# User Manual

## Outdoor Station


**T - series Keypad Outdoor Station User Manual_V1.0**
**T-OS07**

Hippo

# Attentions

1、Please keep devices away from strong magnetic field , high temperature , wet environment ;


2、Please do not fall the devices to the ground or make them get hard impact ;


3、Please do not use wet cloth or volatile reagent to wipe the devices ;


4、Please do not disassemble the devices.

# Contents

# Unit 1 Overview

This product is an Outdoor Station of 2-Wire analog video door phone system, it makes communication with Indoor Monitor via 2-core cable in the system, the Outdoor Station also supports access control with IC card.

## 1.1 Functions and Characteristics

- **Support video intercom and unlocking**
- **Support real-time monitoring**
- **Door status detection, and unlock state timeout alarm**
- **Support IC card**
- **Support Wiegand output**
- **Support connecting external camera**
- **Support call by name list & call by apartment No.**

## 1.2 Parameters

**Working Parameters**

| | |
|---|---|
| Working Voltage: DC 24~32V | Static Current: ≤ 80mA (DC 30V) |
| Working Temperature: -25℃~55℃ | Working Current: ≤ 160mA (DC 30V) |
| Storage Temperature: -40℃~70℃ | Dimension(W/H/D): 324×128×46mm |

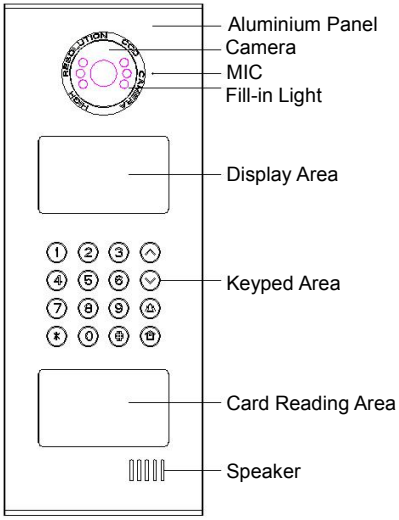
**Camera**

| | |
|---|---|
| Type: CMOS | Resolution: 700TVL |
| View Angle: horizontal 48° | Min. Illumination: 0.1 lux |
| White Balance: auto | Fill-in Light: white |

