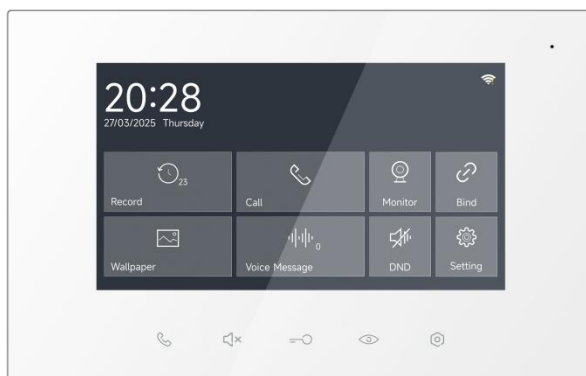


User Manual

Indoor Monitor



T Series 7 inch Indoor Monitor User Manual_V1.0 T- IS20

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.

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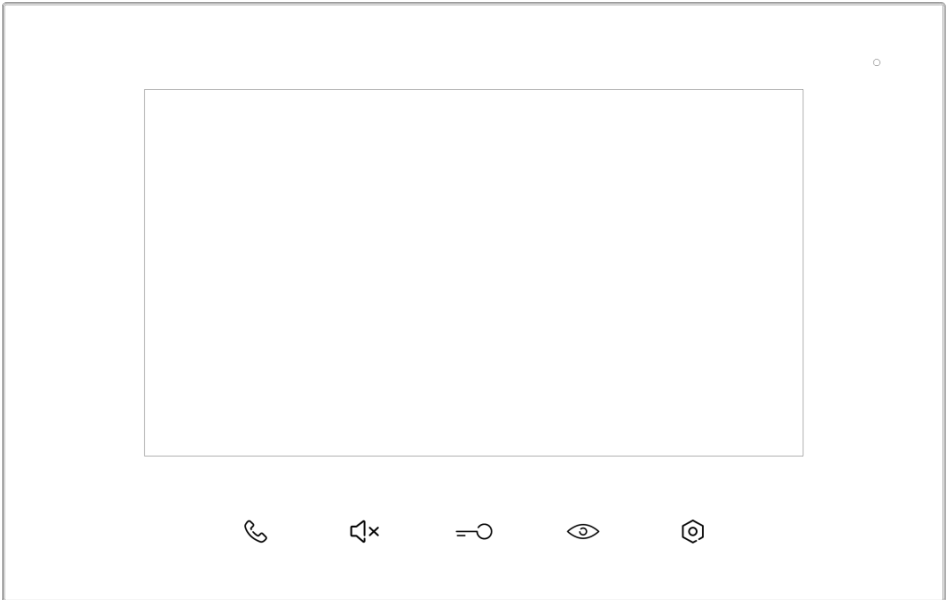
Chapter 1 Functional Overview

This product is a two-wire Linux indoor monitor, which can be connected to the power supply and outdoor station through twist pair wires to form a two-wire analog video intercom system. The product functions are as follows:






- **Support visual intercom, unlock the door**
- **Support real-time monitoring from outdoor station**
- **Support multiple indoor monitors in one apartment**
- **Support indoor intercom and external intercom**
- **Support remote video intercom, unlock and monitor through outdoor station via Tuya Smart APP**

Chapter 2 Product Introduction

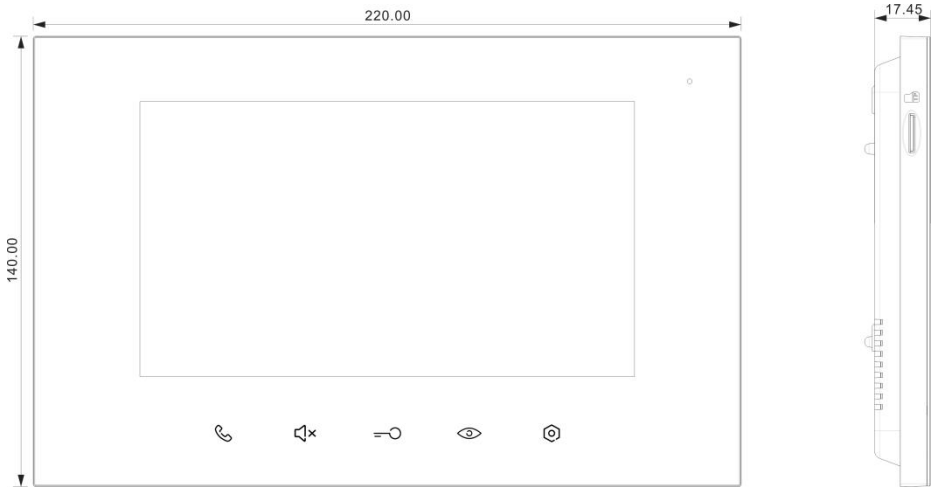
2.1 Product Appearance



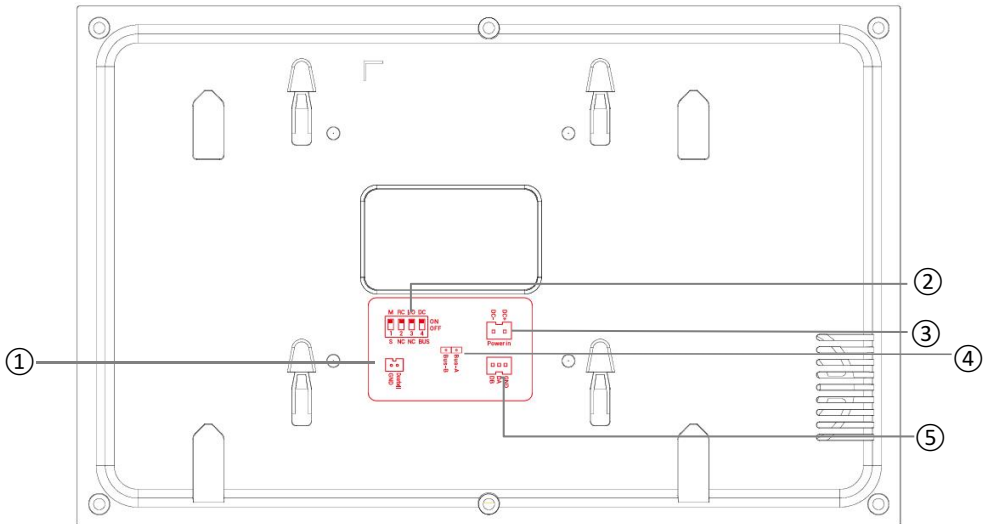
Touch button description:

- (1)  : dial, answer, hang up ;
- (2)  : Mute
- (3)  : Unlock Lock 1& Lock 2, Short press to unlock Lock 1,Long press to unlock Lock 2.
- (4)  : Monitor
- (5)  : Setting

2.2 Product Dimension



2.3 Interface Description



(1) **Number ①** :Bus port;

No polarity wiring, and can be connected to the two-wire system at any BUS A, BUS B or BUS B, BUS A.

(2) **Number ②** : Independent power supply interface (DC 21 ~ 32 V);

When the indoor monitor is powered by DC, it switches to DC power and disconnects the bus power. If the device is powered by DC, when the device enters the system setting, the screen will light up directly without requesting the power supply; if the device is powered by bus, it must apply to the power supply for use. If the power supply allows, the screen will light up, and the system status light flashing indication is not allowed.

