

User Manual

Analog Video Intercom Kit for Villa

Model: VK07-C51L Kit & VK10-C51L Kit

Version: 1.0

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Important Issues

a. Test Before Installation

Unbox the package and verify that all accessories are included. Use the original test cable to connect both the outdoor station and indoor monitor, make sure that they function correctly. Once confirmed, proceed with installation.

Note: The wiring must be strictly in accordance with the connection diagram of the manual, otherwise the function not be used normally, or even damage the equipment; please refer to the purchased access control power supply manual for its use, as it is not included in this set.

b. Maintenance

1. Do not use this product with any equipment not produced by our company.
2. Users must follow the user manual strictly for installation and testing. If you have any questions, please contact our company for technical support.

I. Indoor Monitor

I. Product Parameters

Project	Specification
Display Screen	IPS 10/7-inch touch screen
Resolution	1024*600
Power Supply	DC15V 1.2A
Power	Standby: $\leq 3W$ Working: $\leq 10W$
Connected Indoor Monitor	RVV4
System Support	4 indoor monitors + 2 outdoor stations + 2 cctv
Intercom Communication	Support
Playback Review	Support
Motion Detection	Support
Dual Lock Control	Support
CCTV Anti-tamper Alarm	Support
Ringling Tones	6 / Customized ringtones
Language	Chinese, English, German, French, Russian, Spanish, Arabic, Portuguese
Monitoring Duration	30 seconds
Intercom Duration	60 seconds
Video Recording Duration	26 seconds (At home, Sleep mode) / 17 seconds (Leave home)
Supported Software	Tuya APP, ZSmart APP
Bind the App	Four (mobile phone terminals)
Extended Storage	Built-in 6Mb Storage Space + Expandable with a 128GB TF Card

II. System Information

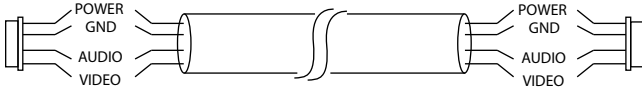
A. Precautions before Use

Regarding the use and selection of wires, please refer to the following information

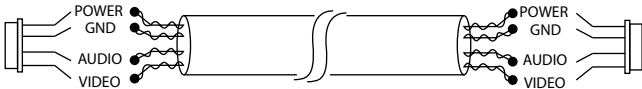
(cable quality affects video and voice transmission distance)

①.RVV 4 core wire

Distance \leq 30m (4*0.5mm²); Distance \leq 60m (4*1.0mm²)



②.Cat.5e/Cat.6e pure copper 8-core network cable (two cores of the network cable are used as one core, single core cannot be used normally)



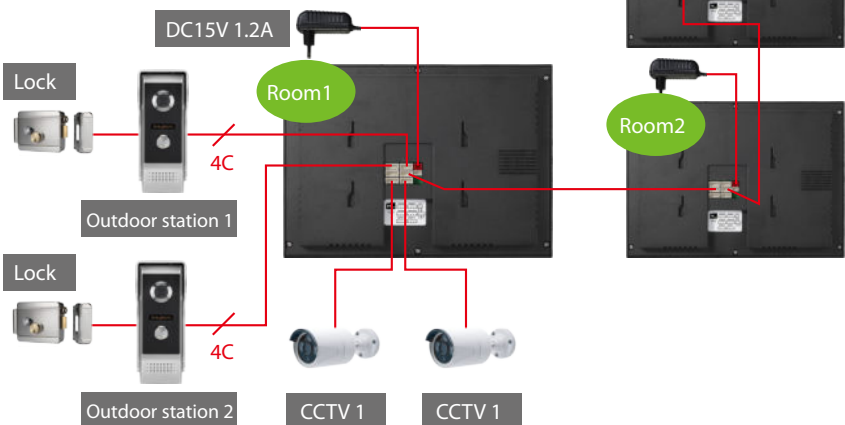
(Cat.5e/Cat.6e pure copper 8-core network cable distance \leq 60m)

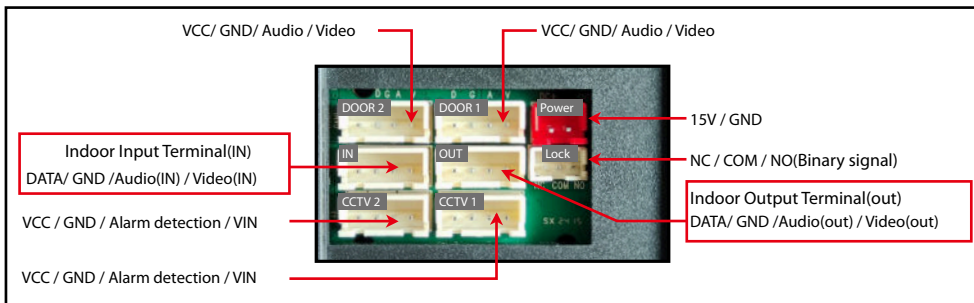
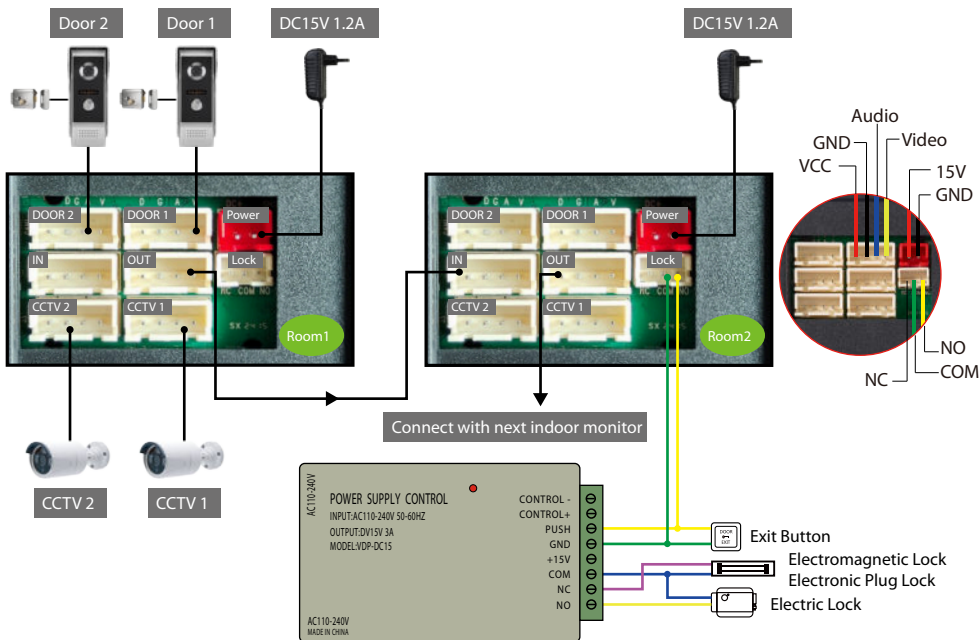
B. Wiring Diagram