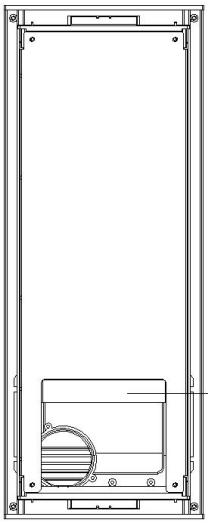
# Unit 2 Appearance and Interface

## 2.1 Appearance

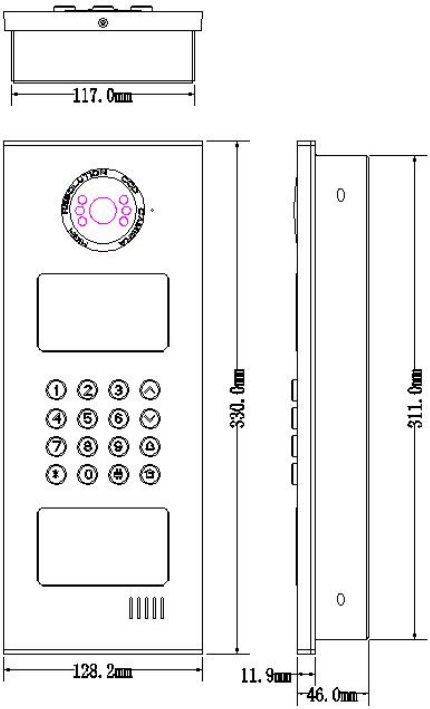

Front View



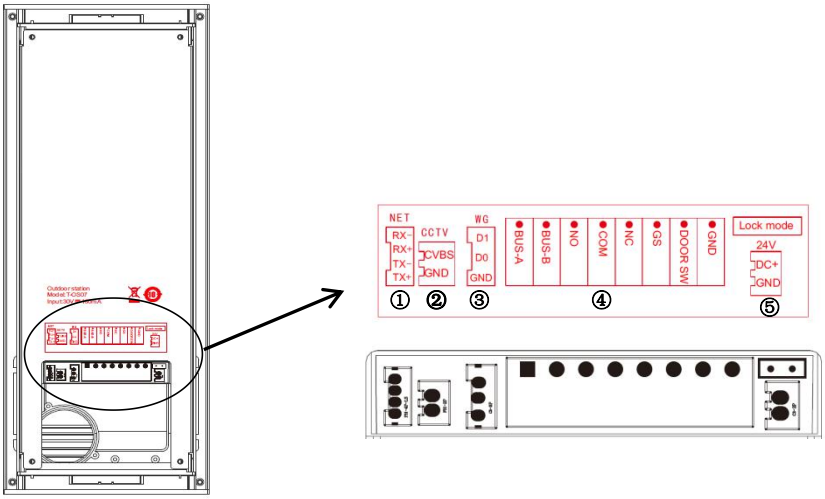

Rear View



## 2.2 Dimension



## 2.3 Interface Introduction




① Network(update) Interface (1: TX+ , 2: TX-, 3: RX+, 4: RX-);

② External camera input;

③ Wiegand output;

④ BUS-A 、BUS-B：2-Wire BUS interface;

NO, COM, NC: Normally open pin, Common pin, Normally closed pin;

GS: Door status detection;

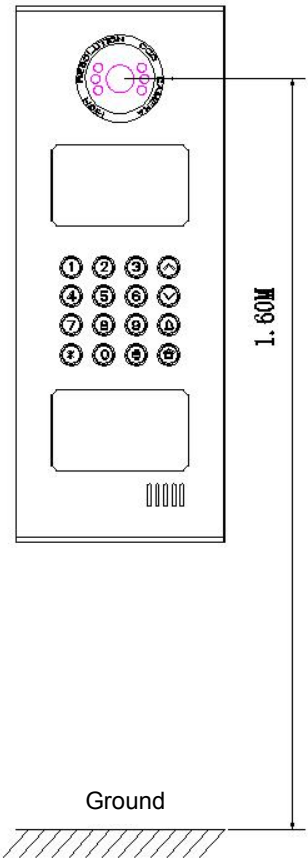
DOOR SW: door unlocking switch;

GND: Common ground;

⑤ External DC 24V power supply interface;

# Unit 3 Installation

## 3.1 Installation Height

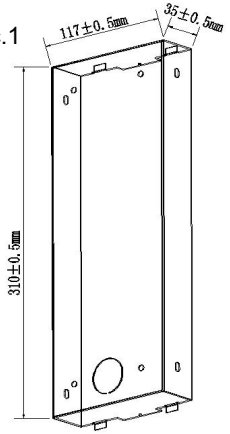



**Suggested height for installation: camera is 1.6m above the ground**

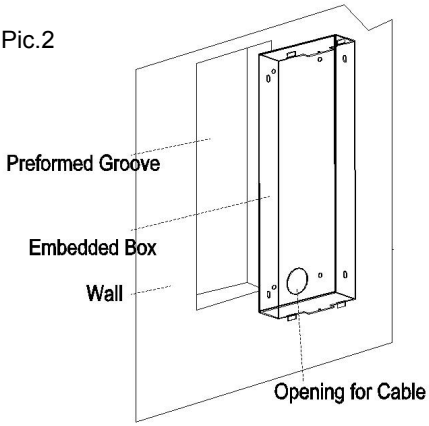
## 3.2 Installation Steps

Step 1: Put the embedded box into the preformed groove (as Pic.2). After getting the cable out through the opening, fasten the box with screws or by cement. Dimensions of embedded box are as below:

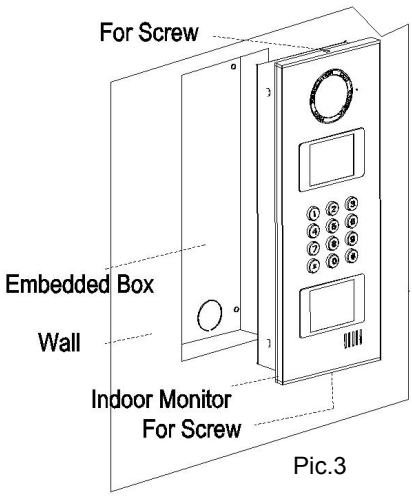
Pic.1



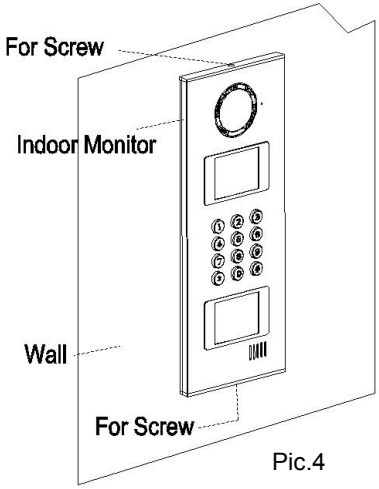

Pic.2




Step 2: After connecting the cable to the Outdoor Station (as Pic.3), match the snap slot of the Outdoor Station to the snap of embedded box and press the outdoor station into the box, then fasten the Outdoor Station to the box with screws (as Pic.4).

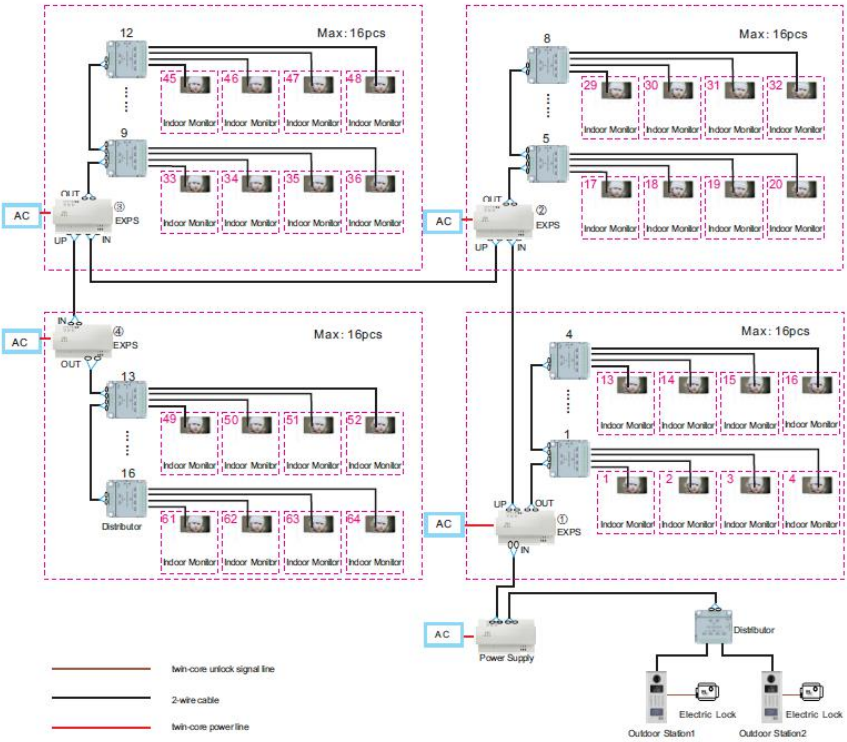



Pic.3




Pic.4

## 3.3 System Wiring




Remarks:

① This Outdoor Station is using keypad to make the call, which is suitable for large system with max. 128 apartments, the wiring topology is shown as above. In addition, it also supports being installed for villa or other small system.

② Support multiple Indoor Monitors(Max. 4pcs) in 1 apartment, address of all the Indoor Monitors in one apartment should be same.

**Attention: In case of over current, only 1 Indoor Monitor can be set as master within 1 apartment. Detailed setting refer to the interface introduction of Indoor Monitor.**

③ In the case of having multiple Indoor Monitors in 1 apartment, all Indoor Monitors will ring when they are being called, but only the master Indoor Monitor will shows the screen. If one Indoor Monitor takes the call, the rest will hangup automatically.