(3) **Number ③** : Master and Slave selection/ Matching switch;

M/S master and slave dip switch, if one household has multiple extensions, in order to reduce the load of multiple indoor monitors on the bus, it is recommended that one household has one master device, and other indoor monitors should set as slave extension. When one household has multiple indoor units, when the indoor monitor receives a call, the master device will turn on the screen and ring at the same time, while the slave units will only ring without turning on the screen. However, when the device is powered by DC, both the master and slave will turn on the screen when there is a call.

Reserve dip : Reserved function

DC power supply : When forced DC power is supplied, the device only draws power from the DC module and not from the bus.

(4) **Number ④** : RS485 interface (reserved function).

RS485 interface, reserved function.

(5) **Number ⑤** : Doorbell interface.

An external doorbell button is used to detect the doorbell input. When the doorbell is triggered, the indoor unit plays the doorbell tone.

2.4 Specifications

Working voltage: DC 12 ~ 30 V

Static current: ≤ 90 mA (DC 30V)

Working current: ≤ 250 mA (DC 30V)

LCD Display: 7 inch

Resolution: 800×480

Dimensions (L × W × D): 220×140× 17.5 mm

Working temperature: -10°C ~ +55°C

Storage temperature: -30 °C ~ + 70 °C

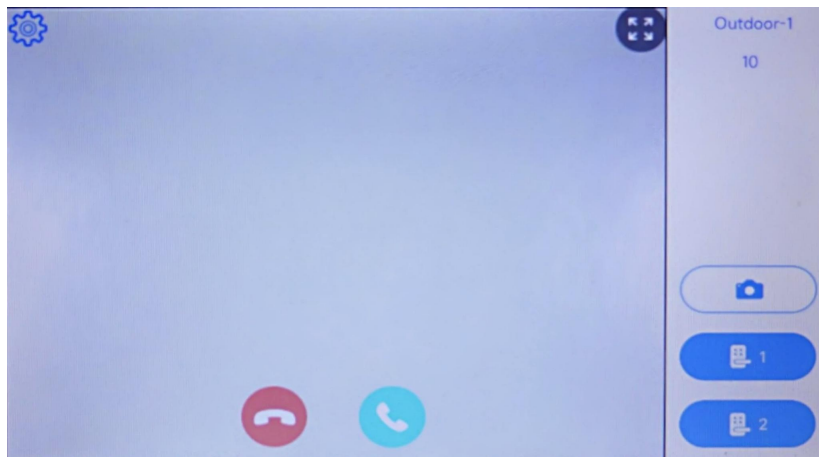
Chapter 3 Basic Functions

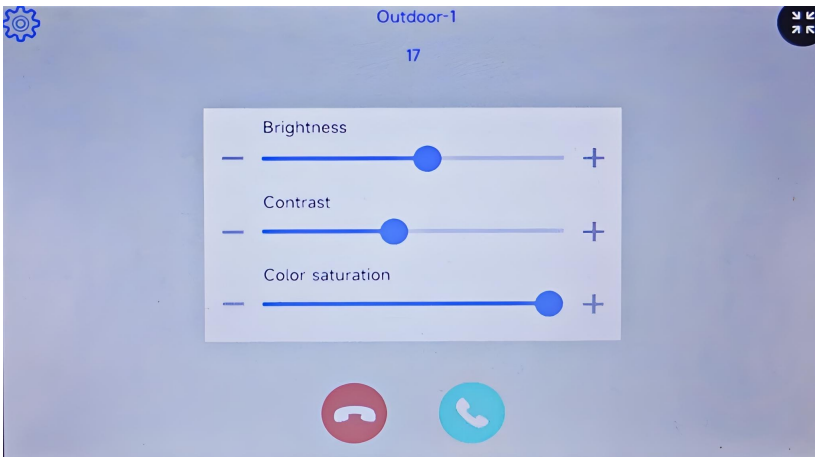
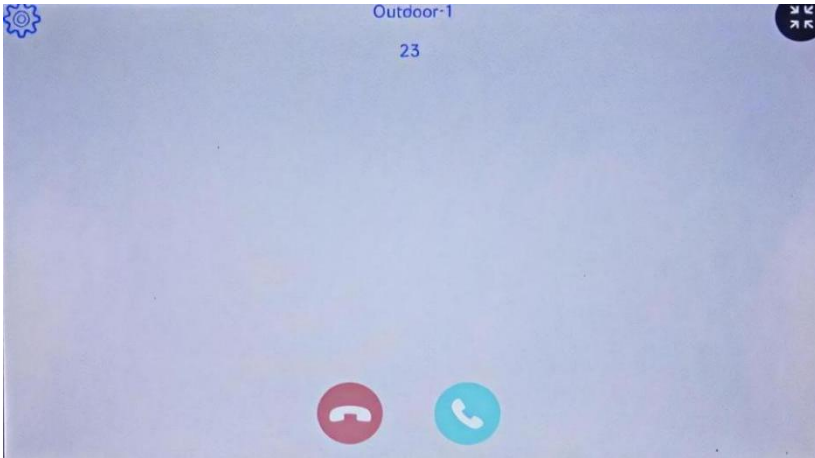
3.1 Power on

First power-on (using bus power supply +30V or independent power supply DC +12-30V) → click the screen to enter the language selection interface, select the corresponding language, click OK → enter the main page.




3.2 Call Answer

Basic process: Ringing ⇨ Call ⇨ Unlock ⇨ Call ended





Incoming Call:

- 1、 Visitor can call indoor monitor from outdoor station, the bell of indoor monitor rings.
- 2、 Residents press  to answer the call
- 3、 Residents can press  on the video to zoom in or out of the screen, and default to calling in full screen.
- 4、 During the call, the resident presses  to unlock the door for visitors. After unlocking for 5s the call will be automatically end and return to the main interface .


5、 During the call, residents can press  to adjust the brightness, contrast, and saturation of the video page.

6、 Residents press  to end the call.

7、 During the call, resident can press  to take a snapshot of the visitor.

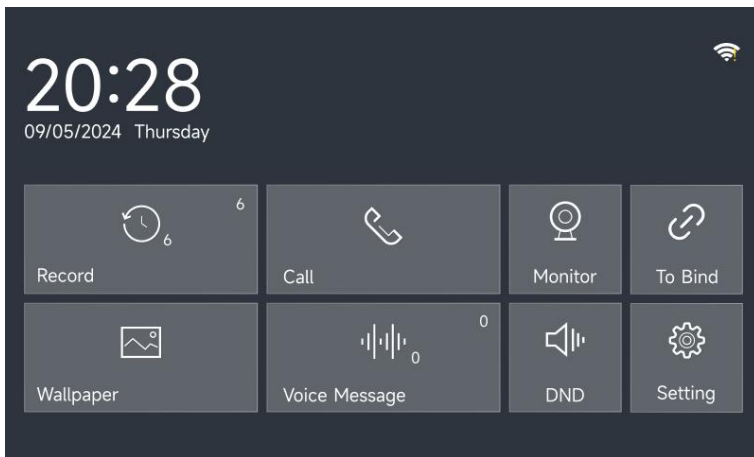
Notice:

(1) By default, the system automatically captures a visitor photo in the first 3s of a call. Residents can also capture photos manually, and the captured photos will be saved in the call log.

