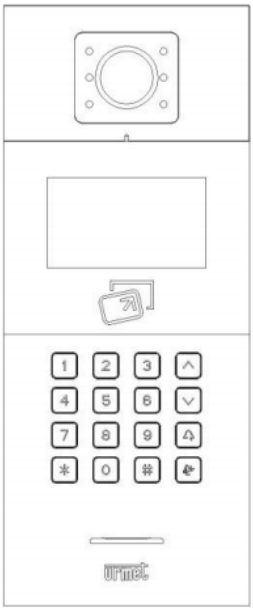
USER MANUAL

U1 Voice Call Module

Sch./Ref. 1036/16



Version: V1.4
Code: SRD-UME1036/16-1113-V1.4

Preface

Thank you for choosing Urmet product. This manual is the user manual of U1 series digital system U1 Voice Call Module (Ref. 1036/16). Please read this manual carefully before using the U1 Voice Call Module.

Disclaimer

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Chapter 1 Product overview

This product is a major equipment of digital building intercom system. It adopts standard Category 5 cable connection to achieve communication with U1 Voice 7” IP Monitor or U1 Voice Switch Board, and supports IC access control.

1.1 Function characteristics

4.3-inch TFT display screen

Support IC card

Automatic fill light of high-light LED at night

Door status detection, door opening overtime alarm

Provide normally open/normally closed unlock function

Provide 12V / 800mA DC output (condition: independent power supply with voltage >18V)

1.2 Specifications

1.2.1 Working parameters

Working voltage: DC 24V	Quiescent current: ≤ 100mA
Working current: ≤ 210mA	Ambient temperature: -25℃ ~ +70℃

1.2.2 Camera

Type: CMOS	Pixel: 30W
Viewing angle: diagonal 110°	Focal length: 2.5mm

Fill light mode: white light Minimum illumination: 0 lux

1.2.3 Display screen

Type: LCD Size: 4.3”

Resolution: 480× 272

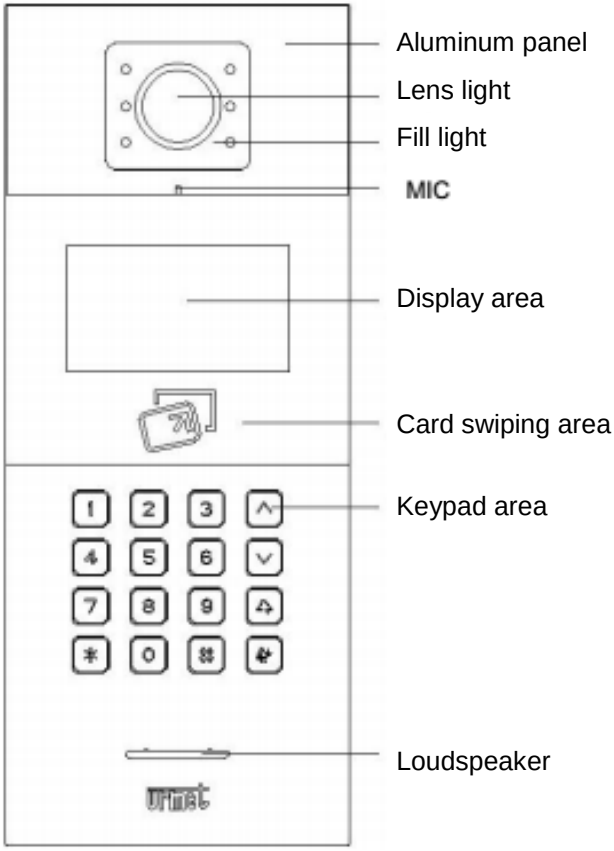
1.2.4 Product dimension

W * H * D: 148.5 * 363 * 47 mm

1.3 Description of appearance and interface

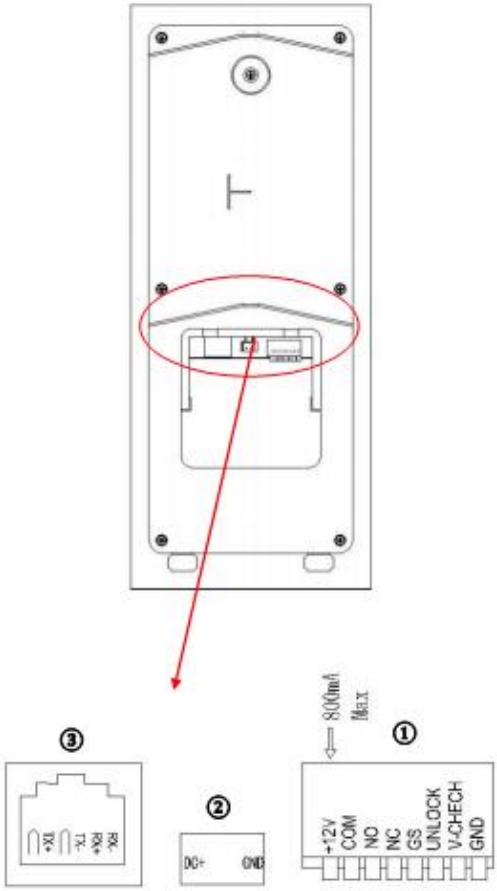
1.3.1 Front view

Figure1. 1 Front view



1.3.2 Rear view

Figure1. 2 Rear view



Number ①: +12V: Only when the input voltage of the U1 Voice Call Module is >18V can it provide +12V voltage. When +12V input voltage is adopted, the output voltage will be lower than +10V (Non-PoE power supply mode).

Number ②: Power input interface DC 24V.

Number ③: Network interface (Support non-PoE power supply mode; customization is needed).

COM NO NC: The common end, normally open end and normally closed end of the unlock relay.

GS: Input end for door status detection.

UNLOCK GND: Inside unlock activation/deactivation input.

