

4G Tuya Smart Alarm System User Manual



Introduction

The intelligent anti-theft alarm system is based on the intelligent alarm host, and is equipped with passive infrared detectors, magnetic door detectors, wireless sirens and wireless remote controls to form an intelligent alarm system. This set of products can realize anti-theft alarm and scene linkage, through simple installation and setting can realize the function.

Features:

- 4G data connection, APP intelligent operation, no need to worry about the devices connected to the router.
- Wireless communication, no wiring required.
- Support 3 kinds of alarm ringtones, the alarm sound can reach 100dB
- Support 6 groups of alarm phone numbers and 3 groups of SMS phone numbers.
- Can provide 7 kinds of night light color settings, and the brightness of the night light can be adjusted.
- Support 99 detectors, each detector's defense zone is editable (APP only displays 50)

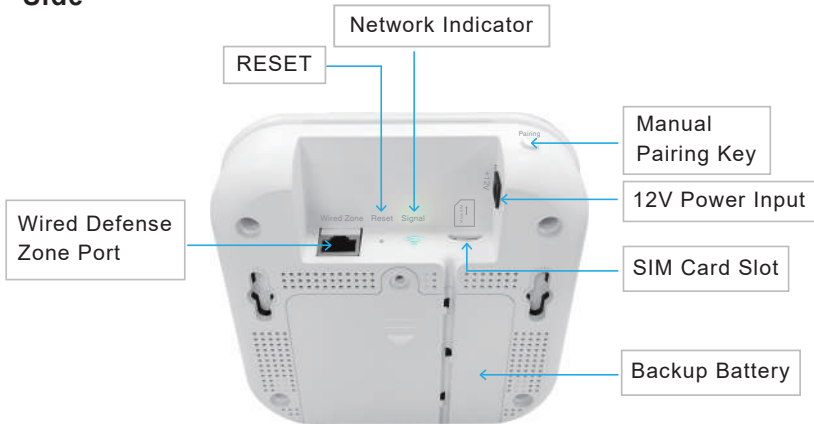
- Support 4 wired defense zones, editable zone type
- Low power consumption technology, the detector automatically enters the low power consumption state when it is not triggered.
- Accessories with low battery reminder push.
- Multi-selective defense zone attributes, support real-time, delayed, 24 hours, elderly defense zone, doorbell, at-home attributes.
- The host has a built-in backup battery, and there will be a push when the power is off.
- Large-capacity battery can last for 30 hours.
- Voice switching of 7 countries: Chinese, English, French, Italian, German, Spanish, Russian.
- Support device OTA upgrade

Schematic diagram of intelligent alarm host

Front Side



Side



Note:

- ① The backup battery is not plugged in at the factory and is powered on, so you need to open the back cover and plug it in.
- ② This product uses a Micro-SIM card, and the SIM card opens Cellular Data at the same time.



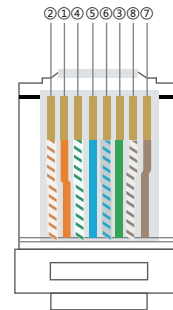
Instructions for using cellular data:

The first network configuration needs about 60KBytes.
Upload data every 2 minutes. It will need about 10MBytes a month.

Reset button: Press and hold the reset button for 5 seconds, release the button when you hear a beep, when the indicator light flashes quickly, it means waiting for network configuration.

Manual Pairing key: Short press the pairing key, the green light will rotate and light up, triggering the accessory, host will prompt that the pairing successfully.

Wired zone interface:



Orange line 1: 42 defense zone (wired defense zone) Orange and **white line 2:** GND (wired defense zone)

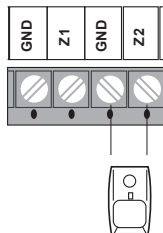
Blue line 7: 43 defense zone (wired defense zone) Green and **white line 4:** GND (wired defense zone)

Green line 3: 44 defense zone (wired defense zone) Blue and **white line 6:** GND (wired defense zone)

Brown line 7: 45 defense zone (wired defense zone) **Zongbai line 8:** GND (wired defense zone)

Wired defense zone wiring diagram:

The wired defense zone supports the detector normally open/normally closed, and the wired detector is in the normally open state. When it is triggered, the normally open state change to normally closed, and the host will alarm (the default defense zone type is the timely defense zone, which needs to be armed)



The indicator light has various status as follows:

Armed state: the panel indicator light is blue, and always on.