(2) When the outdoor station is configured with 2 locks , resident can click  to open lock 2 for the visitor.


(3) Supports cloud intercom with outdoor station and unlocking the door by app, after binding APP account.

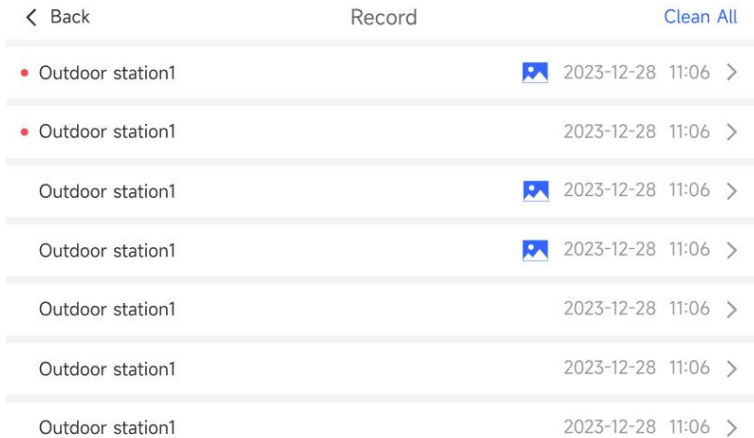
3.3 Function details



This indoor monitor mainly includes 8 functions: Record, Wallpaper, Call, Voice Message, Monitor, DND, Bind, and Setting. See the following detailed description.

3.3.1 Record

Record is used to store the call records of the indoor monitor. Click the  on the main interface to enter the call record interface, as shown below.



1. Clear: Click the “Clean All” to clear all call records.

2. Check: Users can check the recent 200 call records. Click a call record to view the snapshots or videos taken during the call. Click the Delete button to delete the call record.

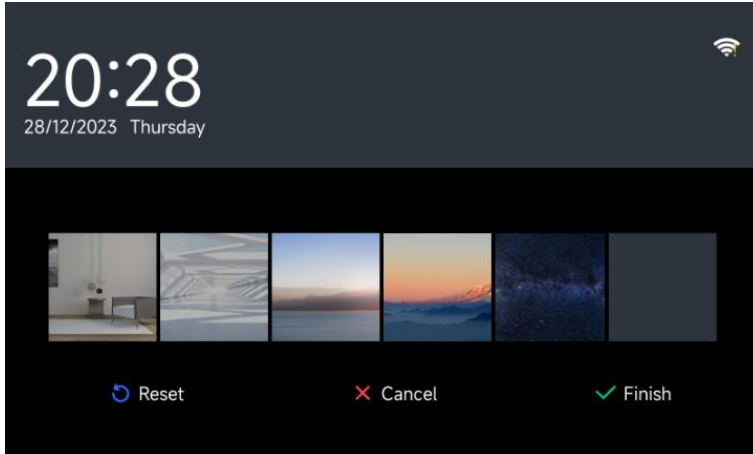


3.3.2 Wallpaper

Wallpaper is used to set the background wallpaper of the indoor monitor. Click



on the main page and the background selection interface will appear, as shown below.



1. Click to select the background image you want to set, and click “Finish” to set the main page to that background image.

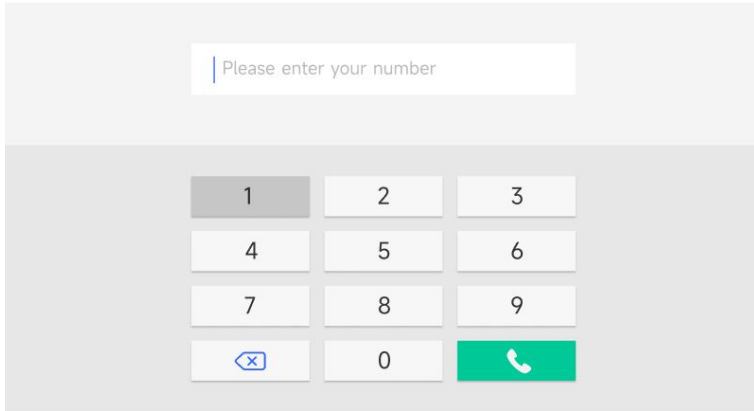
2. Reset: reset to the default background image; Cancel: cancel and return to the main interface.

3.3.3 Call


Call is used for dial-up calls of external Intercom and internal intercom. Click



on the main interface to enter the dial-up call interface, as shown below.



1. External Intercom

Enter the correct room number (1-200) and click  to call the indoor monitor of the corresponding room number.

2. Call Guard Unit

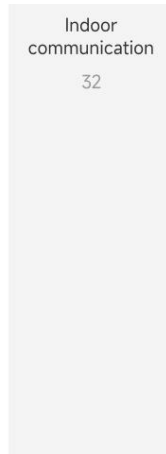
Enter 200 and click  to call the guard unit.


3. Internal Intercom

Click the Indoor Intercom icon to call the indoor unit, as shown below.




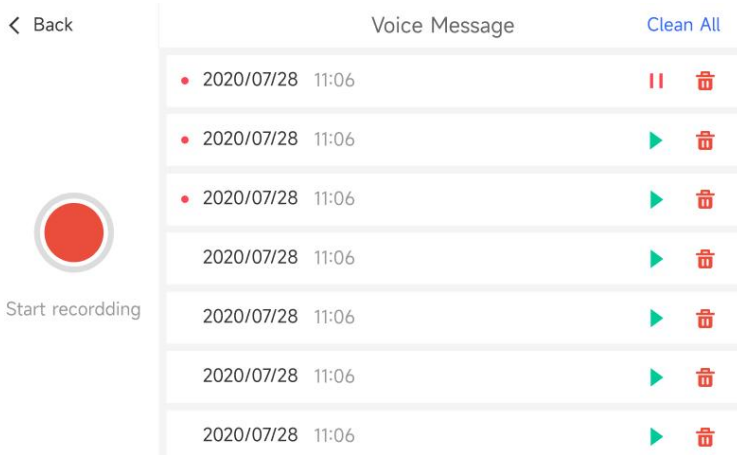
Calling...



Click  to hang up the call.

3.3.4 Voice Message

Voice Message is used for residents to record messages. Click  on the main interface to enter the voice message interface, as shown below.



1. Leave a message

Click the red recording button on the left to start recording → click the red recording button again to end, in this way to record and generate a voice message.

(Note: The voice recording time is 30s, and the recording will automatically end when it exceeds 30S)

2. Play

Click the voice message play button on the right to play the voice message.

3. Clear:

Click the “Clean All” button to clear the current voice list.

4. Delete:


Select the message record to be deleted, slide it to the left to display the Delete button, and click it to delete the record.