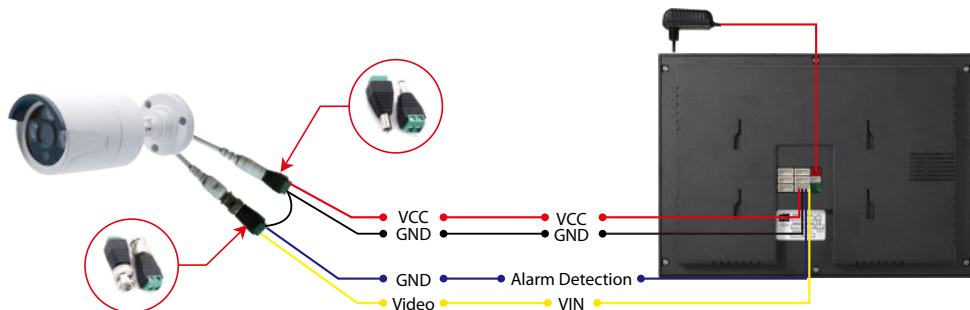
The first indoor monitor must be set as the main unit; other indoor monitors should be set as subunits, which should be arranged in ID order. This configuration can be performed in the "Others-Extension ID Setting" menu of the system.

- Main unit=Room 1
- Subunit=Room 02 to Room 04





C. CCTV Wiring Diagram



III. Quick Start Operation Guide

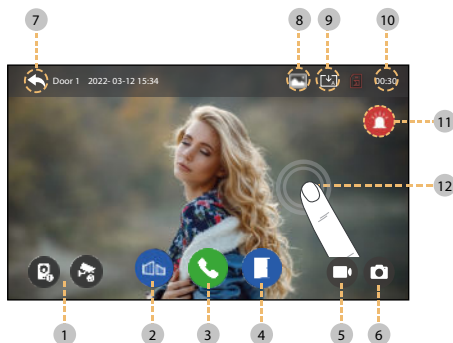
Main Interface Function Introduction



- ① Time and Date
- ② Monitor
- ③ CCTV
- ④ Intercom
- ⑤ Media
- ⑥ Scenario Mode
- ⑦ Setting
- ⑧ Weather Forecast
- ⑨ Wi-Fi Status
- ⑩ TF Card Status
- ⑪ Standby Mode

i. 【Monitor】

Function path: Main Interface→Monitor

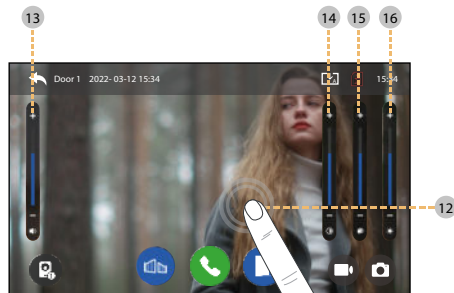


- ① Surveillance Interface Switch
- ② Courtyard Lock
- ③ Answer the Call
- ④ Room Lock
- ⑤ Video Recording
- ⑥ Take a Photo
- ⑦ Return to the Previous Level
- ⑧ Motion Detection Status
- ⑨ Recording Status
- ⑩ Countdown
- ⑪ Trigger Alarm
- ⑫ Adjust the Intercom Volume/Screen Color

⑫. Adjust the intercom volume/screen color

Open the adjustment menu by clicking on any monitored area of the screen.

Function path: Monitor→Tap anywhere on the screen→Adjust the value



- ⑬ Adjust the Intercom Volume
- ⑭ Adjust the Screen Contrast
- ⑮ Adjust the Screen Saturation
- ⑯ Adjust the Screen Brightness

ii. 【CCTV】

Function path: Main Interface→CCTV

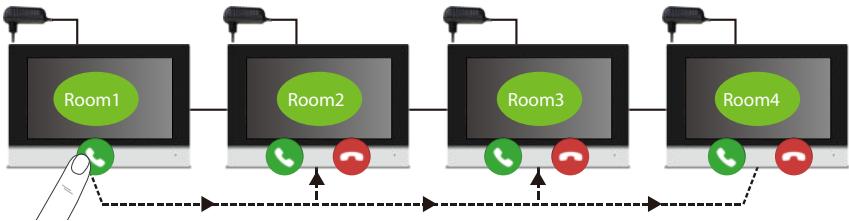


- ①.Switch between CCTV Interfaces
- ②.Video Recording
- ③.Take a Photo
- ④.Return to the Previous Level
- ⑤.Motion Detection Status
- ⑥.Recording Status
- ⑦.TF Card Status
- ⑧.Countdown
- ⑨.Adjust the Screen Color

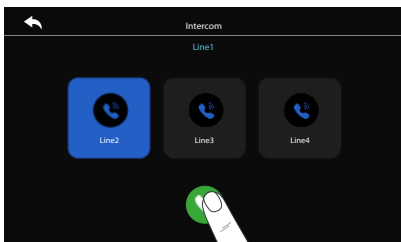
iii. 【Intercom】

When connecting multiple indoor monitors, you need to set internal line ID to enable intercom communication between the units (Main unit=Room1; Subunit=Room 02 to 04). The dialing duration is 30 seconds, and the conversation duration is 60 seconds.