At home/stay-at-home status: The indicator light on the panel is blue, and the indicator lights up once every 2 seconds.

Disarmed state: the indicator light on the panel is sky blue, and the indicator light is always on.

Alarm status: the panel indicator light is red, and the indicator light flashes quickly.

Network LED:

※ If the SIM card is not inserted/the SIM card is not in good contact, the indicator light will be off, and the voice will not prompt the system to disarm.

※ Plug in the SIM card and turn on the power, the indicator light flashes quickly, and at the same time, the voice prompts the system to disarm and scan the QR code to start network configuration.

※ After the network configuration is successful, the indicator light is always on.

How to use:

Step 1: Download App

- Search “Smart Life” in the app store or Google store to download, Or scan the QR code to download.



- Register an account with your mobile phone number or email and log in after App download.

Step 2: 4G alarm host connecting to cloud server

- ① Make sure your mobile phone has connected to WiFi or Cellular Data available.
- ② Press and hold the reset button for 5 seconds, release the button when you hear a beep, when the indicator light flashes quickly, it means waiting for network configuration.
- ③ Open ‘SmartLife’App, click ‘+’ at right upper corner or ‘Add Device’, click “
A screenshot of the 'Add Device' screen in the Smart Life app. It shows a list of device categories like Electrical, Lighting, Sensors, etc., with various icons. A red arrow points to the '+' icon in the top right corner, which is used to add a new device.



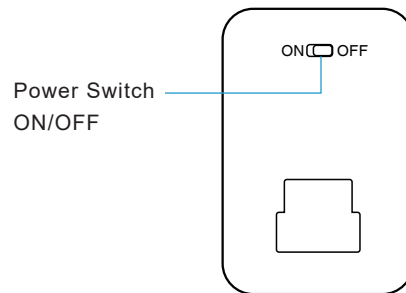
When you purchase our smart alarm set, the sensors and remote controllers have been added into the host, no need to add it again. If you need to add a new sensor or new device, please do it as following methods:

Method 1: Open “Smart Life”, enter the 4G alarm panel >>> accessories >>> “+” in the upper right corner >>> quickly add accessories, the green light will rotate in a circle, trigger the accessories → the alarm panel will prompt “pairing successful”. The sensor can be a magnetic sensor, a PIR sensor, a water leak detector, a gas detector, a RF433MHz smart socket, a wireless keyboard, etc.

Method 2: Manual pairing key, short press the manual pairing key on the side, the alarm panel will make a beep, the green light will rotate in a circle, trigger the accessories → the alarm panel will give a voice prompt of “pairing successful”, and the sensor can be Door sensor, PIR sensor, water leak detector, gas detector, a RF433MHz smart socket, wireless keyboard, etc.

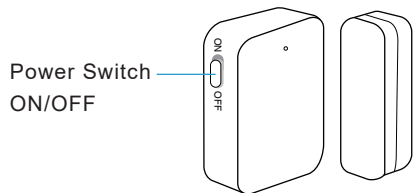
Add a PIR detector:

turn on the switch backside, the PIR indicator is always on, the alarm host prompts that the pairing is successful, the PIR is initialized successfully in about 1 minute, and the PIR is triggered once every 30 seconds by default. We can customized the trigger time according to your order need.



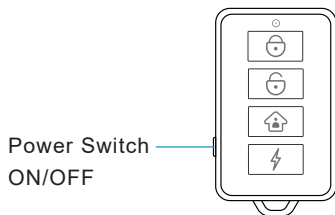
Add a door sensor:

Turn on the switch, separate the door sensor and magnetic, the indicator will be always ON, alarm host will prompt 'Pairing successful'.



Add a remote controller:

Turn on the switch, and press any key, the alarm host will prompt 'Pairing successful'.



