

USER MANUAL

U1 Voice 7" IP Monitor

Sch./Ref. 1709/16



Version: V1.1

No.: SRD-UME1709/16-0516-V1.1

Preamble

Thank you for purchasing Urmet products. This document is the user manual of U1 series digital system U1 Voice 7" IP Monitor (Ref. 1709/16). Please read this manual carefully before using the U1 Voice 7" IP Monitor.

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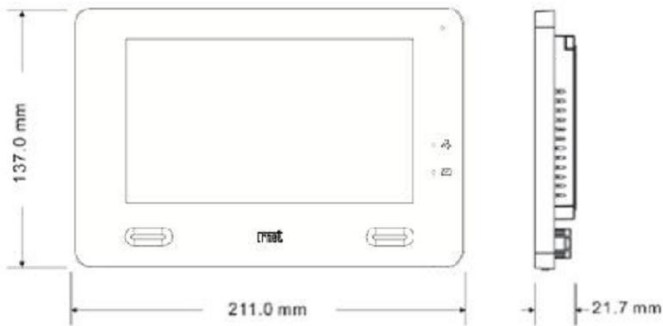
Chapter 1 Product overview

This product is the equipment based on TCP/IP transport protocol and major equipment of digital building intercom system. It supports visual video intercom, alarm zone setting and picture pushing and display in standby mode.

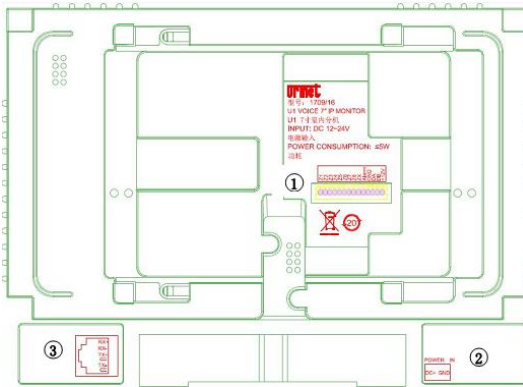
- Adopt 7-inch capacitive touch screen;
- Support 24V non-standard PoE power supply;
- Support continuously ringing the doorbell and U1 Voice PCM;
- Support extension of lift control function;
- Support real-time monitoring function for U1 Voice Call Module and IP camera monitoring;
- Information receiving function for receiving the information sent by the management center phone;
- Support one-family-multi-extension, defending/withdrawing defense synchronization function;
- Achieve the video intercom between visitor and resident and between resident and management center;
- Have intra-family and inter-family intercom function, achieve intercom between one resident and other residents in the community;
- Have standard 8-alarm zone (extensible) security alarm function.

Chapter 2 Product introduction

2.1 Product appearance



2.2 Interface description



Number ①:

Z1
Z2
Z3
Z4
Z5
Z6
Z7
Z8
ZX
Alarm
GND
DA
DB
+12V

+12V + GND: Alarm voltage output.

DA/RX + DB/TX: 485 extensive interface.

Z8 / ZX: Alarm zone interface, supporting normally open security module interface only.

Z7 through Z1: Standard alarm zone interface, supporting normally open/normally closed security module access.

Number ②:

Power input interface DC 12 V ~ 24 V.

Number ③:

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

2.3 Specifications

Working voltage: DC 24V

Local quiescent current: ≤ 80 mA

Local working current: ≤ 150 mA

Alarm zone output current: ≤ 200 mA (Alarm zone output voltage: 12V)

Display screen: 7 inches

Resolution: 800 * 480

Outline dimension (L * W * D): 211 * 137 * 21.7 mm

Ambient temperature: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$

Ring time: 30 seconds

Call duration: 120 seconds

Monitoring time: 30 seconds

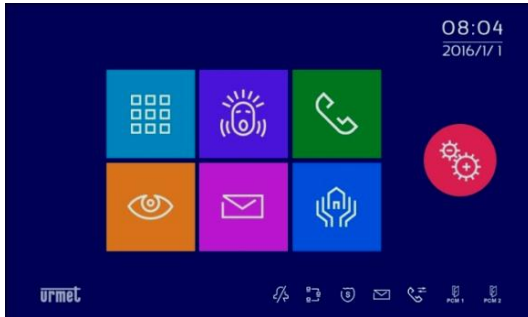
User password: used for entering into defending/withdrawing defense setting interface; initial user password is 999999.

