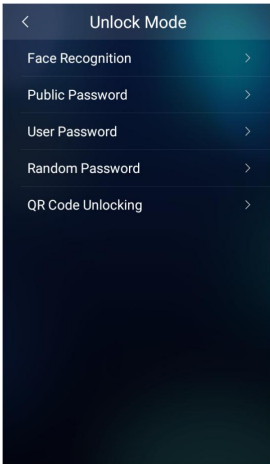


Interface of Random Password Unlock

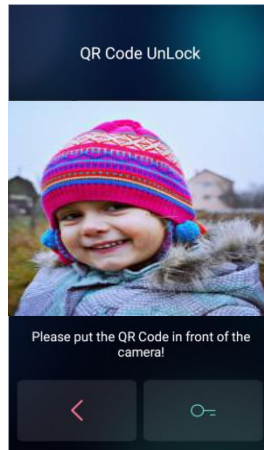
4.4.5 Unlock by QR Code

1) In Face Unlock interface, click  to select Unlock Mode.

2) Select QR Code Unlock (Note: QR Code is generated by Cloud Intercom APP.)



Interface of Unlock Moe

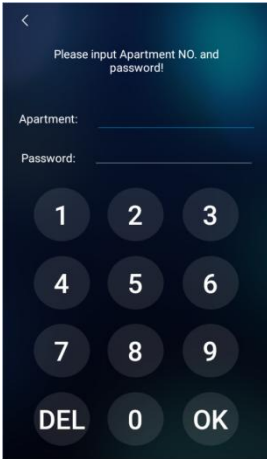


Interface of QR Code Unlock

4.4.6 Unlock by User Password

1) In Face Unlock interface, click  to select Unlock Mode.

2) Select User Password Unlock.



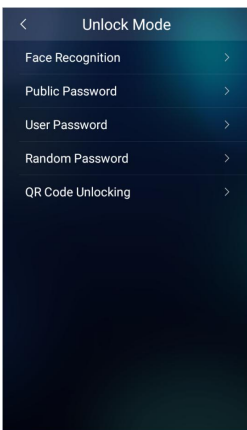
Interface of user password unlock

3) Input the correct room number and password (the room number and user password of Indoor Monitor), ex. Building 1, room 101----input room number 101, password 666666 (The default user password)

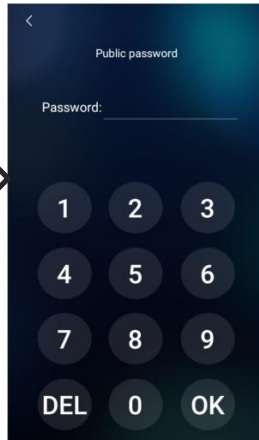
4.4.7 Unlock by Public Password

1) In Face Unlock interface, click  to select Unlock Mode.

2) Select Public Password Unlock → input the public password :666666 (Default password , it can be revised as need)



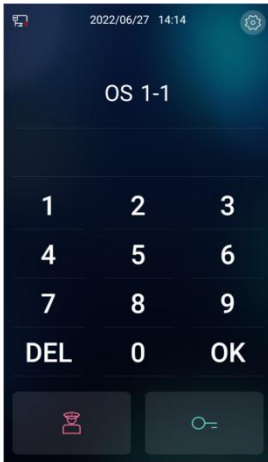
Interface of Unlock Mode




Input the public password

Chapter 5 Setting

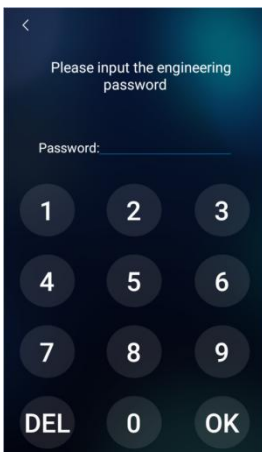
5.1 Standby Interface



5.2 Login Setting Interface

In the standby interface --- Click  to enter into the login interface for settings ----

input room number "0000", password "801801" (default config. password)

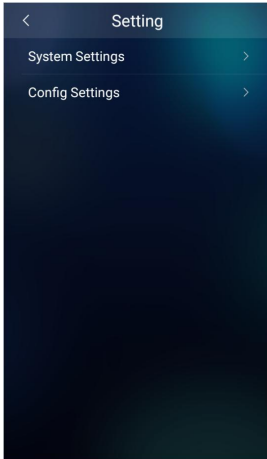


Login interface of settings

5.3 Setting Interface

After inputting the correct password , click **OK** to enter the interface of settings,

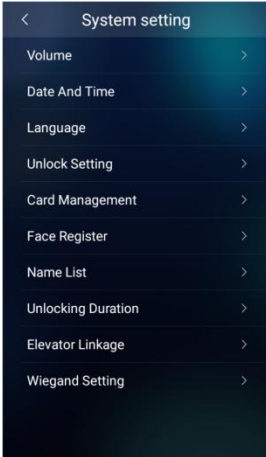
resident can choose specific settings by clicking the option.



