IMA1000 – 4G INTERCOM ACCESS SYSTEM MANUAL

Version number：01.00.000

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Foreword

1.1 Reading Advice

This manual is intended for the use of 4G telephone line systems

1. 2 Operation System

Linux 6.4.3

1. Product overview

This product is a video intercom with a 4G module. The system is connected through 4G and telephone line calls. It can provide voice intercom and video intercom through Tuya App, thereby enabling communication and dialogue between visitors and residents, and sending unlocking instructions through the keyboard of the mobile phone. Or use the Tuya Smart App unlocking interface on your mobile phone to open the main door or auxiliary door, and support ID access control and password unlocking.

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1.1 Features

1) Supports voice intercom, mobile phone door opening, Tuya App video intercom, user password, public password unlocking, etc.

2) Support real-time monitoring and alarm monitoring.

3) Visitor records (and photos taken), unlocking records, and alarm records can be viewed

4) Support swiping ID card

5) Postal lock with specific settings (special needs), fire alarm, universal input, main door exit/auxiliary door exit unlock button.

6) Relevance of universal output settings (after meeting the trigger conditions, trigger universal output lighting, alarms, etc.)

7) You can set the time period during which corresponding operations can be performed according to your own time.

1.2 Specifications

Working Parameter

Working Voltage： DC 12~18V Static working current：≤0.25mA (DC 12V)

Working Temperature：-10℃~70℃ Operating Current：≤700mA (DC 12V)

Storage Ambient Temperature：-20℃~70℃

Camera

Type：CMOS Pixel：300W

Focal length:（diagonal x horizontal x vertical）：132° x111°x 59°

Maximum generation illumination：0.1 1ux

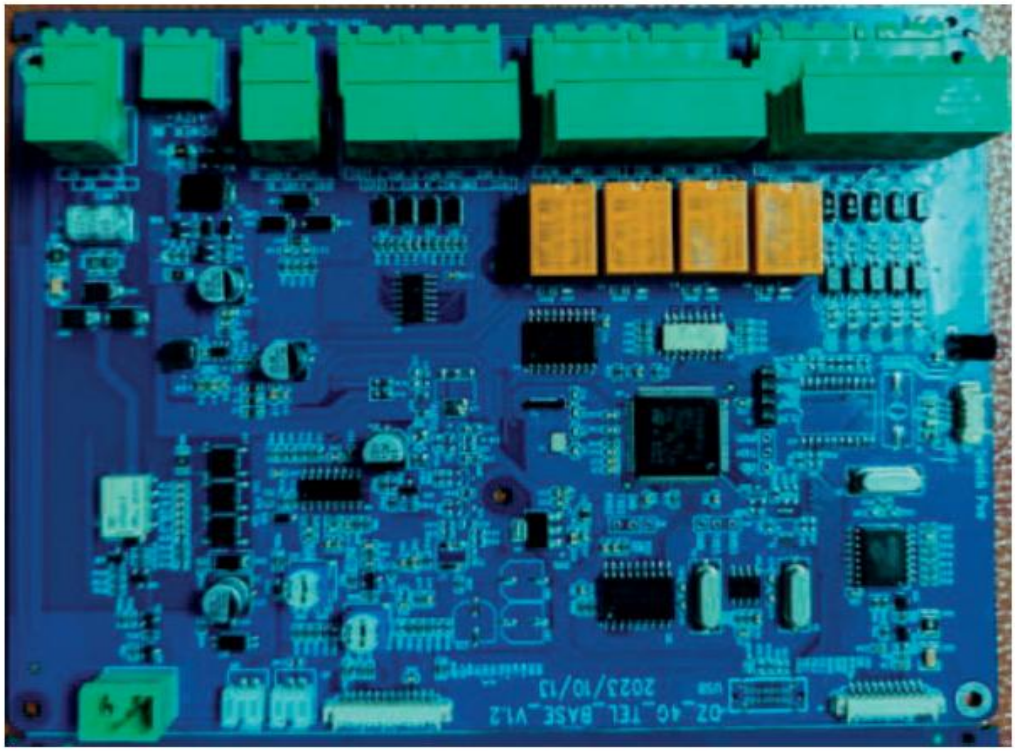
Focal Length：3.1mm Fill light mode: white light

Adjustable Angle: less than 10° up and down

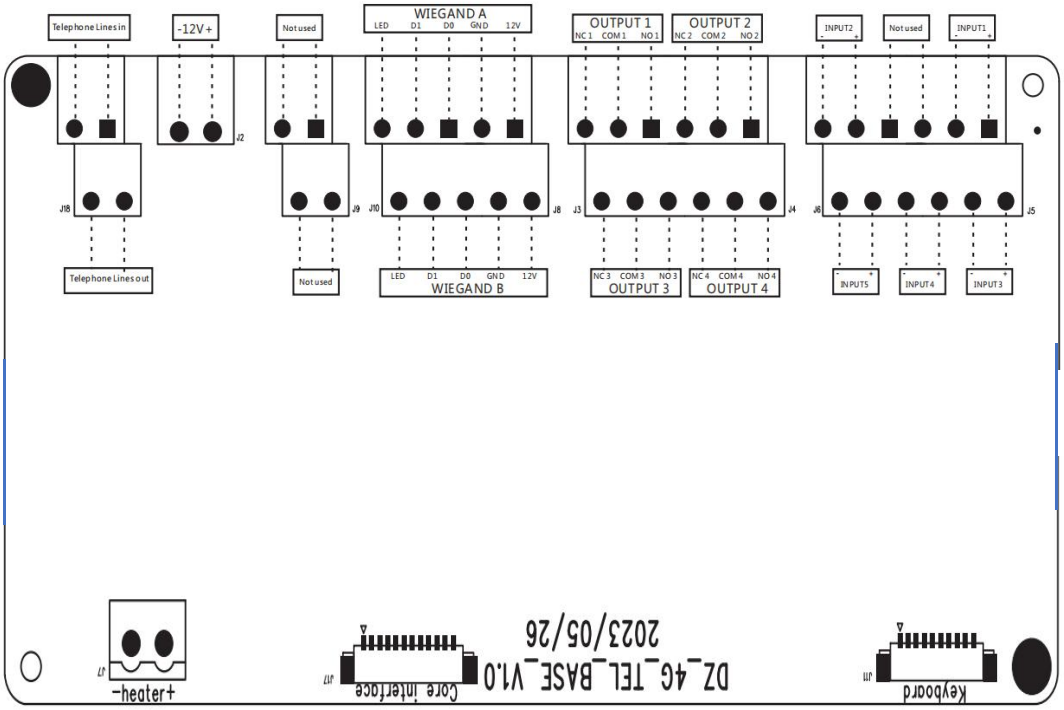
2. Product Instruction

3.1 **Product Appearance**

3.2 Interface Instruction



4G&Telephone



Interface①：

Input Interface（1~5）

Input interface 1 is connected to the postal lock. Enter the triggering method of the detection. Unsupervised means no detection, open circuit means disconnection trigger, short circuit means short contact trigger. When triggered within the valid time period, the main door lock is opened.

Input interface 2 is connected to the fire alarm lock, and the triggering mode of the detection is input. Unsupervised means no detection, open circuit means disconnect trigger, and short circuit means short contact trigger. When an alarm record (device, platform) is triggered within a valid time period, open the door locks of the main door and auxiliary door.

Input interface 3 is connected to the universal input. The triggering mode of the input detection is: unsupervised means no detection, open circuit means disconnect trigger, short circuit means short contact trigger, and the universal output is triggered after the trigger conditions are met.

Input interface 4 is connected to the exit button of the main door. Enter the trigger mode of the detection. Unsupervised means no detection, open circuit means disconnect trigger, short circuit means short contact trigger, and open the main door.

Input interface 5 is connected to the exit button of the auxiliary door, and the triggering method of the detection is input. Unsupervised means no detection, open circuit means disconnect trigger, short circuit means short contact trigger, and opens the auxiliary door.

Interface ②:

Output interface (1~4)

Output interface 1 is connected to the main door lock

Output interface 2 is connected to the auxiliary door lock

Output interface 3 is connected to universal output 3 (can be connected to lighting)

Output interface 4 is connected to universal output 4 (can be connected to alarm light)

Interface ③:

Wiegand lock (A/B 1/2)

Wiegand A Wiegand 1 open door lock selection. If set to All, the main door and auxiliary door will be opened.

Wiegand B Wiegand 2 door lock selection. If set to All, the main door and auxiliary door will be opened.

Interface ④: 485 address interface (not included in this version)

Interface ⑤: +12V power input interface

Interface ⑥: Telephone line input interface

4 System interface description and settings

4.1 System main interface

4.1.1 Main interface description

4.1.1.1 The upper left corner of the interface displays the current 4G signal strength and the standard used. If the SIM card is not inserted, the No SIM icon, the phone line icon (gray if not plugged in), and the network icon (gray if not plugged in) are displayed.

4.1.1.2 The current date and time are displayed in the upper right corner of the interface

4.1.1.3 Display the main interface menu in the middle of the interface

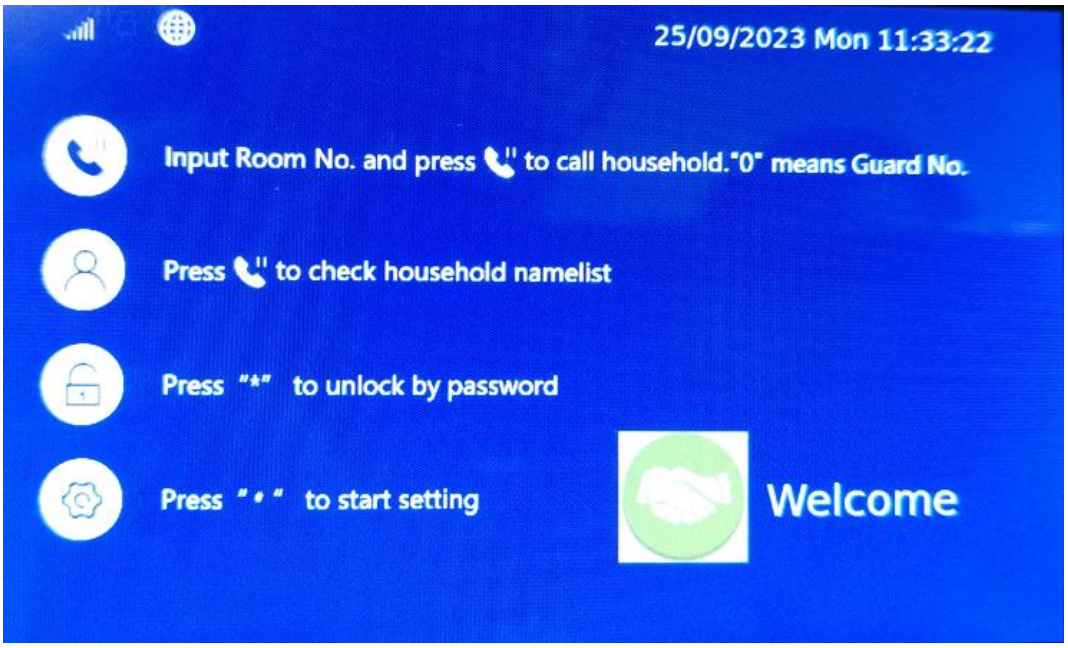
1 Enter the room number and press " " to call, 0 is the management center

2 Press " "to view the resident list

3 Press "*" to unlock with password

4 Press "#" to enter settings

5 Set the logo according to your needs.



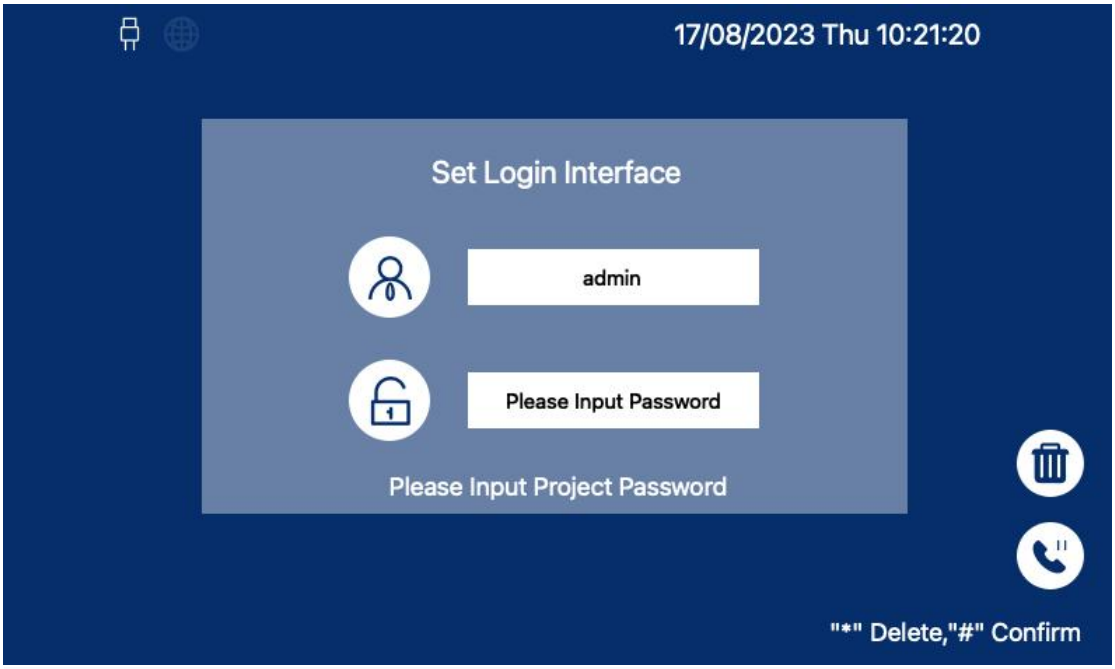
4.1.2 System setup instructions

"Press "#" to enter settings" under the main menu

4.1.2.1 Press “#” to enter the setting login interface

4.1.2.1.1 Interface description

Displays the default user name (which cannot be changed), a blank field for entering the password, and a prompt in the lower right corner (press the * button to delete and the # button to confirm)



4.1.2.1.2 Operating instructions

For better management and operation, set three administrator passwords: 1) Project initial password 123456. After entering the project initial password 123456, press "#" to confirm and enter the setting interface.

4.1.2.1.2.1 Setting interface

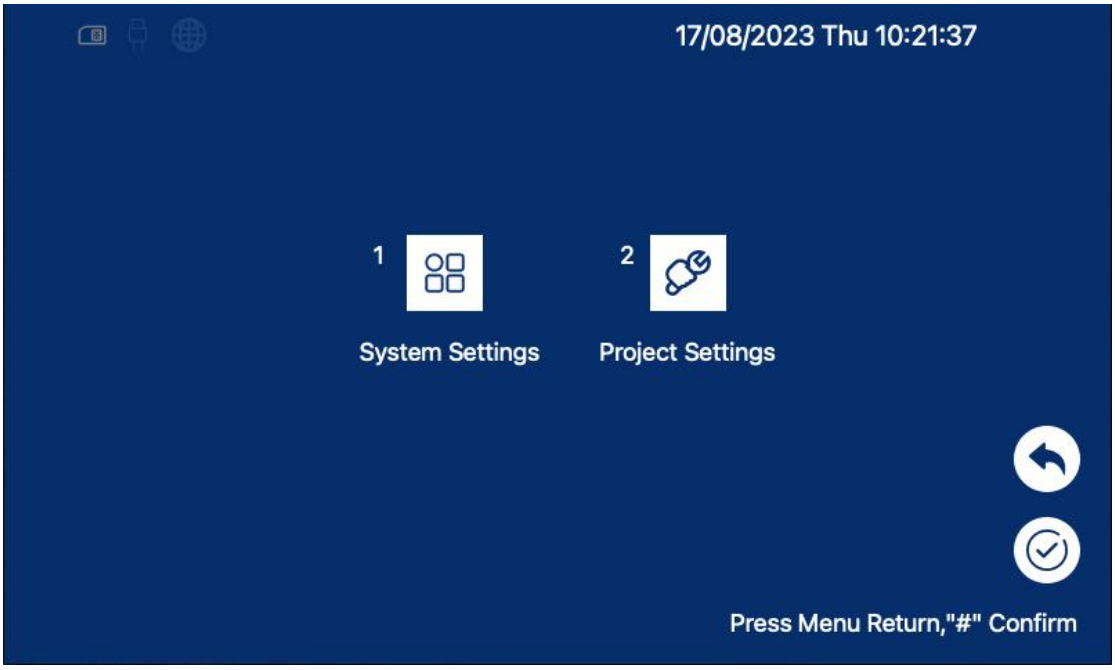
4.1.2.1.2.1.1Interface description

Two major settings are displayed:

1. System settings

2.Project settings

There is also a prompt in the lower right corner (press Menu to return, # to confirm)



4.1.2.1.2.1.2 Operating instructions

In the setting interface, press serial number 1 to enter the system setting interface.

4.1.2.1.2.1.2.1 System setting interface

4.1.2.1.2.1.2.1.1Interface description

Select serial number 1 to enter the system setting interface. The interface displays nine setting interfaces, namely:

1) Language settings

2) Time setting

3) Sound settings

4) Security/resident management

5) Timetable

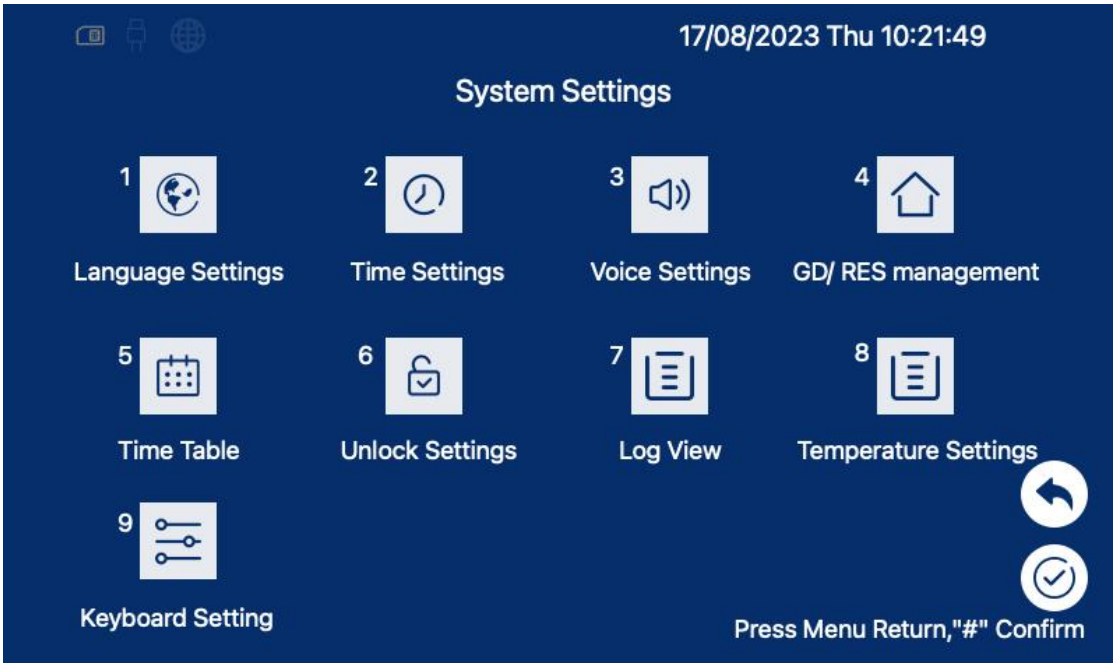
6) Unlock settings

7) Log viewing

8) Temperature setting

9) Button settings

There is also a prompt in the lower right corner (press Menu to return, # to confirm)



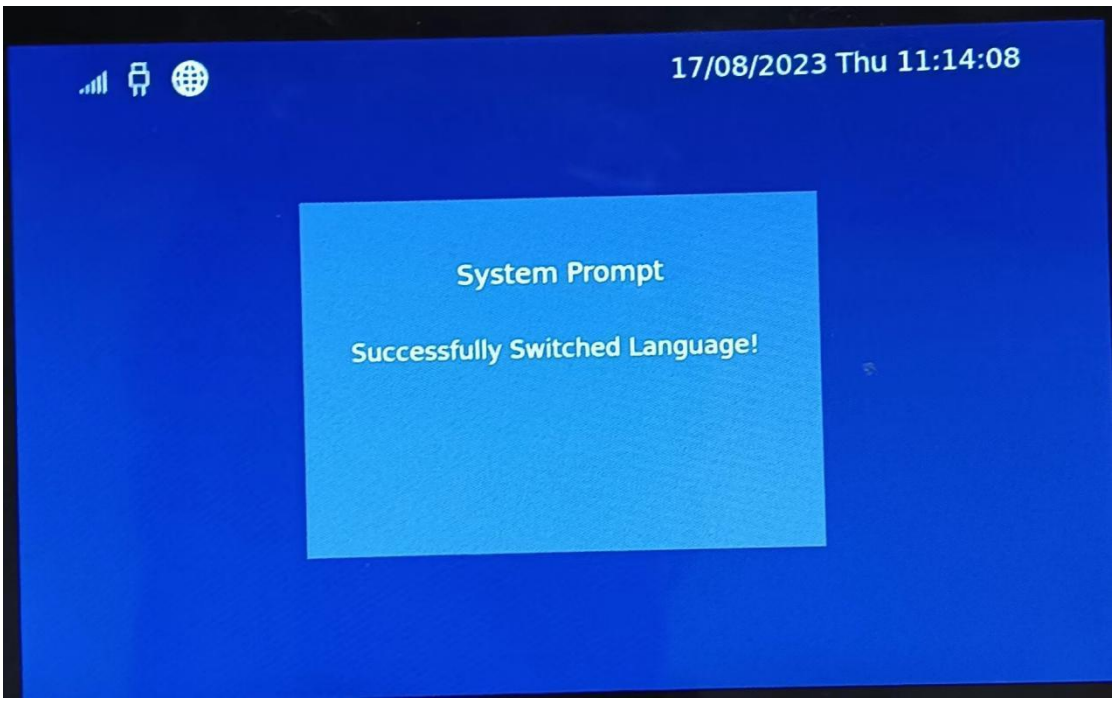
4.1.2.1.2.1.2.1.2 Language setting interface

4.1.2.1.2.1.2.1.2.1Interface description

Select serial number 1 in the system setting interface to enter the language setting interface. The interface displays different national languages (currently only supports Chinese, English, and French)

4.1.2.1.2.1.2.1.2.2Operating instructions

After selecting the desired language number and confirming it, the screen will display a system prompt for successful language switching, and then press the Menu button to return.