Engineering password: used for setting U1 Voice 7" IP Monitor number, restoring factory setting and setting U1 Voice PCM; the password for setting U1 Voice 7" IP Monitor and restoring factory setting is 000000; the password for setting U1 Voice PCM is 999999.

Chapter 3 Basic functions


3.1 Standby interface

Figure 3.1 Standby interface



SOS distress information



Keep pressing the  key for more than 2 seconds to send out distress information to the management center.

Intercom/call




Click the  key to enter into the intercom interface; call the management

center, other residents or other U1 Voice 7" IP Monitors in the house.


Video surveillance



Click the  key to monitor the U1 Voice Call Module, U1 Voice PCM, MCM and IP camera.


Message



Click the  key to check the message that the community has released.

Scenario



The user can select corresponding intelligent living scene by clicking  the key.

Call log


Check the call log between visitor and resident and between management



center and resident by clicking the  key. The resident may check, read or delete etc. the call log.


Defending/withdrawing defense when going out



Execute defending/withdrawing defense by clicking the  key and entering the user password when going out.


Lift control



Call the elevator to the floor where the resident lives by clicking the  key.

Alarm information

Check the record of alarms that have taken place and conduct the setting of

each alarm zone by clicking the  key.

3.2 Intercom/call




3.2.1 Visitor call

Figure 3.2 Visitor call interface



Basic flow: Ring ⇒ Conversation ⇒ Unlock ⇒ End the call

When receiving a call

- 1) The visitor calls the U1 Voice 7" IP Monitor by the U1 Voice Call Module, the U1 Voice 7" IP Monitor starts ringing.
- 2) The resident can start a conversation with the visitor by pressing the  key.
- 3) During the conversation, the resident can unlock the door for the visitor by pressing the  key. The phone system is hang up automatically 5S after unlocking.
- 4) The resident can end the call by pressing the  key.

Snapshot


- 1) When the visitor calls the U1 Voice 7" IP Monitor, the resident may snapshot manually by clicking the  key on the screen.
- 2) The pictures snapshot shall be stored in the call log at standby interface.

Figure 3.3 Interface presented after the file of picture snapshot is opened



3.2.2 Active call

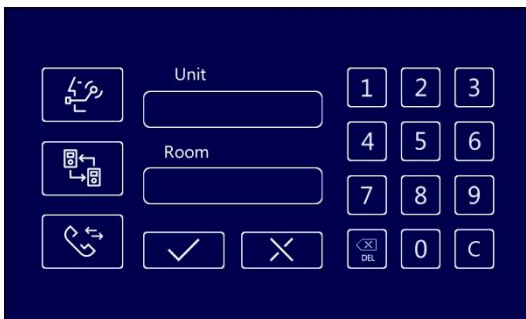


Click the  key at the main interface to enter into the intercom interface.

Figure 3.4 Active call interface (standard)



Figure 3.5 Active call interface (short code)




Call the U1 Voice 7" IP Monitor


Basic flow: Call⇒Ring⇒Conversation⇒End the call

1) Call




As to calling other U1 Voice 7" IP Monitors in the household, click the key to pop up the list of U1 Voice 7" IP Monitors, then select and call the desired extension;

Standard dial: enter the building number, unit number and room number, then press the  key to confirm; If only the room number is entered, the system shall consider the building number and unit number as 0 automatically.

Short code: enter the unit number and room number, and then press  key to confirm.

2) This phone sounds the ring back tone.


3) After the resident being called answers the call, intercom may be initiated.

4) The resident can end the call by pressing the  key.

Attention: When a new call comes in during current conversation, the new call icon will pop up, the resident can answer the call by clicking the icon.

