USER MANUAL

U1 Voice PCM

Sch./Ref. 1722/16
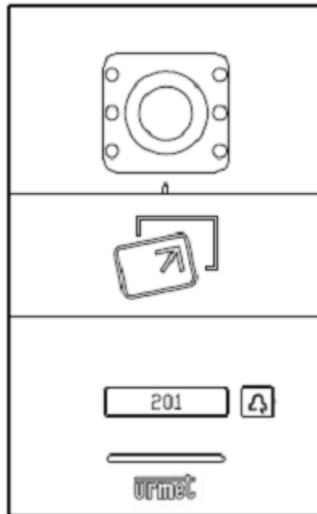
Version: V1.4
Code: SRD-UME1722/16-0918-V1.4

Preface

Thank you for choosing Urmet product. This manual is the user manual of U1 series digital system U1 Voice PCM (Ref. 1722/16). Please read this manual carefully before using the U1 Voice PCM.

Disclaimer

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Chapter 1 Product overview

This product is U1 Voice PCM of U1 series 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

• Support IC card swiping；

• Support calling U1 Voice 7" IP Monitor and U1 Voice Switch Board;

• Adjustable unlock time;

• Door status detection, door opening overtime alarm;

•Provide normally open/normally closed unlock output;

• Support online upgrading.

1.2 Specifications

1.2.1 Working parameters

Working voltage: DC 24V	Quiescent current: ≤60mA
Working current: ≤ 130mA	Working environment temperature: -25℃ ~ 70℃
Storage environment temperature: -40℃~70℃	Product dimension (W/H/D): 120 * 194 * 44.7mm

1.2.2 Camera

Type: CMOS   Pixel: 30W

Viewing angle: diagonal 95°   Minimum illumination: 0 lux

Focal length: 2.2mm   Fill light mode: white light

1.3 Description of appearance and interface

1.3.1 Front view

Figure 1.1 Front view

Camera
Fill light
Microphone

Card swiping area

Call key
Doorplate window
Loudspeaker
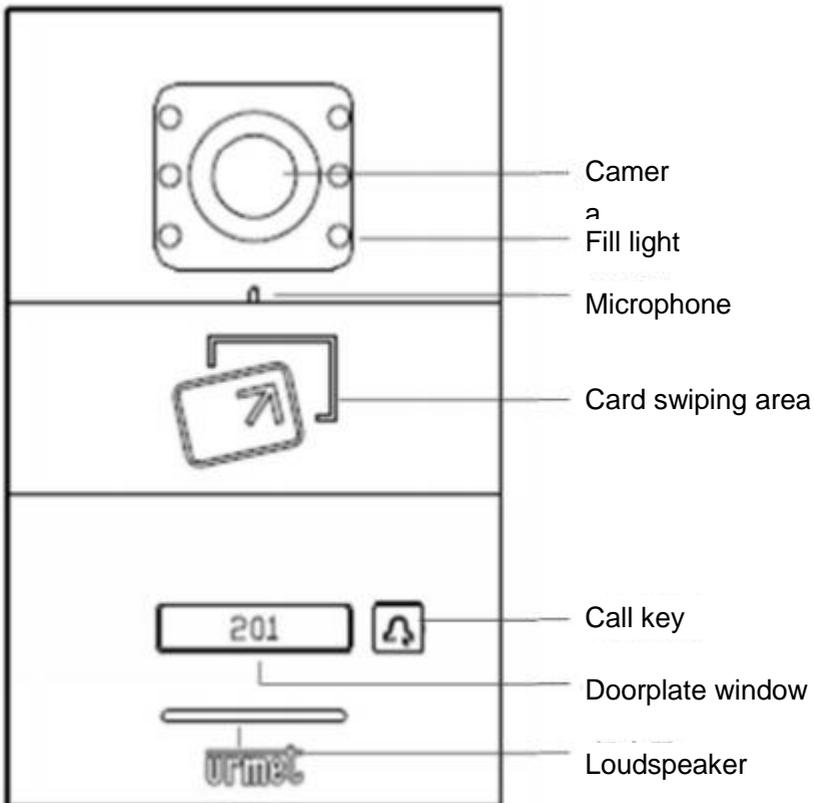
1.3.2 Rear view