Add external wireless siren:

enter the alarm host → settings → wireless control → switch it ON, which means that the wireless pairing is turned on, and the alarm host is ready to pair to the wireless external siren. (Please refer to the corresponding siren manual for pairing. For our external wireless siren, switch on the power, short press the backside button of the siren, the 4 indicator lights are always on in the pairing state, press the disarm button in App, the alarm host sends a wireless signal, there will be a beep if the pairing is successful, and then short press 6 times to exit the pairing, and the 4 indicators are off). (To prevent the same frequency causes the detector to be added to the siren, it is recommended to use the APP to arm and disarm and pair a wireless siren).

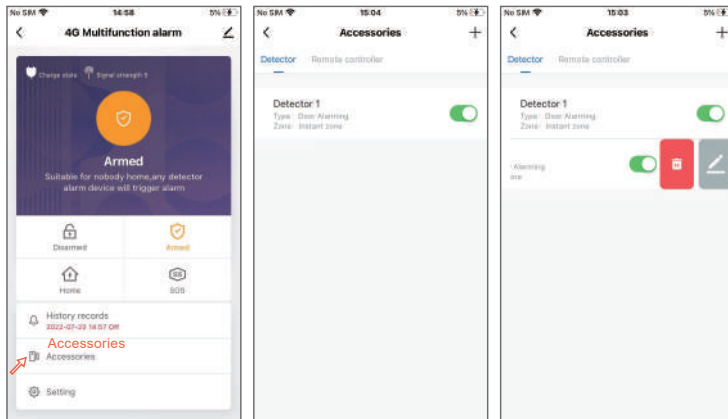
Defense zones programming setting:

After all detectors are paired, the default is the instant defense zone, which will be effective when armed, and the remote control is effective for 24 hours.

Bypass:

Click the gray switch on the right side of the detector to indicate that the detector is bypassed, and the green switch to indicate that the detector is enabled.

Valid for 24 hours: firstly click the detector name, the edit interface will come up, select the zone attribute as 24 hours, and click save.



Factory Default zone type

Defense zone	ARM	HOME ARM	Type	Siren
Zone 1	Effective	Invalid	Instant	ON
Zone 2	Effective	Invalid	Instant	ON
Zone 3	Effective	Effective	Instant	ON
Zone 4	Effective	Effective	Instant	ON
Zone 5	Effective	Effective	24H	ON
Zone 6	Effective	Effective	24H	ON
Zone 7	Effective	Invalid	Instant	ON
Zone 8-99	Effective	Invalid	Instant	ON
User Code		123456	Remote Control	App Operation
Alarm time		180s	Alarm	ON

Note: Because the APP can only display 50 detectors, 99 devices can actually be added. If more than 50pcs, APP can not display all, the defense zone type cannot be set. The 42, 43, 44, and 45 defense zones are shared by both four wired defense zones and the wireless defense zone.

Add Alarm phone number

When an accessory is triggered, the user can be notified of the current accessory alarm by the phone calling, and the alarm situation can be dealt with in time. The operation steps are as follows:

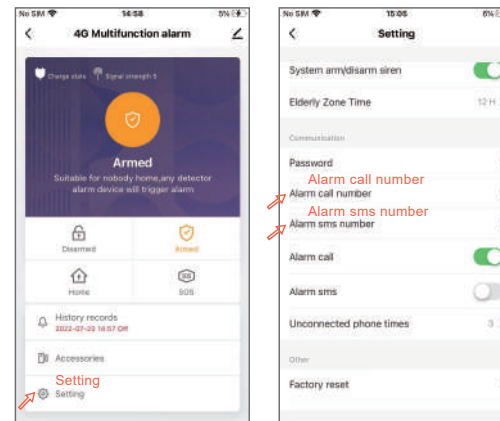
Enter smart life → 4G alarm host → settings → pull down to contact → alarm phone number → add phone number → input phone number → save.

Add alarm SMS number

When an accessory is triggered, the user can be notified of the current accessory alarm by sending a text message, and the alarm situation can be dealt with in time. The operation steps are the same as the alarm phone number.

Delete phone number:

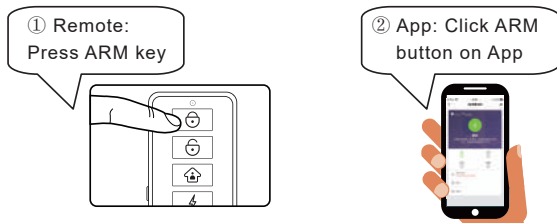
Click the red icon on the left, prompt to delete the phone number.