4.1.2.1.2.1.2.1.3 Time setting interface

4.1.2.1.2.1.2.1.3.1 Interface description

Select the serial number 2) in the system setting interface to enter the time setting interface. The interface displays the time zone setting selection bar:

Different national standard times can be selected, and the default is China Standard Time;

System format time selection column: day, month, year & year, month, day, the default is day, month, year;

Whether to enable the network time selection bar: disable & enable, the default is enabled;

System date input field XX/XX/XX; default is network time;

System time input field H/M/S, the default is network time;

Call time setting column (range 10-300 seconds), the default is 60 seconds;

Main door unlocking time input field (range 1-60 seconds), the default is 10 seconds;

The auxiliary door unlocking time input field (range 1-60 seconds) defaults to 10 seconds;

The default call forwarding time input field (range 10-60 seconds) is 30 seconds.

Prompt description displayed in the lower right corner (press Menu to return, * drop-down menu, # to confirm)

4.1.2.1.2.1.2.1.3.2Operating instructions

Enter the time setting interface, select the parameters that need to be modified, and enter the value you want. Press the "#" key to confirm the save, and then press the Menu return key to exit to complete the time setting operation.

4.1.2.1.2.1.2.1.4 Sound setting interface

4.1.2.1.2.1.2.1.4.1Interface description

Select the serial number 3 in the system setting interface to enter the sound setting interface:

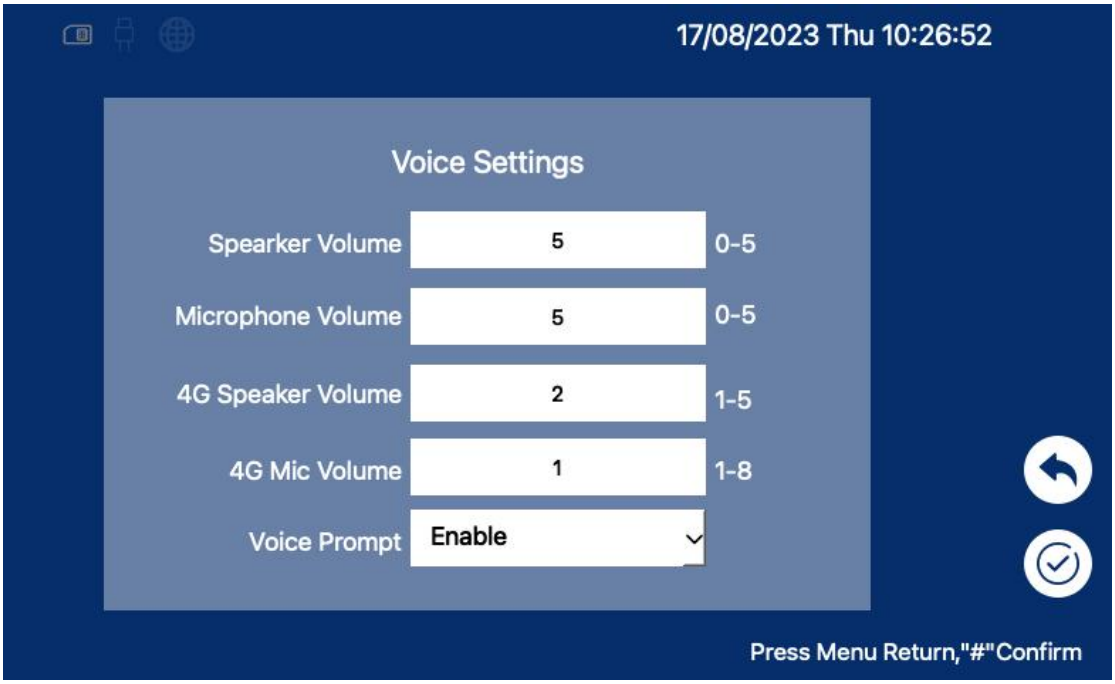
The interface displays the speaker volume input field (range 0-5), the default value is 5;

Microphone volume input field (range 0-5) default value is 5;

4G speaker volume input field (range 1-5) default value is 4;

4G microphone volume input field (range 1-8) default value is 3;

Voice prompt selection bar: enable & disable, the default is enabled (enable voice prompt: press different keys on the main page and the room number dialing page, the corresponding key tone needs to be prompted. There must be corresponding voice prompts for unlocking and dialing. Other pages sound Fixed key tone, no prompt key tone on the call page.)



4.1.2.1.2.1.2.1.4.2 Operating instructions

Enter the sound setting interface, select the parameters that need to be modified, and enter the value you want. Press the "#" key to confirm the save, and then press Menu to return to exit and complete the sound setting operation.

4.1.2.1.2.1.2.1.5 Guard/tenant management interface

4.1.2.1.2.1.2.1.5.1 Interface description

Select serial number 4 in the system setting interface to enter the guard/resident management interface, which displays:

1)Newly added

2)Edit

3)Delete

Prompt instructions in the lower left corner (the room number is set to 0000, representing the guard) and prompt instructions in the lower right corner (press Menu to return, # to confirm)

4.1.2.1.2.1.2.1.5.2 Operating Instructions

Select serial number 1) to enter the new resident interface, which displays:

Room number input field (required, 1-6 digits);

Name input field (required, up to 15 characters);

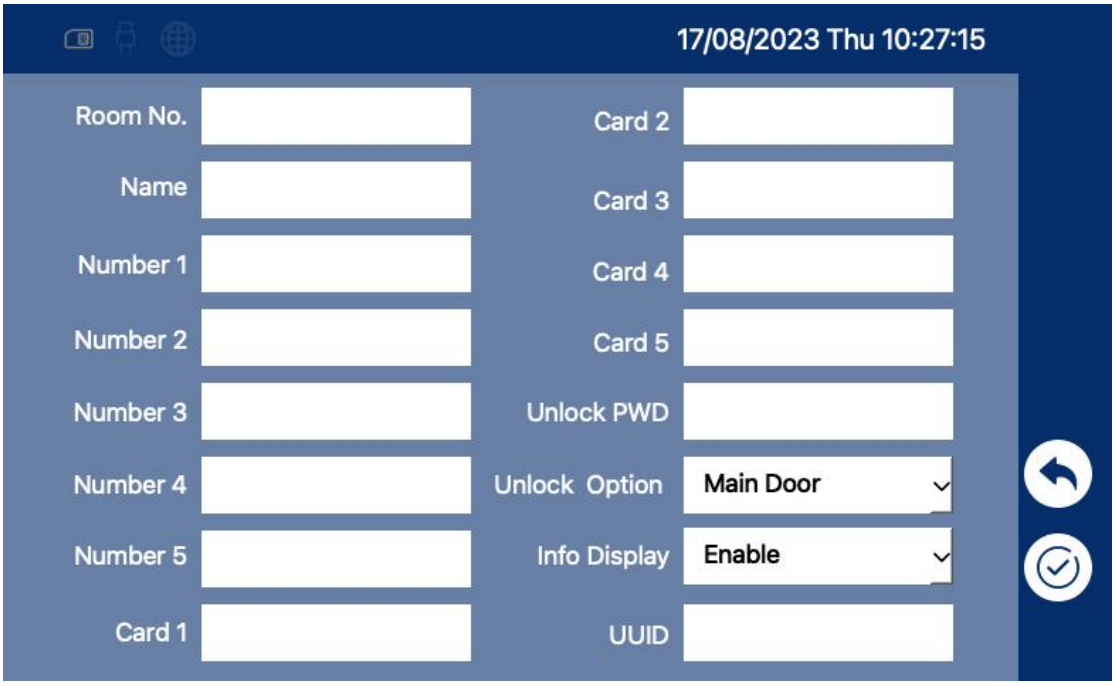
5 phone number input fields (the first one is required, up to 18 characters);

5 ID card number input fields (fixed 10 digits);

Unlock password input field (required 4-6 digits);

Unlock selection bar: main door & auxiliary door & all, the default is the main door. If you select all, the unlock will open both the main door and the auxiliary door;

Information display selection bar: enable & disable; UUID input field (UUID number issued by the platform)



Name input field operation instructions: Press any number key to enter the keyboard input interface, enter the ideal name and follow the key instructions to complete the operation.

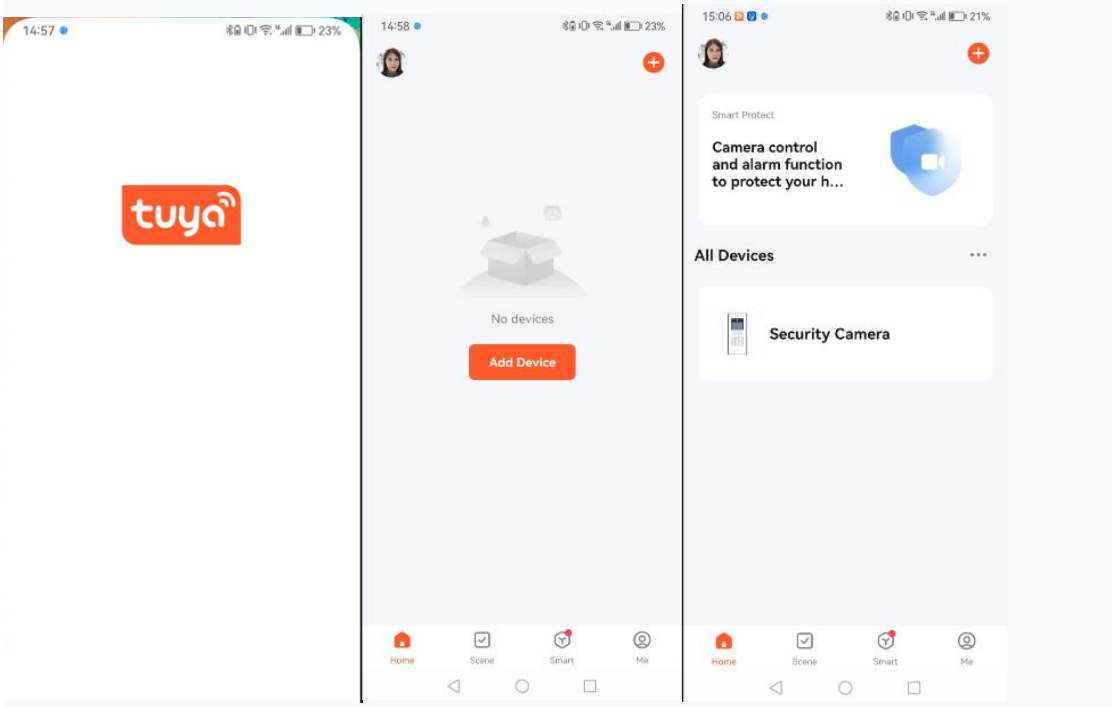
After completing the input in the above input field, press the "#" key to confirm the save and exit, then the new resident is completed.

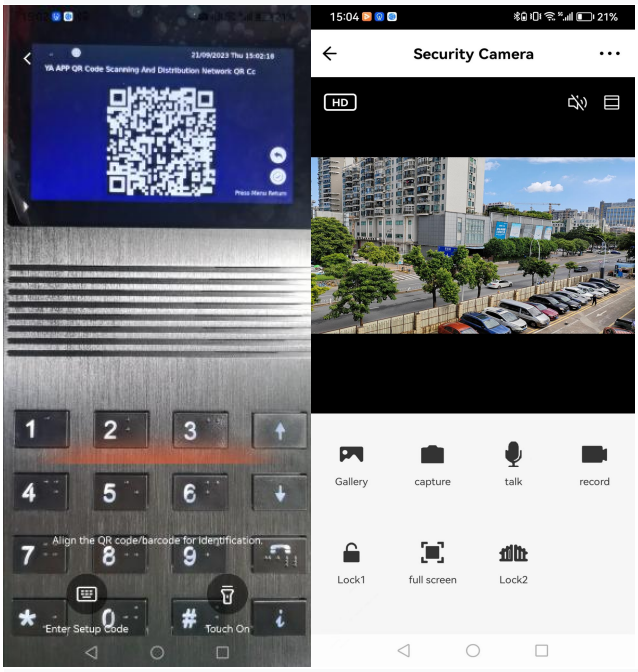
Select serial number 2) to enter the editing guard/resident interface, the interface displays:

Resident's room number and name, as well as prompt instructions in the lower right corner (press Menu to return, # to confirm, * Tuya distribution network)

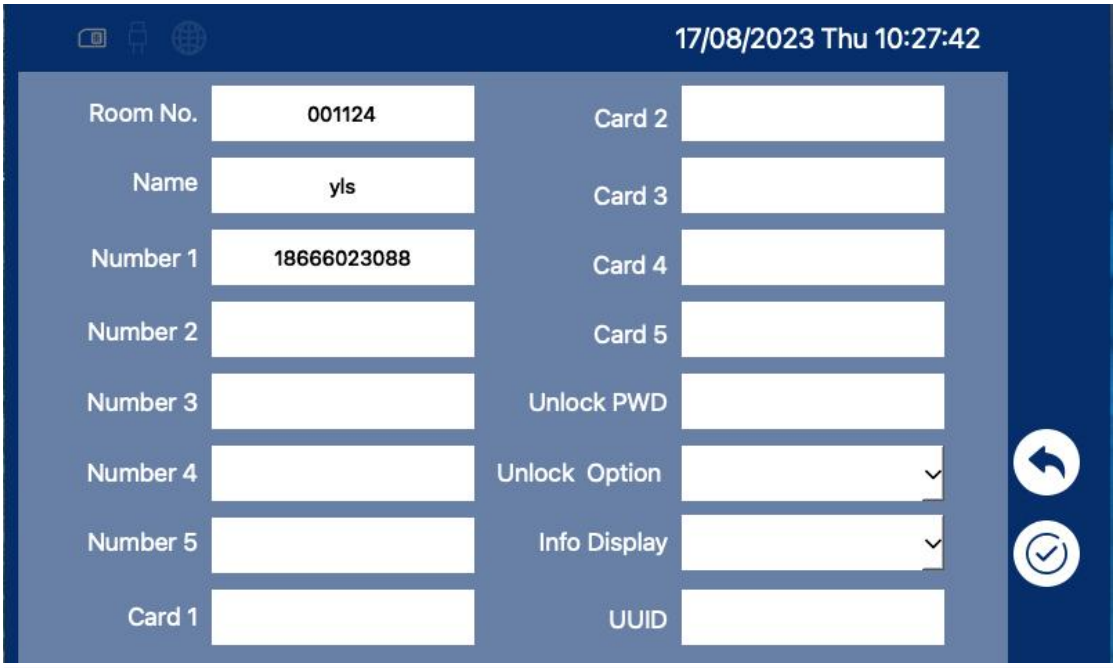
Instructions for editing guards/residents: Press the up and down keys to select the room number you want to edit. If there is a room number with a Tuya UUID number, press the * key and the screen will display the Tuya QR code. Use your mobile phone to scan the code to bind the Tuya APP.

If the resident's mobile phone does not have Tuya Smart installed, once the QR code is scanned, the mobile phone will go directly to the download and install Tuya Smart screen as shown in Figure 1. After installing Tuya Smart, scan the QR code to bind the Tuya APP as shown in Figure 2-5. You can also scan the QR code on the computer platform. Add (please refer to the intelligent access control platform operation manual)



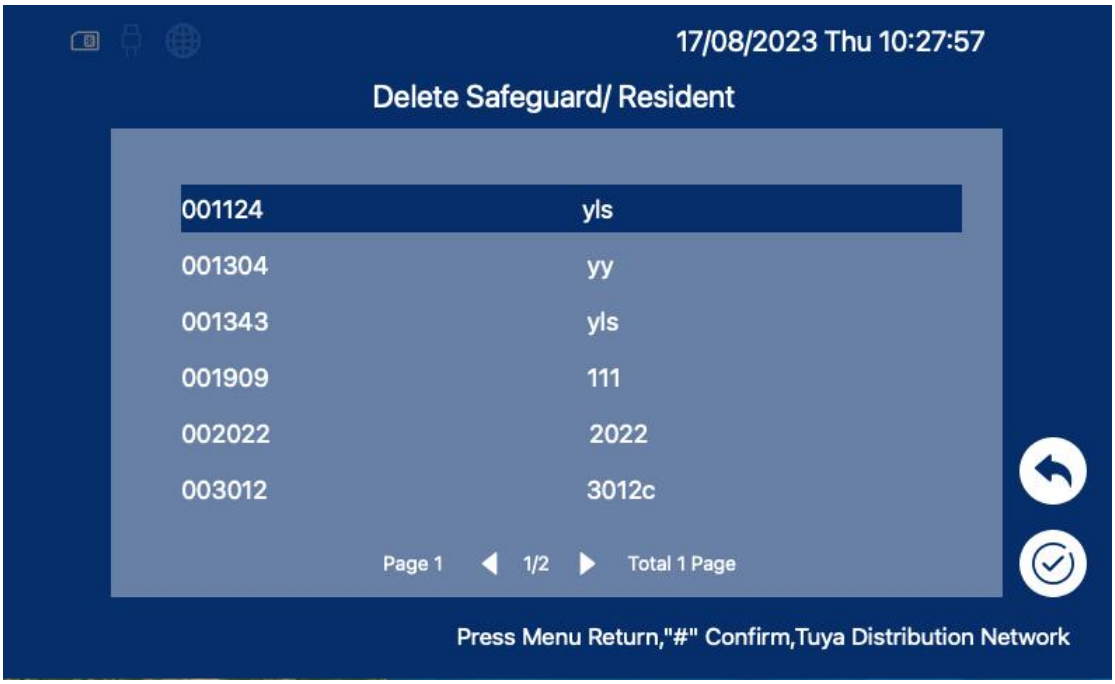


Press the up and down keys to select the room number you want to edit, press # to confirm and enter the resident interface, edit each input field according to your own wishes, and when finished, press # to confirm, save and exit, then editing the guard/resident is completed.