Call the U1 Voice Switch Board

Basic flow: Call⇒Conversation⇒End the call

1) Click the  key to call the management center.

2) The U1 Voice 7" IP Monitor sounds the ring back tone.

3) After the U1 Voice Switch Board answers the call, intercom may be initiated.

The resident can end the call by pressing the  key.





3.3 Monitor

Figure 3.6 Monitoring interface



Unlock during monitoring

Basic flow: Select equipment to be monitored⇒Monitor⇒Unlock⇒Stop


- 1) Click the  key at the main interface and select equipment type to be monitored.
- 2) Activate monitoring function.
- 3) The resident may unlock the door for the visitor by clicking the  key during monitoring.
- 4) Click the  key to switch to monitoring other equipment.
- 5) Click the  key to stop the monitoring.

Snapshot during monitoring


Snapshot manually by clicking the  key on the screen during monitoring. **Attention:** Picture snapshot shall be stored in the call log.

Call the visitor

Basic flow: Monitor⇒Conversation⇒End the call

During monitoring (U1 Voice PCM, U1 Voice Call Module and MCM), the resident can initiate a conversation with the visitor by pressing the  key.

Community monitoring

After clicking the  key, select IP camera to monitor the community.

3.4 Message checking


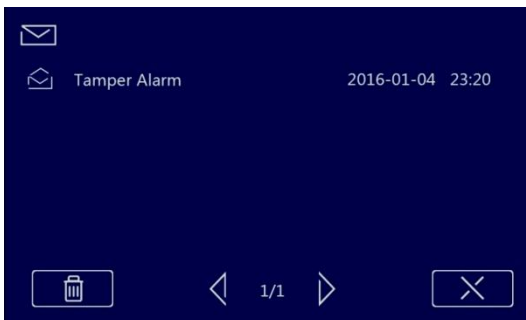
Check the community message sent out by the management center by clicking the  key to enter into the text message interface.

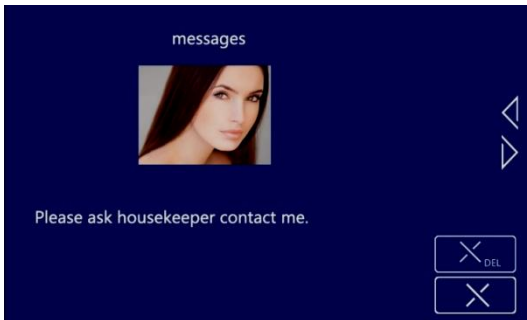
Figure 3.7 Message checking interface



Check message

Select a message, click to open the message and read the details. The user can also delete the message.

Figure 3.8 Message details interface



3.5 Defending/withdrawing defense when going out


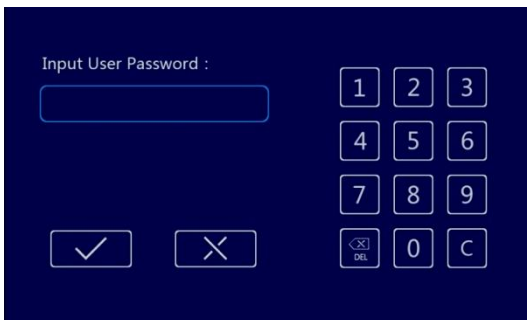
Execute defending/withdrawing defense by clicking the  key when going out.

Figure 3.9 Password entering and confirmation interface



Following operations can be performed in defending state:

Withdraw defense: Enter the user password to withdraw the defense.

Alarm record: Check the record of alarms that have taken place.

Alarm system: Enter the alarm system interface to conduct the setting of each alarm zone.

Following operations can be performed in defending state:

Defending: Enter the user password, then start the defending time extension. The resident shall leave the alarm zone within the extension time.

Alarm record: Check the record of alarms that have taken place.

Alarm system: Enter the alarm system interface to conduct the setting of each alarm zone.

3.6 Alarm system setting




Click the  key at standby interface to enter into the alarm system setting interface and select .