④ Restricted by the power consumption, the system only allows 2 Indoor Monitors showing the screen (being operated) at the same time (intercom function is not affected).

⑤ Distributor is recommended for system wiring (star topology), while Bus topology (hand in hand connection) is supported as well.

⑥ Wiring distance A is the Max. Length from Outdoor Station to Power Supply, wiring distance B is the total length from Power Supply to the last Indoor Monitor, wiring length of different types of cable are shown as below:

| Specification | (A+B) length/m |
|---|---|
| RVV 2*0.75mm$^2$ | 110 |
| Twisted pair | 160 |

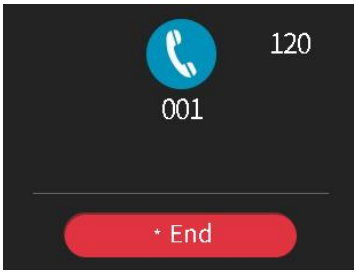
# Unit 4 Operation Instructions

## 4.1 Call By Apartment No.

In standby mode, visitors can input apartment No. and press " # " to make the call, and the device will enter calling interface.

If Indoor Monitor is offline, it will go back to the standby interface with "Beep".

If Indoor Monitor is online, it will begin the calling count down and start to play the ringback.

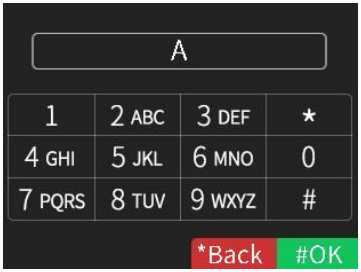



*Calling Interface*

## 4.2 Call By Name List

In standby mode, visitors can press " ↑↓ " to enter name list interface (name list should be imported by PC configuration software in advance).


*Name List Interface*




*Name Searching Interface*

After pressing " ↑↓ " or inputting the user name, press " # " to enter calling interface.

If Indoor Monitor is online, it will begin the calling count down and start to play the ringback.

## 4.3 Call Guard Unit

In standby mode, visitors can press  to call Guard Unit.

## 4.4 Unlock

1) Unlock By Swiping Card

Swipe the registered card to the card reading area to unlock the door, and Outdoor Station will show “door opened”.

2) Unlock By Indoor Monitor

Residents can unlock the door from Indoor Monitor when Outdoor Station is calling or being monitored by Indoor Monitor, and Outdoor Station will show “door opened”.

3) Unlock By External Button

There is a interface for integration of external push button, when connected, a normal push button can be used to unlock the door.

4) Public Password Unlock

If this function is activated, residents can press “ **#** ” and wait for 1s to enter public password interface.


*Public Password Unlock Interface*

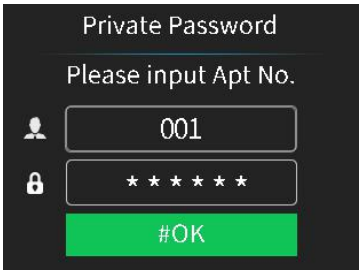
In public password interface, input public password and press “ **#** ” to unlock the door.

**Remark: 1. Public Password Unlock function is deactivated as default;**

**2. Default public password: 666666.**

5) User Password Unlock

If User Password Unlock function is activated, residents can press " * # " and wait for 1S to enter user password interface.




*User Password Unlock Interface*

In User Password interface, input Apartment No. and related password, then press " # " to unlock the door.

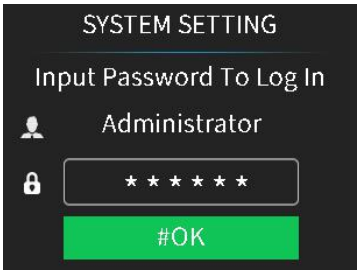
**Remark: User password needs to be imported by PC configuration tool, detailed setting refer to PC configuration tool instruction.**

# Unit 5 Settings

## 5.1 Setting Login Interface

In standby mode, users can press " # * " to enter setting login interface.