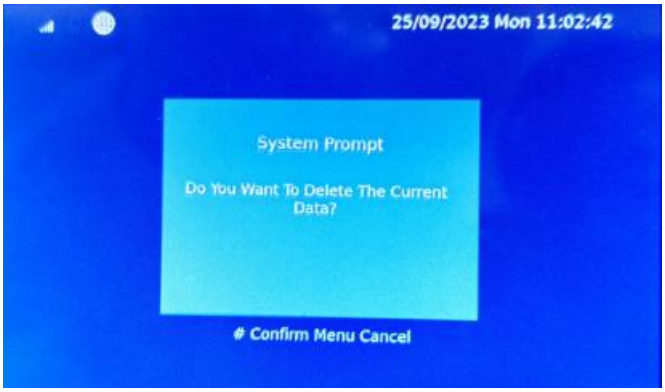


Two. Select serial number 3) to enter the guard/resident deletion interface, which displays:

Resident's room number and name, as well as prompt instructions in the lower right corner (press Menu to return, # to confirm, * Tuya distribution network)



Operation instructions for deleting guards/residents: Press the up and down keys to select the room number you want to delete. When pressing # to confirm, the system will prompt: Do you want to delete the current data? If confirmed, press # to confirm the deletion. After completion, press Menu to return and exit. Then deleting the guard/resident is completed



4.1.2.1.2.1.2.1.6 Timetable interface

4.1.2.1.2.1.2.1.6.1 Interface description

Select serial number 5) in the system settings interface and confirm to enter the schedule editing interface. The interface displays:

Allowed dialing time

Allow automatic unlock time

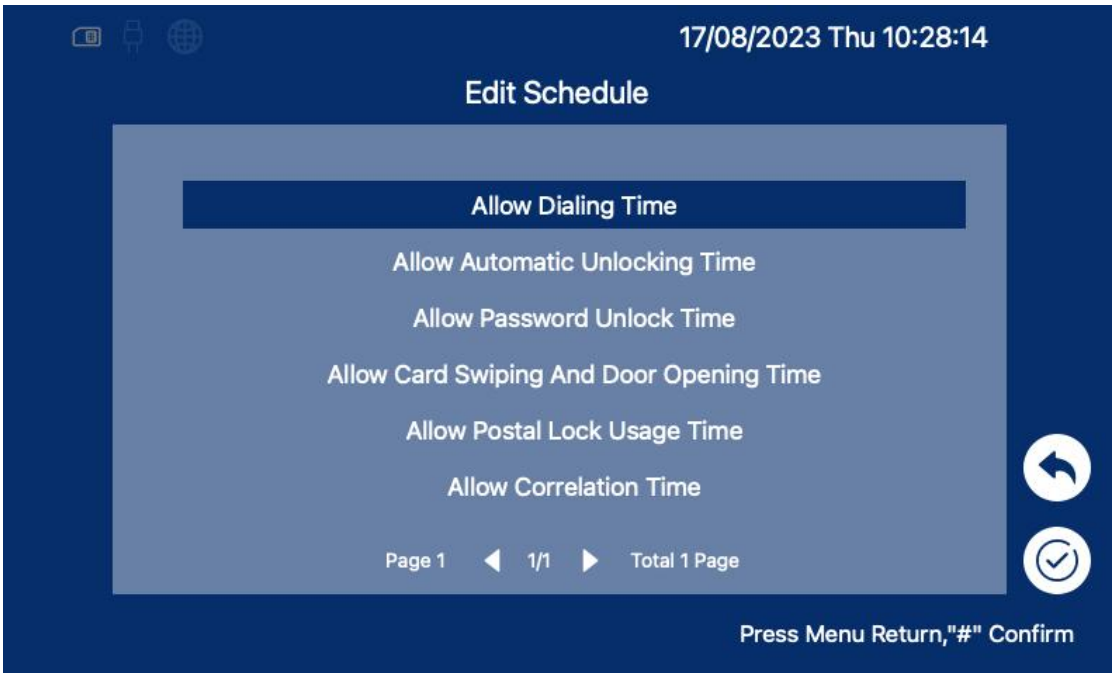
Allow password unlock time

Allowed card opening time

Allowed postal lock usage time

Allow relevance time

There are also prompts in the lower right corner (press Menu to return, # to confirm)



4.1.2.1.2.1.2.1.6.2 Operating Instructions

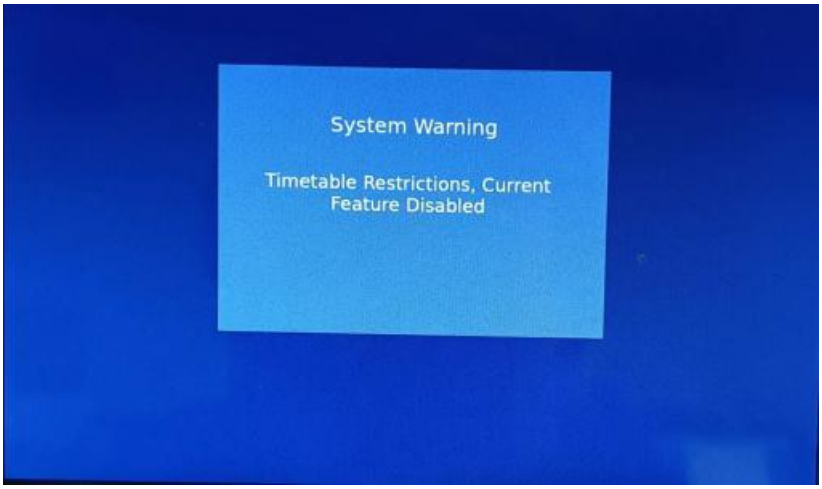
1. Press the up and down keys to select the allowed dialing time you want to set, and press the # key to confirm and enter the allowed dialing time interface:

The interface displays three options: always, never, and time period;

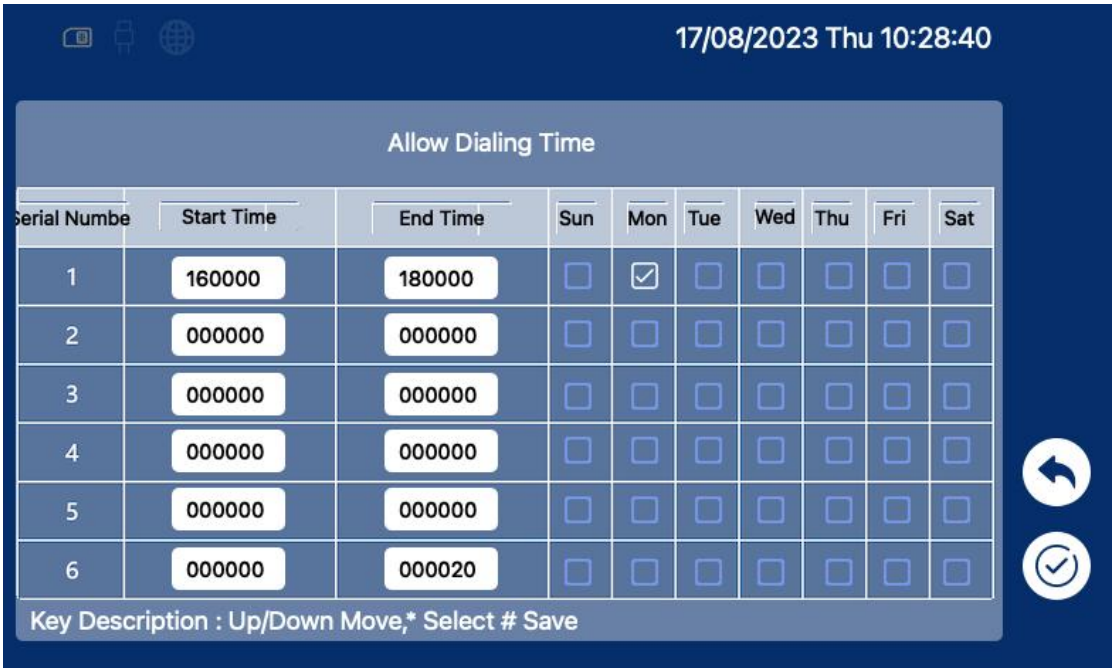
The default is always, if you select Always to allow dialing time, then the dialing time is always allowed;

If you select Never to allow dialing time, the dialing time is always not allowed. If you dial in this case, the system will warn you: schedule limit, current function is disabled!

If the dialing time is allowed to select a time period, the dialing time must be within the time period setting range. If dialing exceeds the time period setting range, the system will give a warning: schedule limit, current function is disabled!



Allow dialing time period interface, the interface displays a table, you can move Up/Down according to the key instructions *Select the # key to save, fill in the required time period, and select the day of the week, press the # key to save and exit

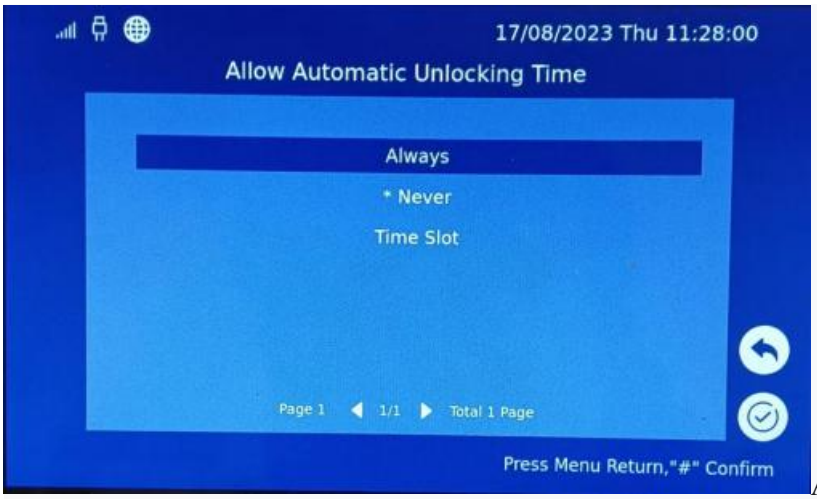


2. Press the up and down keys to select the automatic door opening time you want to set, and press the # key to confirm and enter the automatic door opening time interface:

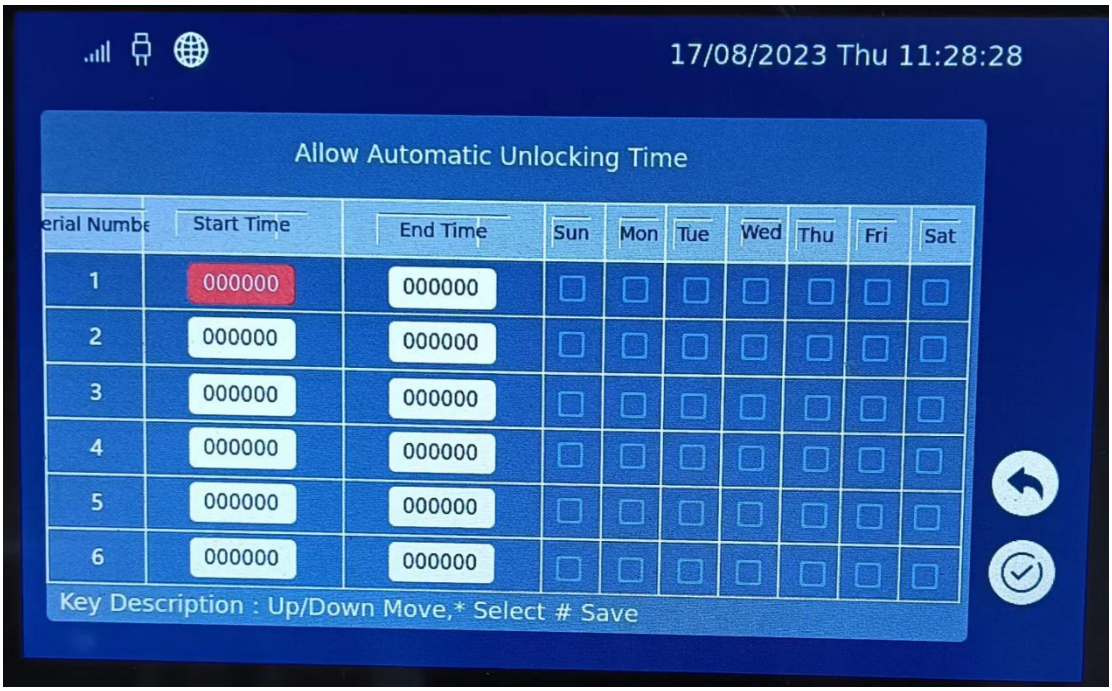
The interface displays three options: always, never, time period, the default is never, Allow automatic unlocking time to select always, then the door lock will always unlock automatically;

If you select Never to allow automatic unlocking time, the door lock will not automatically unlock;

Allow automatic unlocking time to select a time period. The door lock will automatically unlock within the time setting range, but will not automatically unlock after the time period setting range.



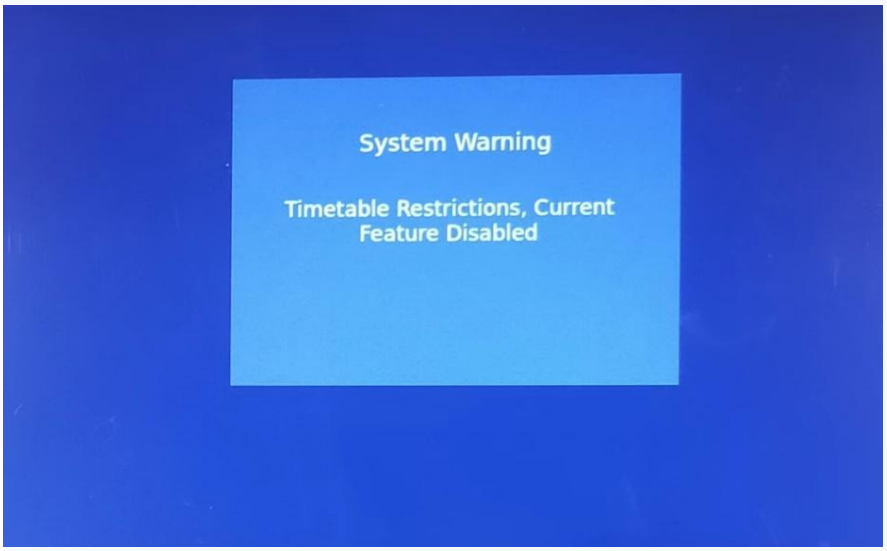
Allows automatic unlocking of the time period interface. The interface displays a table, which can be moved Up/Down according to the key instructions. *Select the # key to save, fill in the required time period, and select the day of the week. Press the # key to save and exit.



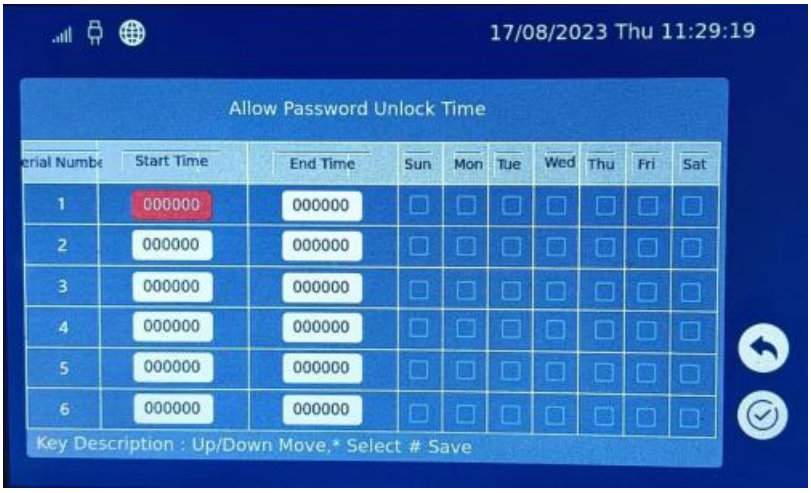
3. Press the up and down keys to select the allowed password unlocking time you want to set, and press the # key to confirm and enter the allowed password unlocking time interface:

The interface displays three options: always, never, time period, the default is always; select always to allow password unlocking time, then the password unlocking time is always allowed; select never to allow password unlocking time, then the password unlocking time is always allowed It is not allowed. For example, when unlocking with a password in this case, the system will warn: schedule limit, current function is disabled!

4. Allow the password unlocking time to select a time period. The password unlocking must be within the time period setting range. If the password unlocking exceeds the time period setting range, the system will warn: schedule limit, the current function is disabled!



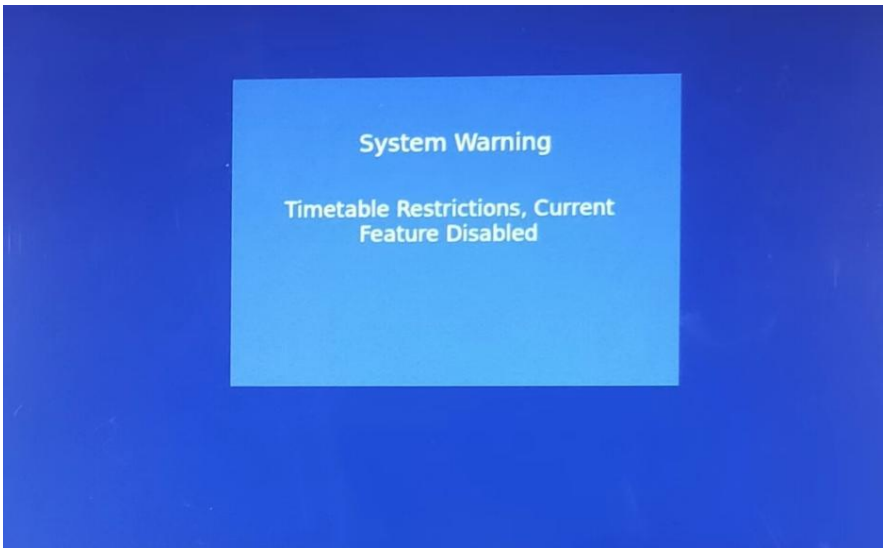
Allow password unlocking time period interface, the interface displays a table, which can be moved Up/Down according to the key instructions *Select the # key to save, fill in the required time period, and select the day of the week, press the # key to save and exit



2.Press the up and down keys to select the time you want to set to allow card swiping to open the door, and press the # key to confirm and enter the interface for allowing card swiping to open the door: the interface displays three options: always, never, time period, the default is always; allow card swiping to open the door time selection Always, the time to open the door by swiping the card is always allowed; select Never,

the time to open the door by swiping the card is always not allowed. In this case, when the card is swiped to open the door, the system will warn: timetable limit, current Feature disabled!

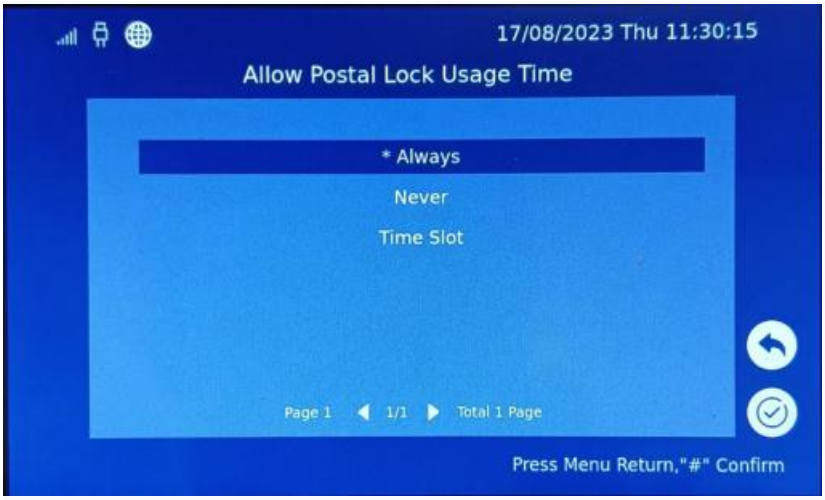
If the time period is allowed to be opened by swiping the card, the door must be opened within the time period setting range. When the card is swiped to open the door beyond the time period setting range, the system will warn: timetable limit, the current function is disabled!



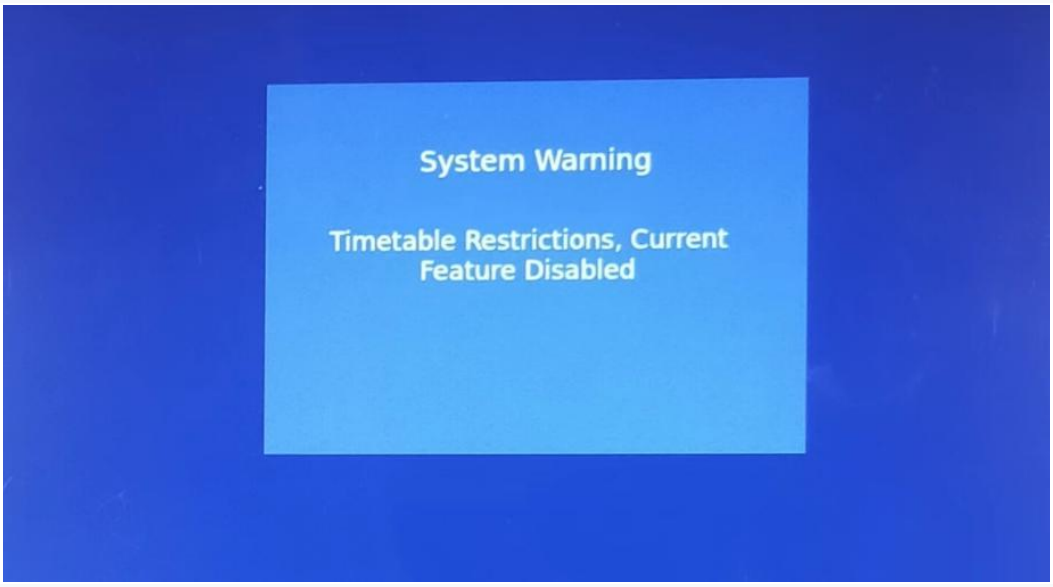
Allow card swiping to open the door time period interface. The interface displays a table, which can be moved Up/Down according to the key instructions. *Select the #

key to save, fill in the required time period, and select the day of the week. Press the # key to save and exit.