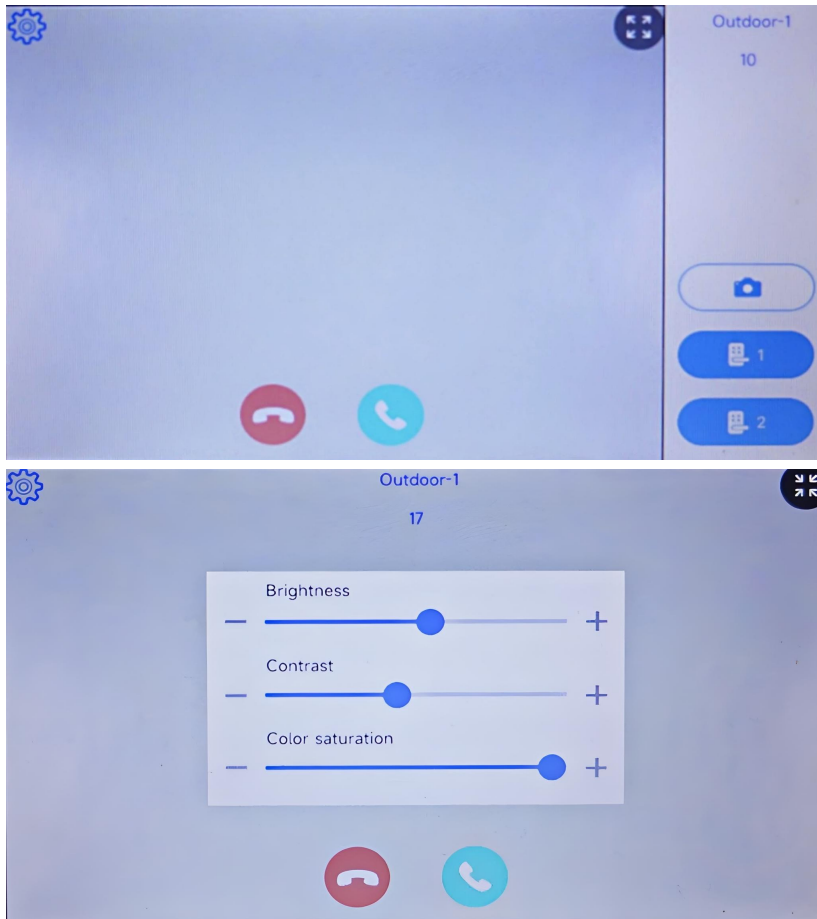
Notice:

Residents can record up to 30 voice messages. Once all 30 messages are left, the

earliest message will be overwritten.

3.3.5 Monitor

Click  on the main interface to enter the monitoring interface to monitor by outdoor station, as shown below.





1. Monitor and unlock

(1) Basic process: switch left and right to select monitoring device \Rightarrow Monitoring \Rightarrow Unlock \Rightarrow Monitoring ended.

(2) During the monitoring, the resident clicks  to unlocks the door for

visitors.

(3) During the monitoring, resident can click  to adjust the brightness, contrast, and saturation of the video page



(4) Click  to end monitoring.

2. Monitor and capture

(1) During monitoring, click , you can manually capture pictures.


3. Monitor calls

(1) Basic process: Monitoring \implies Call \implies Ending call

(2) During the monitoring of the outdoor station, residents can click  to talk to the visitor and press  the button to end the call.


Notice:

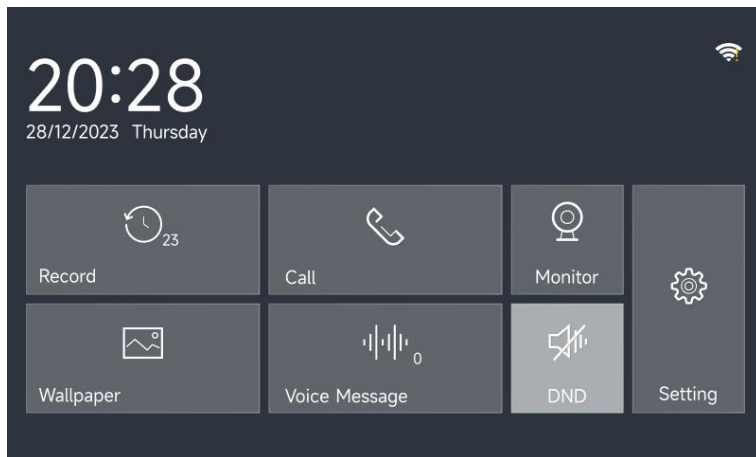
(1) The captured picture will be saved in the call log.

(2) When the outdoor station is configured with 2 locks, you can click  to open lock 2 for the visitor.

4. Supports remote monitoring the 2 wire system outdoor station while binding App account. When mobile phone APP remotely monitors the outdoor station, the master indoor monitor enters into the cloud intercom status and cannot be operated. Its slave indoor monitor enters the standby status and cannot monitor the outdoor station.



3.3.6 DND

Click  on the main interface to turn on the Do Not Disturb function , as shown below.




Short press to mute the monitor, long press for 3s to mute all indoor devices.

3.3.7 Bind

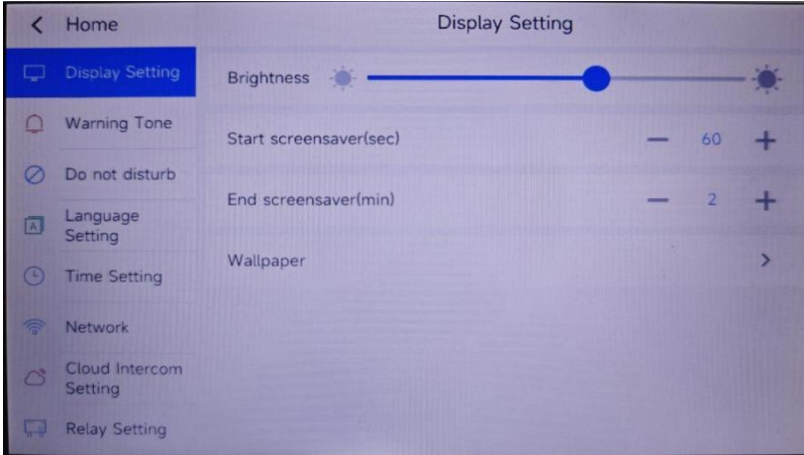
Click  to jump to the cloud intercom setting interface, where user can bind cloud intercom; after successful binding,  will be hidden on the main interface.


3.3.8 Setting

Click  on the main interface to enter the setting interface, user can set various parameters of the indoor station, such as Display Setting, Warning Tone, etc.

1. Display Setting

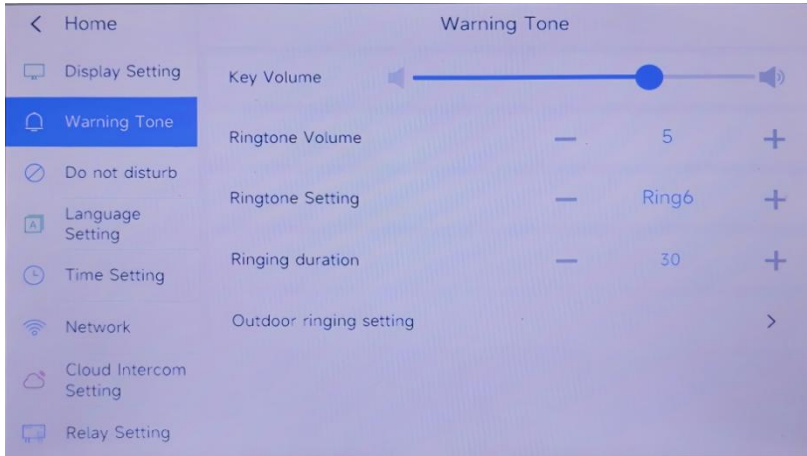
Click the "Display Setting" on the left menu bar to enter the Display Setting interface.