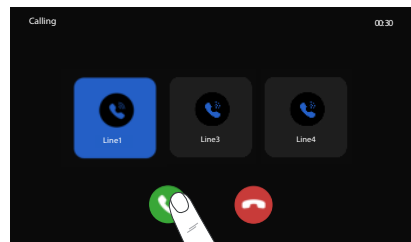
Setting path: ①Settings→②Others→③Extension ID setting→④Select ID



Function path: Main Interface→Intercom



- ①.Select the indoor monitor you need to make an internal call to→Click the green button to make the call.



- ②.Upon receiving an internal line call, you have the option to either answer or hang up the call.

iv. 【Media】

Function path: Main Interface→Media

The outdoor station automatically records video for a duration of 26 seconds, motion detection records video for 60 seconds, and CCTV records video for 60 seconds.

v. 【Scenario Mode】

The feature has a total of 3 icons:



At home



Leave home



Sleep mode

【At home】 : Normal operation mode: when a visitor calls the outdoor station, both the indoor monitor and the outdoor station will ring simultaneously.

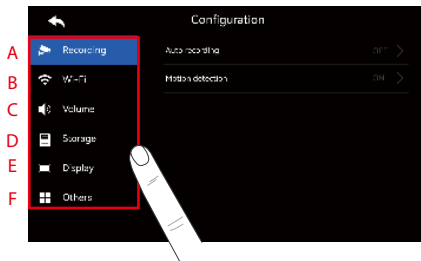
【Leave home】 : When a visitor calls the outdoor station, the outdoor station will play a voice prompt saying "Please leave a message after the tone", while the indoor monitor will be on mute and will not ring.

【Sleep mode】 : When a visitor calls the outdoor station, the outdoor station will ring, while the indoor monitor will be muted and will not ring.

vi. 【Setting Feature Introduction】

The settings list includes a total of 6 features, which are: **A. Recording**, **B. Wi-Fi**, **C. Volume**, **D. Storage**, **E. Display** and **F. Others**.

Please provide the specific functions for me to assist you further.



A. 【Recording】

【Auto Recording】

- You can choose between photo mode or video mode. Once this feature is enabled, the system will automatically record when a visitor calls the outdoor station;
- The indoor monitor system has an internal storage capacity of 6MB, which only supports photo mode. You can use the photo mode without a TF card. However, if you need to use video recording, you must insert a TF card.

【Motion Detection】

- Motion detection can only be executed on one connected device, you need to select the outdoor station 1/2, CCTV 1/2 for motion detection execution;
- Motion detection can store data as either photos or videos. The indoor monitor system comes with an internal storage capacity of 6MB, which is only sufficient for photo storage. You can use the photo mode without a TF card, but if you wish to record videos, you will need to insert a TF card into the system.

【Select of Camera】 : Select the device to trigger motion detection (Outdoor Station 1/2, CCTV 1/2), only one connected device can be executed at a time;

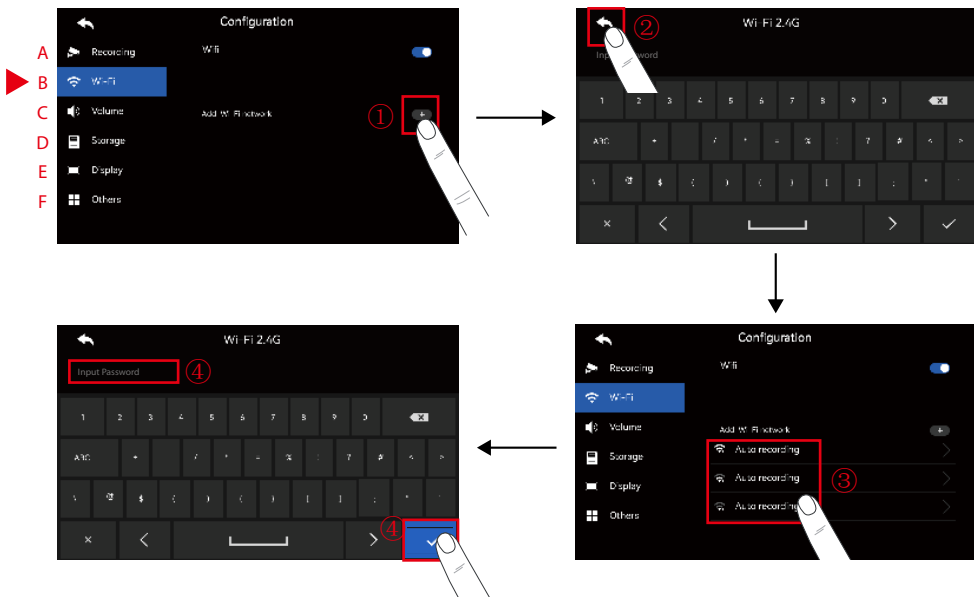
【Motion Timer】 : You can set the time to activate motion detection, and motion detection will only be triggered during this specified time period;

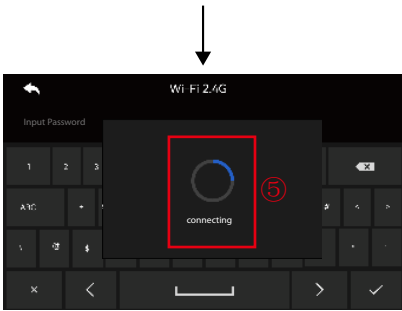
【LCD is on for motion detection】 : If this feature is not enabled, when motion detection is triggered, the system will record video or capture snapshots in the background, and the indoor monitor screen will not light up; however the feature is enabled, when motion detection is triggered, the indoor monitor screen will light up, displaying the real-time image at the entrance, and the system will record video or capture snapshots.