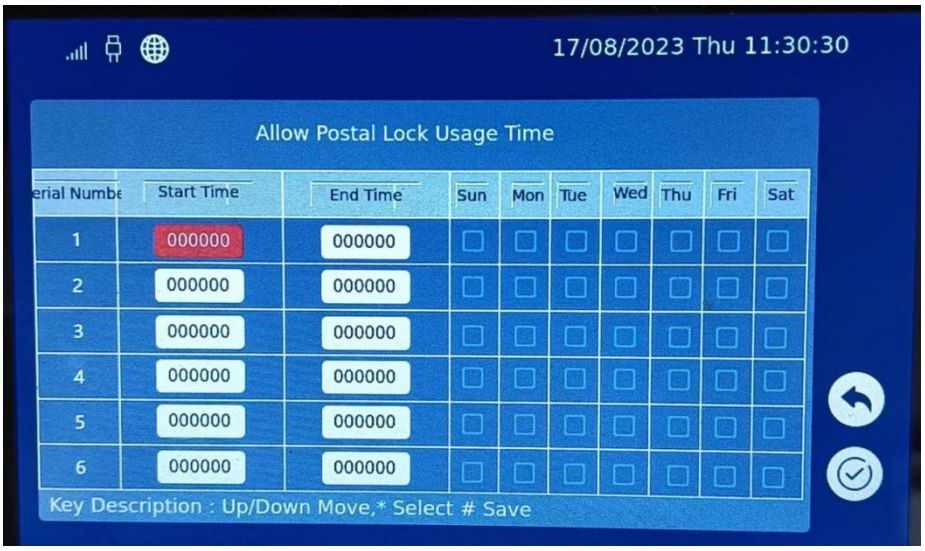
2.Press the up and down keys to select the allowed postal lock usage time you want to set, and press the # key to confirm and enter the allowed postal lock usage time interface.The interface displays three options: always, never, time period, the default is always; to allow the postal lock to use time, select always, then the postal lock use time is always allowed; to allow the postal lock to use time, select never, then the postal lock The lock usage time is always not allowed. For example, when the postal lock is used in this case, the system will warn: schedule limit, the current function is disabled!



Allow postal lock use time to select a time period, and the postal lock use must be within the time period setting range. If the postal lock is used beyond the time period setting range, the system will warn: Schedule restrictions, the current function is disabled!



Allow postal lock to use the time period interface. The interface displays a table, which can be moved Up/Down according to the key instructions. *Select the # key to save, fill in the required time period, and select the day of the week. Press the # key to save and exit.

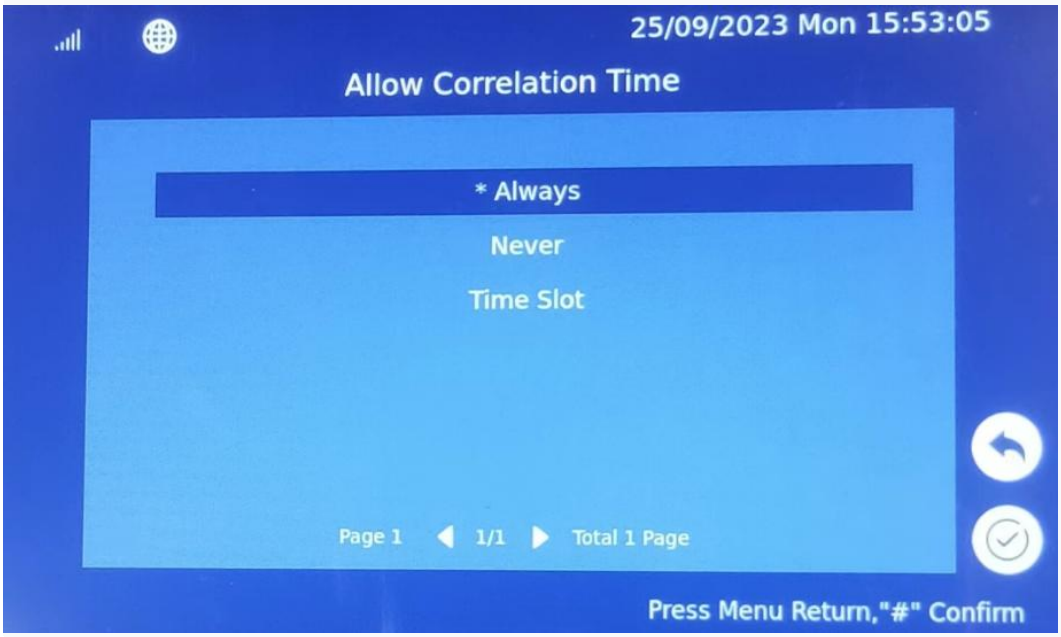


2.Press the up/down key to select the allowed association time you want to set, and

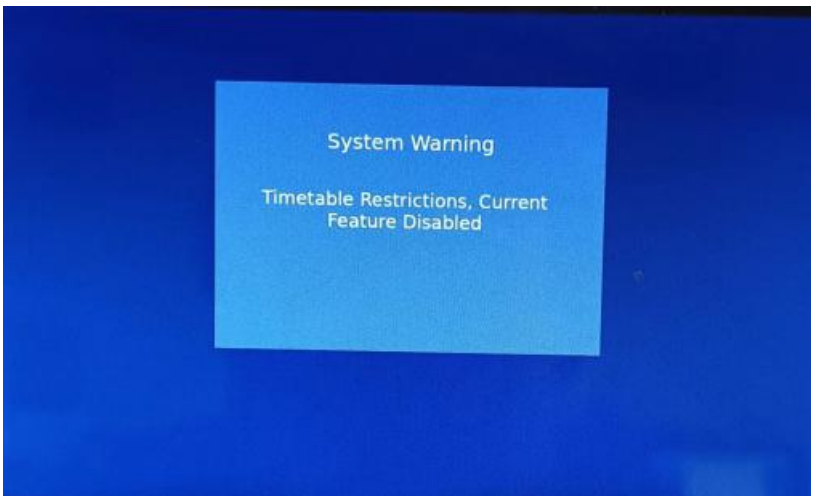
press the # key to enter the Allowed Association time screen:

The interface displays three options: Always, Never, and Time period. The default value is always.

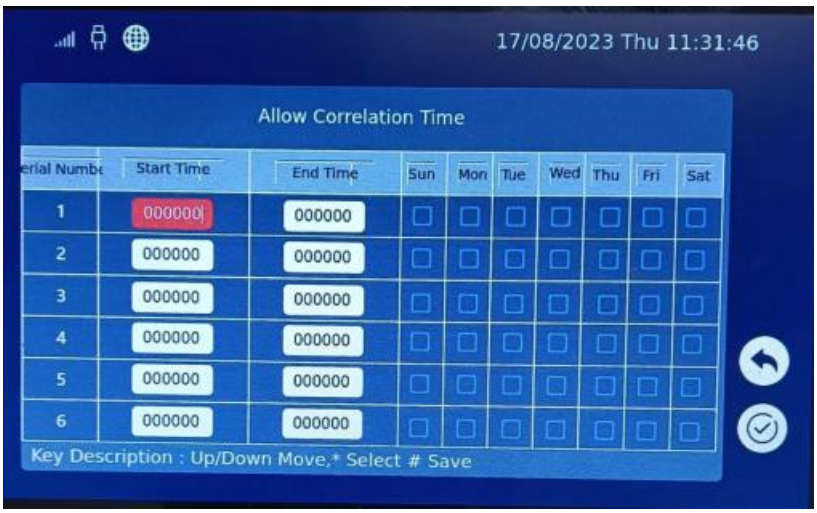
If the correlation time is always selected, the correlation time is always allowed; if the correlation time is never allowed, the correlation time is always not allowed. If correlation is used in this case, the system will warn: Schedule restrictions, current functionality is disabled!



If the correlation time is allowed to select a time period, then the correlation must be used within the time period setting range. When the correlation is used beyond the time period setting range, the system will warn: Schedule restrictions, the current function is disabled!



Allow correlation time period interface, the interface displays a table, which can be moved Up/Down according to the key instructions *Select the # key to save, fill in the required time period, and select the day of the week, press the # key to save and exit to the system setting interface



4.1.2.1.2.1.2.1.7 Unlock setting interface

4.1.2.1.2.1.2.1.7.1 Interface description

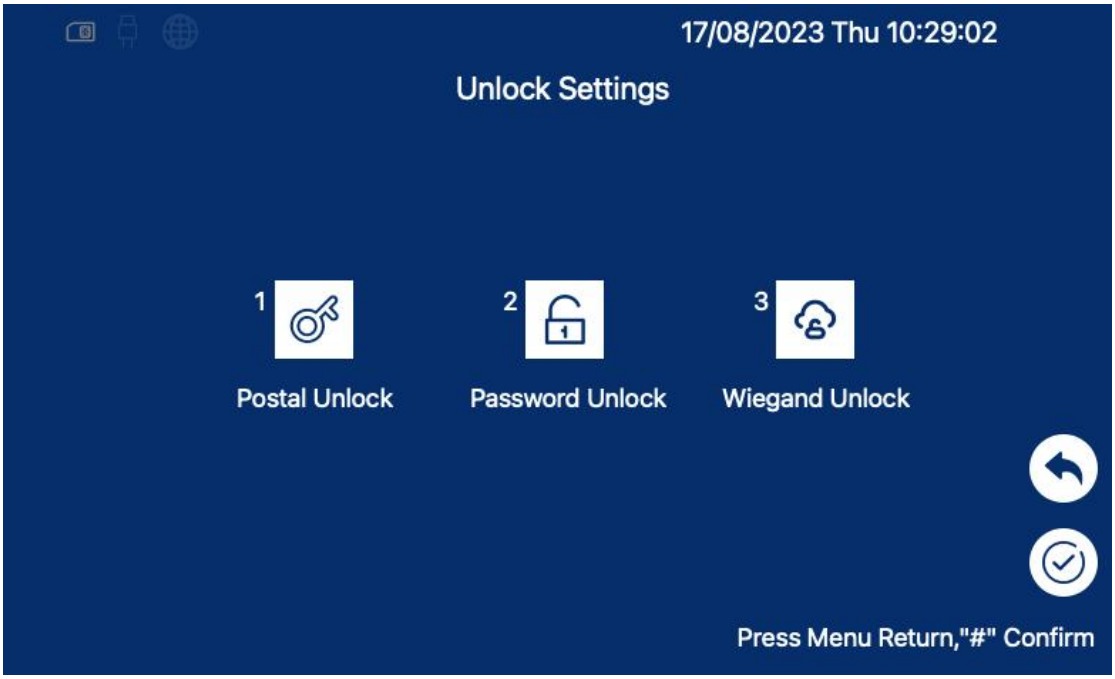
Select serial number 6 in the system setting interface to enter the unlocking setting interface. The interface displays:

1.Postal unlocking

2. Password unlocking

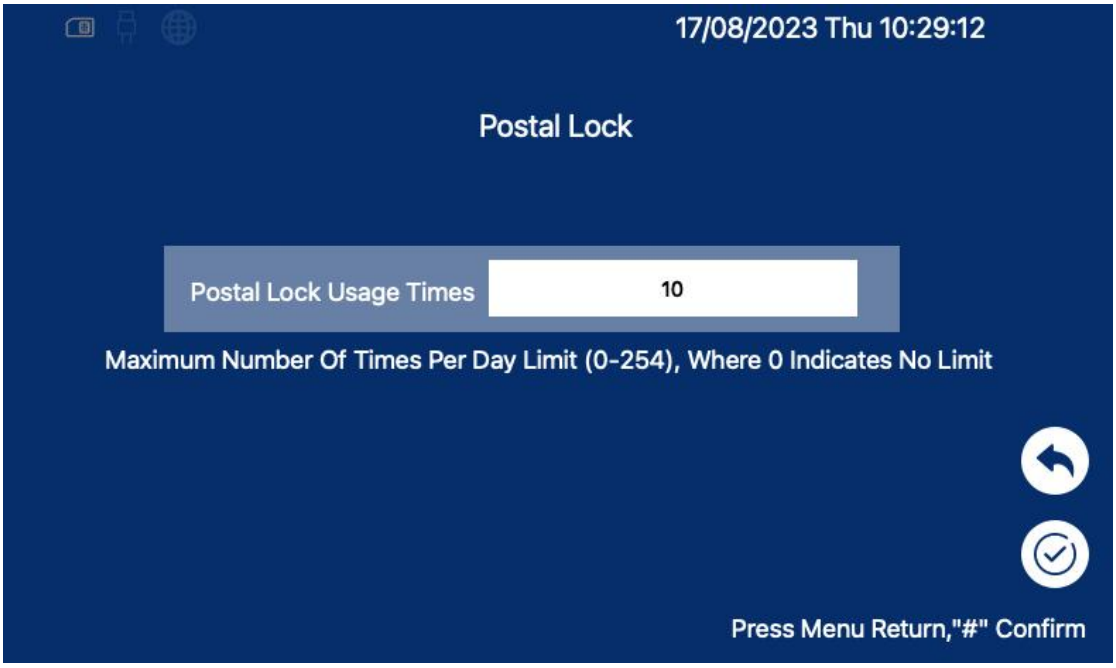
3.Wiegand unlocking

There are also prompts in the lower right corner (press Menu to return, # to confirm)



4. 1. 2. 1. 2. 1. 2. 1. 7. 2 **Operation Instruction**

一. In the unlock setting interface, press the number key 1 to enter the post unlock setting interface, where you can set the number of postal lock use, the maximum number of the day limit (0-254), 0 means unlimited, after the setting is completed, press the # key to save, key Menu to return



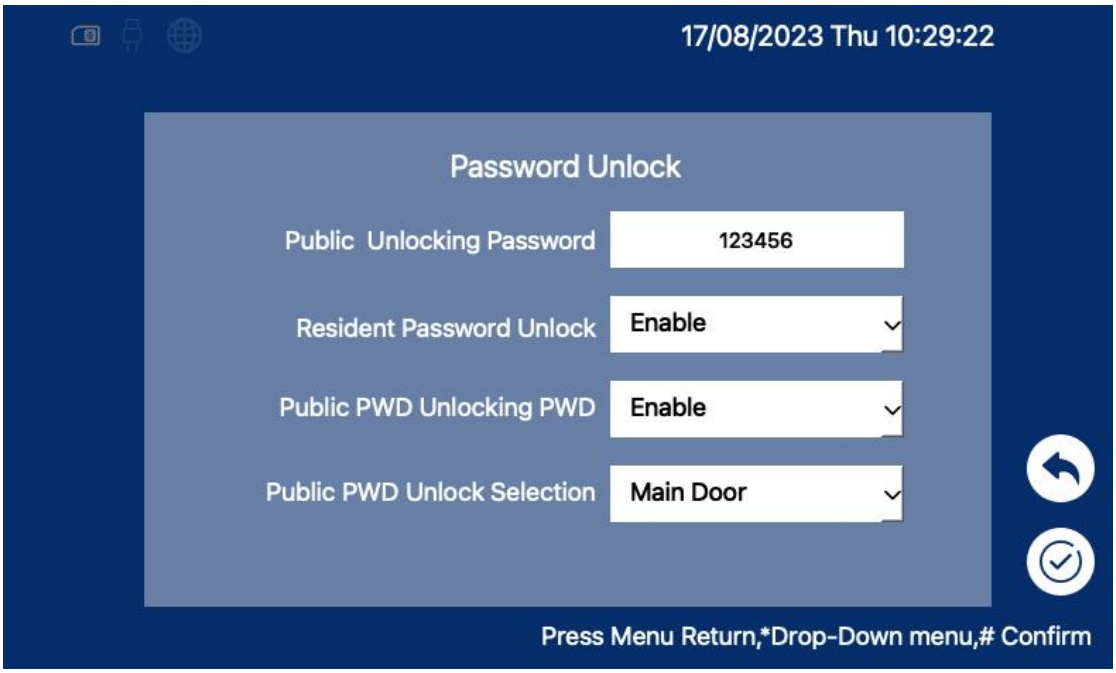
一. On the screen of unlocking Settings, press numeric keys. 2 Enter the screen of unlocking passwords.

The interface displays the public unlock password setting bar: (4-6-digit password setting);

Resident password unlocking selection bar: Enable & Disable, the default is enable;

Public password unlocking options: main door & Auxiliary door & all, default main door;

There are lower-right prompt instructions (key Menu return, * drop-down Menu, # confirm), set the password, select the parameters, press the # key to save, key menu return



三. In the unlocked setting interface, press the number key 3 to enter the unlocked setting interface, which displays the selection bar of Weigand 1: Main door & Auxiliary door & all, and selection bar of Weigand 2: Main door & Auxiliary door & All. Select the parameters, press # to save, and press Menu to return

4. 1. 2. 1. 2. 1. 2. 1. 8 **Log viewing interface**

4. 1. 2. 1. 2. 1. 2. 1. 8. 1 **Interface description**

On the system Settings Interface, select No. 7. The log viewing screen is displayed.

1. Visitor records
2. Unlock records
3. Alarm records

There is also the right corner prompt description (button Menu return, # to confirm)

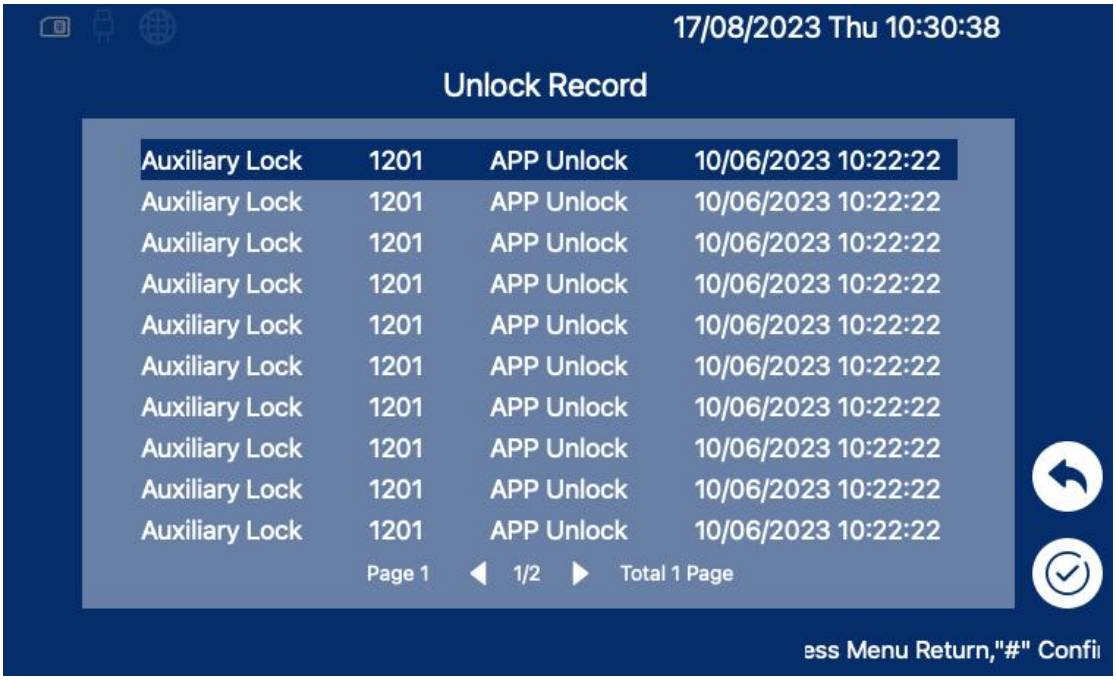
4. 1. 2. 1. 2. 1. 2. 1. 8. 2 **Operating instructions**

一. In the log viewing interface, press the number key 1 to enter the visitor record interface, which displays different dates of visitor records.

If you want to view, press the up and down key to select the desired date, press the # key to confirm entering the view, the access method room number and time will be displayed here, then you can also press the # key to view the visitor image, and press the Menu key to return after viewing.

二. On the log viewing screen, press numeric keys. 2 The lock unlocking record screen is displayed. Different dates of the lock unlocking record are displayed.

If you want to view, press the up or down key to select the desired date, press the # key to confirm entering the view, it will display the unlocking time to select the room number unlocking mode, and press the Menu to return after viewing



In the log viewing interface, press the number key 3 to enter the alarm record interface, which displays different dates of alarm record.