- (1) Brightness: Slide the slider to adjust the screen brightness.
- (2) Button brightness: Adjust button  backlight, default level 3, adjustable from 0 to 4, 0 to turn off button backlight.
- (3) Start screensaver(sec): Set the screen saver time, which can be set to 30s-255s.
- (4) End screensaver(min): Set the screen saver end time, which can be set from 1 to 10 minutes. After the screen saver time ends, the system enters the screen off standby status.
- (5) Wallpaper: Used to set the wallpaper for indoor station. When the relay function is enabled, the homepage wallpaper will switch to the relay control entrance, and wallpaper needs to be set here.

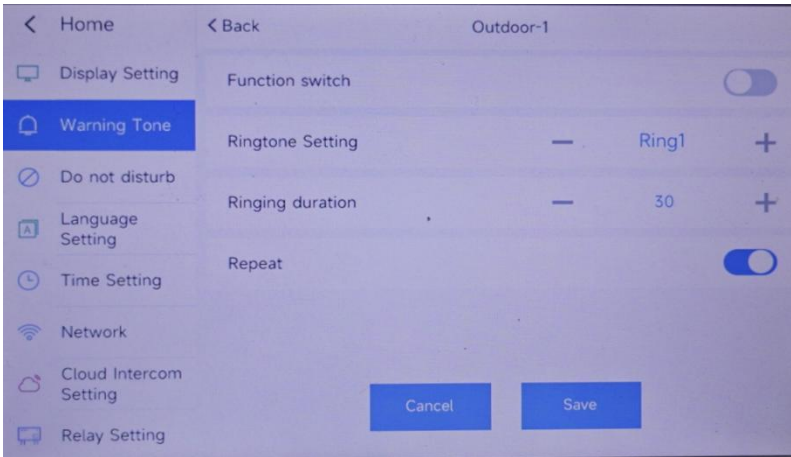
2. Warning Tone


Click the “Warning Tone” on the left menu bar to enter the Warning Tone interface.



- (1) Ringing volume: Use the slider to adjust the ringing volume.
- (2) Key volume: Slide the slider to adjust the key volume.
- (3) Key sound: Select the key sound type.
- (4) Ringtone: Select the ringtone type.
- (5) Ringing duration: The duration of the ringing sound.
- (6) Outdoor Ringing Setting: Setting the ringtone for the call.

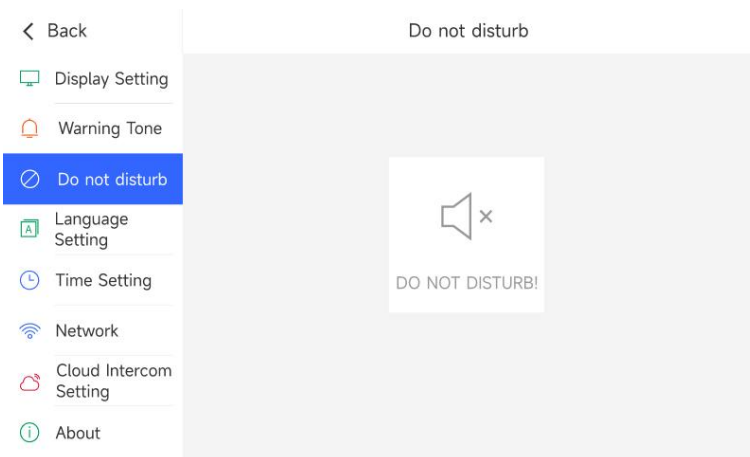
	Outdoor	Ringtone	Duration	Repeat	State	
Warning Tone	1	1	30	✓	✗	
Do not disturb	2	1	30	✓	✗	
Language Setting	3	1	30	✓	✗	
Time Setting	4	1	30	✓	✗	
Network	4	1	30	✓	✗	
Cloud Intercom Setting	5	1	30	✓	✗	
Relay Setting	6	1	30	✓	✗	



Click the 'Outdoor ringing setting' to enter the outdoor station settings form, user can individually set the ringtone for each indoor station. Click  to enter the corresponding indoor monitor 'Ringtone Setting', user can individually set the ringtone type, 'Ringing duration' to set the ringing duration time 'Repeat' to set whether to ring repeatedly, 'Function switch' to set whether to enable this setting function. After saving the function settings, the outdoor station call will use the set ringtone parameters.

3. Do not disturb

Click the 'Do not disturb' in the left menu bar to enter the Do not disturb interface.

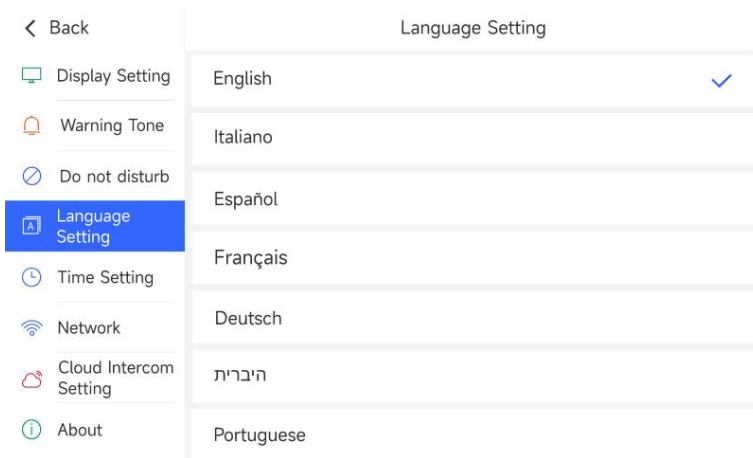


(1) Do not disturb: Click the 'Do not disturb' button to turn on the ringing mute function.

(2) When one house has multiple indoor monitors, long press the 'Do not disturb' icon to mute all indoor monitor simultaneously, short press to mute the current device.

4. Language Setting

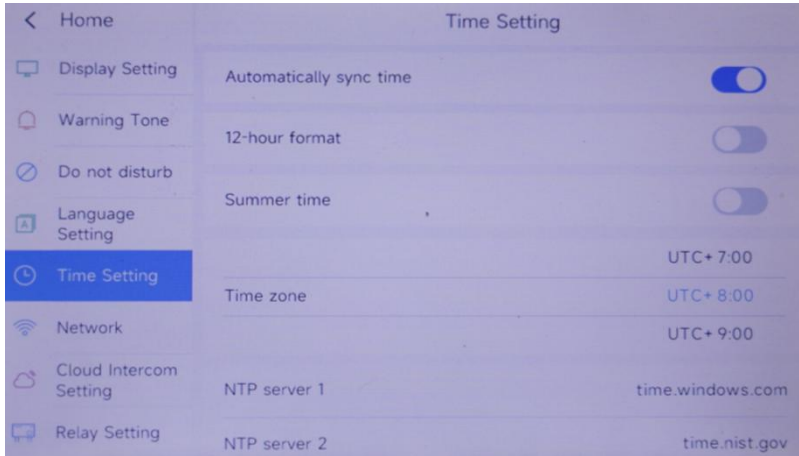
Click the "Language Setting" on the left menu bar to enter the Language Setting interface.