B. 【Wi-Fi】

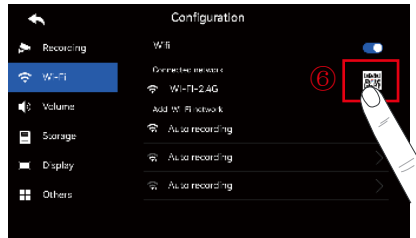
The indoor monitor needs to be connected to a functional Wi-Fi network (hereafter referred to as Wi-Fi). Follow the operational steps to complete the connection:

- ① Tap "Add Wi-Fi network" →
- ② A prompt will appear asking for the "Wi-Fi Account". At this point, press the back button, and the network list should refresh. →
- ③ Locate the desired Wi-Fi network and proceed to connect to it. →
- ④ Enter the correct password for the Wi-Fi network and tap "Connect". →
- ⑤ Wait for the connection, after the connection is completed, return to the main interface to check the network status. →
- ⑥ Then click on the Wi-Fi QR code.





After successfully connecting to the network, return to the main interface and check if the Wi-Fi icon is activated and lit up with "Wi-Fi" icon. Once confirmed, then go back and click on the wireless network to view the QR Code.

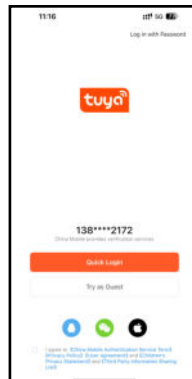


【 Download and Register the Tuya/ZSmart App 】

- a). For iOS system: Search "Tuya/ZSmart APP" in the "App Store" application and download;
 For Android system: Search "Tuya/ZSmart APP" in the "Google Play Store" application and download it.
- b). Alternatively scan the QR code as listed below by your phone, select the corresponding country, and download the app.
- c). After completing the account registration, log in to the app.



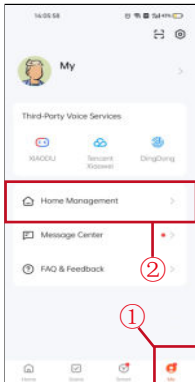
Scan QR code and Downloading the APP for iOS/Android Systems



01

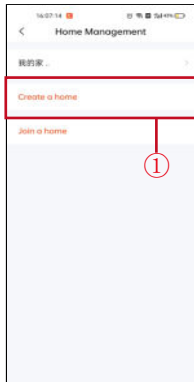
Users can choose to log in using their phone number, email, QQ account, or WeChat.

【Creating a Home Group Operation】



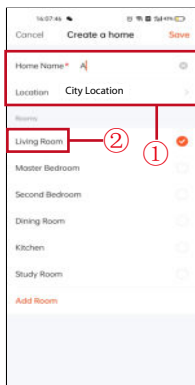
01

Open the APP and click on ① "Me", then select ② "Home Management".



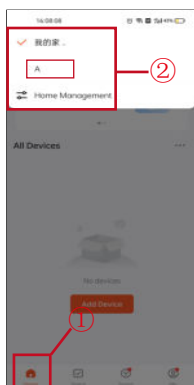
02

Click on ① "Create a home".



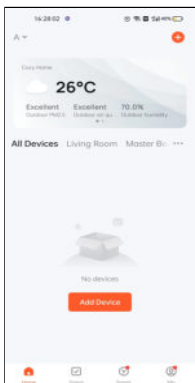
03

Enter ① "Home Name" and select a "City Location". ② Choose any room location and click "Save", then click "Finish".



04

Go back to the homepage, click on ① "Home" in the top left corner, and ② select the newly created "Home Name".

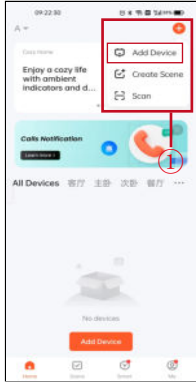


05

The home group is now created.

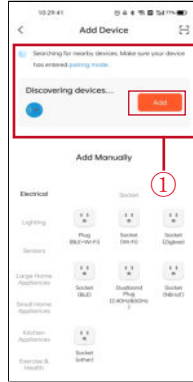
【Tuya/ZSmart App Pairing Operation】

A). Method One (Search for "Add Device")



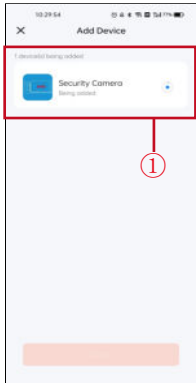
01

Click on "+" icon at the top right corner and select "Add Device".



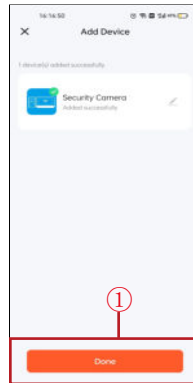
02

The system automatically searches for nearby devices that can be added, discovers the device, ① click to add.



03

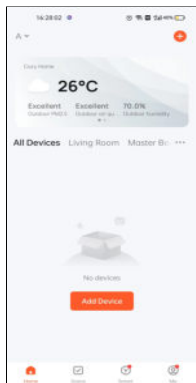
Connecting to the device.
Please wait...