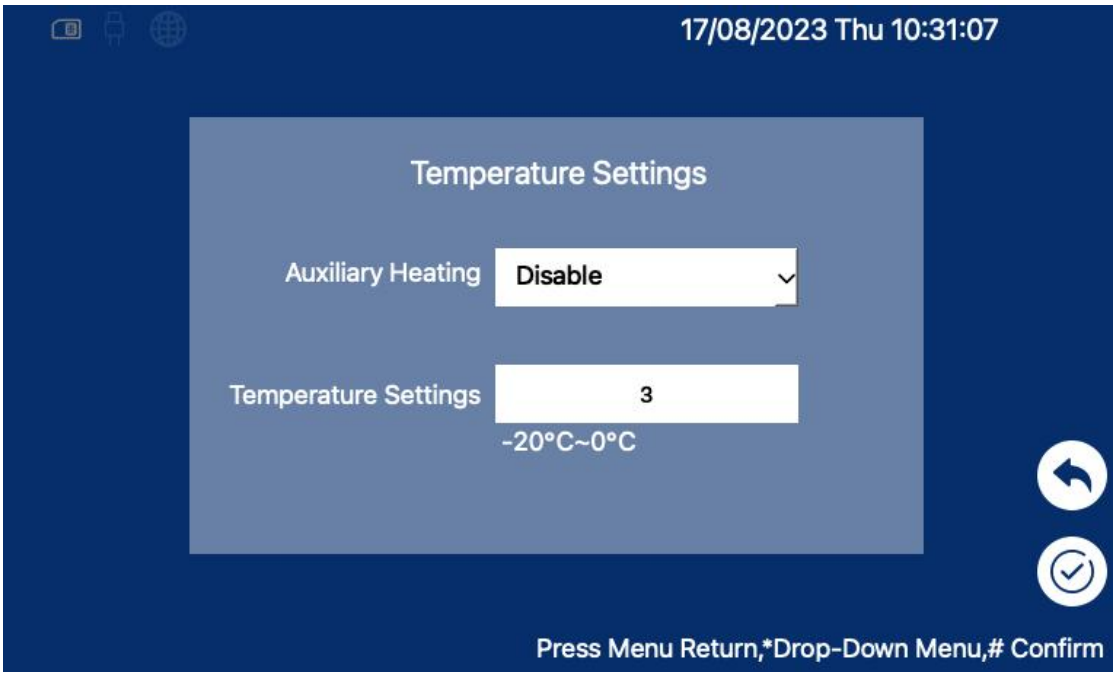
If you want to view, press the up or down key to select the desired date, press the #

key to confirm entering the view, the alarm category and time will be displayed here, and the key Menu will return after viewing

4.1.2.1.2.1.2.1.9 Temperature setting interface

4.1.2.1.2.1.2.1.9.1 **Interface description**

Select the serial number 8 on the system setting screen to enter the temperature setting screen, which displays the selection bar of auxiliary heating: Enable & Disable, and the input bar of temperature setting (temperature setting range: -20 ° C ~0 ° C).



4. 1. 2. 1. 2. 1. 2. 1. 9. 2 **Operating instructions**

On the temperature setting screen, select the parameter to be modified, press # to save it, and press Menu to exit the screen to complete the temperature setting operation.

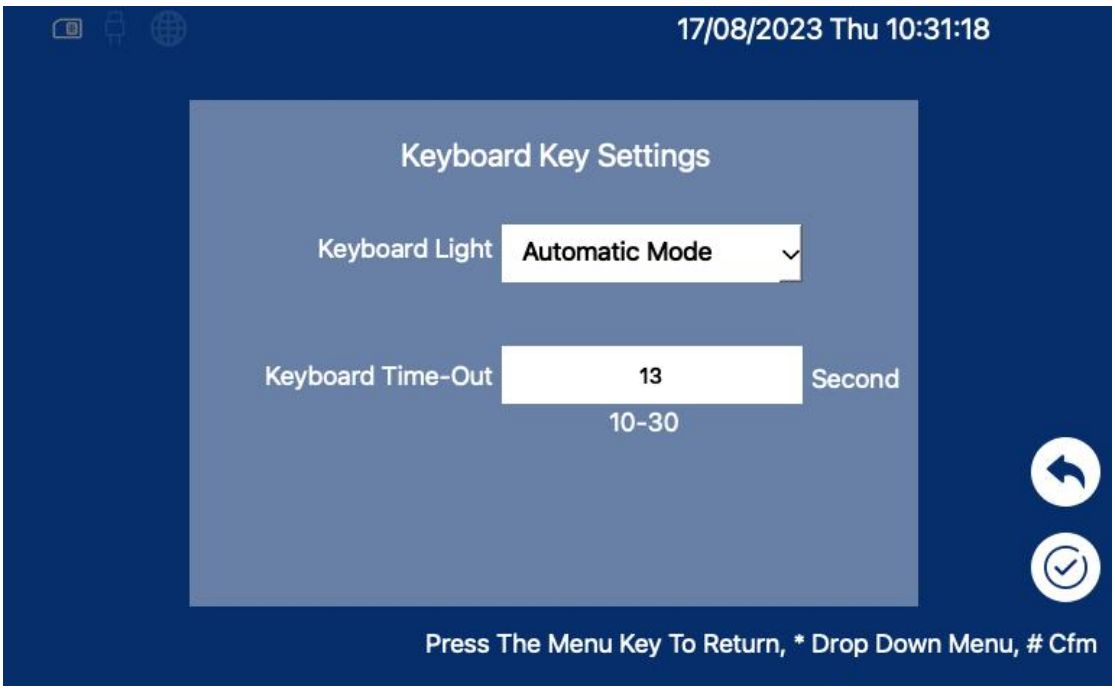
4. 1. 2. 1. 2. 1. 2. 1. 10 **Key setting interface**

4. 1. 2. 1. 2. 1. 2. 1. 10. 1 **Interface description**

In the system setting Interface, select No. 9 to enter the button setting Interface:

Interface display keyboard light selection bar: automatic mode & steady on mode, default is automatic mode;

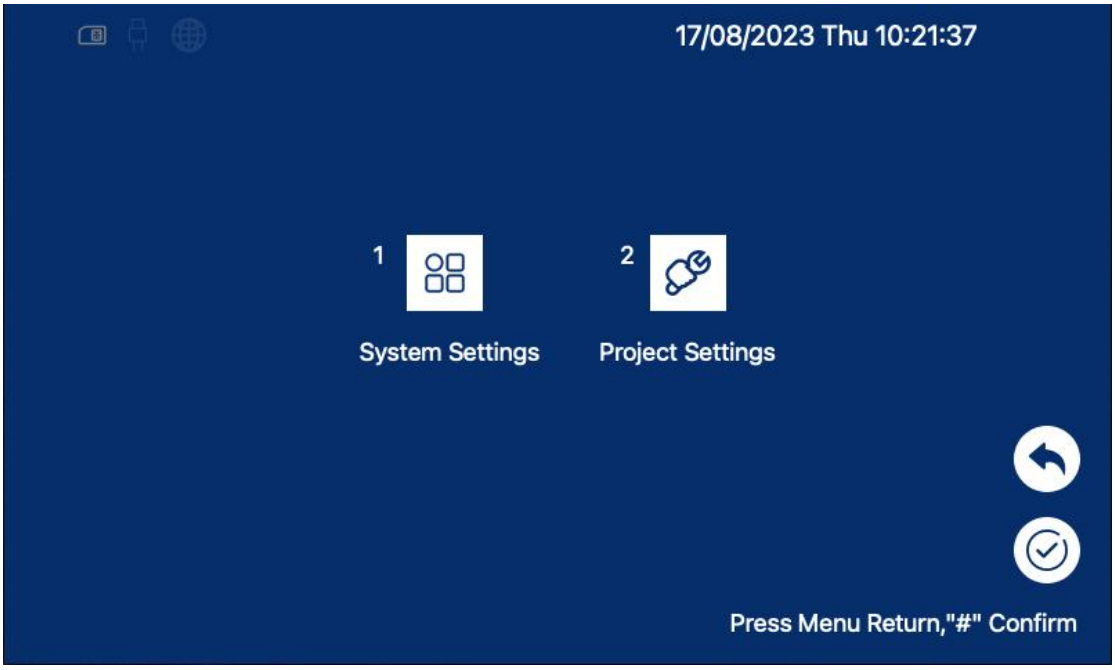
The default value of the keyboard timeout field (range: 10 to 30 seconds) is 10s. There is also the lower-right corner prompt description (button Menu to return, * drop-down menu, # to confirm)



4. 1. 2. 1. 2. 1. 2. 1. 10. 2 **Operating instructions**

In the key setting interface, select the parameter to be modified, press # to save it, and press Menu to exit the interface to complete the key setting operation

Press the Menu key to return to the 4.1.2.1.2.1.1 Settings screen



On the Settings interfacce, press 2 to enter the project Settings interface

4. 1. 2. 1. 2. 1. 2. 2 **Engineering setup interface**

4. 1. 2. 1. 2. 1. 2. 2. 1 **Interface description**

Select No. 2 and press # to confirm entering the project setting interface. The interface displays nine setting interfaces, which are:

1）Project password setting

2）System mode

3）Address setting

4）Input/output

5）DTMF setting

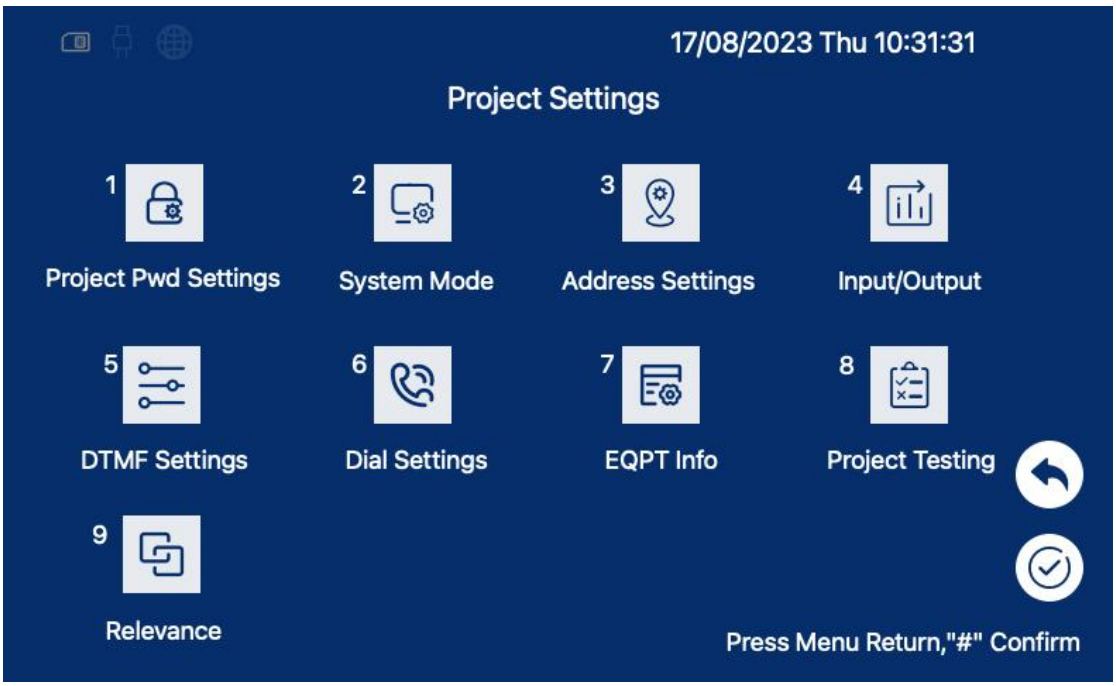
6）Dial Settings

7）Device information

8）Engineering testing

9）Relevance

There is also a prompt in the lower right corner (button Menu return, # to confirm)



4. 1. 2. 1. 2. 1. 2. 2. 2 Project password setting interface

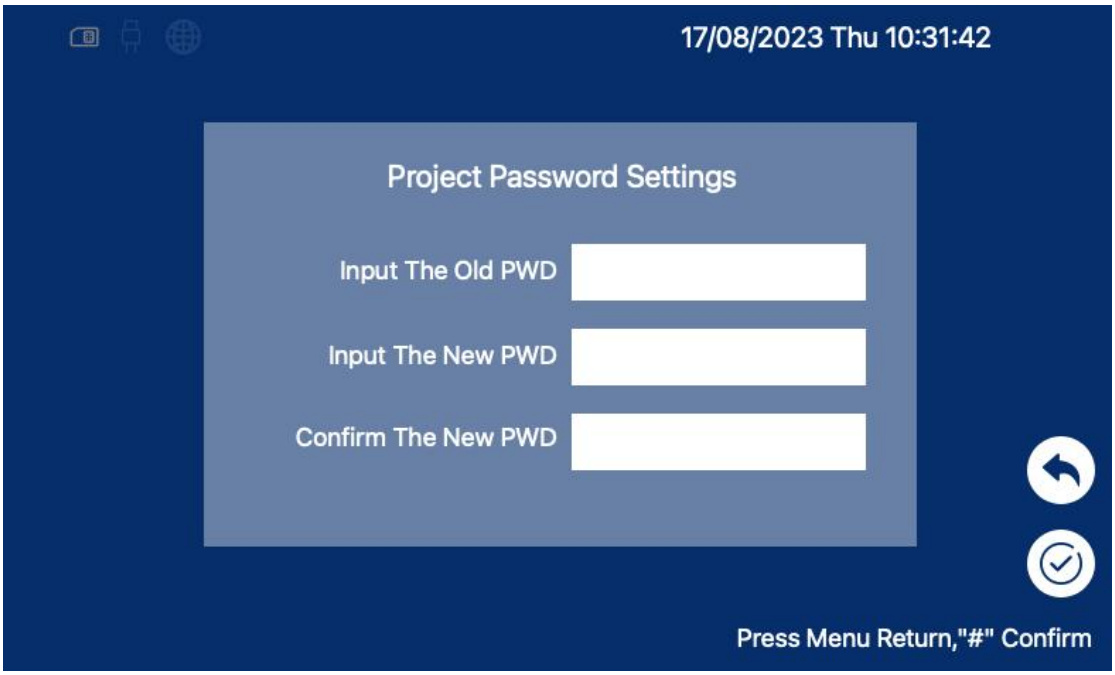
4. 1. 2. 1. 2. 1. 2. 2. 2. 1 **Interface description**

On the Project setting interface, select No. 1 to enter the Project password setting interface:

Interface display please enter the old password input field;

Please enter the new password input field;

Please confirm the new password input field, password parameters: 4-6 digits, and the lower right corner of the prompt description (button Menu return, # to confirm)



4.1.2.1.2.1.2.2.2.2 Ooperating instructions

In the Project password setting interface, enter the password to be set, press # to save, and press Menu to exit and return to the project setting interface, completing the project password setting operation

4.1.2.1.2.1.2.2.3**System mode selection Interface**

4.1.2.1.2.1.2.2.3.1 **Interface description**

Select No. 2 on the project setting interface to enter the System mode selection and setting interface, the interface displays:

1.4G mode

2.Telephone line mode

There is also a prompt in the lower right corner (button Menu return, # to confirm)

4.1.2.1.2.1.2.2.3.2 Operating instructions

In the system mode interface, switch the mode you want, according to the number switch:

When switching the 4G mode (no 4G module is detected, it is not selected, and the default is telephone line mode, select this mode, and the dialup related operations are handled by the 4G module module), the system will display: Switching to 4G mode successfully!

When switching phone line mode (no phone line is detected, no selection is given. If this mode is selected, the dial-related operations are handled by the phone line section), the system will display: Switching to phone line mode succeeded!

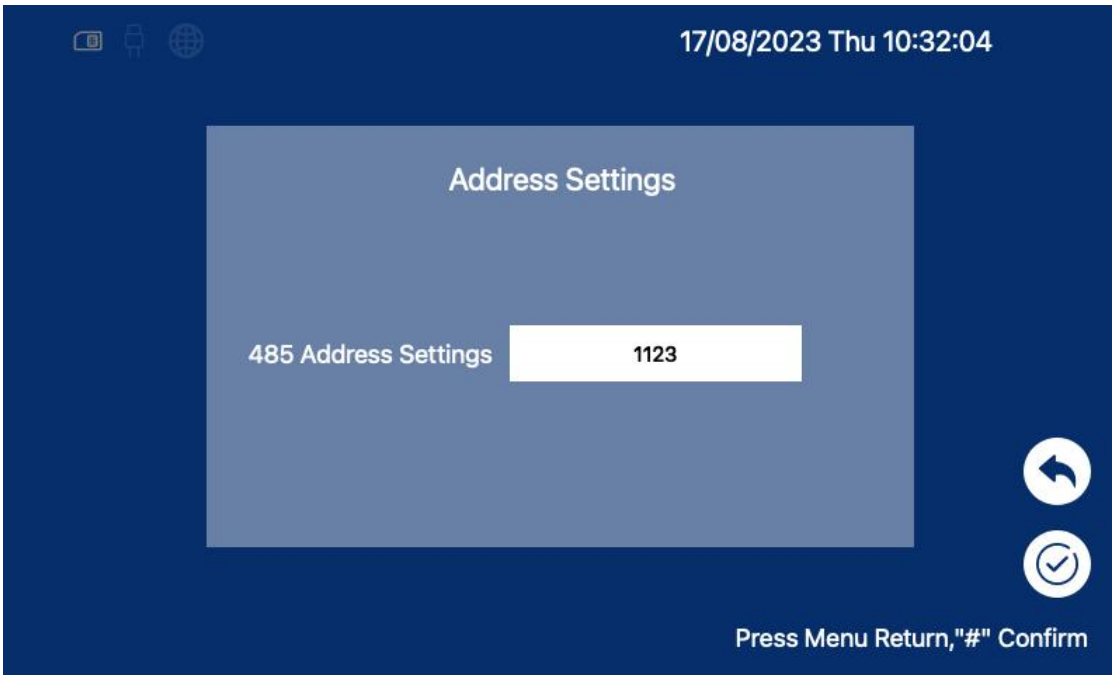
Press the Menu key to exit and return to the project setting interface, completing the system mode setting operation

4.1.2.1.2.1.2.2.4 Address setting interface

4.1.2.1.2.1.2.2.4.1 **Interface description**

On the project Settings Interface, select No. 3. The address Settings screen is displayed.

There is also a prompt in the lower right corner (button Menu return, # to confirm)



4.1.2.1.2.1.2.2.4.2 **Pperating instructions**

In the address setting interface, enter the parameters to be set, press # to save, press Menu to exit and return to the project setting interface to complete the address setting operation

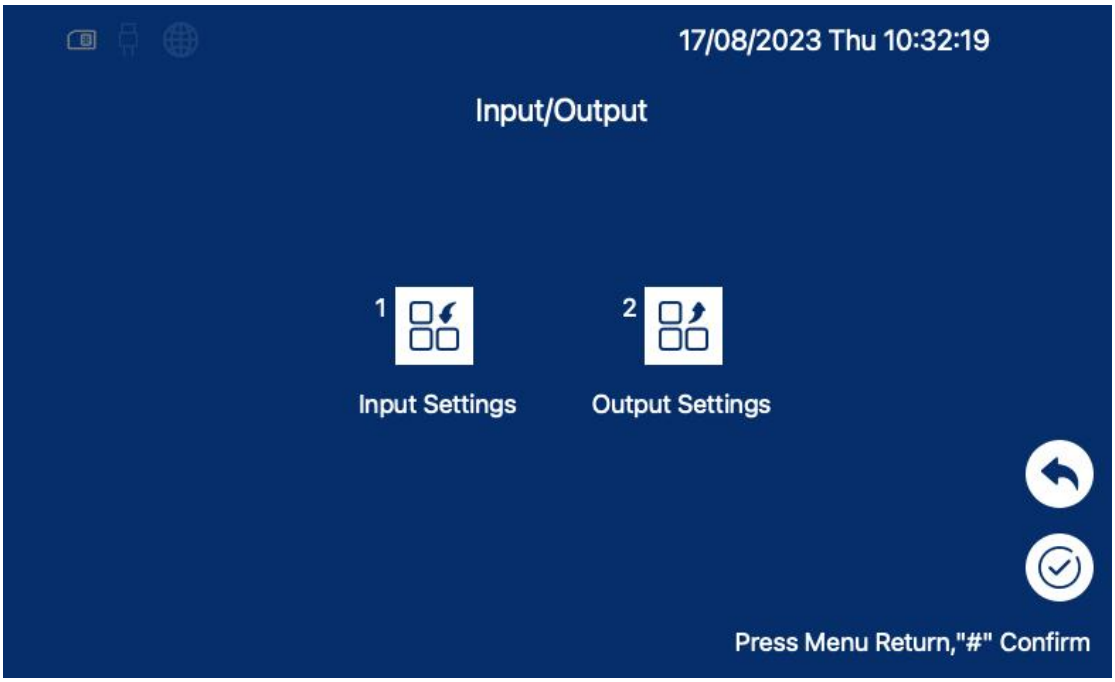
4.1.2.1.2.1.2.2.5 Input/output interface

4.1.2.1.2.1.2.2.5.1 **Interface description**

Select No. 4 in the project Settings interface to enter the input/output interface, the interface displays:

1. Input Setting
2. Output Setting

There is also a prompt in the lower right corner (button Menu return, # to confirm)



4.1.2.1.2.1.2.2.5.2 Operating instructions

On the input/output Interface, select No. 1 to enter the input setting screen:

Interface display post lock selection bar: unsupervised & open & short circuit, the default is short circuit;