Chapter 2 Operating instructions

2.1 Call the resident

Standard dialing: visitor may initiate a call by entering the room number of the resident (such as 0101). This phone is provided with the ring back tone function. The visitor may cancel the call by pressing the * key when it is ringing. The call shall end automatically if the resident doesn't respond within 30 seconds.

Short code dialing: visitor may initiate a call by entering the room number of the resident (such as 001).

Residents list dialing: In the standby interface, click the key  or  enter the residents list interface (you need to import the residents list through the configuration tool in advance).Click the key  or  select the resident you want to call, the key can directly enter the call ringing interface;

Or enter the residents list interface, click  to enter the search residents list interface, enter the resident you want to call, press the # key, and then press  to start the call.

If the equipment is connected normally, enter the call ring countdown, and the MCM plays the ring back tone, and enter the ring state.

This MCM rings back the ring tone. Press the ***** key to cancel the call during the ring. If there is no response from the resident within 30 seconds, the call will be terminated automatically.

Attention: For MCM, in standard dialing mode, visitor enters the building number (1-99) + unit number (1~9) + room number, such as 011+0101. In short code mode, visitor enters the unit number (1~999) + room number (1~999).

Figure2. 1 U1 Voice dialing interface

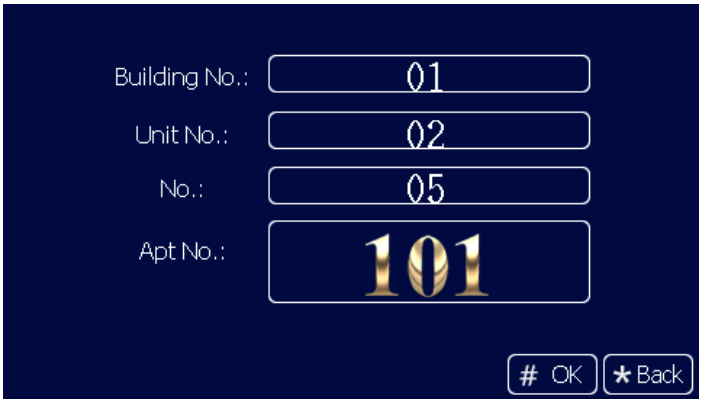


Figure2. 2 U1 Voice dialing interface (short code)

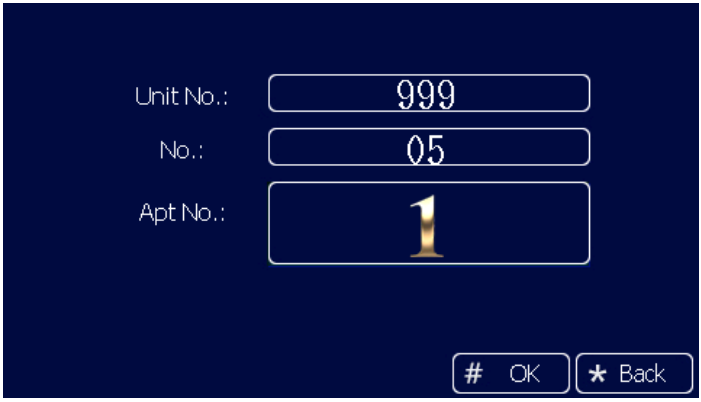


Figure2. 3 MCM dialing interface

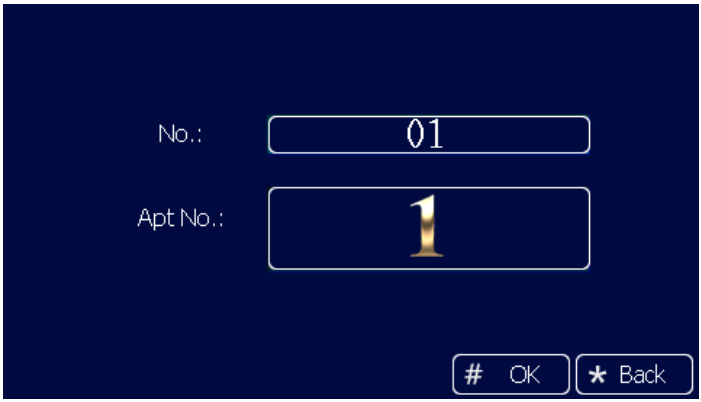


Figure2. 4 MCM residents list interface

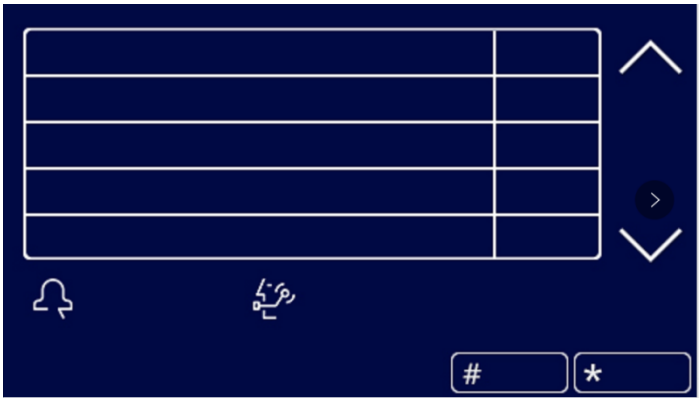
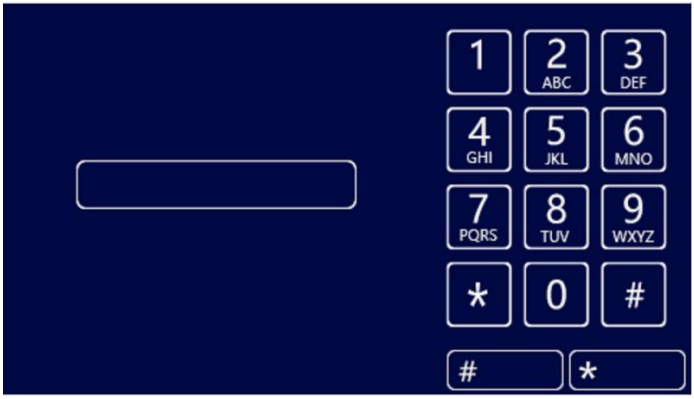


Figure2. 5 MCM residents list search interface



2.2 Call the management center

The visitor can call the management center of the community by pressing the  key on the U1 Voice Call Module when it is in standby mode.