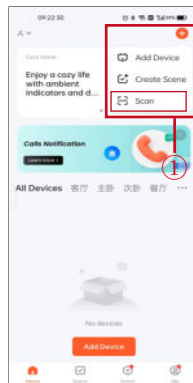
04

Once connected, click ① "Done" to complete the setup and automatically switch to the monitoring screen.

B). Method Two (Scan the "Add Device")



01



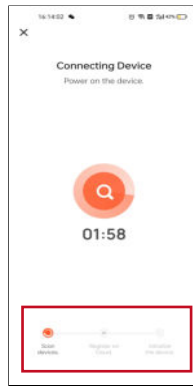
02

Click on "+" icon at the top right corner and then select "Scan".



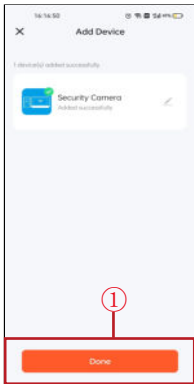
03

Scan the activated Tuya/ZSmart QR code on the indoor monitor using your mobile phone.



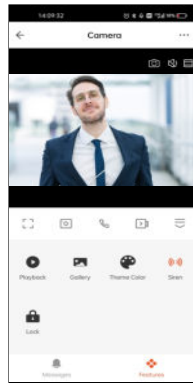
04

The phone will enter the network configuration mode, wait for the network configuration to complete.



05

Once connected, click ① "Done" to complete the setup and automatically switch to the monitoring screen.



06

C. 【Volume】

【Door1/2 Ring】 : You can set three different time periods to control the volume of the ringtone, the call ringtone and the duration of the ring time, respectively.

A). **Ring Mode**: It is divided into standard ringtones and custom ringtones.

a). Standard ringtone refers to the default ringtones in the indoor monitor.

b). Custom ringtones indicate that users can use MP3 music format as the call ringtone. (You can use a card reader to read the TF card, find the folder named **【Music】**, put the downloaded MP3 music files into this folder, exit the card reader, take out the TF card and insert it into the indoor monitor, and the indoor monitor will display the music ringtones that have been read).

【Lock Opening Prompt Tone】 : It indicates the unlocking sound prompted by the outdoor machine when opening or closing the courtyard lock.

D. 【Display】

【Standby Setting】 : This feature has two modes to choose from: LCD off (after 30sec) and Screen Saver.

A). Image of Background: It indicates three choices: a) , b) and c)

a). No Background Image: After locking the screen, it will turn black with no background image.

b). Basic Image: After locking the screen, the system's built-in landscape photos will be played.

c). SD Card Image(Digital Photo Frame Feature): After locking the screen, the system will play the designated photos stored on the TF card. (You can use a card reader to access the TF card, find the folder named **【Picture】** place .jpg format images with a size of 1024*600 into this folder, exit the card reader, and insert the TF card into the indoor monitor to activate the SD wallpaper standby feature).

Note:

If the motion detection feature is enabled, the indoor monitor will not activate the screen lock function after the screen turns off.

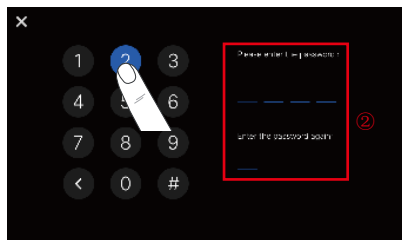
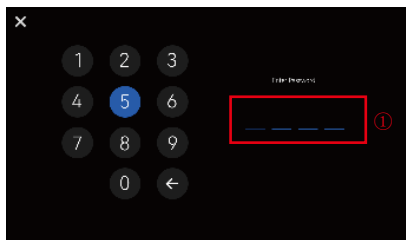
E. 【Others】

【Extension ID Setting】 : It indicates the ID number of the local device, with a ranging from 1 to 4; Room1 represents the main unit, and Room2 to 4 represent the sub-units. Each household can support up to 4 indoor monitors, and only the indoor monitor with the number 1 can perform network pairing.

【Gate Unlock Time】 : It refers to controlling the duration for unlocking the lock connected to the outdoor station, with a range of 1 to 60 seconds, and the default setting is 1 second.

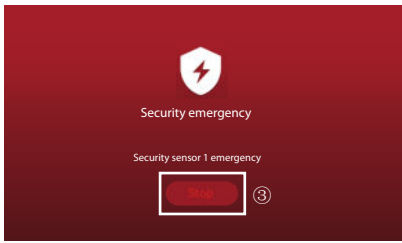
【Door Unlock Time】 : It refers to controlling the time for unlocking the lock connected to the indoor monitor, with a range of 1 to 60 seconds, and the default duration is 5 seconds.

【Modify Password】 : It is used for CCTV security monitoring setting. When the security alarm is triggered, you need to enter a password to disarm the alarm. The initial password is 1234 (this can be changed, but after a factory reset,the setting password will revert to the default).

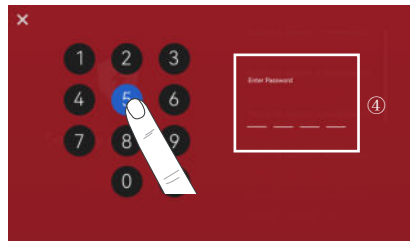


①.Enter the initial password (old password) 1234.

②.Change the 4-digit security password.

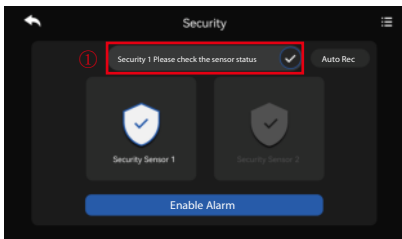


③. When the alarm function is activated, if the CCTV is removed, the indoor monitor will trigger the alarm function.