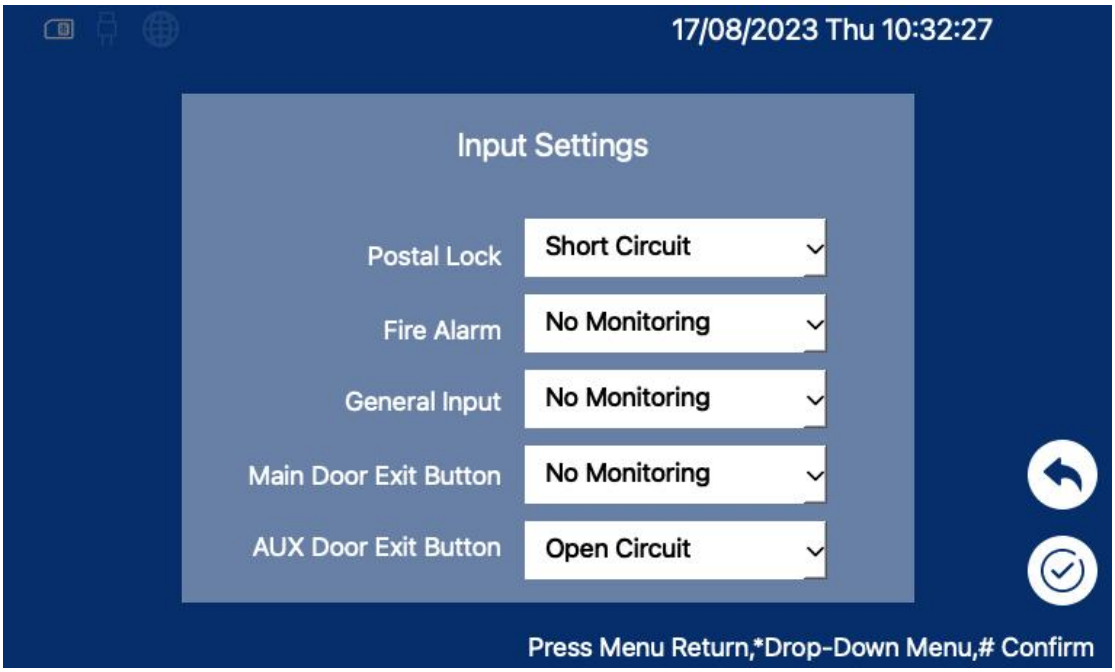
Fire alarm selection bar: Unsupervised & open & short circuit, short circuit by default;

General input selection field: Unsupervised & Open & short circuit, default is unsupervised;

Main door exit button selection bar: Unsupervised & Open & short circuit, default is unsupervised;

Auxiliary door exit button selection bar: Unsupervised & Open & short circuit, default is unsupervised,

There are also prompts in the lower right corner (button Menu to return, * drop-down menu, # to confirm)



In the input setting interface, select the parameters to be set, press # to save, press Menu key to exit and return to the project setting interface, complete the input setting operation (trigger mode of input detection, unsupervised means no detection, open circuit means disconnect trigger, short circuit means short contact. Open the main door lock when triggered during the valid time period)

On the input/output screen, select No. 2 to enter the output setting screen:

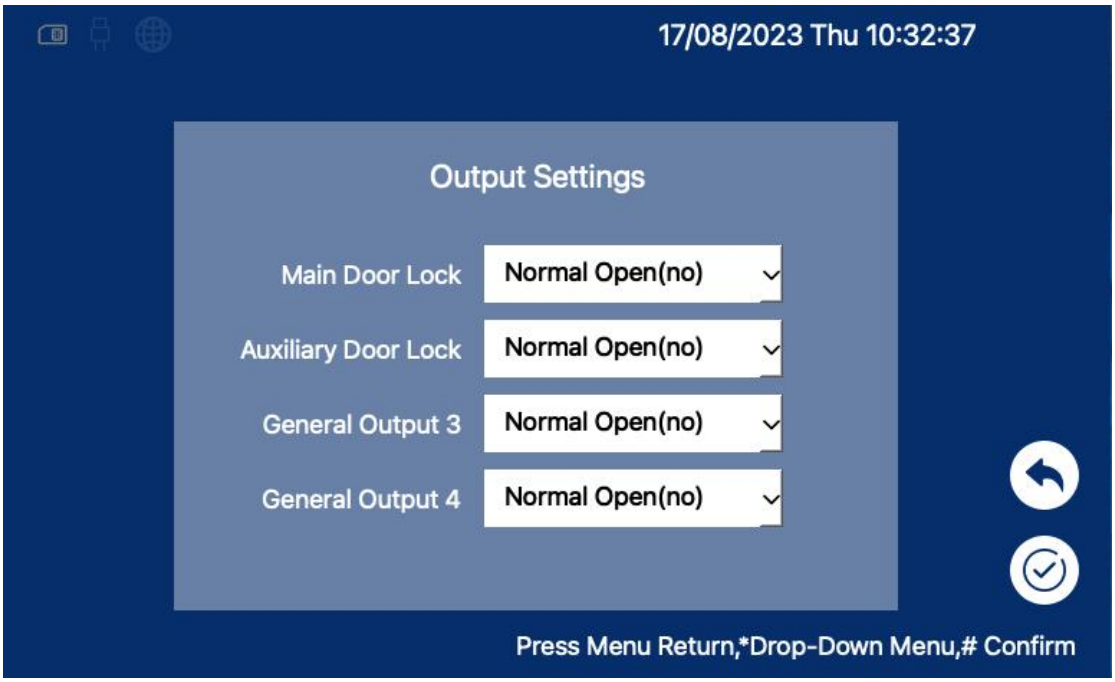
The interface displays the main door lock selection bar: normally open & normally closed, the default is normally open;

Auxiliary door lock selection bar: normally open & normally closed, the default is normally open;

General output 3 Selection bar: Normally open & Normally closed, the default is normally open;

General output 4 Selection bar: Normally Open & Normally closed, default is normally open,

There are also prompts in the lower right corner (button Menu to return, * drop-down menu, # to confirm)



In the output setting interface, select the parameters to be set, press # to save, press Menu to exit and return to the project setting interface to complete the output setting operation

4. 1. 2. 1. 2. 1. 2. 2. 6 **DTMF Setting Interface**

4. 1. 2. 1. 2. 1. 2. 2. 6. 1 **Interface description**

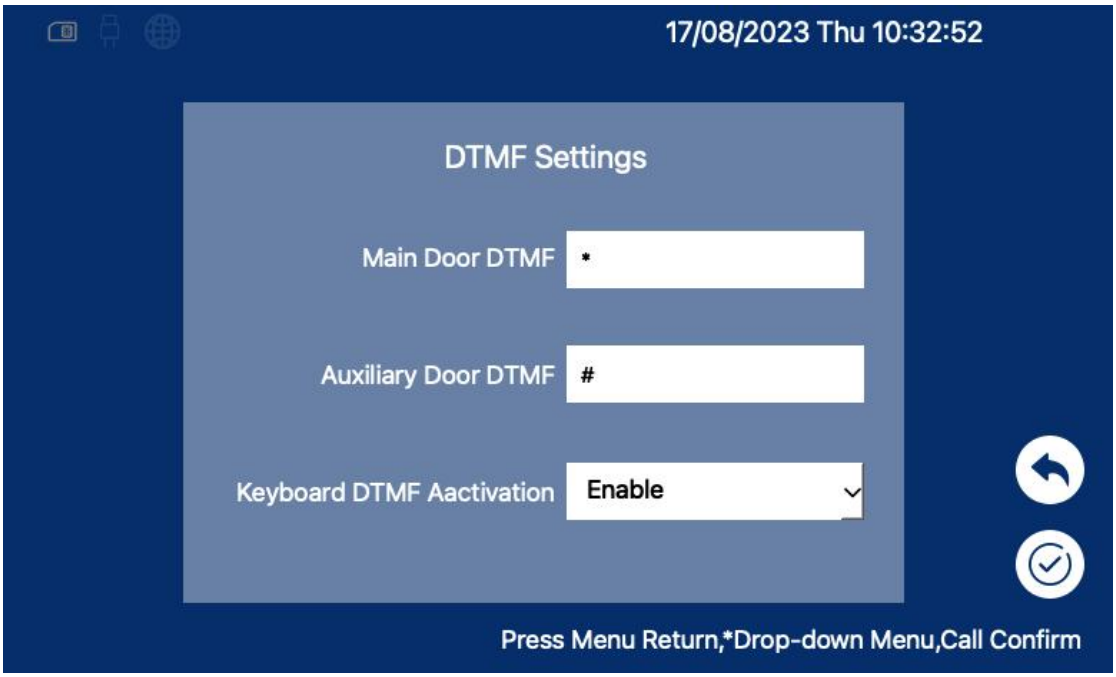
Select No. 5 on the project setting interface to enter the DTMF setting interface, which displays the DTMF setting information of the device:

Main door DTMF input field, parameters: 0/1/2/3/5/6/7/8/9/*/#, the default value is *;

Auxiliary door DTMF input field. The parameters are 0/1/2/3/5/6/7/8/9/*/#. The default value is #

Keyboard DTMF activation selection bar: Enable & Disable, the default is enabled;

There are also prompts in the lower right corner (key Menu to return, * drop-down menu, Call key to confirm



4. 1. 2. 1. 2. 1. 2. 2. 6. 2 **Operating instructions**

In the DTMF setting interface, select the parameters to be set, press the Call key to save, press the Menu key to exit and return to the project setting interface, and complete the DTMF setting operation (Note: the DTMF value of the main door cannot be the same as that of the auxiliary door).

4. 1. 2. 1. 2. 1. 2. 2. 7 **Dial setting interface**

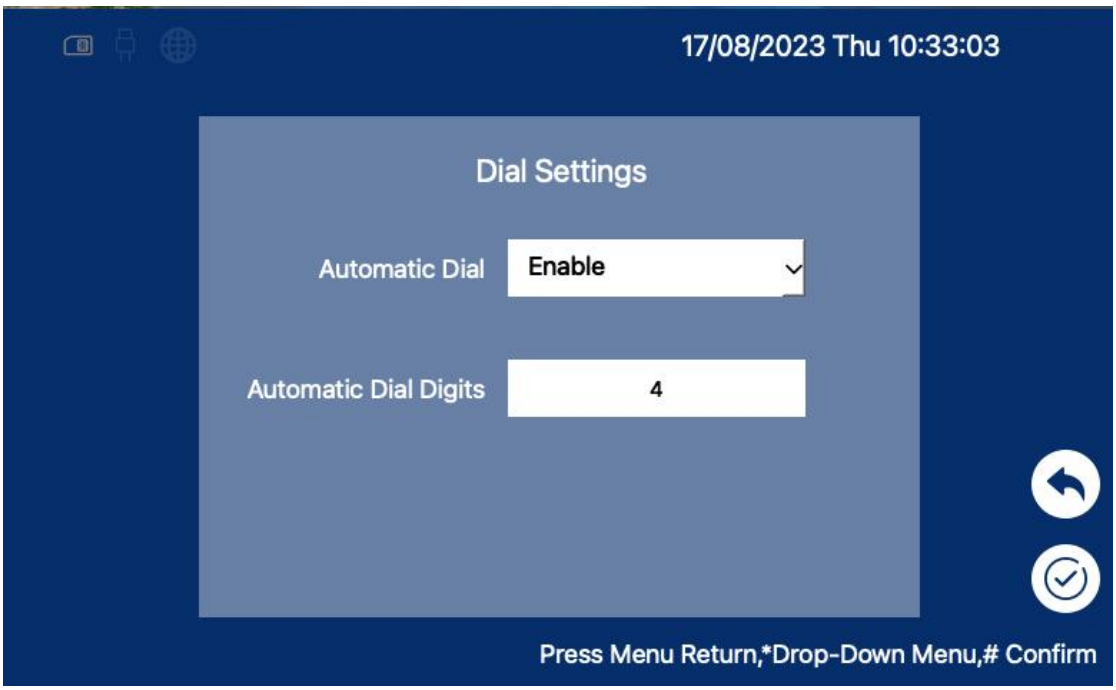
4. 1. 2. 1. 2. 1. 2. 2. 7. 1 **Interface description**

Select No. 6 on the project setting interface to enter the dial setting interface, which displays the dial setting information of the device:

Auto dialing selection bar: Enable & Disable, disabled by default;

Automatic dial number input field, parameters: 1-6 digits, the default is 4 (After automatic dialing is enabled, when the visitor calls the household, only need to enter the set dial number to automatically call, no need to press the call key to confirm, if the number of digits is not enough, still need to press the call key to confirm.) ;

There are also prompts in the lower right corner (button Menu to return, * drop-down menu, # to confirm)



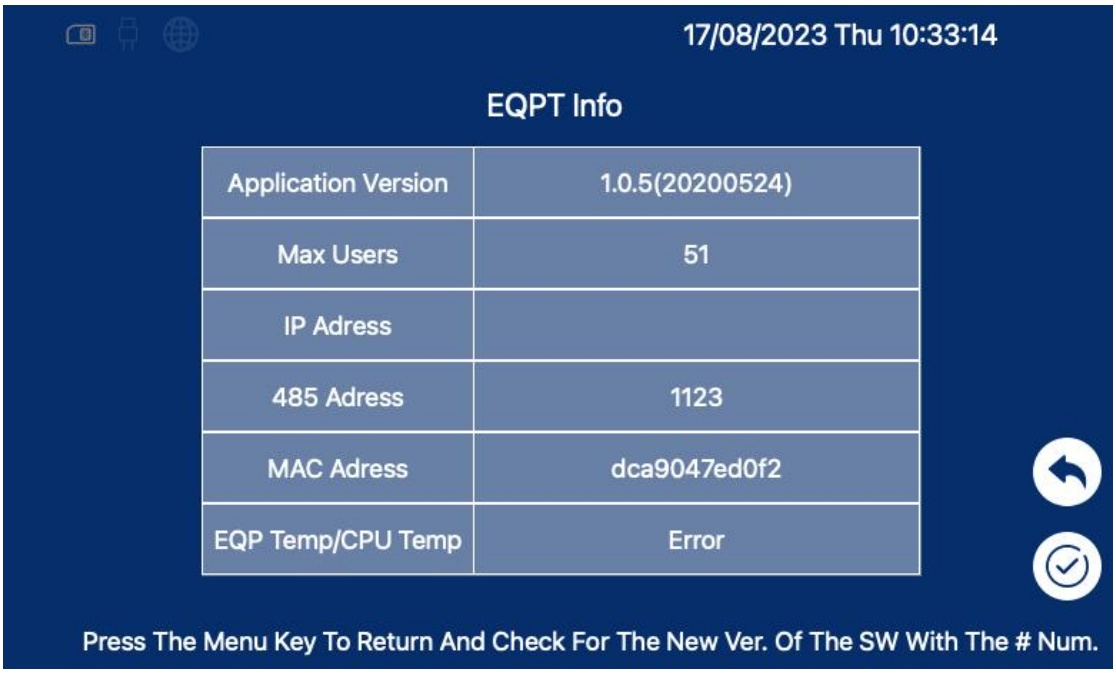
4.1.2.1.2.1.2.2.7.2 **Operating instructions**

In the dialup setting interface, select the parameters to be set, press # to save, press Menu to exit and return to the project setting interface to complete the dialup setting operation

4.1.2.1.2.1.2.2.8 Device information interface

4.1.2.1.2.1.2.2.8.1 **Interface description**

Enter the device information interface, you can view the device application version, MCU version, maximum number of users, IP address, 485 address, MAC address, device temperature /CPU temperature, and the prompt description in the lower right corner (press Menu key to return, # to check the new software version).



You can press # to check the new version of the software. If there is a new version of the software, it will be automatically upgraded. After checking, press the Menu key to return to the project setting interface

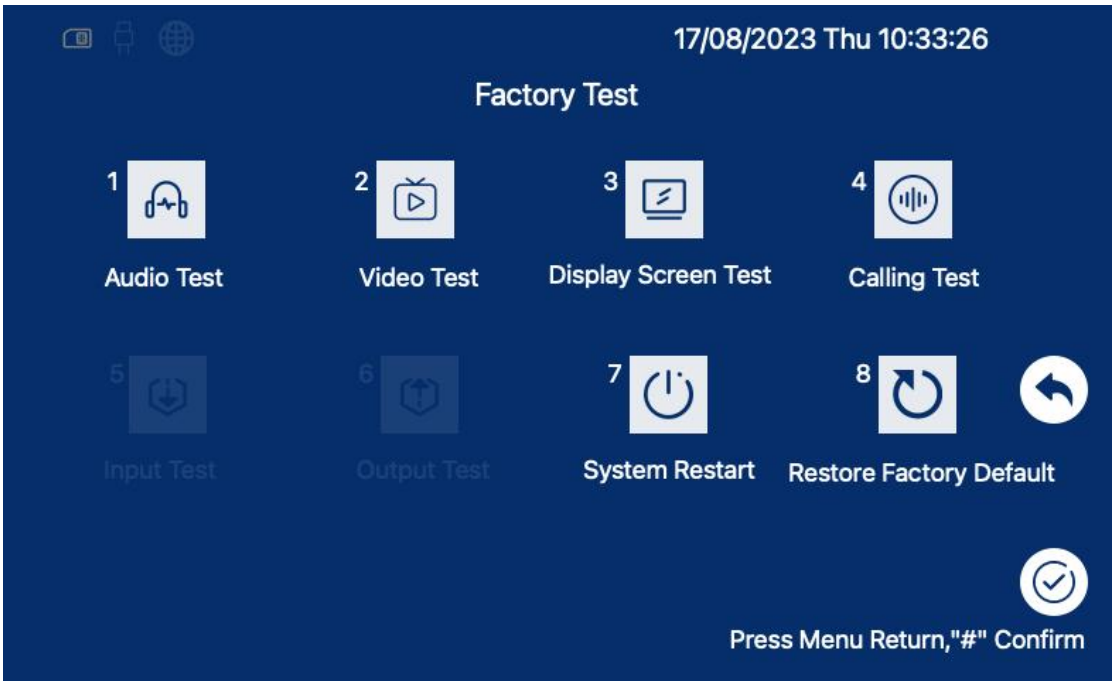
4.1.2.1.2.1.2.2.9 Engineering test interface

4.1.2.1.2.1.2.2.9.1 **Interface description**

Select No. 8 on the project setting interface to enter the factory test interface, the interface displays：

1. Audio test
2. Video test
3. Display test
4. Voice test
5. Input test (TBD)
6. Output test (TBD)
7. The system restarts
8. Restore factory Settings

There is also a prompt in the lower right corner (button Menu return, # to confirm)



4. 1. 2. 1. 2. 1. 2. 2. 9. 2 **Operating instructions**

In the factory test screen, select No. 1 to enter the audio (Recording & Playback) test screen:

The recording status is displayed: Waiting for recording.

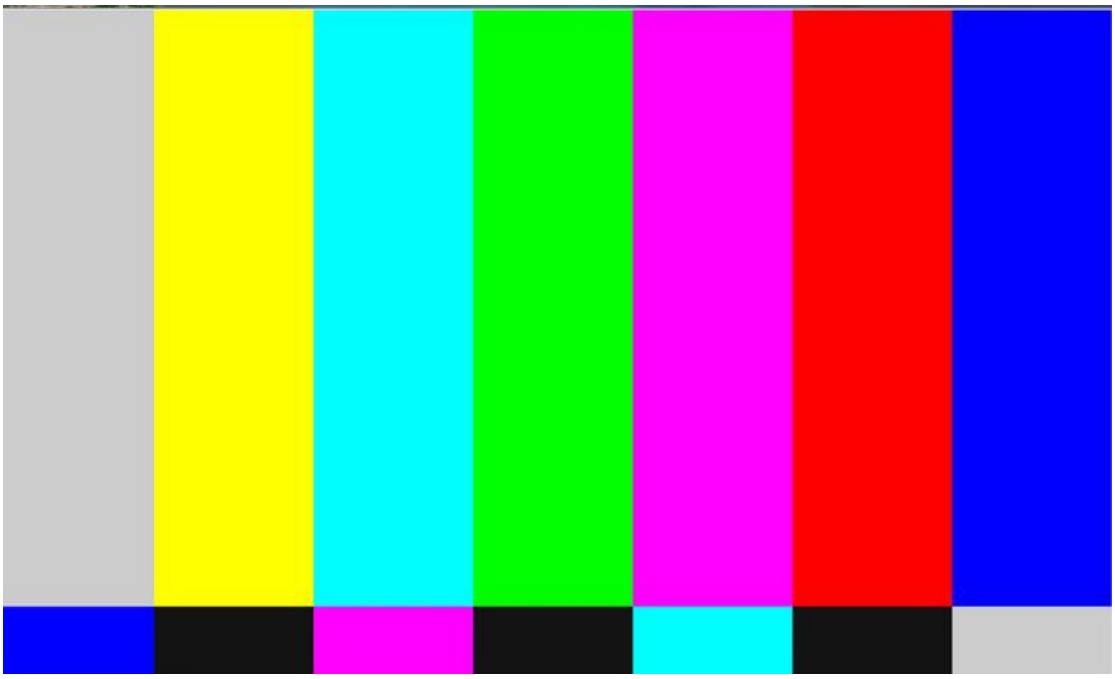
Playing status: Waiting to play;

There are also instructions in the lower right corner (button Menu to return, * Start recording, # stop recording and play recording)

Follow the prompts to complete the recording & playing test, and press Menu to return to the factory test interface.