(1) Language Setting: User can choose English, Italian, Spanish, French, German, Hebrew, and Portuguese.

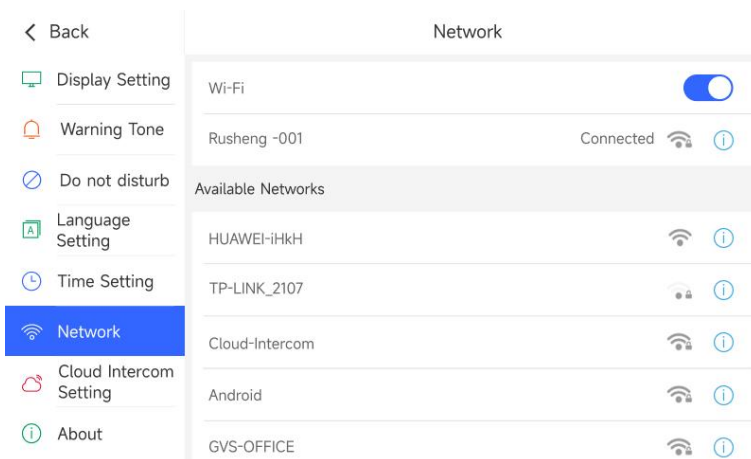
5. Time Setting

Click on the 'Time Setting' option in the left menu bar to enter the Time Setting interface.



6. Network

Click the "Network" on the left menu bar to enter the Network interface.



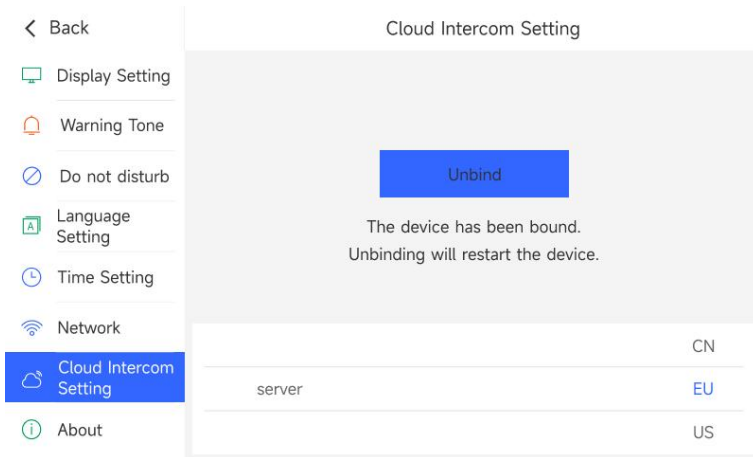
(1) Wi-Fi switch: User can choose to turn on/off WiFi.

(2) Available Networks: List of available WiFi networks. Select an available WiFi network to connect.

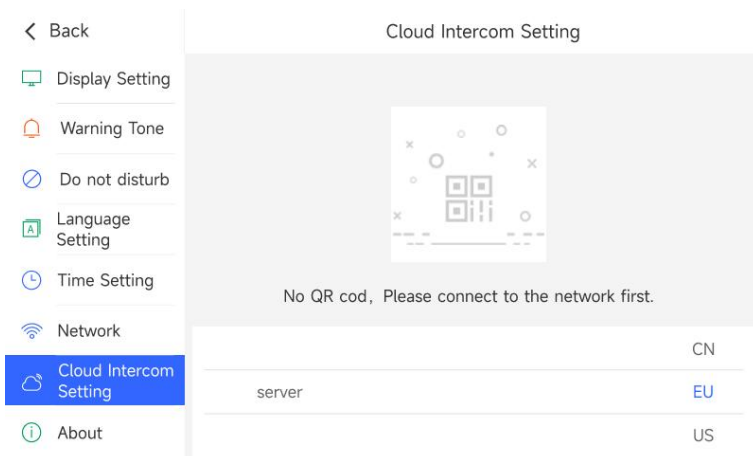
7. Cloud Intercom Setting

Cloud Intercom Setting is mainly used to bind and unbind the Cloud Intercom APP account. Click the 'Cloud Intercom Setting' in the left menu bar to enter the Cloud Intercom Setting interface.

If it has been bound, it will be displayed as follows:

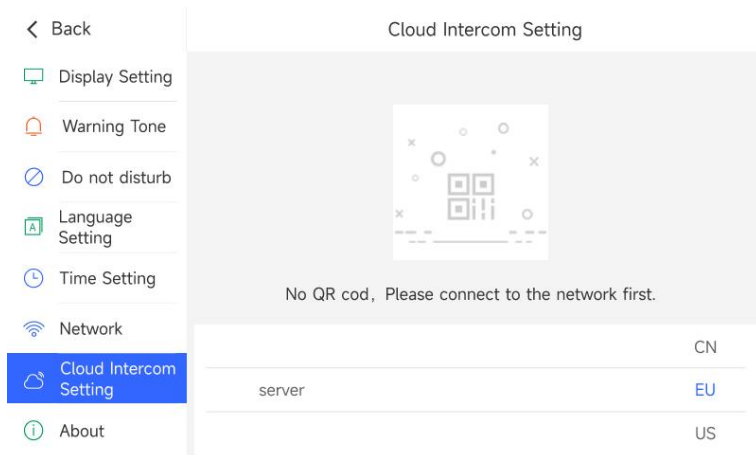


If not bound, the display is as follows:

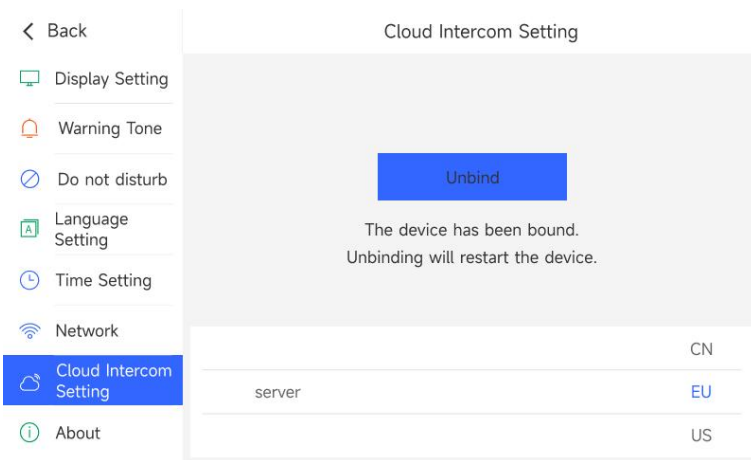


(1) Binding the APP: Enter the Cloud Intercom page, open Tuya App or Smart Life to scan the QR code on the interface.

If it is not bound, the QR code will be displayed. If it prompts "No QR code", please check the device network and whether the WIFI connection can access the external network. The indoor monitor QR code needs to get from the server. Before APP binding, user can select the server. After binding, user cannot select the server again. User must unbind it then can select it again.