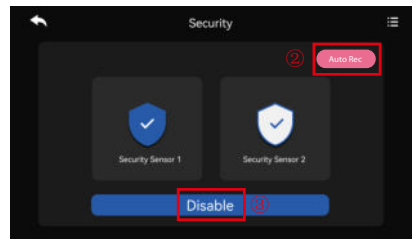


④. To disarm the alarm, you need to reconnect the CCTV and then enter the **【Security Password】**.

【Security Setting】 : When the indoor monitor is connected to the CCTV system and the alarm function is activated, unplugging the CCTV will trigger the alarm. To deactivate the alarm, reconnect the CCTV and enter the **【Security Password】**. You can configure an automatic recording feature, but it must be enabled before activating the alarm. Recorded video files will be saved in the designated folder.



①. When the message "Please check the sensor status" appears, you should verify that the the CCTV wiring is properly connected.



②. You need to activate the automatic recording function first; ③. Then enable the alarm function.

【System Time】 : The time is displayed in a 24-hour format. (After connecting to the Tuya/ZSmart app, the system will automatically synchronize and update to the local time zone.)

【Factory Default】 : Click "**Confirm**", and the indoor monitor will clear all the set options and revert to the default settings.

【Weather Forecast】 : This feature needs to be connected to the Tuya/ZSmart app before it can be enabled.

【CCTV Manage】 : a). You can manually enter the information to connect to the CCTV of the corresponding brand.

b). When the CCTV and the indoor monitor are connected to the same network, you can directly click on the "+" sign to search for and register to add.

【Version】 : Display the current software version.

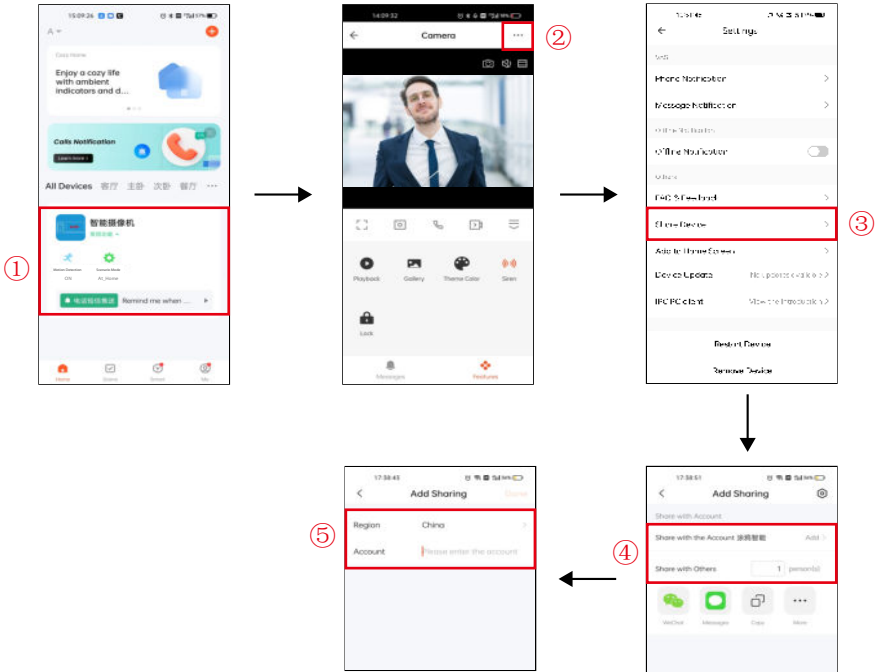
【UID】 : You can set the push delay for the Tuya/ZSmart app phone call. This means that when the outdoor station calls, the indoor monitor will ring immediately, and the push notification to the Tuya/ZSmart app will be delayed by 0 to 25 seconds..

IV. Sharing Home Group with Other Phone Users

There are two ways to share your device with other phone users:

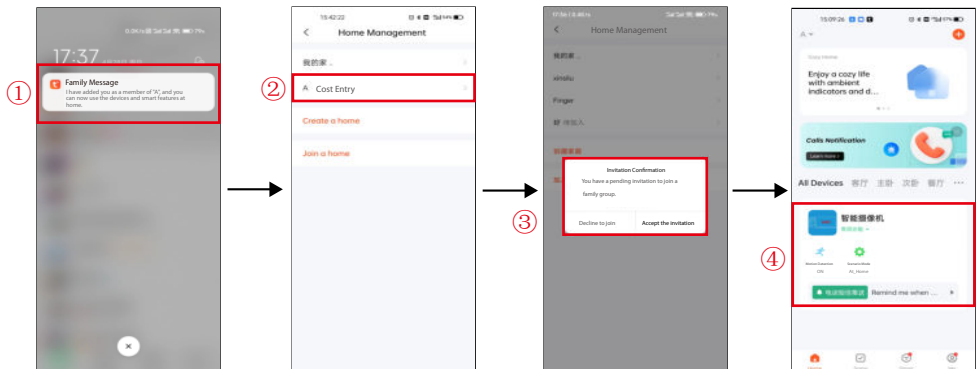
【Method 1】

Enter the App → ①Select the device you want to share, and click on monitoring mode → ②Click on the top right corner for settings → ③Share device → ④Add sharing → ⑤Enter the region/account.



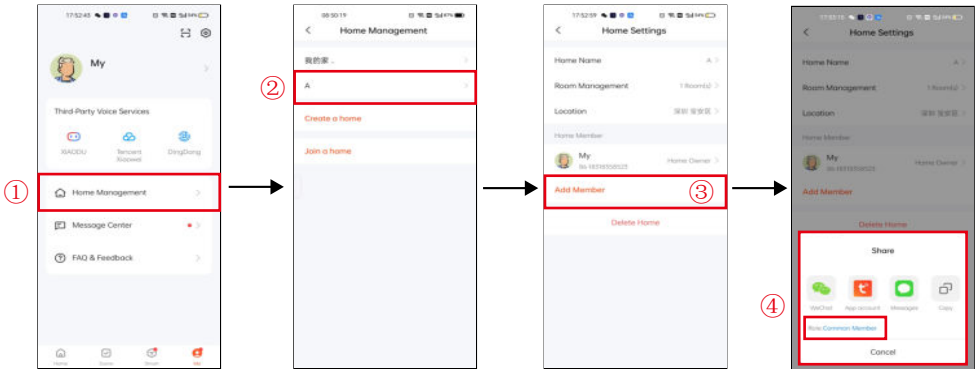
Operation on Phone "A"

①.User "A" receives a message reminder from Tuya/ZSmart → ②.Click to join the family → ③.Accept the invitation → ④.Successfully join the family group.