2.3 Unlock

•Unlock via card swiping

Unlock by pressing the registered card close to the card swiping area on the U1 Voice Call Module.

• Unlock via exit button

This phone is provided with an interface for exit button connection. After the exit button is connected, the resident can unlock the door by pressing the exit button once inside the door.

• Unlock via password

Unlock via common password: # + common password + #

Unlock via user password: * + # + room number + user password + #

Attention: This function defaults to be deactivated. See system setting for the

method to activate password unlock function.

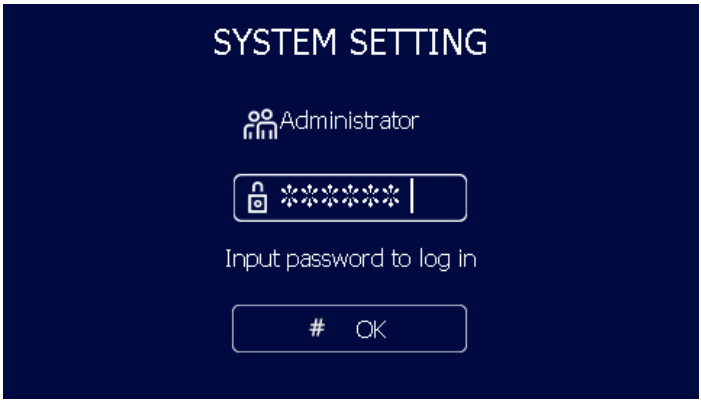
Initial common password is 999999.

Chapter 3 Enter into the setting interface

Figure3. 1 Standby interface

At standby interface, press "#" key and then press " * " key to enter into engineering setting login interface. **The default engineering setting password is "000000".**

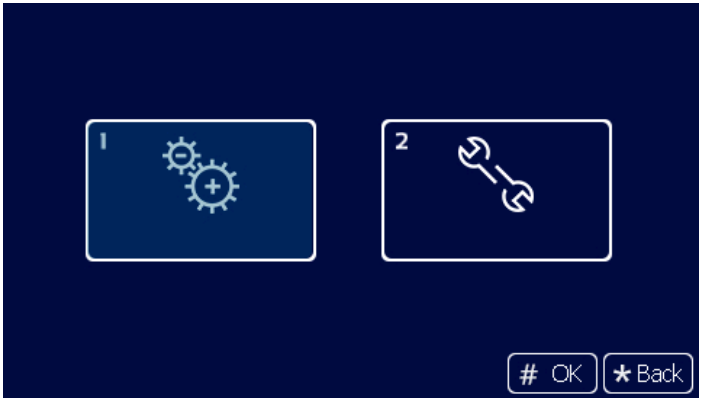
Figure3. 2 Engineering login interface



After entering correct password, press "#" key to confirm entering into the

engineering setting interface; press the up/down key or corresponding numeric key on the icon to enter into corresponding menu.

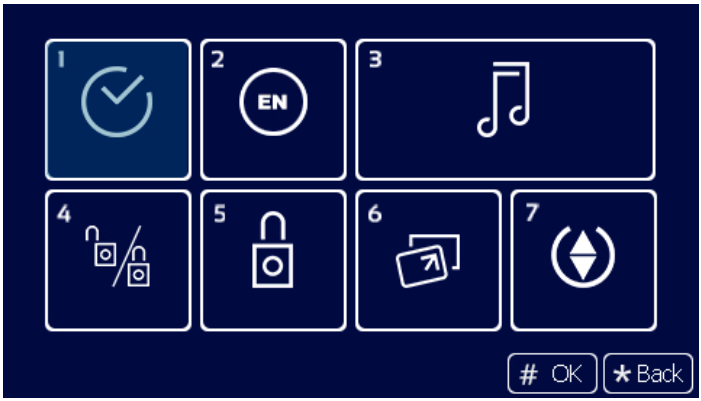
Figure3. 3 Main engineering setting interface



Chapter 4 System setting

The system setting interface is shown in the figure below. It includes time setting, sound setting, language setting, password setting, unlock time setting, access control card management and elevator linkage. Press the up/down key or corresponding numeric key on the icon to enter into corresponding menu.

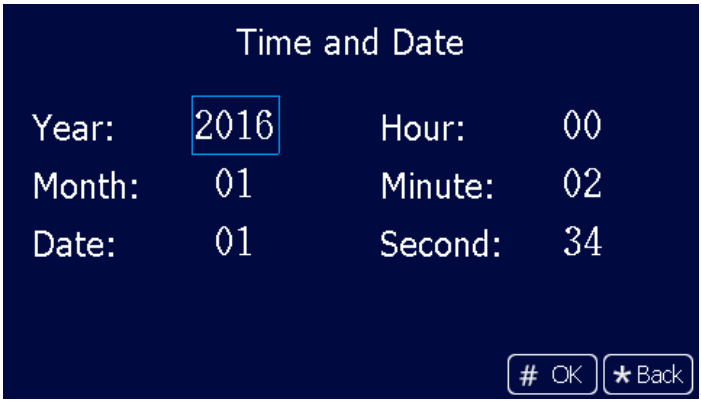
Figure4. 1 System setting interface



4.1 Time setting

The time setting interface is shown in the figure below. Select corresponding item for modification and enter a number to modify it. After modification, press "#" key to confirm.