Daily operation

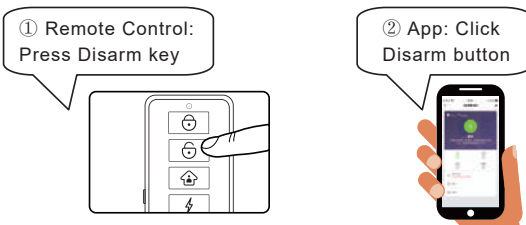
Arm

When the system is armed, the blue light of the host is always on, and the voice prompts: the system is armed and enters the alert state. If there is an intruder, the alarm will be activated. The following two methods can be used for arming:



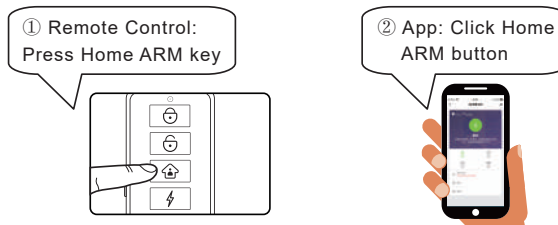
Disarm

When the system is disarmed, the host blue light is off, the sky blue light is always on, and the voice prompts: the system is disarmed, the alarm is released, and it is in the disarmed state. The following two methods can be used to disarm:



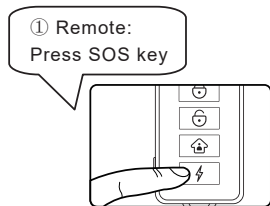
Home Arm

When the system is in the home arm, the blue light of the host lights up every 2 seconds, and a voice prompt: the system is armed and enters the home alert state, and the defense zone type is set to the home mode. If there is an intruder, the alarm will start. The following 2 methods can be operated at home Arming:



SOS for help

When happening something emergent, press the SOS button on the remote control or the button on the host, the host will start the alarm immediately, the red indicator light will flash, push notification of the alarm and make a call to the user, the following methods enable the emergency alarm:



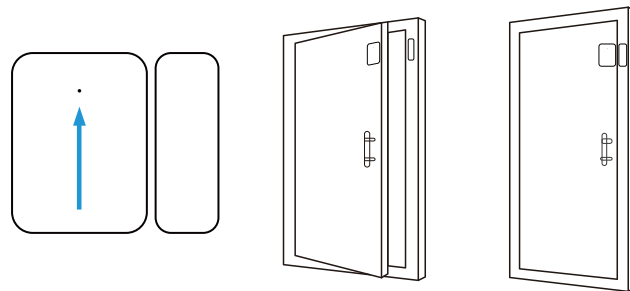
Factory Restore

Open the "Smart Life APP", click on the host to enter the setting page, press the button to restore the factory, it will prompt that the setting is successful, indicating that the factory settings have been restored, and the APP shows that the device has been removed.

Note: After restoring the factory settings, you need to re-scan the QR code under the bottom case of the host to configure the network, all sensors will be removed, and all settings will be restored to factory defaults.

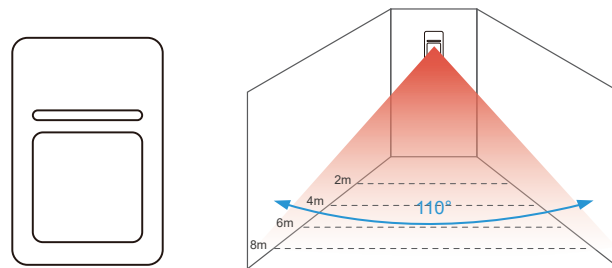
product installation

Door sensor installation instructions:



Note:

- ① The door contact and the magnet are aligned up and down, and the gap between the two should not be more than 1CM.
- ② After the installation is completed, open the door for testing, the door sensor light is on to prove that the installation is OK, and a signal will be emitted when it is opened.
- ③ When the door is opened or closed, the app will push low battery, and the battery should be replaced as soon as possible.
- ④ The transmission distance is ≤ 100 meters (in open air), please test after installation, and the distance of different obstacles will be different.
- ⑤ To replace the battery, push the cover up to open the cover and take out the battery.