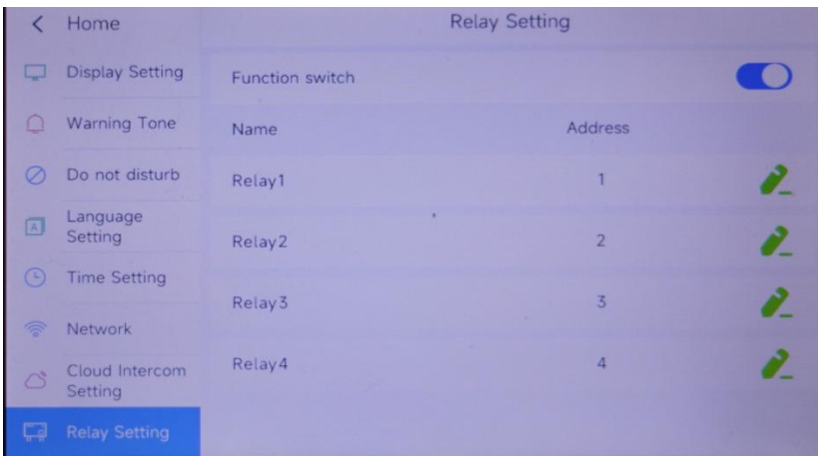


(2) Unbinding: Click Unbinding → A pop-up window will appear. Click the "Confirm" button to unbind the indoor monitor from the APP account and enter the unbound status. After unbinding, the indoor monitor will restart, and the APP will also unbind the indoor monitor.

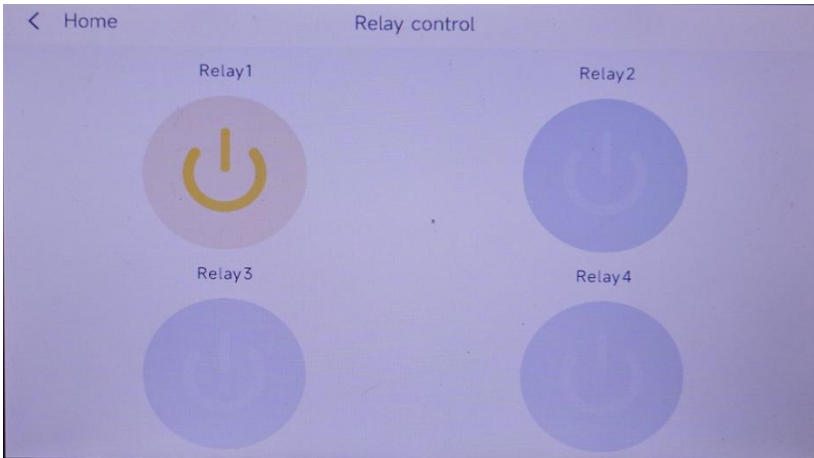


8、Relay setting

Click on the 'Relay Setting' option in the left menu bar to enter the Relay Setting interface.

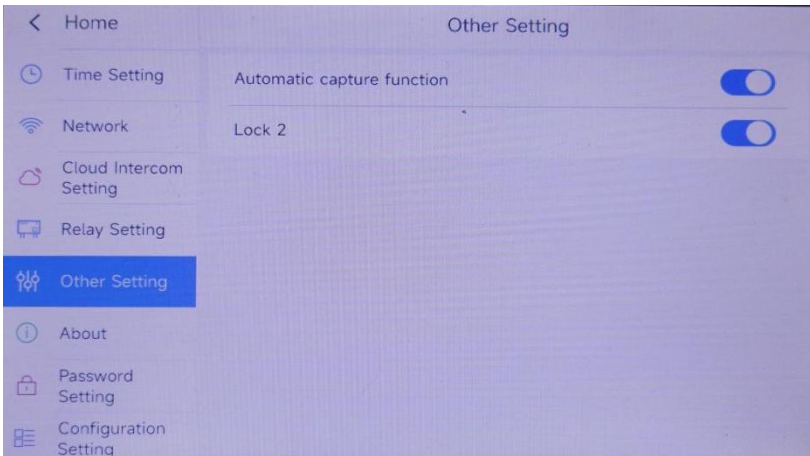


Click to set the relay name and relay number, which will be used with the T-RA module; When the relay function is enabled, the homepage Wallpaper will switch to the relay control entrance. Click on the homepage to enter the control page, and user can turn on and off the relay by click on the button .



9、 Other setting

Click on the 'Other setting option' in the left menu bar to enter the Other setting interface.



Other settings mainly include enabling 'Automatic call capture' function, which is enabled by default.

Enable the unlock Lock 2 function, which is enable by default. When the unlock Lock 2 function is disable, the unlock Lock 2 button will not appear on the intercom interface and cannot be used.

10. About

About is mainly used to check the device's Software Version, MCU Version, Cloud intercom, Room number, Gateway, MAC, Center Server and SIP Server. Click the "About" in the left menu bar to enter the About interface.

About	
Software Version:	T-IS16_MAIN_V1.0.0_20190718
MCU Version:	T-IS16_MCU_V1.0.0_20190718
Room Number	1
Cloud intercom state	Offline
IP	192.168.151.59
Subnet Mask	255.255.254.0
Gateway	192.168.150.11
DNS1	192.168.3.254
DNS2	192.168.2.68
MAC	44:29:1e:48:9B:0F
Cloud Intercom ID	tADQDH32dda354eqv9qe733
Device ID	2534546555462115645620

11. Password Setting

Password Setting is mainly used to reset the user password. Click the “Password Setting” in the left menu bar to enter the Password Setting interface.

The screenshot shows the 'Password Setting' interface. On the left is a vertical menu with options: Back, Do not disturb, Language Setting, Time Setting, Network, Cloud Intercom Setting, About, Password Setting (highlighted in blue), and Configuration Setting. The main area is titled 'Password Setting' and contains two input fields: 'New Password' and 'Confirmed Password'. Below these fields is a numeric keypad with buttons for digits 1-9, 0, a backspace button (x), and an 'OK' button.

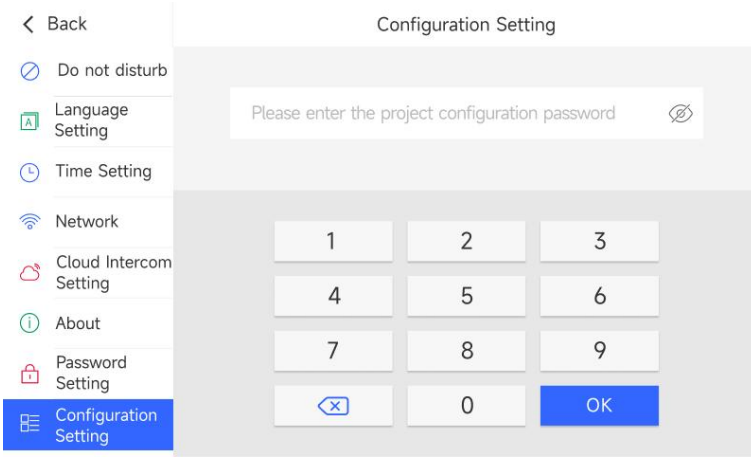
This is a duplicate of the screenshot above, showing the 'Password Setting' interface with the same menu and input fields.