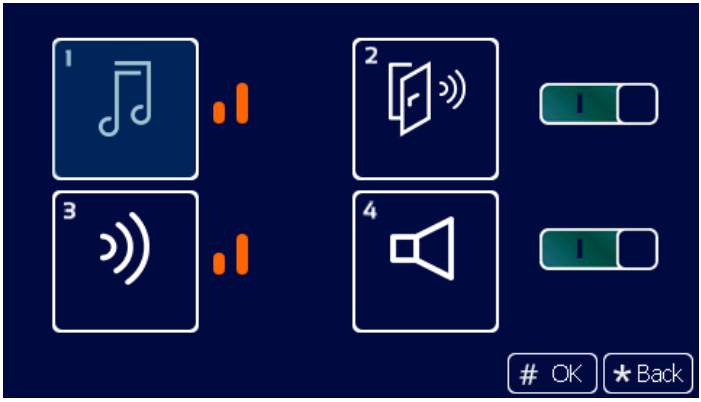
Figure4. 2 Time setting interface



4.2 Sound setting

The sound setting interface is shown in the figure below. Press the up/down key or numeric key to select corresponding option and press "#" key to adjust it. After adjustment, press "*" key to return.

Figure4. 3 Sound setting interface

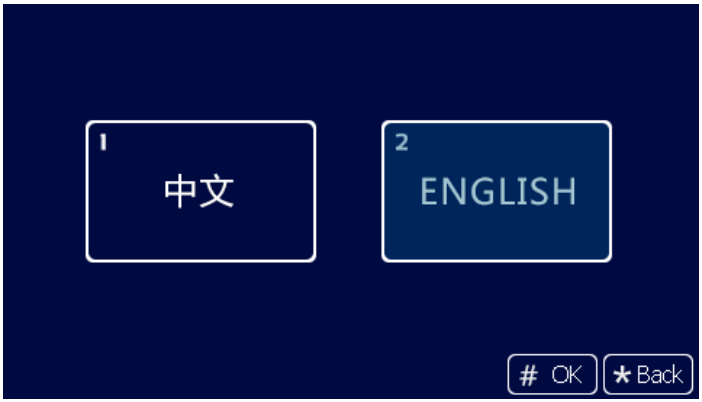


4.3 Language setting

The language setting interface is shown in the figure below. Press the up/down key to select the desired language. Return to the previous menu after

confirming the setting by pressing "#" key.

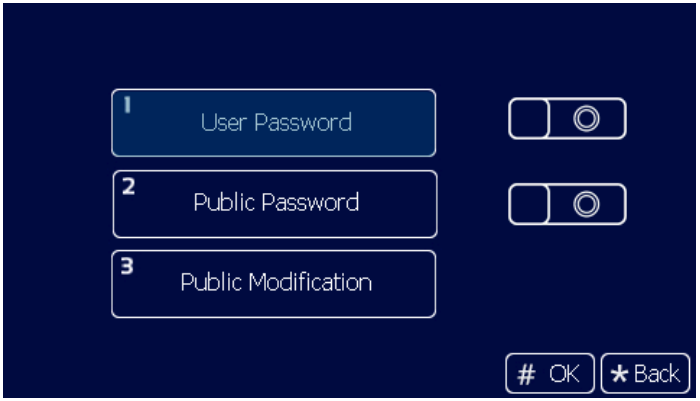
Figure4. 4 Language setting interface



4.4 Password setting

The password setting interface is divided into user password activation/deactivation, common password activation/deactivation and common password modification. Press the up/down key or corresponding numeric key on the icon for adjustment or setting.

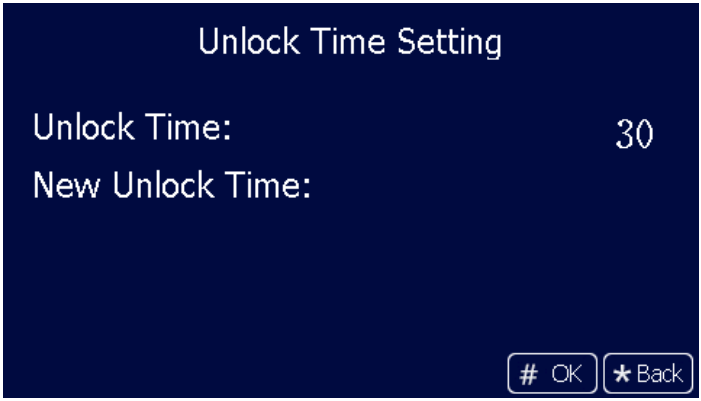
Figure4. 5 Password setting interface



4.5 Unlock duration setting

The unlock duration setting is used to set the duration that the door remains open. The door will be closed automatically when the duration expires. Press the numeric key to enter the desired time (in seconds), press "*" key to delete the content, or press "#" key to confirm the setting and return to the previous menu.

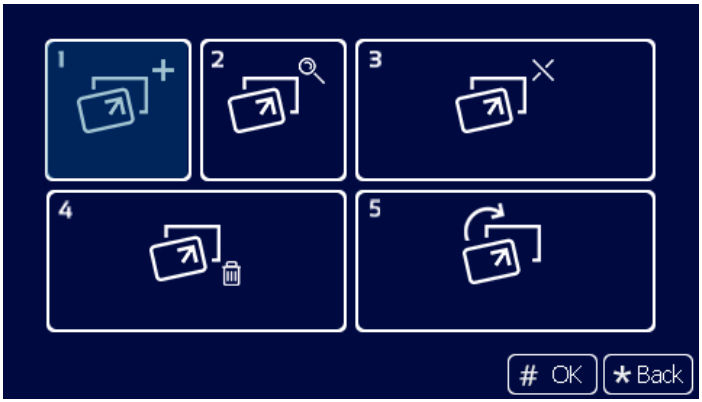
Figure4. 6 Unlock duration setting interface



4.6 Access control card management

The access control card management interface is divided into five options--REGISTER, CHECK, DELETE, CLEAR AND COPY CARD DATA.