【Method 2】

Enter the App → ① Home Management → ② Click on the home group you created → ③ Add member → ④ Select invitation method to send invitation code to phone user "A".



Note:

You can assign the new family member one of the following roles: common member or family administrator.

Operation on Phone "A"

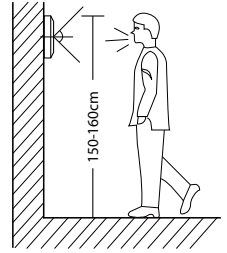
① Click on Home Management → ② Click on join a home → ③ Enter the invitation code → ④ Successfully join in.



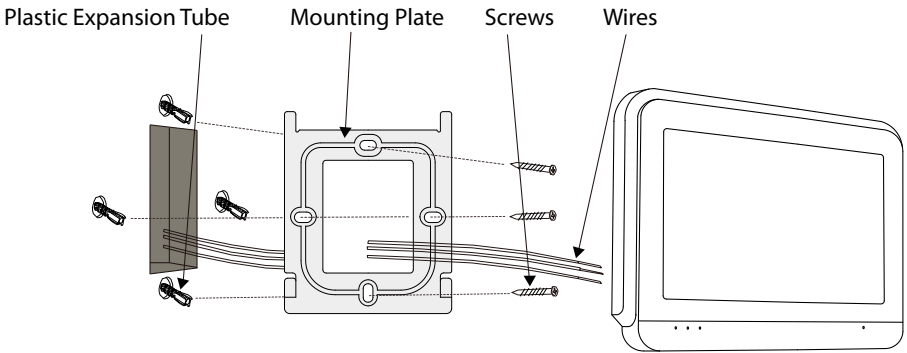
V. Indoor Unit Installation Instructions

Note:

- 1). During installation, please avoid placing the device near strong sources of radiation, such as TVs, computers, and VCRs.
- 2). Do not disassemble without authorization to avoid the risk of electric shock.
- 3). Do not drop, shake, or impact the device, as this may damage its components.
- 4). Choose the best installation location at a height of 150cm from eye level.
- 5). Turn off the power before installation.
- 6). Maintain a distance of atleast 60cm from AC power sources to avoid interference, and keep the device away from water, magnetic fields, and chemicals.



How to install the indoor monitor:



II. Outdoor Station

I. Product Structure

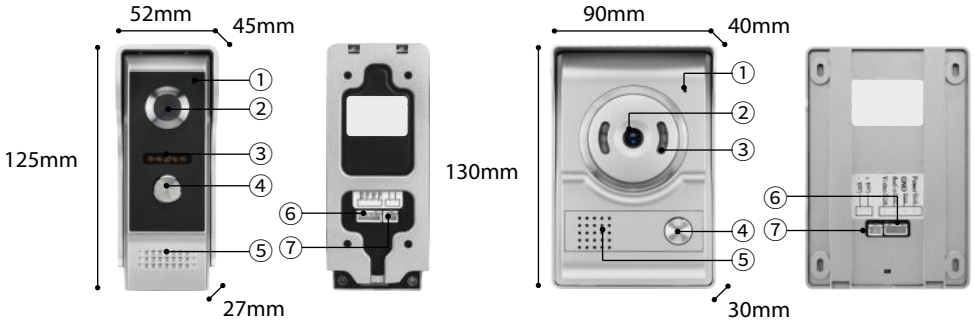


Figure 1

- ①.Microphone
- ②.Camera
- ③.Infrared night vision lamp
- ④.Call Button
- ⑤.Speaker
- ⑥.4P indoor monitor connector socket
- ⑦.2P port (Output 12V voltage signal)

II. Product Parameters

Project	Parameter
Camera	2.0MP
Night Vision	Night vision illumination
Power Supply	Indoor monitor power supply
Power	Standby: ≤2W Operating: ≤5W
Waterproof/Rainproof	Support
View Angle	120°
Night Vision Distance	0.2 to 3 M
Operating Temperature	-30°C to 60°C
Installation	Surface mount
Material	Aluminum alloy/ABS plastic