Interface of setting


Chapter 6 System Setting

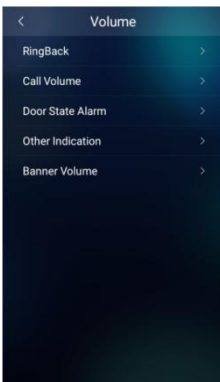
System setting interface is shown as below, including Volume Setting, Date And Time Setting, Language, Unlock Setting, Card Management, Face Registration, Unlocking Duration , Elevator Linkage and Wiegand Setting. Touch each option to enter the corresponding setting interface.



System setting interface


6.1 Volume Setting

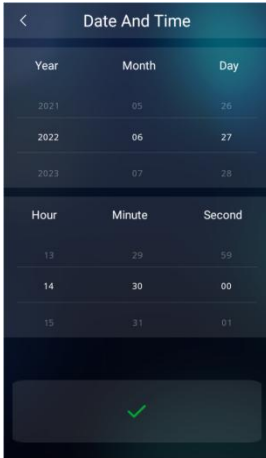
Volume Setting interface is shown as below, users can click each option to configure corresponding setting. After setting is done, press  to return to previous menu.



Volume setting interface


6.2 Time Setting

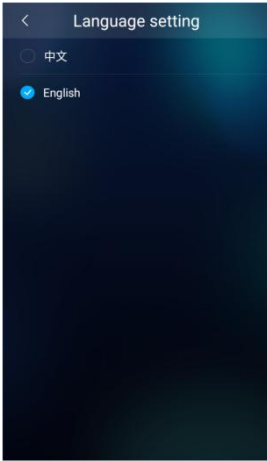
Time Setting interface is shown as below, users can select each option and modify it's number. After setting is done, press  to confirm .



Date And Time interface

6.3 Language Setting

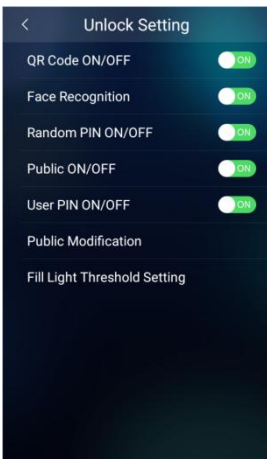
Language Setting interface is shown as below, users can choose the language by touching corresponding option, then press  to confirm and return to previous menu.



Language setting interface

6.4 Unlock Setting

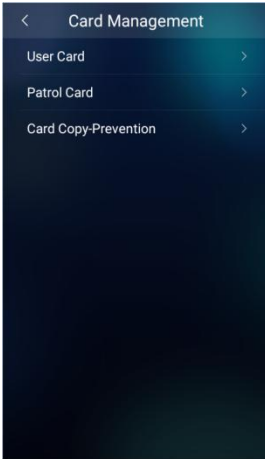
Unlock Setting interface includes: QR Code Unlock, Face Unlock, Random Password Unlock, Public Password Unlock, Public Password Modification, User Password Unlock and Fill-in Light Threshold Setting. Users can choose to configure each option.



Unlock setting interface

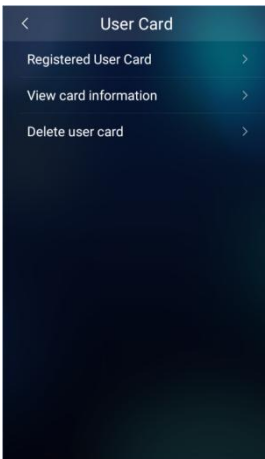
6.5 Card Management

Card Management interface includes: User Card, Patrol Card, Copy Card Data and Card Copy Prevention.