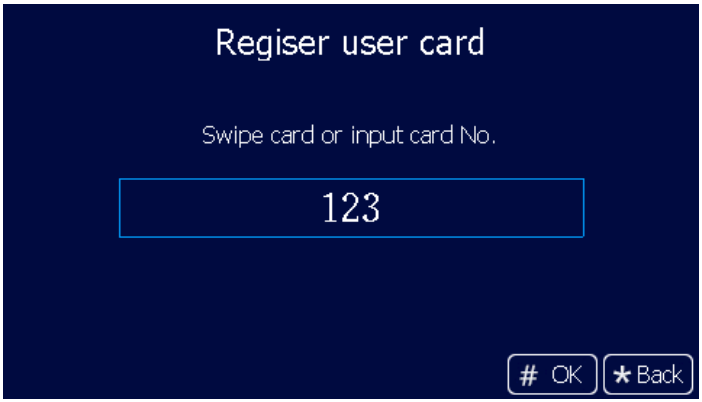
Figure4. 7 Access control card management interface



At REGISTER interface, complete the registration by swiping the card or entering the card number directly. After registration, press "#" key to confirm the registration or press "*" key to return to the previous menu. If a wrong number is entered in the process of card number entering, delete the entered numbers one by one by pressing "*" key. The operation of the card deletion interface is similar to that of the card registration interface.

Attention: Maximum supportable quantity of registered cards is 20,000.

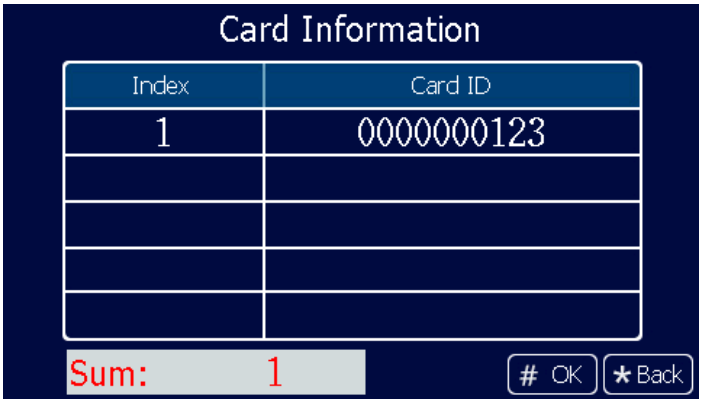
Figure4. 8 REGISTER interface



Card number, total quantity of cards and serial number that is being browse

can be seen at CHECK interface.

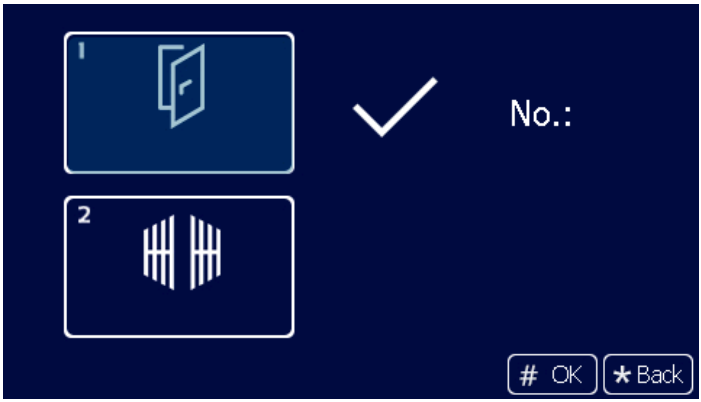
Figure4. 9 CHECK interface



After clicking the CLEAR button, a dialog box will pop up, asking the user whether or not to clear the user card. The user may click "#" key to clear corresponding user card, or click "*" key to return.

The COPY CARD DATA function can copy the card number information of this phone to other U1 Voice Call Modules or MCMs. After entering into the interface, first press the up/down key to select target phone type, then press "#" key to confirm the selection. Now a "√" mark follows the corresponding target phone type. Then enter target phone number and press "#" key to confirm the entering so as to initiate the card data transmission. There will be a prompt on the interface, indicating whether or not the transmission is completed successfully.

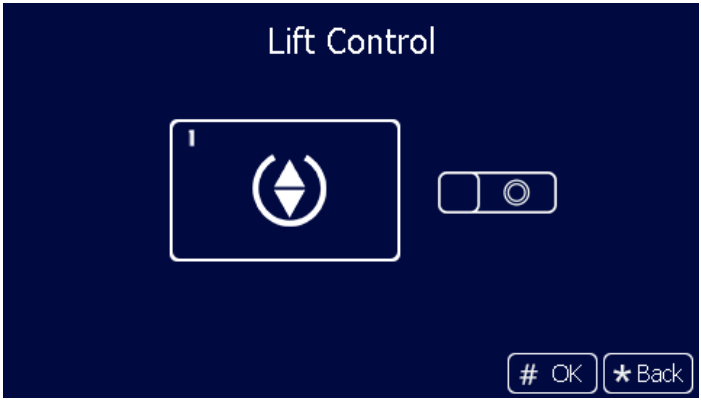
Figure4. 10 COPY CARD DATA interface



4.7 Elevator linkage

Elevator linkage defaults to be deactivated. It may be set as activated or deactivated as needed.