Figure 3.10 Alarm system interface



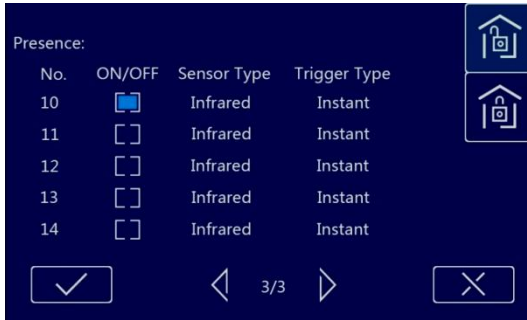
After clicking the  key, enter the user password to enter into the alarm zone property setting interface.

Attention: In defending state, the alarm system interface shows the withdrawing defense icon, now the defense can be withdrawn by entering the user password.

In defending state, if the user is hijacked, the user can enter the force

password to withdraw the defense. This phone will report the hijack information to the management center secretly.

Figure 3.11 Alarm zone property setting interface



Alarm zone property setting

After entering into the alarm system setting interface, conduct alarm zone activation/deactivation, alarm zone type and trigger type setting. See the alarm zone wiring instructions for relevant alarm zone type and trigger type.

Chapter 4 System setting

4.1 Call transfer setting


Click the  ⇒ call transfer at the main interface to enter into the call transfer setting interface.

Figure 4.1 Call transfer setting interface



The interface is a dark blue screen with white text and buttons. At the top left, there are two checkboxes: ☐ Guard Unit and ☐ Indoor Station. To the right of these is a numeric keypad with buttons for digits 1 through 9, 0, and a 'C' button. Below the checkboxes are two buttons: a checkmark button and a cross button. Below the numeric keypad are three buttons: a button with a crossed-out box and 'DEL' text, a '0' button, and a 'C' button.

- 1) Tick target equipment type.
- 2) If the equipment is U1 Voice 7" IP Monitor, target room number shall be entered.

Attention: There is no need to enter the number for U1 Voice Switch Board.

4.2 Time setting


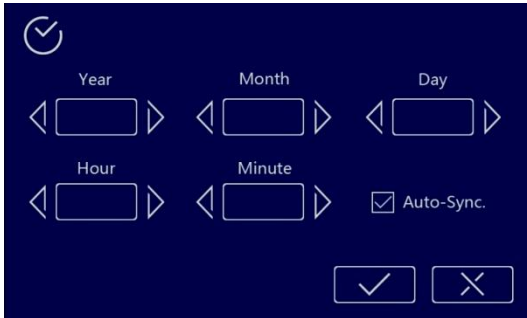
Click the  ⇒ time setting at the main interface to enter into the time setting interface and set local time and date.

Figure 4.2 Time setting interface



Activate automatic time synchronization function: If this item is ticked, local time will synchronize with PC system time automatically.

4.3 Language setting


Click the  language setting at the main interface to enter into the language setting interface.

Figure 4.3 Language setting interface



Set local interface language. Language must be selected when the first time power-on.

4.4 Camera setting


Click the  ⇒ camera setting at the main interface to enter into the camera setting interface.

Figure 4.4 Camera setting interface



Set adding or removing the monitoring camera of this phone.

When adding a camera, the camera code needs to be entered.

4.5 Ringtone setting


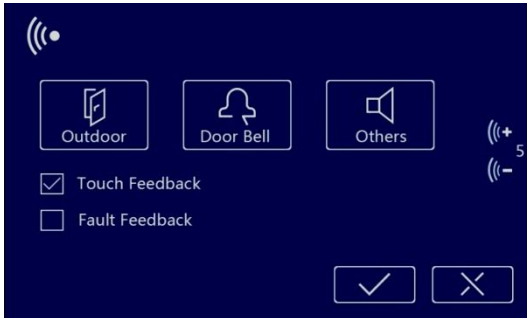
Click the  ⇒ ring setting at the main interface to enter into the ringtone setting interface.