III. Wiring Diagram

A. Wiring Diagram for Electric Lock Control

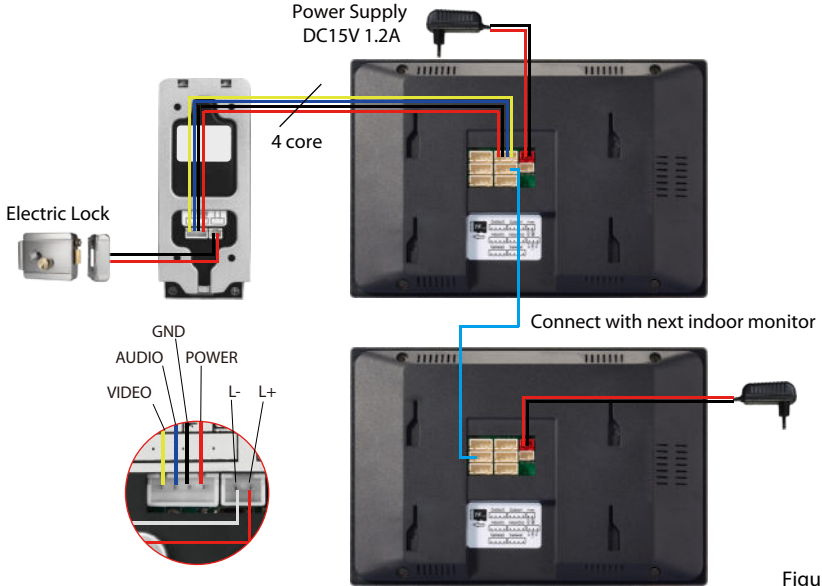


Figure 2

B. Access Control Power Supply Wiring Diagram

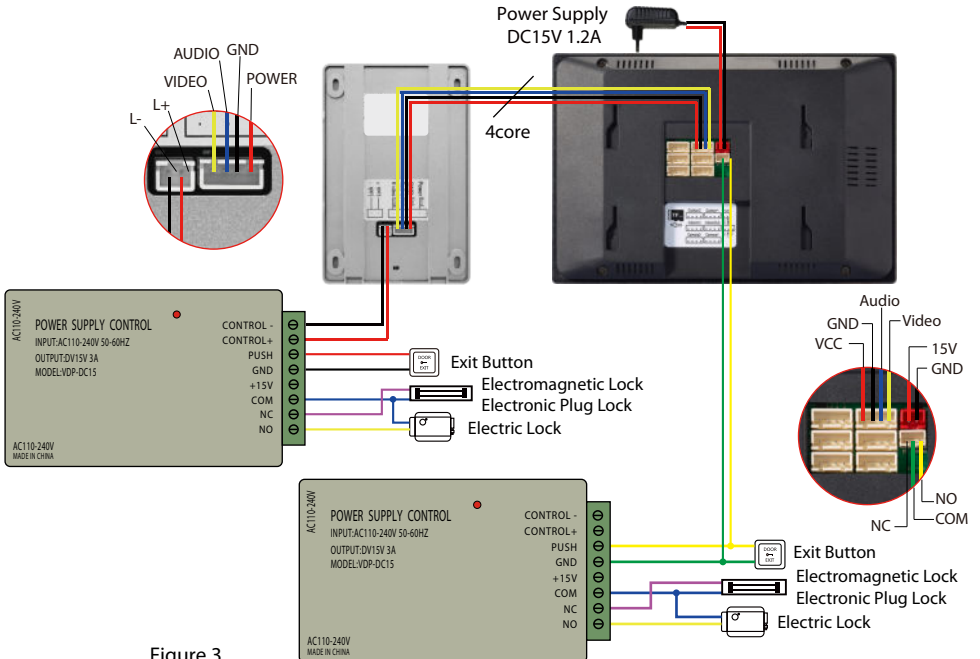
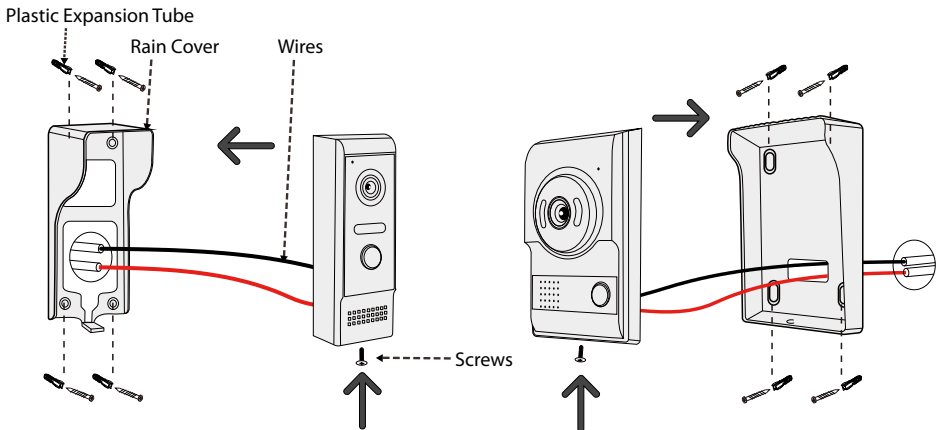


Figure 3

IV. Installation Instructions

How to install the outdoor station:



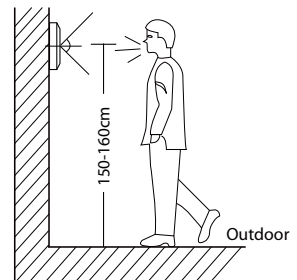
A. Installation & Location of Outdoor Station

First, determine the location and height for installing the outdoor station. The recommended height is 150 to 160 cm from the center of the camera to the ground.

B. Fix the Outdoor Station Rain Cover

As shown in the figure: Remove the rain cover; then open the screw package to take out the plastic expansion tubes and screws.

- Drill a hole with an approximate diameter of 6mm.
- Insert the plastic expansion tube into the hole and secure it in place.
- Secure the rain cover in place using screws.



C. Secure the Outdoor Station

- Remove the outdoor station and cables, then thread the cables through the rain cover of the outdoor station.
- Arrange the cables neatly and connect them properly to the outdoor station.
- Hang the outdoor station horizontally onto the rain cover that has already been secured.
- Secure the outdoor station in place with screws at the bottom.

Note:

- During installation, keep the device away from strong sources of radiation, such as TVs, computers, and VCRs.
- Do not disassemble without authorization to prevent the risk of electric shock.
- Do not drop, shake, or impact the device, as this may damage its components.
- Choose the best installation position with a distance of 150cm from the horizontal line of sight.
- Select the optimal installation position at a height of 150 cm from the horizontal line of sight. Turn off the power before installation.
- Maintain a distance of at least 60 cm from AC power sources to prevent interference, and keep the device away from water, magnetic fields, and chemicals.

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