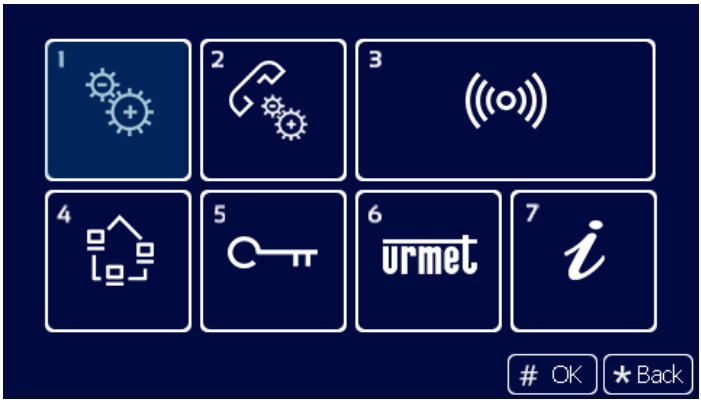
Figure4. 11 Elevator linkage interface



Chapter 5 Engineering setting

The engineering setting interface is shown in the figure below. It includes equipment property, dial setting, alarm setting, factory test, engineering password, company information and equipment information. Press the up/down key or corresponding numeric key on the icon to enter into corresponding setting interface.

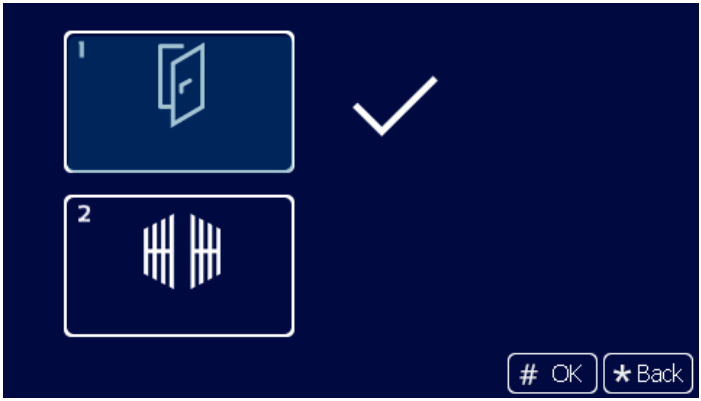
Figure5. 1 Engineering setting interface



5.1 Equipment property setting

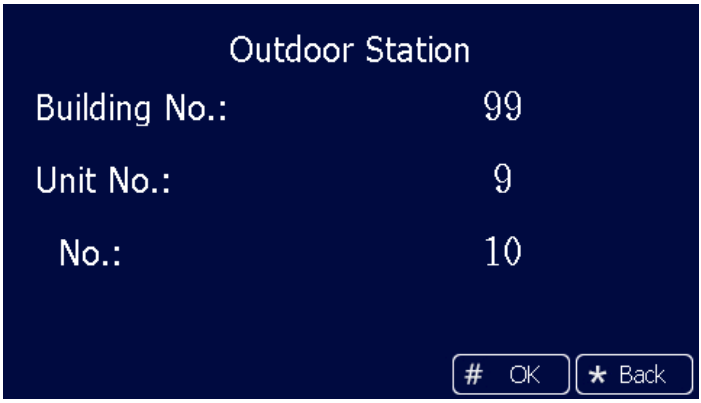
Equipment property setting interface. Decide the property of the equipment according to the exact position where current equipment is installed. Press the up/down key or corresponding numeric key on the icon for selection. Enter into number setting interface after confirming the selection by pressing "#" key. The symbol "√" following the icon represents current equipment type.

Figure5. 2 Equipment property setting interface



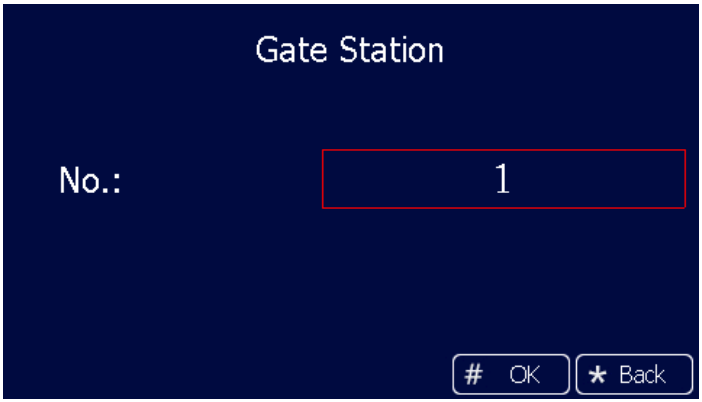
After entering into the submenu, U1 Voice Call Module number is divided into building number (1-99), unit number (1-9) and serial number (1-32).

Figure5. 3 U1 Voice Call Module number setting interface



MCM only has serial number 1-32.

Figure5. 4 MCM number setting interface



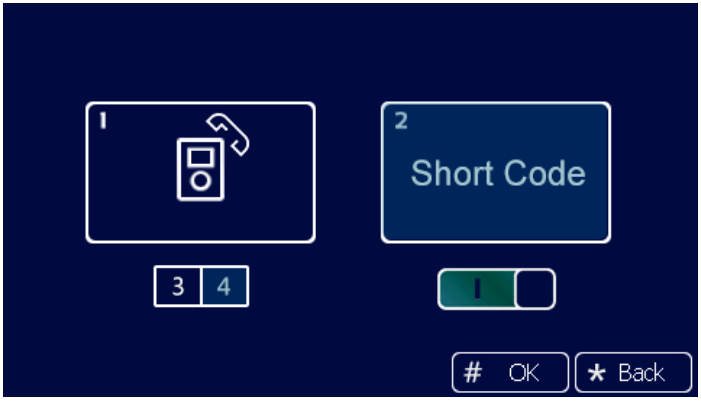
5.2 Dial setting

Dial setting interface display varies with equipment type. When the equipment type is U1 Voice Call Module, the dial setting interface shall be as follows:

For 3 dial digits, auto dial can be carried out by pressing 3 numbers at the dial interface, e.g., 818 represents Room 18, F/8.

For 4 dial digits, auto dial can be carried out by pressing 4 numbers at the dial interface, e.g., 1808 represents Room 08, F/18.