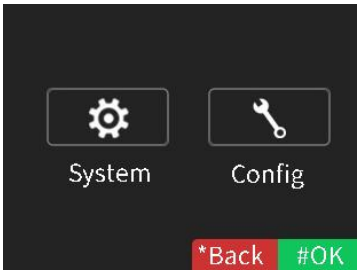
Default configuration password: **801801**.




*Setting Login Interface*

## 5.2 Main Setting Interface

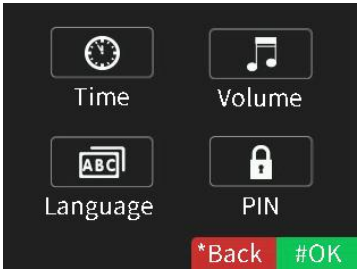
After inputting the correct configuration password and " # ", main setting interface is shown as below, users can press " ↑↓ " to choose the item.




*Main Setting Interface*

# Unit 6 System Settings

System setting includes setting of Time, Volume, Language, PIN, Unlock Time, Card and Wiegand, users can press " ↑↓ " to choose the specific setting.

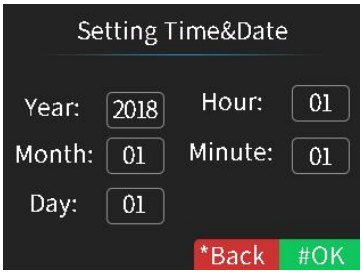



*System Setting Interface 1*


*System Setting Interface 2*

## 6.1 Time Setting

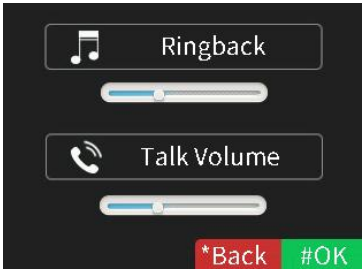
Time setting interface is shown as below, users can press " ↑↓ " to select each option and input the number, press " * " to delete or return. After revising finished , press " # " to save and return.




*Time Setting Interface*

## 6.2 Volume Setting

Volume setting interface is shown as below, users can press " # " to adjust, and " * " to save and return.




*Volume Setting Interface*

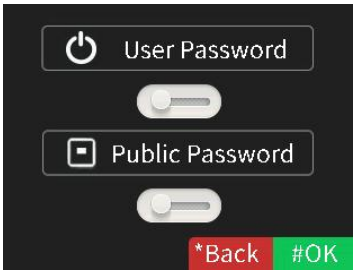
## 6.3 Language Setting

Language setting interface is shown as below, users can press " ↑↓ " to select the language, press " # " to save and return.


*Language Setting Interface*

## 6.4 PIN Setting

Password setting includes 3 items: On and Off for user password and public password, and change of public password. Users can press " # " to adjust, and " * " to return.




*PIN Setting Interface*

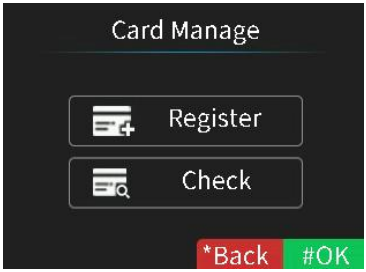
## 6.5 Unlocked-Time Setting

Unlocked-time setting is to set the duration of the unlocked time after door opened. When the time is out, the door will lock again automatically. The unit is "second". Press " * " key to delete and press " # " key to save and return.

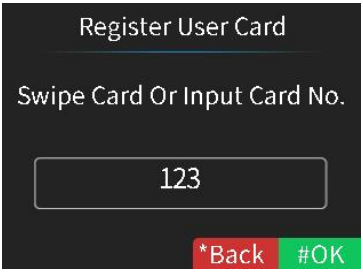

*Unlocked-Time Setting Interface*

## 6.6 Card Management

Card management includes registration, check(card information), delete, clear(delete all) and copy.




*Card Management Interface*




*Registration Interface*

Swipe a card or input the card number to register, after registering finished, press " # " to confirm, or " * " to return. While inputting card number, users can press " * " to delete each number. The operation of card deletion is same as card registration.