Card management interface

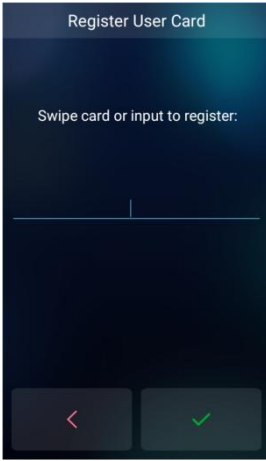
This manual is taking user card as example to introduce the related operations in brief.
(operations of Patrol card is similar with user card's)



User card interface

- **Registration and Deletion**

In card registration interface, swipe a card or input the card numbers to register. After finishing registration, press  to return to previous menu. While inputting wrong numbers, press the deletion key to delete each number.  The operation of Card Deletion is same as Card Registration.

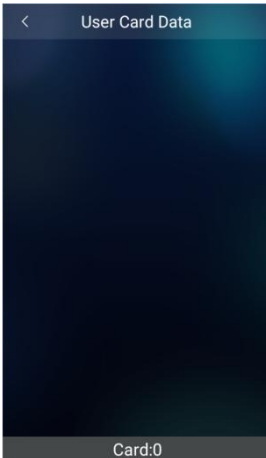


Card registration interface

Note: Capacity of registered user and patrol card: 20000 cards maximum

- **Check Card Information**



Users can click **Check Card Info.** to check all card numbers and the quantity of the registered cards.



Card information interface

- **Delete All Users**

Click this option, a message will pop-up for confirming the operation (delete all?), press


 to confirm and all users will be erased, or press  to return to previous menu.

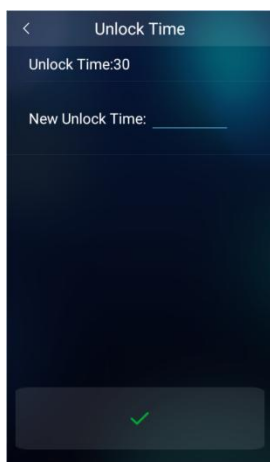
- **Card Copy Prevention**

With this option turned on, the IC card will be encrypted when it swipes to Outdoor Station, which prevents card duplication.

6.6 Unlocking Duration

This option is meant to set the duration of door open time, the door will lock again automatically when the time is out. Input the during time(unit: second), then press

 to confirm and return to previous menu.



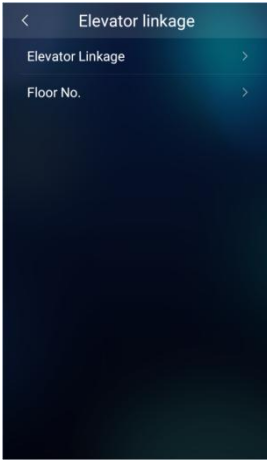
Interface of unlocking duration

6.7 Elevator Linkages

Elevator Linkage setting is meant to turn on/off the elevator control function and to set the floor number of Outdoor Station(range: 8-64, 0 not included).

With this function turned on, users need to input the highest floor number which the user can reach while they are registering user card(range: 8-64, 0 not included).

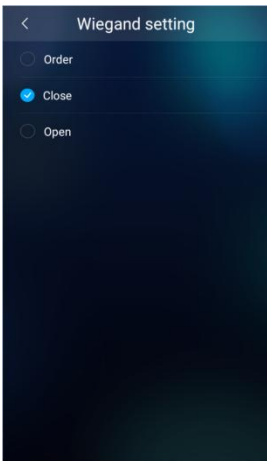
Also When this function is on, the elevator can be ordered to the current floor while Outdoor Station unlock the door with either user password, face recognition, random password, QR code, swiping card or calling.



Interface of elevator linkage

6.8 Wiegand Setting

This function offers the user to turn on/off Wiegand and set the sequence.



Wiegand setting interface



sequence setting interface

Chapter 7 Config. Setting

Configuration Setting includes System Property, Device Property, Face recognition, Configuration Password, Help and Factory Test. Click each option to enter the related setting.



Configuration setting interface

7.1 System Property

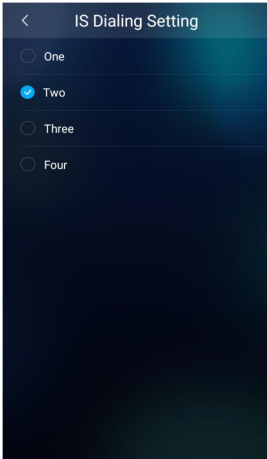


Interface of system property

● Dialing Digit Setting

The dialing digits setting shows different interface according to the different devices. While setting as Outdoor Station:

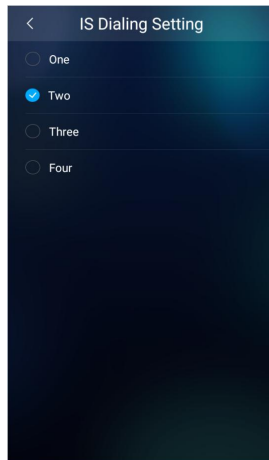
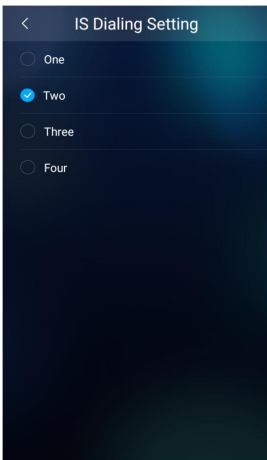
Number entered cannot exceed the defined parameter, when there's no enough number then a ZERO will be filled in front of the number. (Say the number is set as 2, while a 3 is entered only, then it will be filled as 03)



Interface of dialing setting

While setting as Gate Station:

Users can choose 1, 2 or 3 digits for dialing Unit number, and choose 1,2,3 or 4 digits for dialing Indoor Monitor number. Related instruction please refer to the dialing Illustration shown as below.



Interface of Gate Station dialing setting

Illustration of Building:

Digit number	1-digit	2-digit	3-digit
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of building	1 digit of building No	2 digit of building No.	3 digit of building No.
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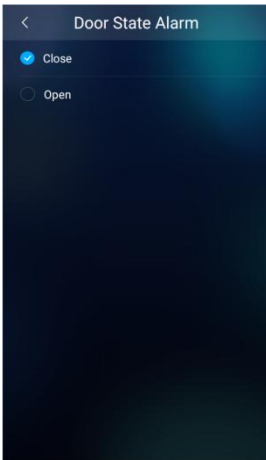
Illustration of Indoor Monitor number:

Digit number of Indoor Monitor	1-digit	2-digit	3-digit	4-digit
	1 digit of room No.	2 digit of room No.	3 digit of room No.	4 digit of room No.

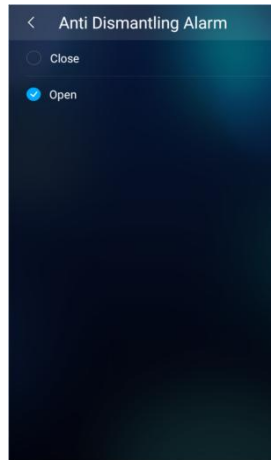
the rules of Gate Station dialing

- **Door Status Alarm**
- **Anti Demolition Alarm**

Users can choose to open/close each alarm. When the corresponding alarm is triggered, the device will send the alarm information to the administration center and PC.



Interface of Door Status Alarm




Interface of Anti Demolition Alarm

- **Auto Push**

To open or close the Auto Push for cloud intercom function.

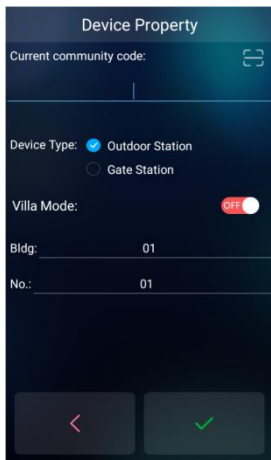
7.2 Device Property

The device can either be used as Outdoor Station or Gate Station, depending on the definition of device property. Touch the screen to select the device type, an “•” icon will

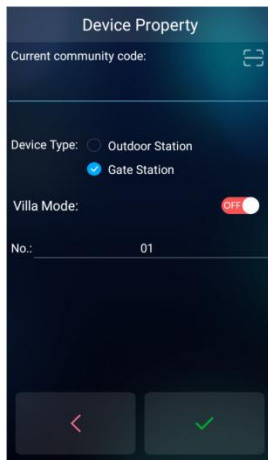
show behind the option, then press  to confirm.

If setting as Outdoor Station, the device will contain building number(1-999) and device number(1-16).

If setting as Gate Station, the device will only contain device number(1-32) .