Figure5. 5 Door dial setting interface



When the equipment type is MCM, the dial setting interface shall be as follows. Unit dial digit can be 1, 2 or 3 digits, and U1 Voice 7" IP Monitor dial digit can be 3 or 4 digits. See the MCM dial rule table for corresponding configured call.

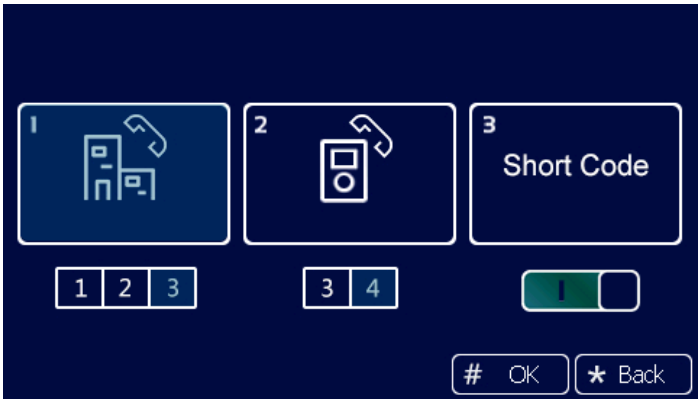
Description of unit dial digit:

Unit dial digit	1 digit	2 digits	3 digits
	1-digit unit number (supplement the building number as 0 automatically)	1-digit building number +1-digit unit number	2-digit building number +1-digit unit number

Description of U1 Voice 7" IP Monitor dial digit:

U1 Voice 7" IP Monitor dial digit	3 digits	4 digits
	1-digit floor number + 2-digit room number	2-digit floor number + 2-digit room number

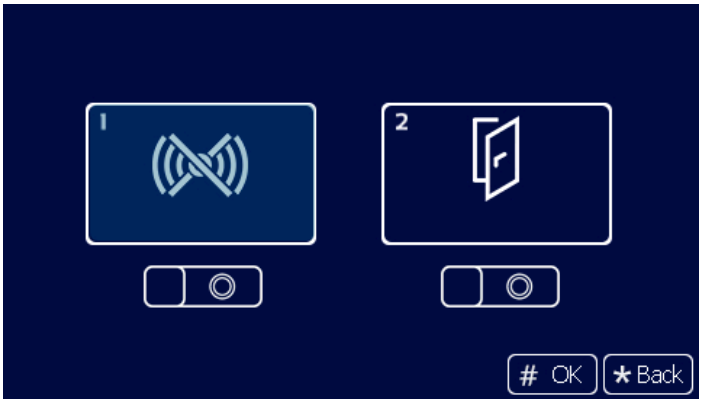
Figure5. 6 MCM dial setting interface



5.3 Alarm setting

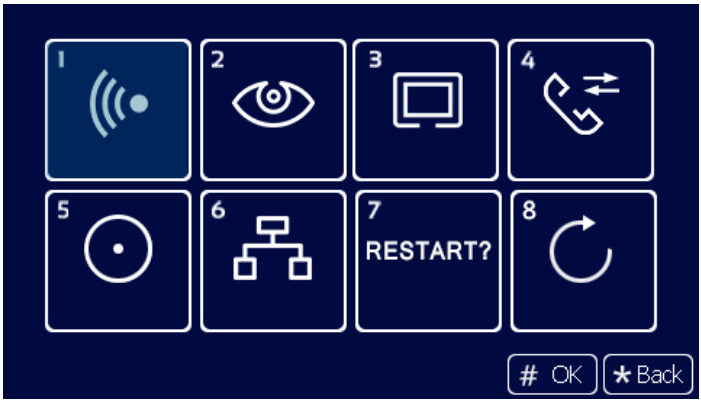
The alarm setting interface is shown in the figure below. Corresponding alarm items can be activated or deactivated. If certain alarm item is activated, once corresponding alarm is triggered, alarm information shall be sent out to the management center.

Figure5. 7 Alarm setting interface



Factory test interface includes various test items, among which the test items that the project contractor may use are system reboot and restoring factory setting. When clicking the SYSTEM REBOOT key, a dialog box will pop up; system reboot will be executed after selecting the CONFIRM key. When clicking the RESTORE FACTORY SETTING icon, a dialog box will pop up; the system will restore factory setting after selecting the CONFIRM key; now various configured information (such as equipment property and volume) will restore to their factory setting status.

Figure5. 8 Engineering setting interface

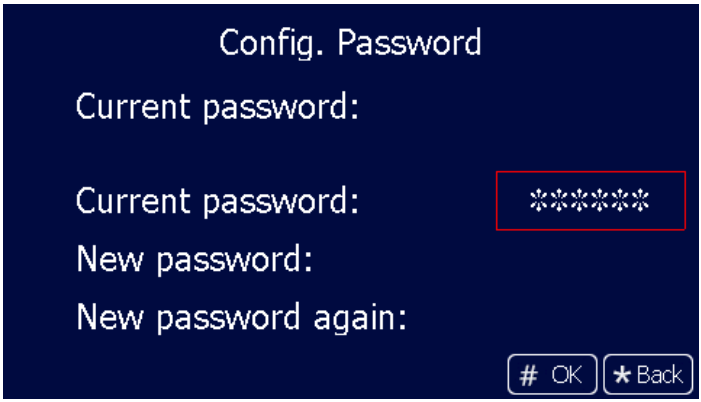


Attention: All data will be cleared if restoring factory setting operation is executed within 30 seconds after power on.