Infrared installation instructions:**In order to reduce false alarms, the PIR motion sensor installation should pay attention to:**

- ① Do not face glass doors and windows directly.
- ② It is not advisable to face large objects that are easy to swing.
- ③ It is not suitable to face the hot and cold vents or cold and heat sources.

- ④ There should be no screens, furniture, large bonsai or other isolation objects within the detection range.
- ⑤ More than 2 infrared detectors cannot be installed in the same space, otherwise the simultaneous triggering of the alarm will cause interference.
- ⑥ When the door is opened or closed, the app will push low battery, replace the battery as soon as possible.
- ⑦ The detection distance is ≤ 8 meters, and the emission distance is ≤ 80 meters (without obstacles). Please test after installation, and the distance of different obstacles will be different.

Product parameters

Intelligent Alarm host

Power input: DC12V 1A power adapter

Built-in battery: 2000mah 3.7V

Battery standby: 30 hours

CAT1 Frequency band:

LTE-FDD: B1/B3/B5/B7/B8/B20/B28A

LTE-TDD: B38/40/41

GSM/GPRS: GSM900/DCS1800

Alarm phone number: up to 6 groups

Alarm SMS number: up to 3 groups

Wireless receiving frequency: 433M/868M ± 75 KHZ 330K EV1527 OOK (default 433M)

Wireless transmission frequency: 433M/315M/868M ± 75 KHZ 330K EV1527 OOK (default 433M)

Wireless distance: ≤ 80 M (open distance)

Working environment: temperature $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$, humidity $< 90\%$ RH

Size: 142*142*39mm

Remote control

Input voltage: 3V CR2450

Quiescent current: $\leq 5\mu\text{A}$

Alarm current: $\leq 15\text{mA}$

Wireless frequency: 433M $\pm 75\text{KHZ}$ 330K EV1527 OOK

Wireless distance: $\leq 80\text{M}$ (open distance)

Working environment: temperature $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$, humidity $< 80\% \text{ RH}$

Magnetic door detector

Input voltage: 3V CR2450

Quiescent current: $\leq 5\mu\text{A}$

Alarm current: $\leq 15\text{mA}$

Wireless frequency: 433M $\pm 75\text{KHZ}$ 330K EV1527 OOK

Wireless distance: $\leq 80\text{M}$ (open distance)

Working environment: temperature $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$, humidity $< 80\% \text{ RH}$

Infrared Detectors

Input voltage: 3V CR2450

Quiescent current: $\leq 25\mu\text{A}$

Alarm current: $\leq 20\text{mA}$

Wireless frequency: 433M $\pm 75\text{KHZ}$ 330K EV1527 OOK

Wireless distance: $\leq 80\text{M}$ (open distance)

Detection distance: 8M/110°

Working environment: temperature $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$, humidity $< 80\% \text{ RH}$

Maintenance

System Inspection:

The system need the periodic inspection to ensure the stable and safe work. We suggest the users inspect the system per three months and inspect the detectors per month.

Alarm Host Inspection :

- ① Check whether the host can arm or disarm normally.
- ② Check whether the host can call through the phone numbers when alarm occurs.
- ③ Check whether the host can receive the signals from detectors normally and the back-up battery work normally or not.

Detector Inspection:

- ① Trigger the detector by hand to check whether it can send the alarm signal successfully.
- ② Check the battery of each detector to see whether it is short of voltage.

Cautions:

- ① Do not disassemble, repair, transform the product privately, or it will cause fault or accident.
- ② Do not fall the product on the hard ground to avoid the fault or damage because of the strong crash.
- ③ Do not set “ 911” or any other security departments’ telephone numbers as the alarming phone numbers without any authorization.

Warranty Card

Guest Name: _____ Purchase Date: _____

Telephone: _____

Address: _____

Warranty Duration: _____

Date	Repair Record

Note to users: Buy this product, with 1-year warranty, and lifetime maintenance rights (man-made damage or irresistible damage, you need to pay for parts)