Reset user password process:

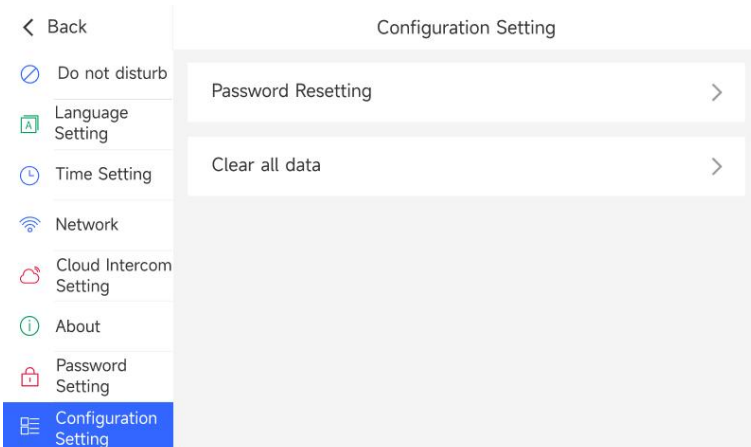
Enter the project configuration password and click the OK button. When the password is correct, jump to the user password setting interface, enter the new password and confirm the new password, and click the OK button.

12. Configuration Setting

'Configuration Setting' enter the project configuration password (801801) to enter the configuration setting, and enter the user password (Default user password 666666) to enter the user setting.



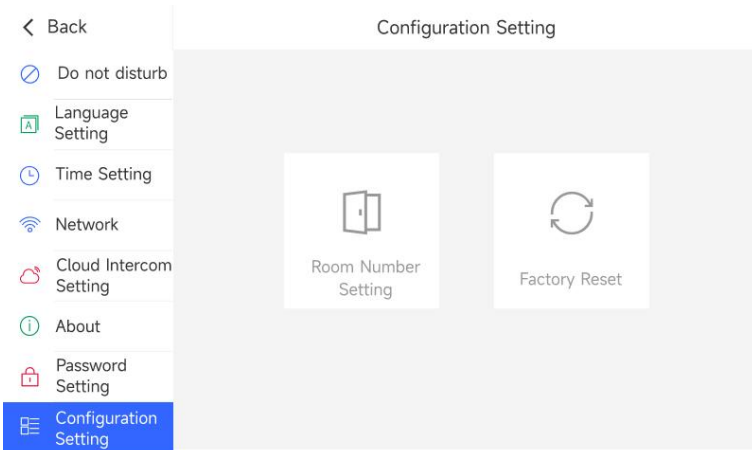
- Enter the project configuration password 801801 to enter the project settings interface.



(1) Password Resetting: Reset the user password to the initial user password 666666.

(2) Clear all data: Clear all data, including passwords, images, videos, etc.

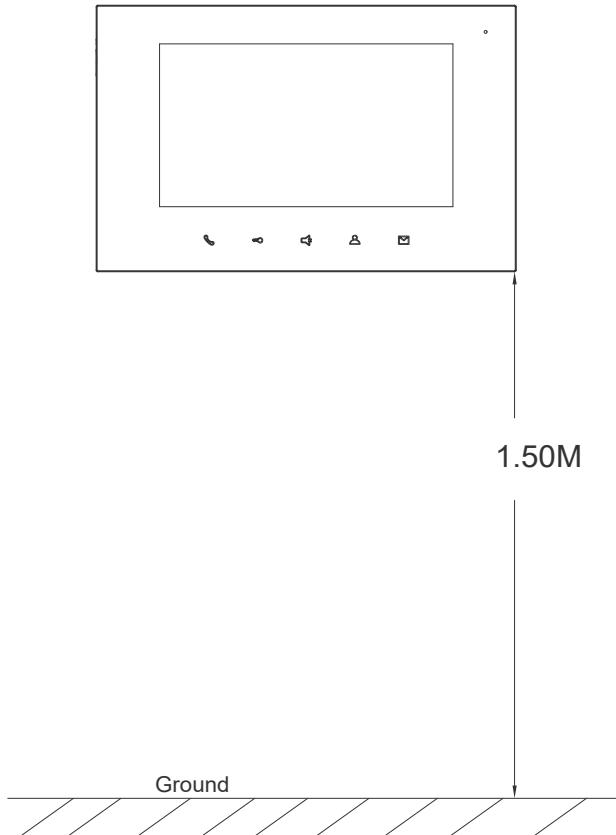
- Enter the user password (the initial password is 666666) to enter the user settings interface.



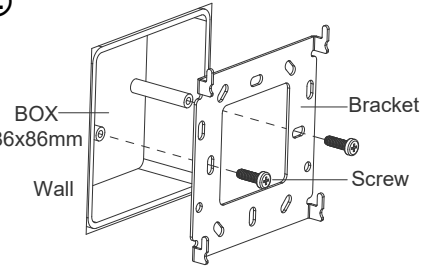
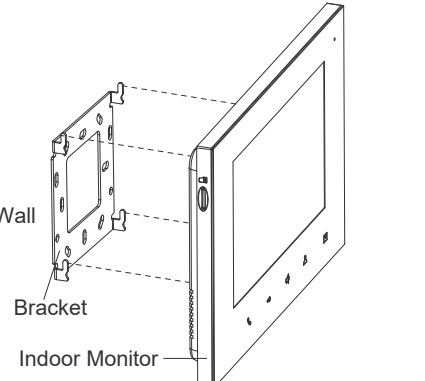
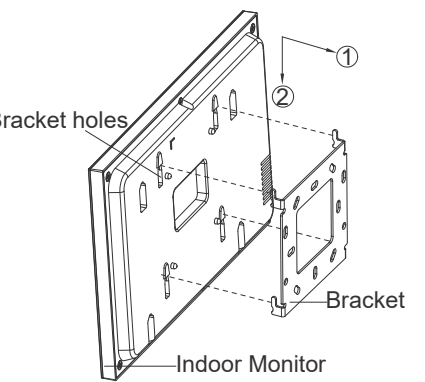
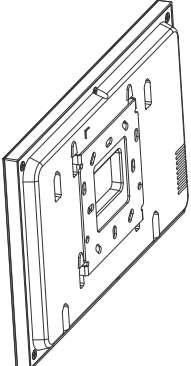
- (1) Room Number Setting: Set the room number, room number address range: 1~200.
- (2) Factory Reset: Restore factory settings. After restoration, all setting values are set to default values.

Chapter 4 Install

4.1 Installation height



4.2 Installation Instructions

<p>① ①</p>  <p>BOX 86x86mm</p> <p>Wall</p> <p>Bracket</p> <p>Screw</p>	<p>Step 1:</p> <p>Drive the screws on the bracket with the holes on the 86 box.</p> <p>Fasten the screws to fix the bracket.</p>
<p>②</p>  <p>Wall</p> <p>Bracket</p> <p>Indoor Monitor</p>	<p>Step 2:</p> <p>After finishing the wiring of the indoor station, aim the slot behind the indoor station to the hook of the bracket(②).</p> <p>After aiming correctly, move downward a little to make the indoor station well fastened on bracket.(③)</p> <p>Finish installation(④)</p>
<p>③</p>  <p>Bracket holes</p> <p>Indoor Monitor</p> <p>Bracket</p>	<p>④</p>  <p>Card in the bracket</p>