Figure 1.2 Rear view
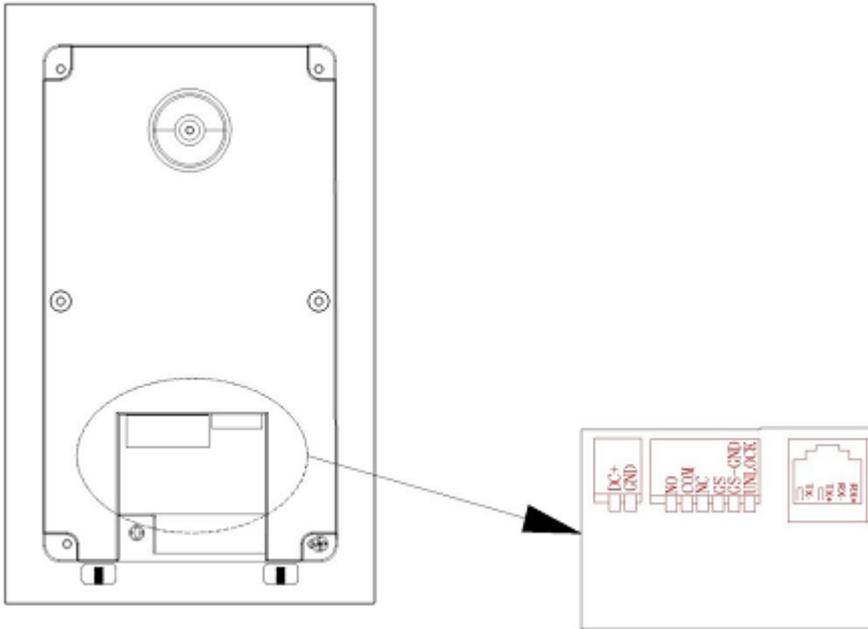
Interface description

RJ45 network interface: connection line interface, connect 24V non-standard PoE switch;

NO COM NC: Normally open/normally closed interface;

GS GS-GND: Door status detection interface;

UNLOCK: Indoor unlock interface;

GND DC+: Independent power supply interface.

Chapter 2 Configuration

2.1 U1 Voice PCM matches with U1 Voice 7" IP Monitor

1. Power on U1 Voice PCM and U1 Voice 7" IP Monitor.

2. Press the Ring button 2 seconds of PCM, within 3 minute after power on, until 3 beeping sounds are heard. Then press the U1 Voice PCM key once again, the U1 Voice PCM beeps once and enters into configuration state.

3. Press Setup icon of the U1 Voice 7" IP Monitor -> Configuration icon. Enter the engineering password "000000".

4. Select PCM 1 or PCM 2 to enter into PCM configuration interface.

5. Click " ✓ " on the right-hand side to complete the interface process.

Figure 2.1 U1 Voice PCM configuration interface

No Mini OS is detected!   Device1

                              ✓
                              ✗

Attention: After successful matching, highlighted U1 Voice PCM icon shall be displayed in the status bar of the U1 Voice 7" IP Monitor.

2.2 Card management

Figure 2.2 Card management interface

After entering into the interface, select the U1 Voice PCM to be operated and conduct relevant operations. The specific functions represented by the icons at the bottom of the interface are shown below:

🗑 : Delete all registered cards;   ✕DEL : Delete one registered card;

➕ : Register access control card of U1 Voice PCM;   ✕ : Return to the previous menu.

After selecting the key, place the IC card in the card swiping area of the U1 Voice PCM. A beep sounds to indicate successful registration. The number of the card registered successfully can be seen after entering into the interface shown below:

Figure 2.3 Card swiping prompt interface

Figure 2.4 Successful card registration interface

2.3 Key synchronization

In case of one-family-multi-extension, if a certain U1 Voice 7" IP Monitor is matched with the U1 Voice PCM successfully, only the U1 Voice 7" IP Monitor has the authority to manage and unlock the U1 Voice PCM. In this circumstance, only the U1 Voice PCM status bar of the U1 Voice 7" IP Monitor is highlighted, the U1 Voice PCM status bar of other U1 Voice 7" IP Monitors shows grey.

If it is needed that other U1 Voice 7" IP Monitor extensions are also authorized

to manage and unlock the U1 Voice PCM, key synchronization shall be implemented. Key synchronization operation. Select the U1 Voice 7" IP Monitor which has the management authority, enter into its U1 Voice PCM management interface and select key synchronization. The key synchronization process interface is shown below:

Figure 2.5 Key synchronization process interface
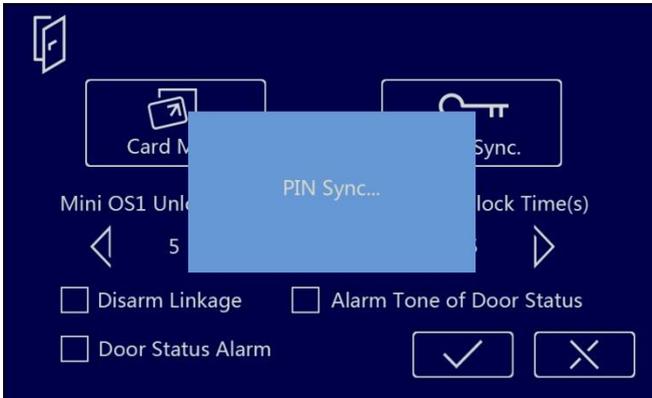
Figure 2.6 Successful key synchronization interface
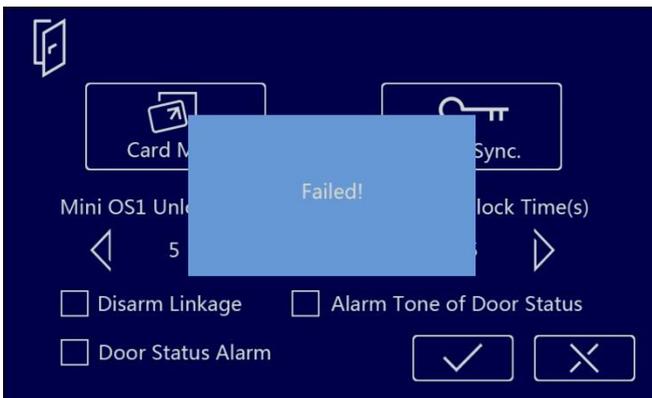
2.4 Unlock time setting

Enter into the U1 Voice PCM management interface to set the unlock time. Unlock time setting range is 5~30 seconds.

2.5 Withdrawing defense linkage

Tick the U1 Voice PCM withdrawing defense linkage. When the U1 Voice 7" IP Monitor completes the defending successfully, if the U1 Voice PCM opens the door successfully by card swiping, the U1 Voice 7" IP Monitor shall withdraw the defense automatically.

2.6 Door status alarm

The door status alarm function is, when the time that the U1 Voice PCM spends on the door opening detection exceeds 120 seconds, the U1 Voice Switch Board will give a alarm prompting the administrator that the time that certain resident spends on opening the door exceeds the specified time. The prompt interface of the U1 Voice Switch Board appearing after door status alarm is shown below:

Figure 2.7 Door opening alarm interface

2.7 Door status alarm tone

Tick the door status alarm tone. When the time that the U1 Voice PCM spends on the door opening detection exceeds 120 seconds, the alarm prompt tone shall sound automatically, prompting the resident to close the door.

2.8 Tamper alarm

Tamper alarm is the alarm given when the U1 Voice PCM is disassembled under force. The alarm will prompt the administrator that the U1 Voice PCM of a certain resident is being damaged. The alarm prompt of the U1 Voice Switch Board is shown below:

Figure 2.8 Tamper alarm interface

Chapter 3 Operating instructions

3.1 Call the resident

The visitor may call the U1 Voice 7" IP Monitor by pressing the key, now this phone sounds the ring back tone. If pressing the key once during ringing, reset the 30 seconds countdown; if keeping pressing the call key during ringing, switch to calling the management center.If the resident doesn't answer the call within 30 seconds, the call will be ended automatically.

3.2 Call the management center

The visitor may call the management center by keeping pressing the key for 2 seconds, now this phone sounds the ring back tone. If the management center doesn't answer the call within 30 seconds, the call will be ended automatically. If keeping pressing the key during ringing, reset the 30 seconds countdown; if pressing the key once during ringing, switch to calling the resident.

3.3 Unlock

Unlock via card swiping

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

Unlock via U1 Voice 7" IP Monitor

When the resident is being called or the resident is monitoring the U1 Voice PCM, the U1 Voice 7" IP Monitor can control the unlocking of the U1 Voice PCM.

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.

Chapter 4 Installation

4.1 Installation steps

First step: installation of the box embedded in wall; Dimension (W/H/D): 103*178*43mm

Second step: Clip the door phone into the box embedded in wall and fix it with screws.

