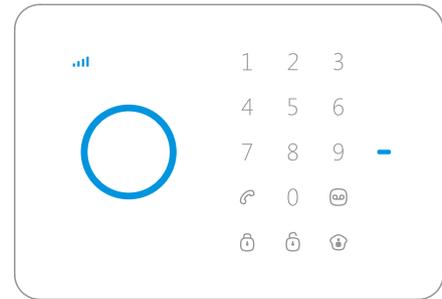




Security Alarm System



GSM/SMS/RFID  
Security Alarm System

## Features

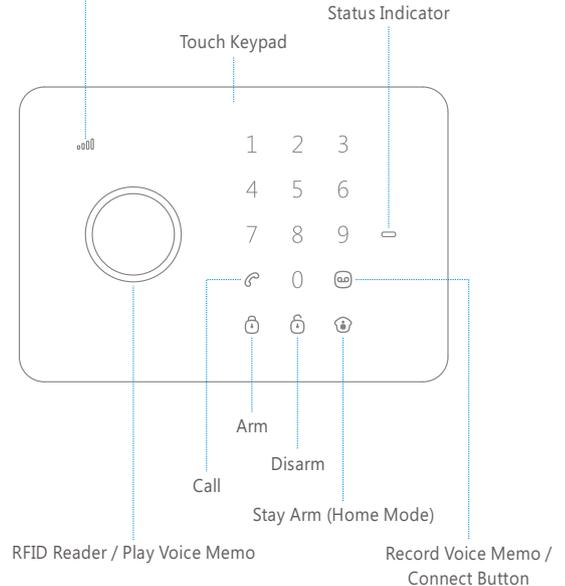
- ARM + Auror CPU
- Support 10 remote controls, 50 wireless sensors and 50 RFID tags
- Built-in 1,000,000 RF codes combination maintains high reliability
- Cellular communicator, simple operation
- Store 5 phone numbers, 1 speed-dial number, and 1 RFID SMS notification number
- Exit and entry delay
- SMS alert for low battery of two-way accessories
- Arm and disarm the system by SMS or free phone call
- Remote monitoring site via phone
- Built-in loud speaker for siren and two-way talking
- Built-in two pieces of 800mAh lithium batteries enable 5-hour standby
- SMS alerts for power failure, power recovery and low battery
- 850/900/1800/1900MHz GSM frequency, applicable for universal

## Control Panel Layout

GSM Signal Indicator

GSM network searching: Flashes once every second

GSM signal in normal: Flashes once every two seconds





### Arm

Press to arm the system.

### Home mode

Press to arm the system in home mode.

All the sensors in Normal Zone are armed except those in Home Mode Zone which are disarmed so that user can move freely at home.

### Disarm on keypad:

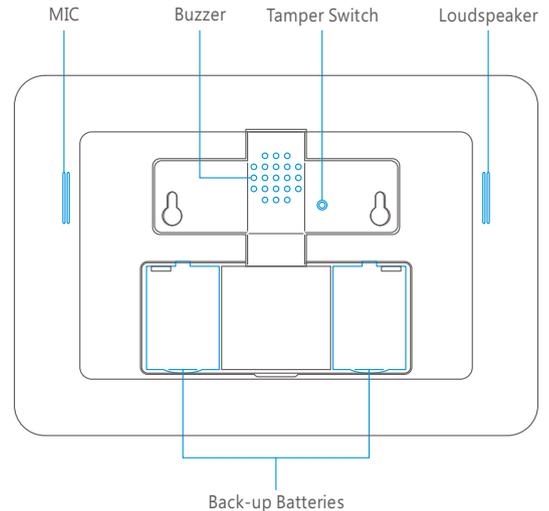
Input 4 digits password (default:1234) , and press to disarm the system after one beep.

If three beeps are heard, password is wrong and please input again.