**Remark: Capacity of registered card: 2000 cards maximum .**

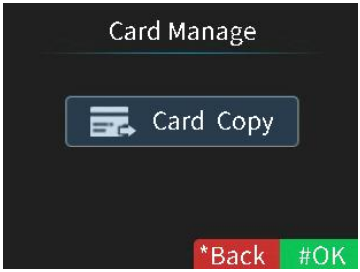
Users can enter ”check(card information) ” to check all card numbers and the quantity of registered cards.

Press ” ↑↓ ” to page up/down the card numbers.


*Card Information Interface*

If you choose the “clear”, a message will come out for you to confirm the operation(delete all). Press " **#** " key to confirm, and press " ***** " key to return.

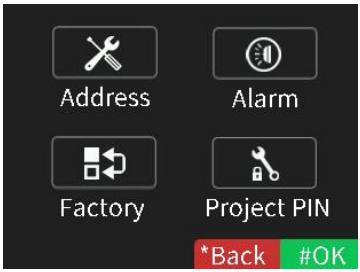
“Card Copy” function is reserved and coming soon.




*Card Copy Interface*

# Unit 7 Configuration Settings

Configuration setting includes address setting, alarm setting, factory testing, project pin, company info and device info. Press " ↑↓ " to enter a particular setting.




*Configuration Setting Interface 1*


*Configuration Setting Interface 2*

## 7.1 Address Setting

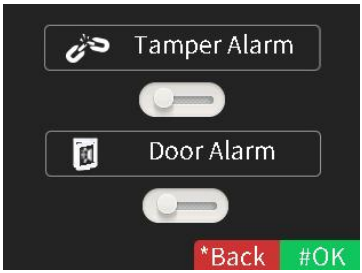
Address setting interface is shown as below, address range: 1~32. Press " **#** " to change the address of the current device.

**Remark: In case of address conflict, "Building" and "Unit" are fixed, only "No." can be changed.**


*Address Setting Interface*

## 7.2 Alarm Setting

Alarm Setting interface is shown as below, users can press " # " to turn on/off each alarm option. For "Door alarm", if the door is unlocked over 120s, the device will ring the alarm until the door is locked again.




*Alarm Setting Interface*

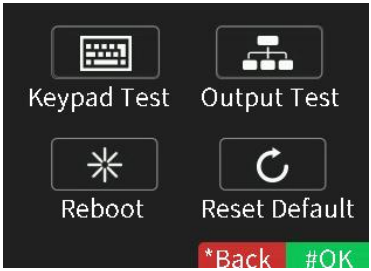
## 7.3 Factory Testing

There are various testing programs on factory testing interface, most frequently use are "Reboot " and "Reset Default".

When choosing "Reboot", choose "confirm" on pop-up box to restart system.

When choosing "Reset Default", choose "confirm" on pop-up box to restore the system as factory setting, which means all settings (as device properties , volume etc.) will be restored as factory setting.


*Factory Testing Interface 1*

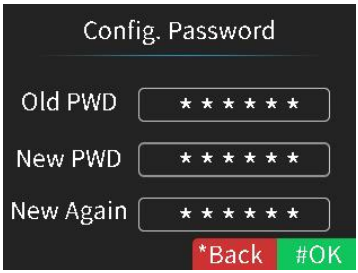



*Factory Testing Interface 2*

Remark: Reset Default within 30s from power on, all data will be me erased(name list, card list,private unlock password);
Reset Default after 30s from power on will only restore factory setting.

## 7.4 Configuration Password

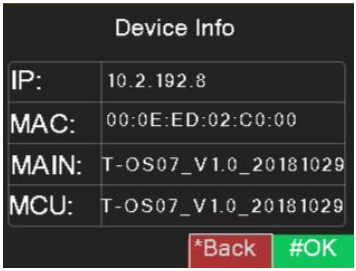
To change the configuration password: input the current password, move to new password if the current password you input is correct, then input your new password(6 digit) twice.




*Configuration Password Interface*

## 7.5 Device Information

In device information interface you can find the version of the device(MAIN/MCU), IP address and MAC address.




*Device Information Interface*