In the factory test interface, select the serial number 2 to enter the video test, the interface displays the current camera data image, the test is completed, and press the Menu button to return to the factory test interface

In the factory test interface, select the serial number 3 to enter the screen test, the screen will display the color bar, the test is completed, and the Menu button will return to the factory test interface



In the factory test interface, select No. 4 to enter the voice (Recording & Playback) test:

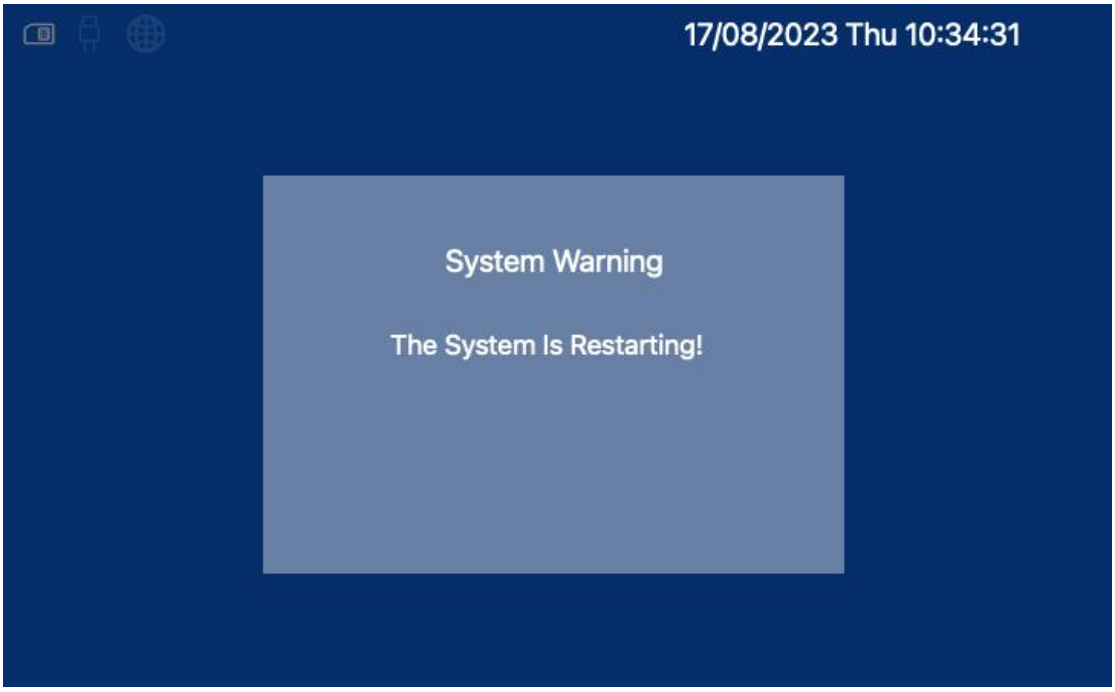
The recording status is displayed: Waiting for recording.

Playing status: Waiting to play;

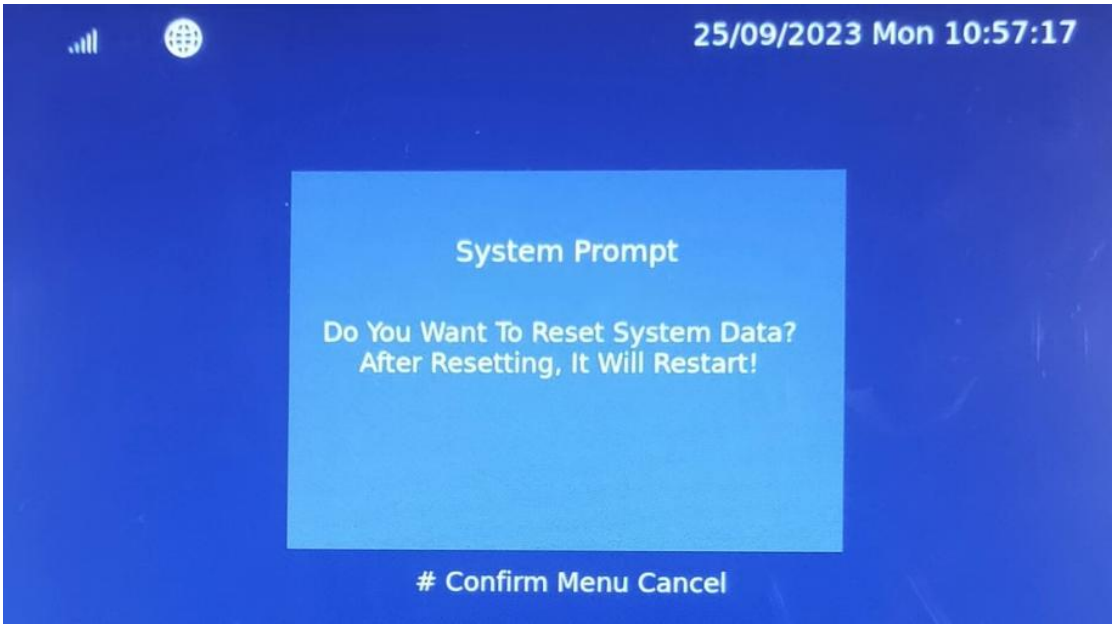
There are also instructions in the lower right corner (button Menu to return, * Start recording, # stop recording and play recording)

Follow the prompts to complete the recording & playing test, and press Menu to return to the factory test interface.

Select serial number 7 in the factory test interface to restart the system.



After selecting serial number 8 on the factory test screen, the system will display a prompt: Do you want to reset system data? It will restart after reset! Press # to confirm reset system data, button Menu to cancel and return to factory test interface



Then the project test is completed, and the Menu button returns to the project setting

interface

4.1.2.1.2.1.2.2.10 Correlation interface

4.1.2.1.2.1.2.2.10.1 Interface description

Select No. 9 in the project Settings interface to enter the Association interface, the interface displays:

Output action selection bar of triggering general output 3: On & off, the default is off (output action is set to on, and when the trigger conditions are met, the general output 3 is triggered, and the countdown is over, the general output 3 is reset);

Trigger condition selection bar: postal lock/fire alarm/general input/main door unlock/auxiliary door unlock, default is postal lock;

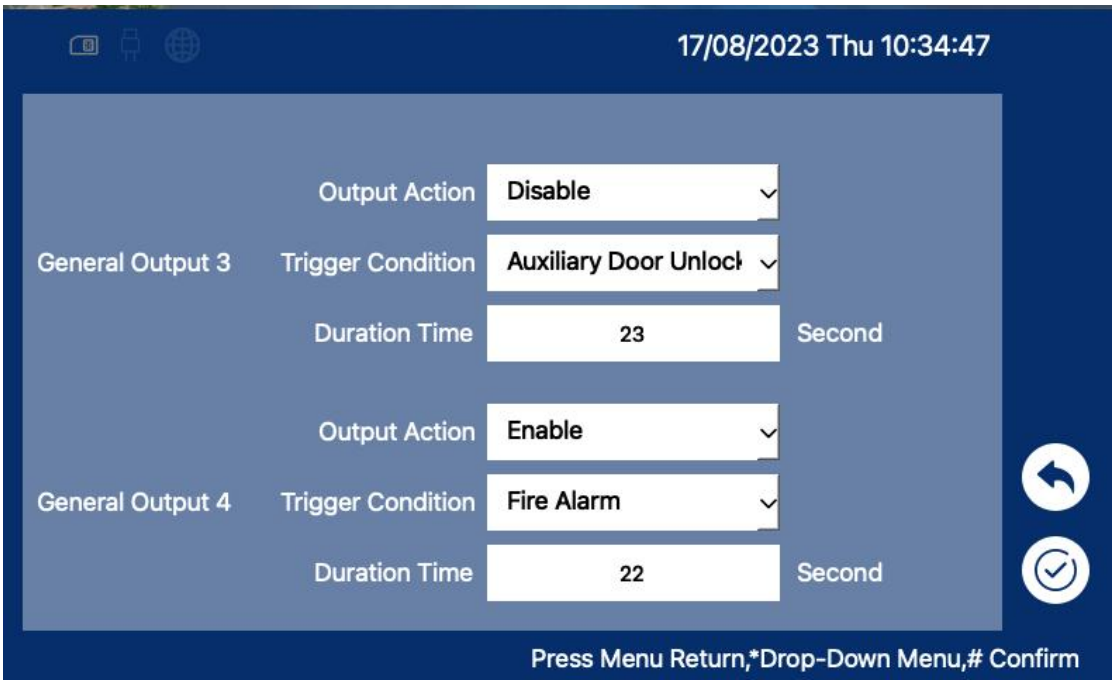
Duration in the column: The default value is 30 seconds (parameter: 0-255 seconds);

Output action selection bar of triggering general output 4: On & off, default is off (output action is set to on, and when the trigger conditions are met, the general output 4 is triggered, and the countdown ends, the general output 4 is reset);

Trigger condition selection bar: postal lock/fire alarm/general input/main door unlock/auxiliary door unlock, default is postal lock;

Duration in the column: The default value is 30 seconds (parameter: 0-255 seconds);

There are also prompts in the lower right corner (button Menu to return, * drop-down menu, # to confirm)



4.1.2.1.2.1.2.2.10.2 Operating instructions

In the Association interface, select the parameters to be set, press # to save, press Menu to exit and return to the project setting interface to complete the association setting operation.

5 system operation

5.1 Visitor call (voice intercom and video intercom)

5.1.1Visitor enters room number directly to call

After all Settings are completed, press the Menu key to return to the main menu interface

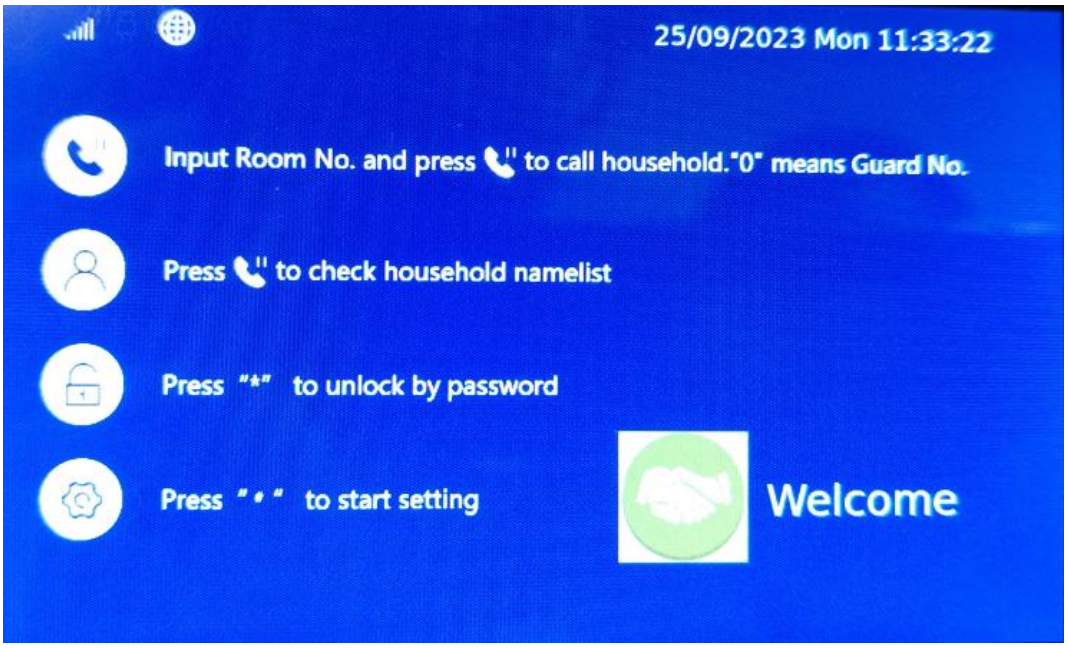
1 Enter the room number and press Call . 0 is the alarm position

2 Click View resident list

3 Press“*” Perform password unlock

4 Press“#” enter setup

5 Set the Logo according to your needs

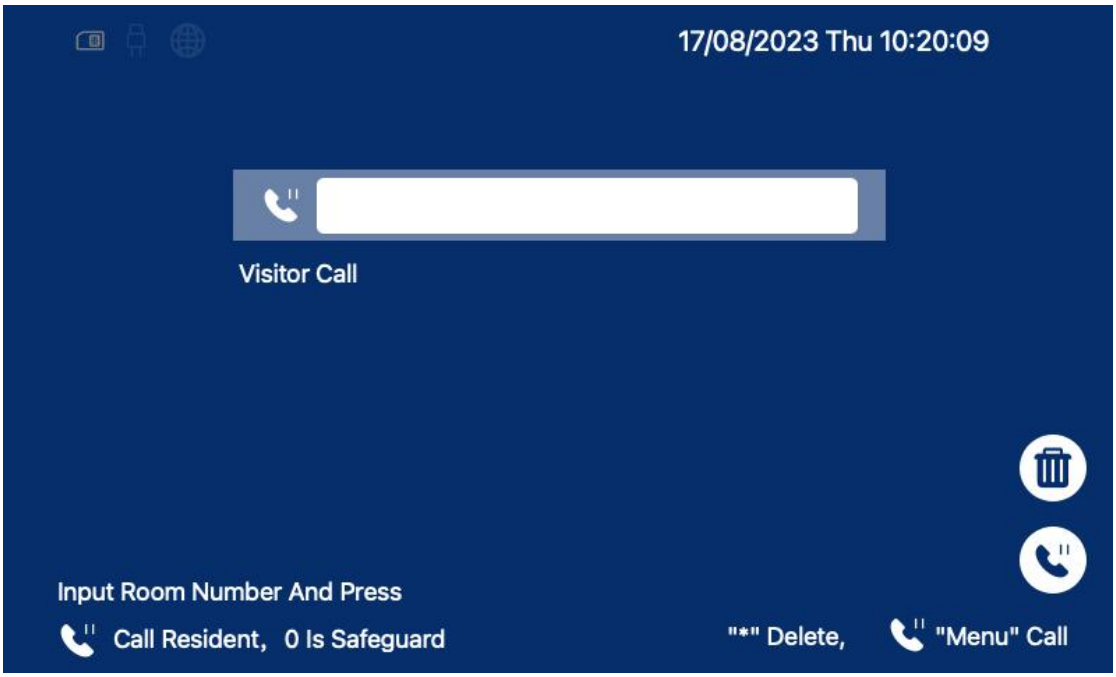


5.1.1.1 Voice intercom

Enter the room number and press calling，0 for Admin.

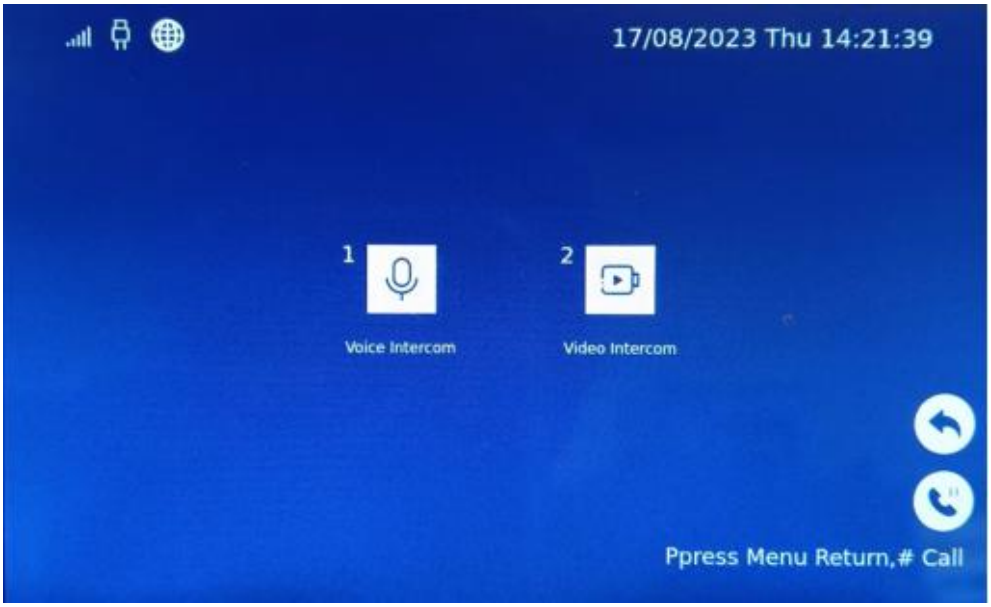
5.1.1.1.1 Interface description

Enter the room number directly in the main interface to enter the visitor call interface, the interface will display the room number input bar (the room number added in the resident management), and prompt instructions to enter the room number and press calling，0 for Admin number，Press* delete， calling

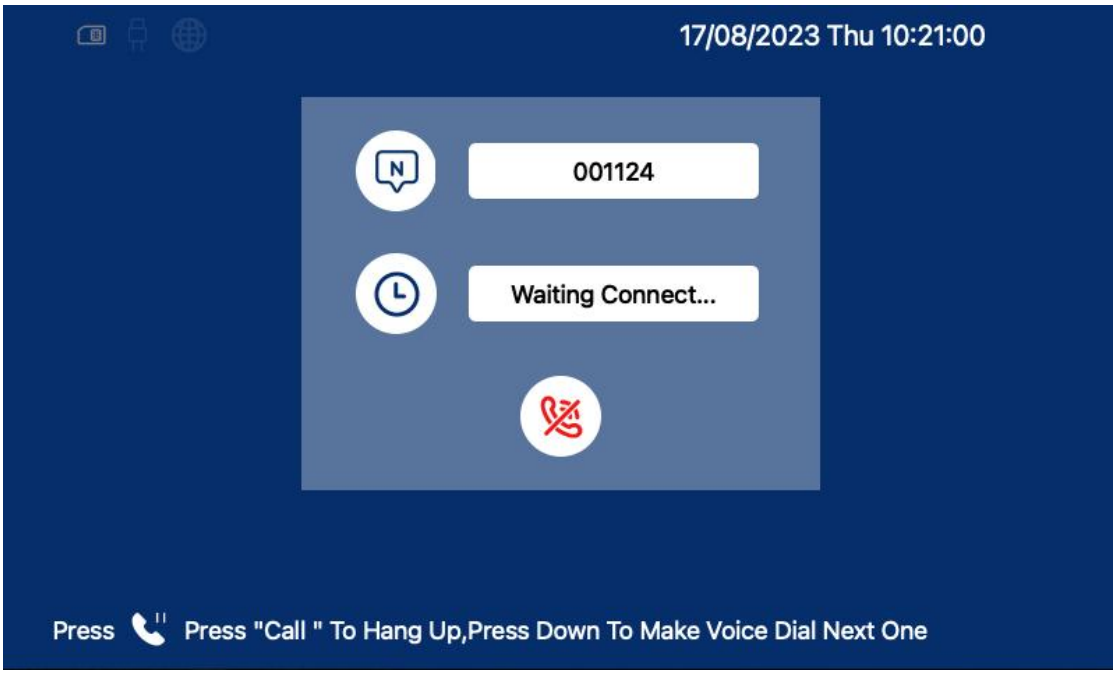


5.1.1.1.2 Enter the room number and press calling Enter the intercom mode selection interface:

1. Audio intercom
2. Video Intercom



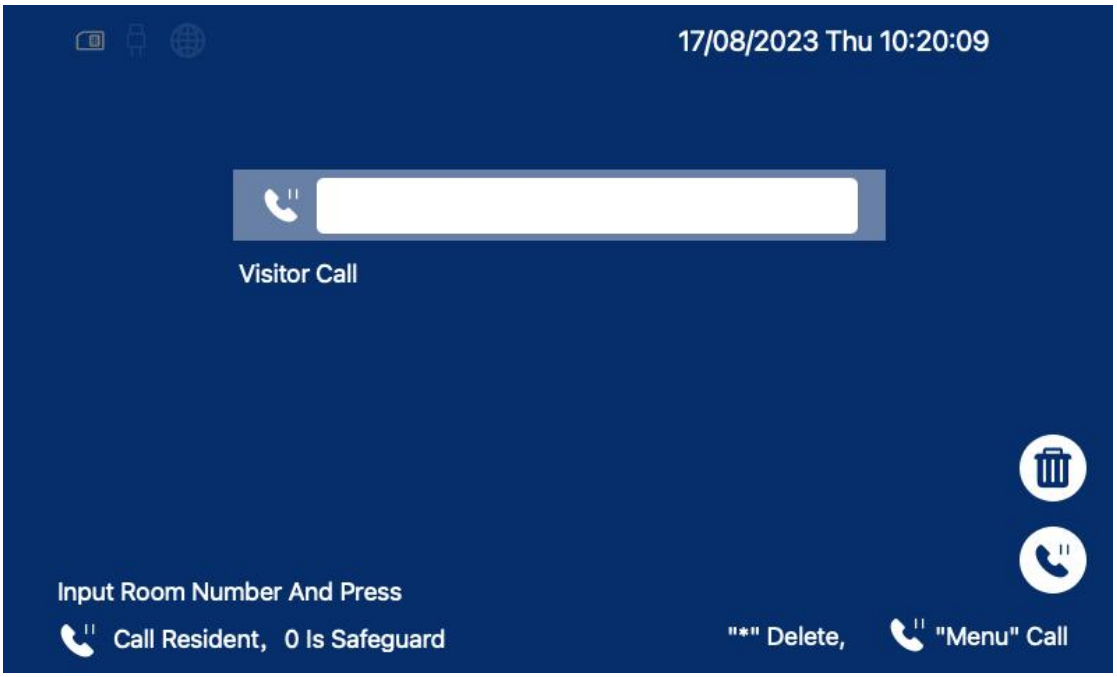
Press 1 to enter the voice call interface, the interface displays the room number display, call time display bar (before not connected, it will display: Waiting for the other party to connect...) And the instructions in the lower left corner（press hang up, Down Dial next）



If the call timeout is not answered, the call is automatically called to the next number, or press the Down key to call the next number, after connecting, the household will use the mobile phone to press the keyboard to send DTMF code, open the main door or auxiliary door,press , After hanging up, the system will automatically return to the main screen

5.1.1.2 Video Intercom

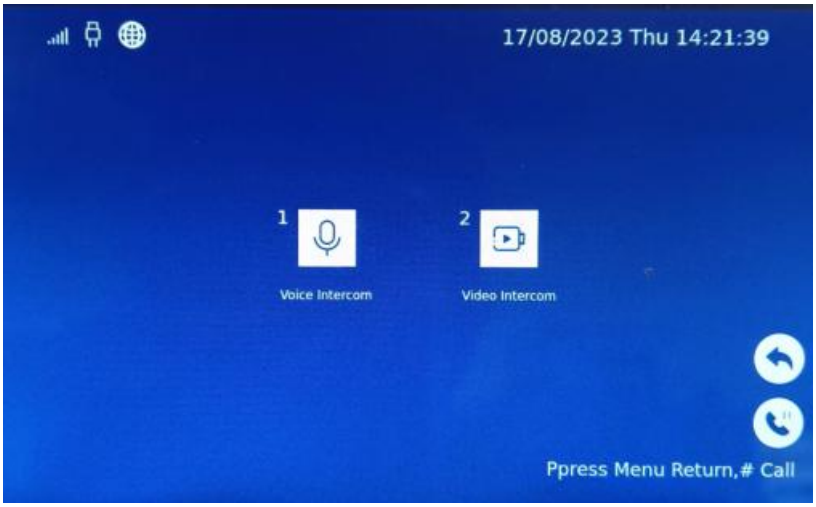
5.1.1.2.1 Repeat the above steps: enter the room number to enter the guest call screen, the screen will display the room number input field (add the room number in the resident management), and prompt： Enter the room number and press calling，0 for Admin number，Press key* to delete， Press calling.