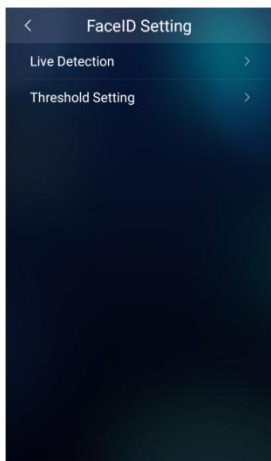


Interface of Outdoor Station property



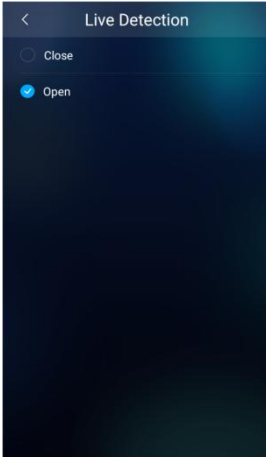
Interface of Gate Station property


7.3 Face Recognition Setting



Interface of Face Recognition setting

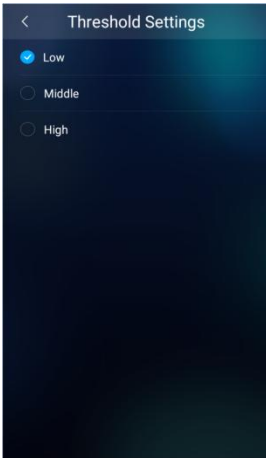
- **Live Detection**



Users can chose whether to open Live Detection or not,; click  to return to Face Recognition Setting interface.

Note: If Live Detection is opened, resident need to turn their face to left and right side slightly while they are using Face Unlock;

- **Threshold Setting**



Interface of Threshold Setting

In this interface user can configure the threshold of face recognition(High, Medium,

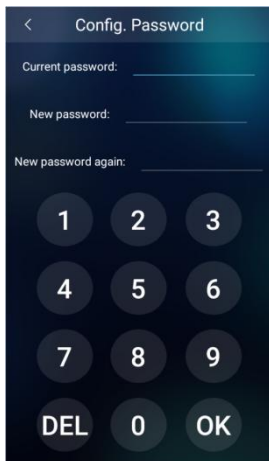
Low), each level corresponds to the accuracy of face matching.

Higher level of threshold comes with higher accuracy of face recognizing. Vice versa.

7.4 Config. Password

To change the configuration password: input the current password, then move to new password box for entering new password. when inputting the new password correctly twice, it will save the modification.

Password number limitation: 6 digits.

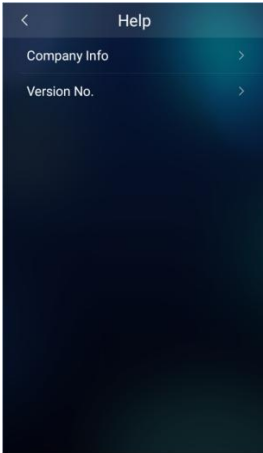
The image shows a dark-themed user interface for configuring a password. At the top, there is a title bar with a back arrow and the text "Config. Password". Below the title bar, there are three input fields: "Current password:", "New password:", and "New password again:". Each field has a horizontal line indicating where to enter text. Below the input fields is a numeric keypad with buttons for digits 1 through 9, 0, a "DEL" button, and an "OK" button. The keypad is arranged in a 4x3 grid.

Interface of config. password setting

7.5 Help

The company information interface can be customized(reserved).

In "Version No." you can find version of the system, IP address, MAC address, etc.



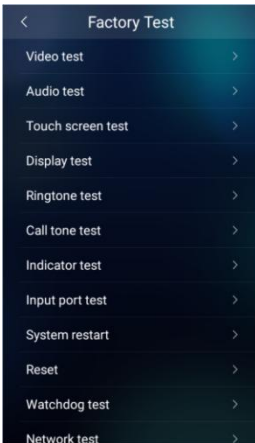
Help interface

7.6 Factory Test

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



Interface of Factory Test

Appendix: Frequently Asked Questions

Question 1: When calling the resident, device doesn't ring and prompt "no response"?

(1) please check if the Indoor Monitor is connected with the Internet.(check if the internet icon of Indoor Monitor is highlighted).

(2) Check if the Outdoor Station setting is correspond with the resident building .(Please set both Outdoor Station and Indoor Monitor with correct number)

Question 2: The authorized Outdoor Station can not call the APP?

(1) Check if the auto push of Outdoor Station is turned on or not.

(2) The Outdoor Station is listed on APP, but resident can't monitor the camera by APP. Please check if the Internet connection of the Mobile phone and Outdoor Station work normally. (check if the Mobile Phone can browse the website or not, and check if the router can connect to internet with 10 segment IP setting)

(3) Check if the APP account is binding to the residence (the residence will shown "In Use" in residence list)

Question 3: It can not enter the registration interface when clicking face register?

Please check if the device has been authorized successfully (It will indicate the status in configuration setting interface), if prompt unauthorized, please authorize it and reboot the device.