Figure 4.5 Ringtone setting interface



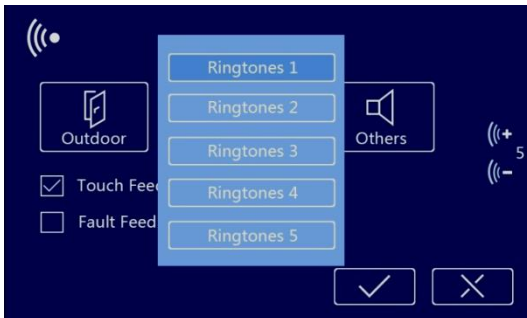
Sound setting

- 1) Adjust ringing volume.
- 2) Set screen touch tone and failure warning tone.

Ringtone selection

Select the list of ringtones of each equipment.

Figure 4.6 List of equipment ringtones



Select the incoming call ring of each equipment.

Attention: Other rings mean the incoming call rings of U1 Voice 7" IP Monitor and U1 Voice Switch Board.

4.6 Display setting




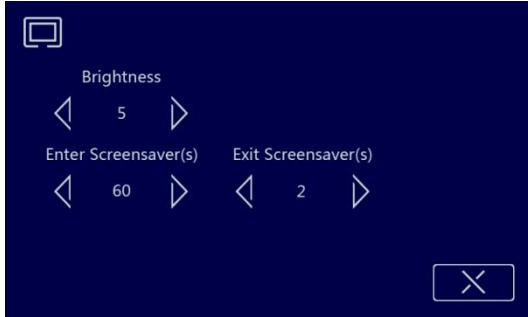
Click the  ⇒ display setting at the main interface to enter into the display setting interface.

Figure 4.7 Display setting interface



- 1) Adjust screen brightness.
- 2) Set screensaver activation time and screensaver deactivation time.

4.7 Engineering setting




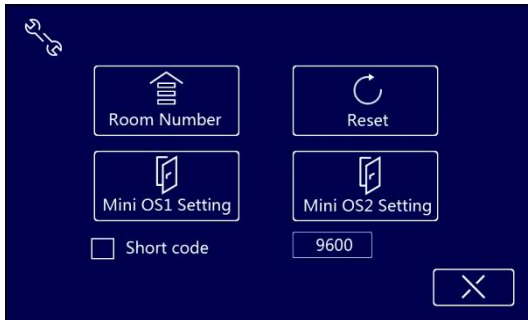
Click the  ⇒ engineering setting at the main interface ⇒ enter the engineering password to enter into the engineering setting interface.

Figure 4.8 Engineering setting interface



Room number setting

Set the room number of this phone

U1 Voice PCM setting

1) U1 Voice PCM enters setting state.

2) Add U1 Voice PCM number: Enter into setting interface ⇒ Engineering mode ⇒ Select U1 Voice PCM 1 setting (or U1 Voice PCM 2 setting) ⇒ Select U1 Voice PCM.

3) Confirm whether the setting complies with the U1 Voice PCM via video.

Attention: U1 Voice PCMs (maximum 5) that are waiting currently shall be listed at the setting interface.

Keep pressing the setting key for 2s and then press the setting key once to allow the U1 Voice PCM entering into setting state.

Restore factory setting

Restore the system setting to the state before it leaves the factory by clicking the RESTORE FACTORY SETTING key and confirming it within 30s after power on.

Attention: All records will be cleared after restoring factory setting operation is executed.

Elevator linkage

Tick elevator linkage activation/deactivation item.

Baud rate setting

The baud rate can be set as 1,200, 2,400, 4,800, 9,600, 19,200, 38,400, 57,600, 115,200.

4.8 Password setting


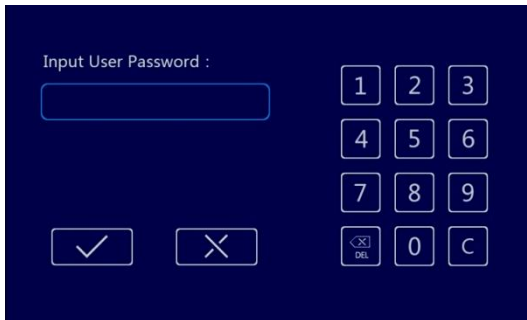
Click the  ⇒ password setting at the main interface to enter into the password setting interface.