5.4 Engineering password modification

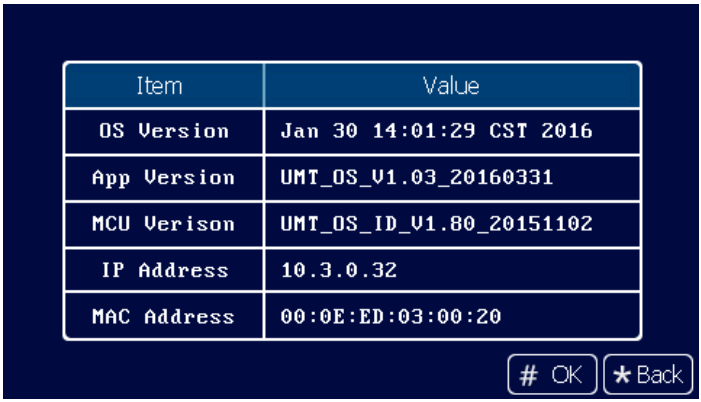
The engineering modification interface is shown in the figure below: First enter the old password. When the correct old password is entered, the cursor will jump to the new password field automatically, now enter the new password. After the new password is entered, the system will require the user to enter the new password again. Only when two new passwords entered match, can the password be modified successfully, otherwise, the password will not be modified. The password shall be 6-digit password.

Figure5. 9 Engineering password setting interface



The equipment information interface shows the system version of current equipment, including IP address, MAC address and other related information.

Figure5. 10 Equipment information interface

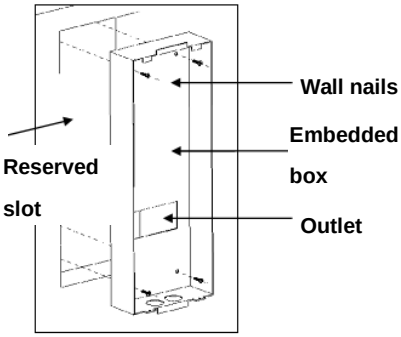


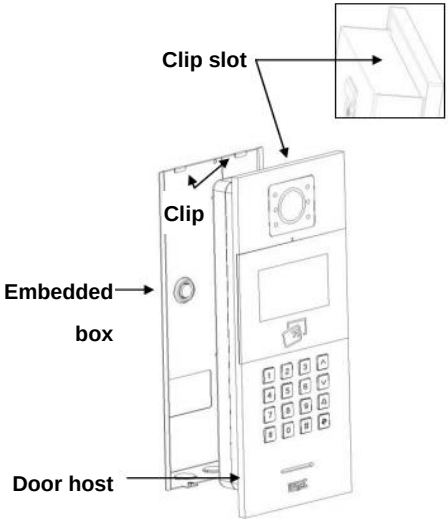
Chapter 6 Installation

6.1 Installation steps

First step: Place the embedded box in the reserved slot on the wall. After passing the wiring terminal through the outlet, fix firmly with nails or enclose and fix with cement near the embedded box.

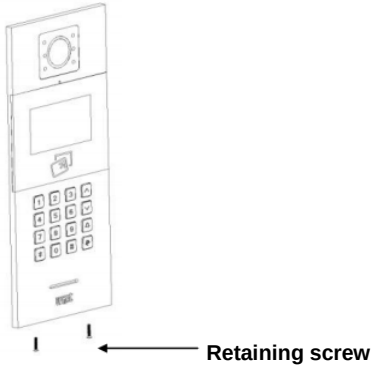
Dimension of the box embedded in wall (W/H/D): 132 * 340 * 50 mm



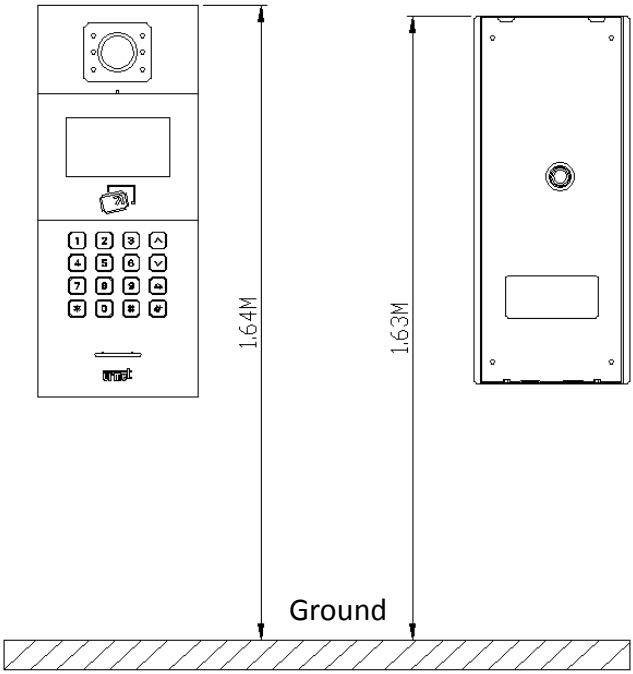


Second step: After connecting the wiring terminal and the host, push the host into the box embedded in wall by taking the bottom as benchmark. Then push and press the host upwards to make the clip of the host interlocked with the clip of the box embedded in wall.

Third step: Screw the retaining screw provided along with the equipment in and tighten it. The installation is completed.



6.2 Recommended installation height



U1 Voice Call Module：the top of the product is 1.64 meters above the ground.

Embedded Box：the top of the product is 1.63 meters above the ground.

Notices during installation:

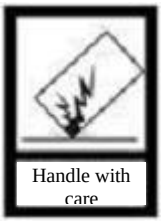
1) When forming square groove on the lower cover of the equipment, attention shall be paid to the control of embedding depth, and the 4 openings on the lower cover must adhere to the wall firmly. Besides, great gap must be avoided between the exposed part of the face shell and the wall after the installation of the equipment.

2) Don't install the equipment in rainy, moist or dusty environment; meanwhile, keep the equipment away from high-temperature or highly corrosive objects.

Notes

1. Please keep the equipment away from strong magnetic field, hot and moist environments;

2. Protect the equipment from falling down on the ground or being subject to high impact;



3. Don't wipe the equipment with wet cloth or volatile reagents;

4. Don't disassemble the equipment by yourself.

Appendix Figure index