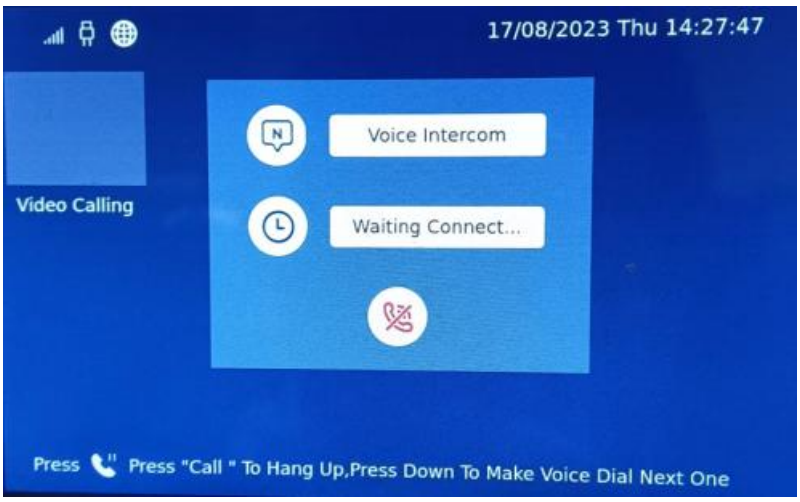
5.1.1.2.2 Input the Room Number And press calling to enter Intercom mode selection interface

1.Audio intercom

2.video intercom

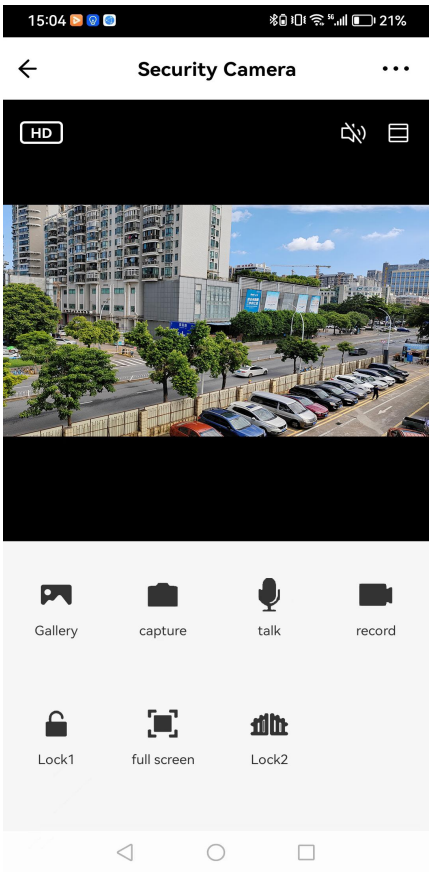


Press 2 to enter the video call screen, the screen displays the room number display bar, call time display bar (before not connected will display: waiting for the other party to connect...)



Additional notes: 1. If the room number does not add graffiti UUID number will automatically go to the voice intercom interface, 2. There is a Tuya UUID number, but it is not bound to the phone. Press 2, the system will prompt: Tuya is not bound to the phone, and you cannot make a call

After connecting, residents can use the Doodle APP on their mobile phones to watch video images of the front door, talk with visitors, and open the main door or auxiliary door (as shown below)., Visitor press hang up or When the resident hangs up and exits the APP, the system will automatically return to the main interface.



5.1.2 Visitors call by viewing the resident list information

5.1.2.1 Audio Intercom

Press View resident list

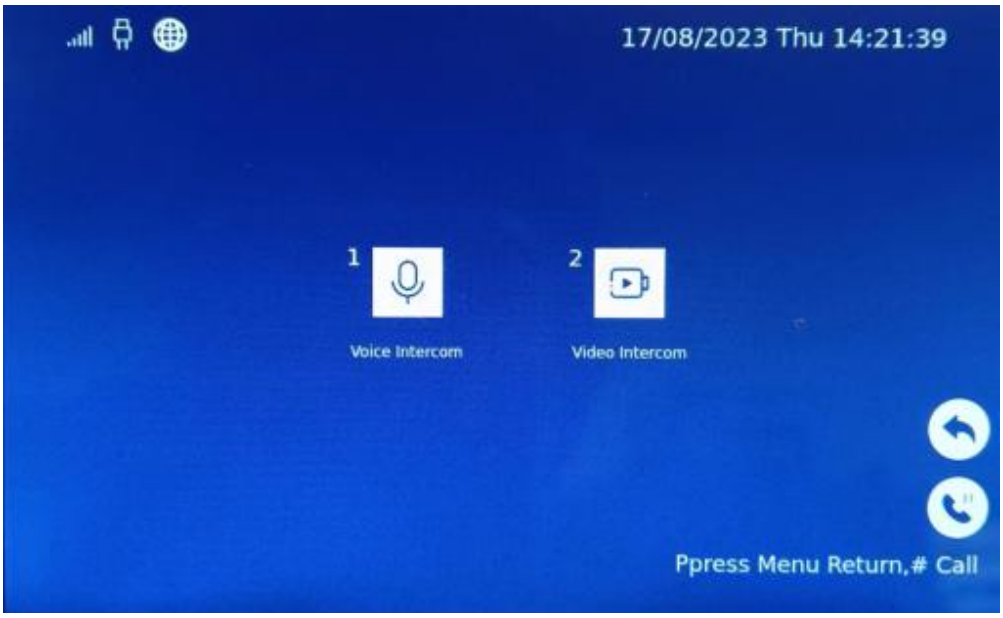
Interface description

Press View the household list screen, which displays the search bar, household room number and name

Visitors press the up/down button to select the home they want to visit and press # to confirm entering the intercom mode selection interface

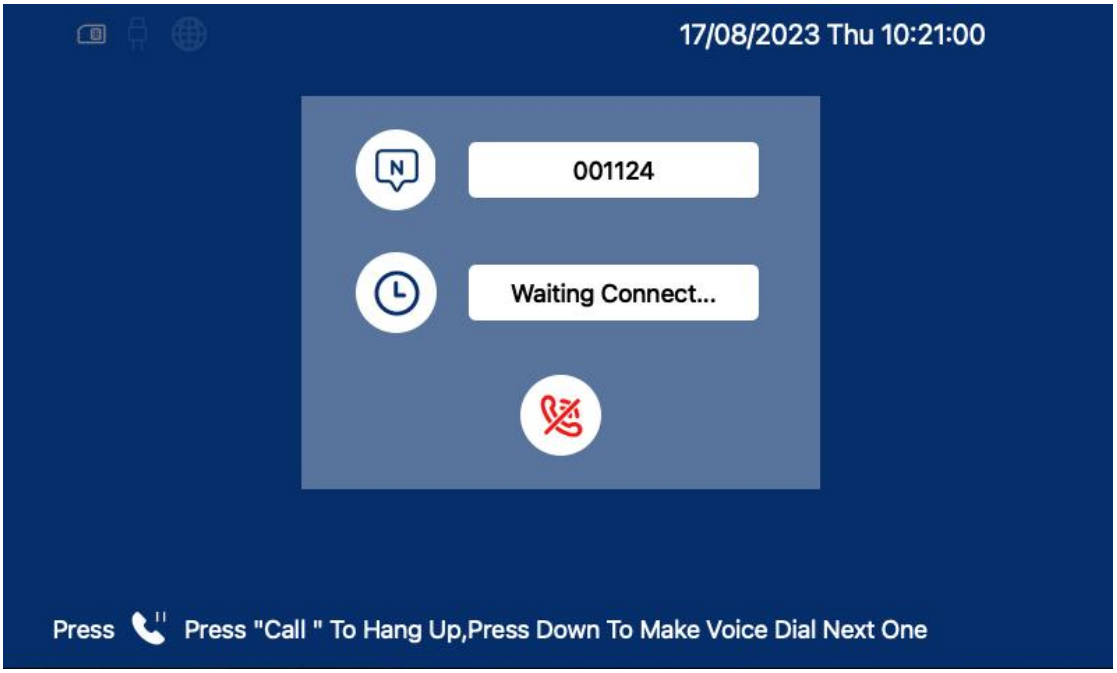
1.Audio intercom

2.Video intercom



Press 1 to enter the voice call screen, the screen displays the room number display, call time display bar (before not connected, it will display: Waiting for the other party

to connect...) And the instructions in the lower left corner（press hang up, Down Dial next），



If the call times out and no one answers, automatically call to the next number (4G mode), or press the Down key to call the next number, after connecting, the household will use the mobile phone to press the keyboard to send DTMF code, open the main door or auxiliary door, press After hanging up, the system will automatically return to the main screen

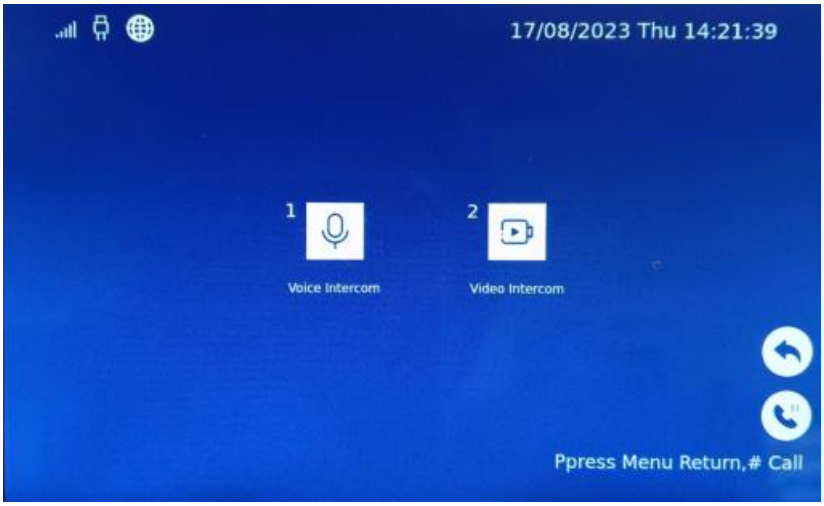
5.1.2.2 Video intercom

Press View resident list

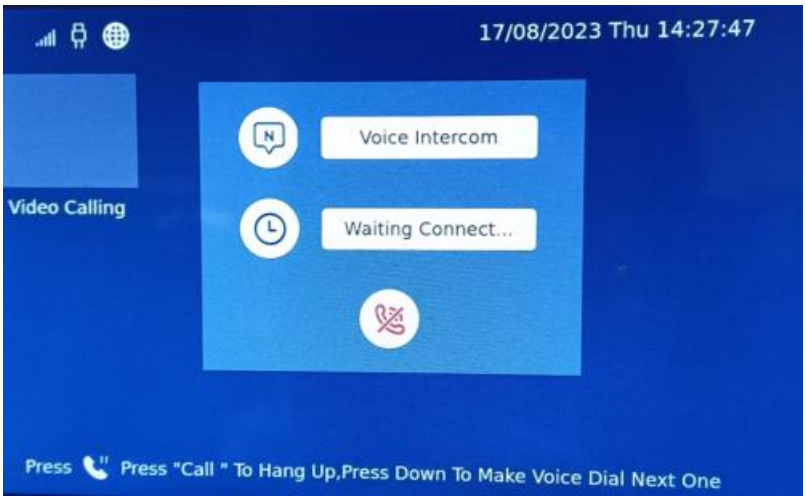
Visitors press the up/down button to select the home they want to visit and press # to confirm entering the intercom mode selection interface

1.Audio Intercom

2.Video Intercom



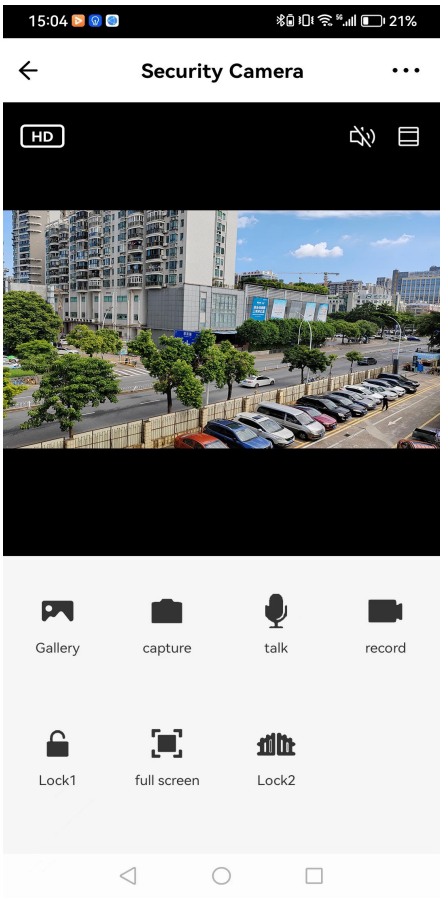
Press 2 to enter the video call screen, the screen displays the room number display bar, call time display bar (before not connected will display: waiting for the other party to connect...) And the instructions in the lower left corner（press hang up, Down dial next)



Additional notes: 1. If the room number does not add graffiti UUID number will automatically go to the voice intercom interface, 2. There is a doodle UUID number, but it is not bound to the phone. Press 2, the system will prompt: Doodle is not bound to the phone, and you cannot make a call

After connecting, residents can use the Doodle APP on their mobile phones to watch video images of the front door, talk with visitors and open the main door or auxiliary door (as shown below), visitro press hang up or After the resident hangs

up and exits the APP, the system will automatically return to the main interface.



5.2 Unlocking and correlation equipment

5.2.1 Code unlock

Press * to unlock the password

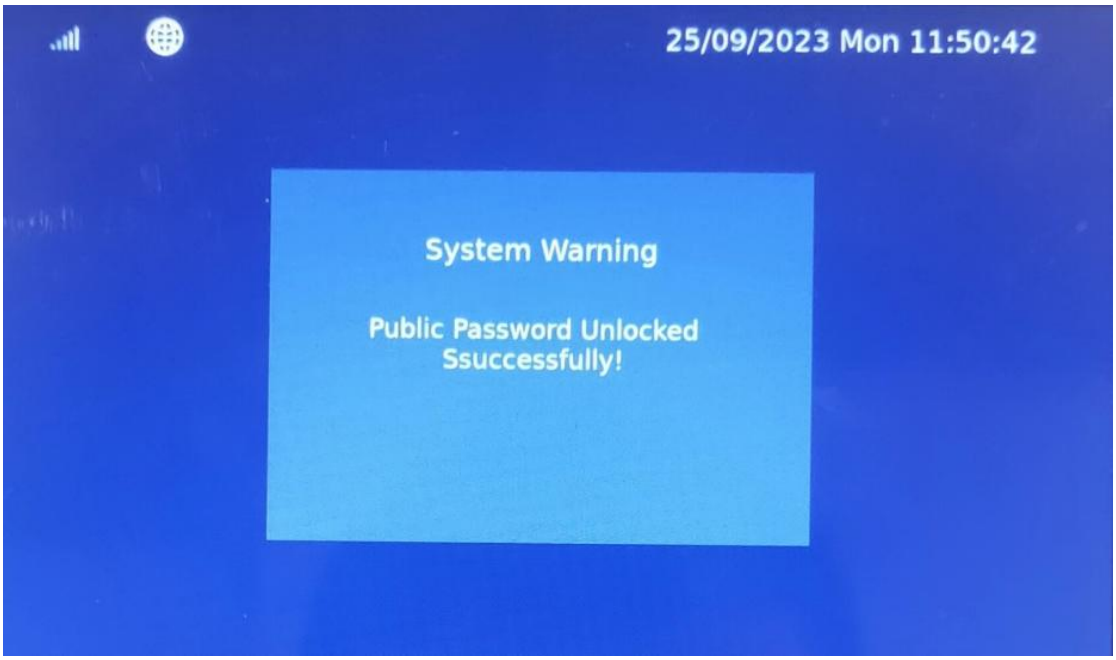
Interface description

Press "*" to unlock the password interface, the interface displays the room number input field, the password input field and the prompt description in the lower left corner (the room number is empty, indicating the use of public password), and the prompt description in the lower right corner (key * to delete, # to unlock).

Operating instructions

User password unlocking: Enter the room number in the room number input field, enter the password in the password input field and then press # to unlock.system display:Unlocking success! Welcome:

Public password unlocking: Enter the password in the password input field and press # to unlock, the system displays: public password unlocking successfully! (If you enter the wrong room number or password, there will be a warning.)



5.2.2 Swipe ID card unlock

Use the ID card with the information that has been added to the household, swipe the card close to the card reader attached to the machine to open the lock.

5.2.3 Button Switch unlock.

This product provides postal lock, fire alarm, general input, main door exit/auxiliary door exit unlock button, connect these buttons, just press the button to unlock.

5.2.4 Correlation device

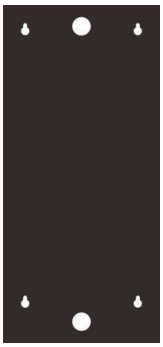
Associated equipment with postal lock, fire alarm, general input, main door exit/auxiliary door exit unlocking button, lighting, alarm light (depending on the household installation), if the correlation setting is on, the lamp will be lit when the button is unlocked, the alarm light will be lit and the alarm bell will sound, and the countdown is over, then it will be extinguished and stopped.

1. Intelligent access control platform

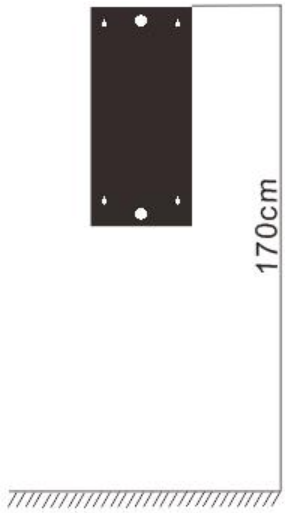
We also developed an intelligent access control platform for this product, which can not only operate on the device side, but also operate on the computer platform, so that the device side can synchronize with the platform, we will give customers an agent account, customers can also operate on the platform, please refer to the intelligent access control platform operation manual for specific operations.

7. Installation instructions

7.1 Step 1. Take out the waterproof sponge sticker packaged with the machine.



7.2 Step 2 ： Take the upper edge 170cm from the ground, vertical left and right, and attach it to the wall to be installed. Use a tool to drill holes in the blank space and put in a plastic column.



7.3 Remove the rainproof cover of the machine so that the mounting holes overlap with the waterproof cotton. Install fastening screws to secure.