Figure 4.9 Password setting interface





The screenshot shows a dark blue interface for password setting. On the left, it says "Input User Password :" above a text input field. Below the input field are two buttons: a checkmark (✓) and a cross (✗). To the right of the input field is a numeric keypad with buttons for digits 1-9, 0, and a "DEL" button (represented by a crossed-out square). The keypad also includes a "C" button for clearing.

Enter old password (user password or force password) ⇒ password entering ⇒ new password confirmation

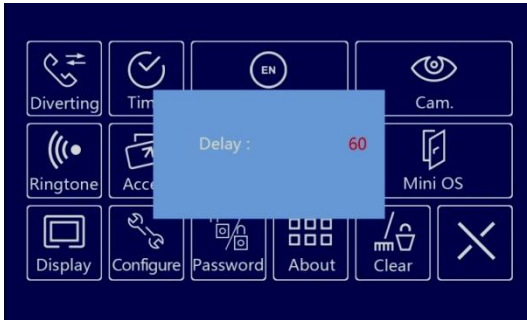
4.9 Screen cleaning

When cleaning, the screen may be locked for a period of time to avoid misoperation.

Click the  ⇒  at main interface to pop up the screen locking

countdown window. The screen is locked for 1 minute during which clicking the screen and the hard keys shall not take effect.

Figure 4.10 Screen countdown interface



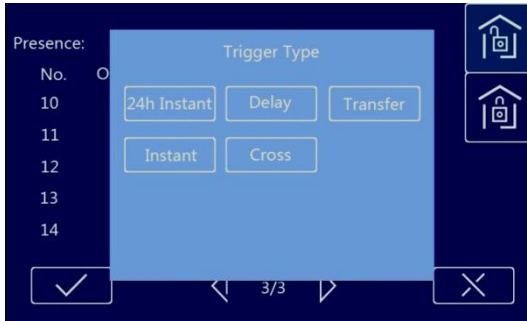
Attentions: Wipe screen surface with soft and bareface cloth.

Allow spraying a little glass cleaner on the cloth for better cleaning effect.

Chapter 5 Alarm zone

5.1 Alarm zone property description

Figure 5.1 Trigger type



Immediate alarm

After defending is arranged in the alarm zone, once triggered, alarm will be sent out immediately.

Delayed alarm

After defending is arranged in the alarm zone, once triggered, delayed alarm countdown state starts. The user can withdraw the defense within the countdown, otherwise, alarm will be sent out immediately upon the expiration of the countdown.

Alarm transmission delay

The alarm zone shall establish associated operation with delay alarm zone. After defending is arranged, once the alarm zone is triggered ahead of the delay alarm zone, alarm shall be sent out immediately. If the delay alarm zone is triggered ahead of the alarm zone, trigger countdown shall be activated; the user may withdraw the defense within the countdown, otherwise, alarm shall

be sent out immediately upon the expiration of countdown.

24-hour immediate alarm

Detection will be carried out immediately after system power on in the alarm zone, being unaffected by the defending/withdrawing defense, once the alarm zone is triggered, alarm shall be sent out immediately.

Cross alarm

For the alarm zone, coordinated trigger of two alarm zones is needed. After defending is arranged, once the cross alarm zoneI is triggered, if the cross alarm zoneII is triggered within 5 seconds, alarm shall be sent out immediately, otherwise, alarm shall not be sent out.

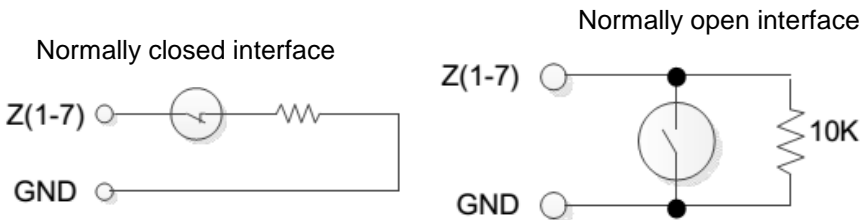
5.2 Doorbell function

Doorbell function can be set through **alarm setting** ⇒ **alarm zone setting** ⇒ **detector type**. After setting, the doorbell shall ring immediately after the alarm zone interface detects doorbell input.