Clip

Wall

Box embedded in wall

Screw
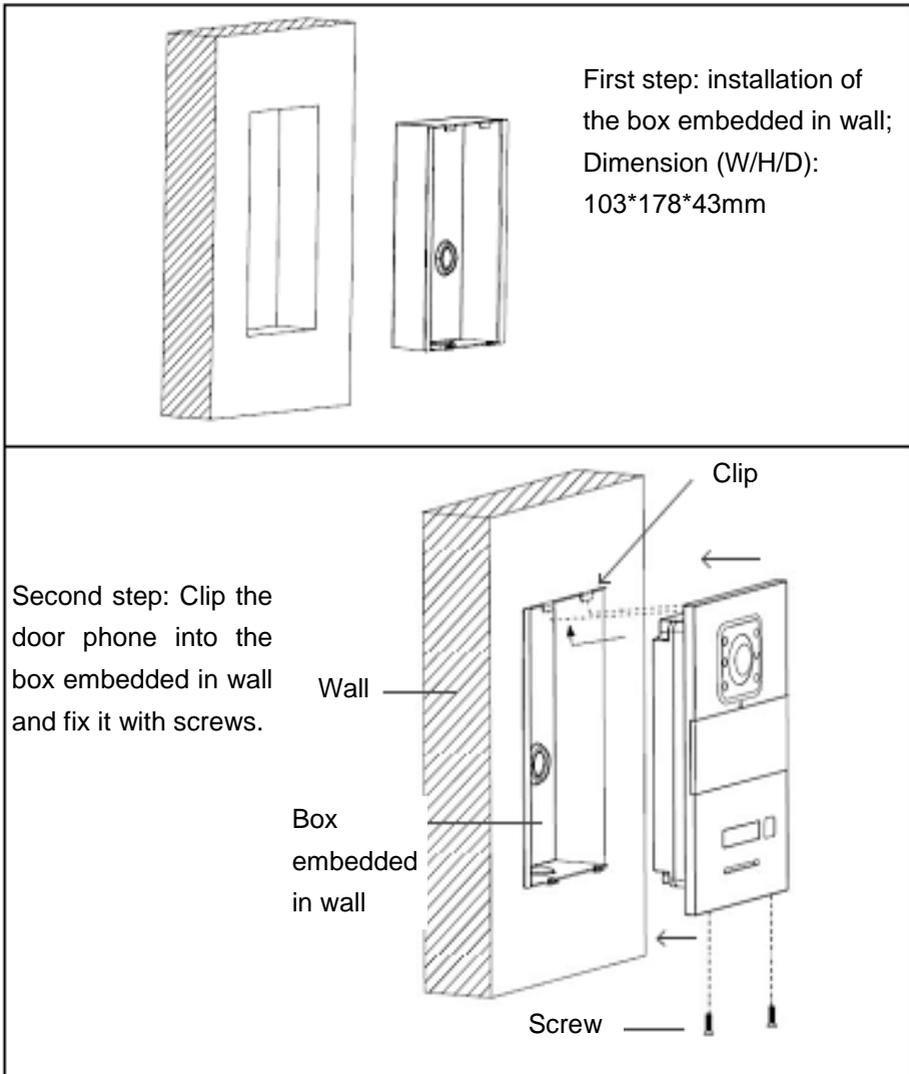
4.2 Recommended installation height

1.64M   1.63M
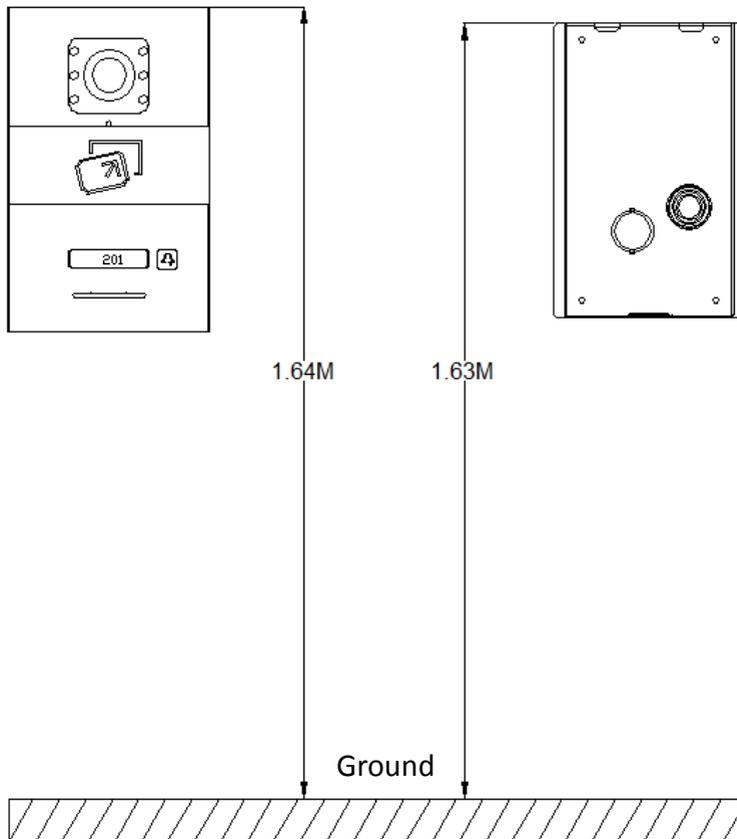
Ground

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.

Notes

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

| Be away from magnetic field | Be away from hot environment | Be away from moisture |

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

| Handle with care |

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

| Wipe with care |

4. Don't disassemble the equipment by yourself.

Appendix1 Figure index