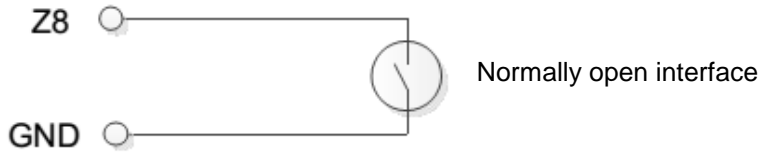
5.3 Wiring diagram of the alarm zone

5.3.1 Single security detector wiring

Z1 through Z7 wiring of U1 Voice 7" IP Monitor:

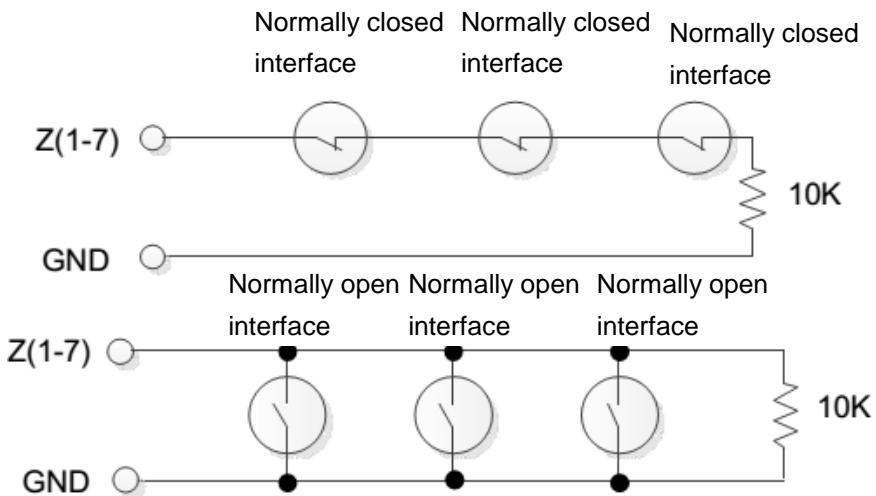


Z8 wiring of U1 Voice 7" IP Monitor:

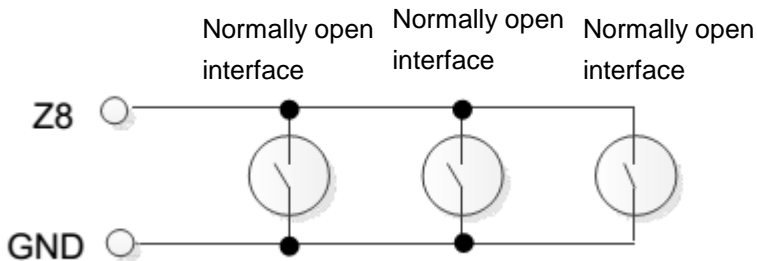


5.3.2 Multiple security detectors wiring

Z1 through Z7 wiring of U1 Voice 7" IP Monitor:



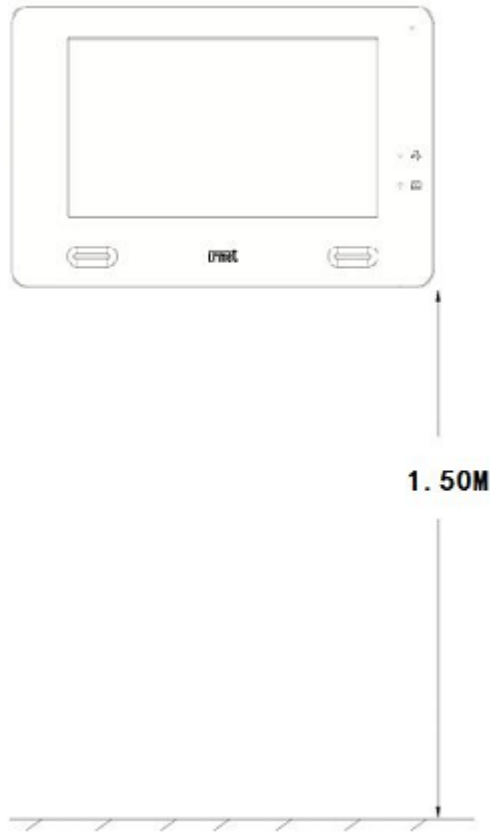
Z8 wiring of U1 Voice 7" IP Monitor:



Attention: Alarm zone interfaces that are not used can be deactivated at main interface ⇒ setting ⇒ alarm setting or shielded with 10K resistance grounded.

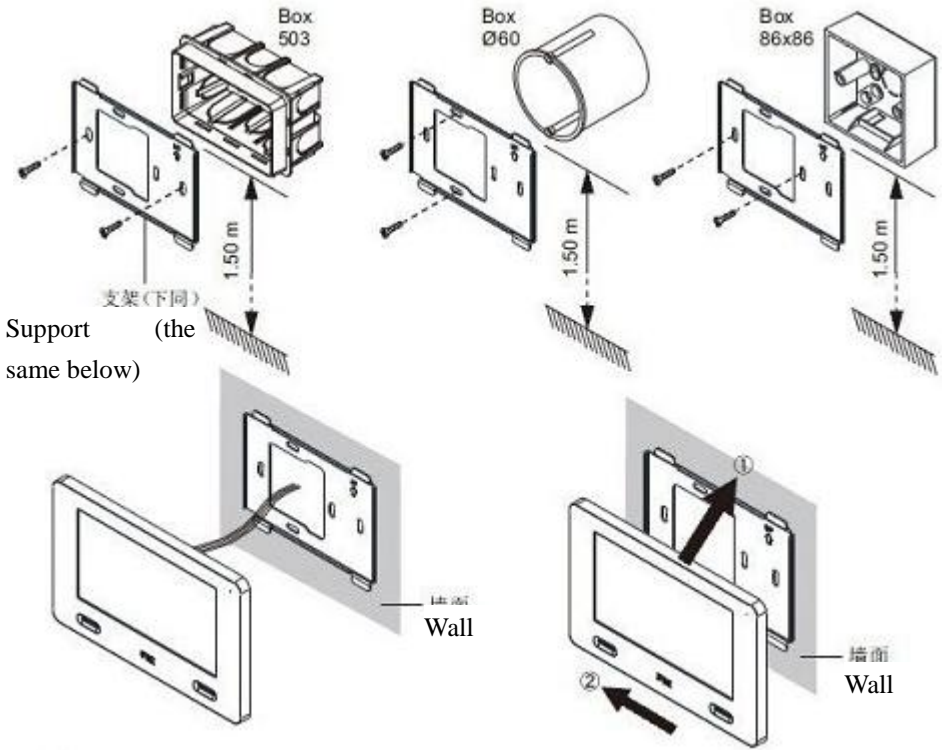
Chapter 6 Installation

6.1 Recommended installation height



Recommended installation height: 1.5 m

6.2 Installation instructions



Steps:

- 1) Support fixing: Fix the support on the wall with 503 recessed mounting box, mounting box (diameter: 60) or 86*86 mounting box and screws provided respectively.
- 2) Connection: Connect the outgoing line from the back of the extension properly in turn according to the instructions in [Section 2.2](#);
- 3) Locking: Clip the U1 Voice 7" IP Monitor on the support and move it left and lock it in place.

Attention: In order to use this product in a better way, it is recommended that

category 5+ digital communication cable shall be adopted as system CAT5 bus.

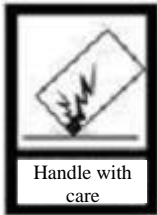
The maximum communication distance of this extension is 100 m.

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.

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