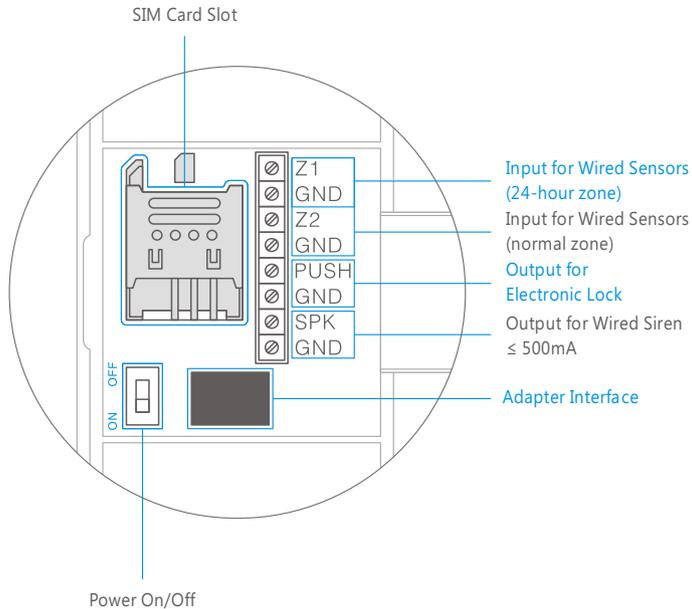
### Disarm by RFID tag:

Induce the RFID tag to the RFID Reader area to disarm the system.

## Bottom

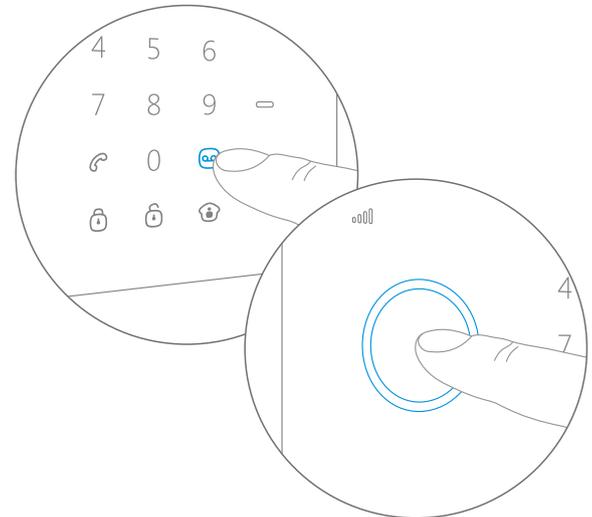


## Bottom



## Record / Play Voice Memo

Press  to record 10 seconds voice messages.  
Or send SMS to system for calling back to record the voice messages. The Play Voice Memo Button will be flashing in green to remind you. Users can touch the center of circle to listen to the voice memo. The LED indicator blacks out when the voice memo is played. Replay by touching it again.

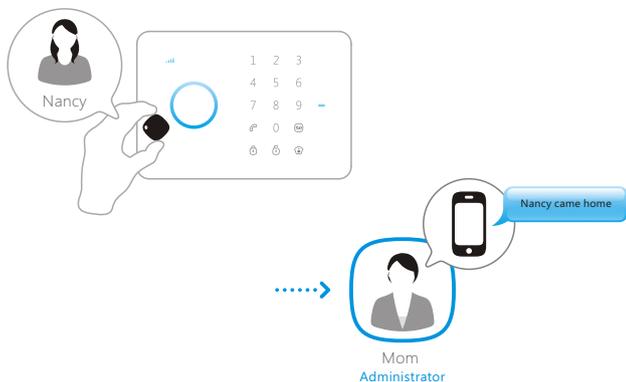


## RFID Tag

---

The RFID tag is for disarming the system and unlocking the electronic door lock (if connected).

You can rename the RFID tags and store a mobile phone number to send SMS notice when family members come home and disarm the system.



### Note!

Only after SMS No. is stored, and the RFID tags SMS notice is changed (4 RFID tags can be renamed), users can receive notice SMS once someone disarms the system by RFID tag.

## Speed Dial

---

Press Call Button , the panel auto dials to pre-stored phone number of the host, the LED blacks out after talk. User can also press Call Button  to end talk.

## Phone Call

---

Dial phone number and then press Call Button  to start talk, the LED blacks out after talk. User can also press Call Button  to end talk.

## Electronic Lock Output

---

When system is disarmed, the output signal opens electronic lock automatically.

## SMS Operation

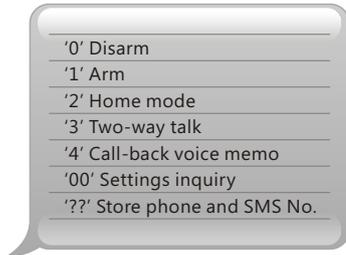
Insert a SIM card to the control panel,  
then send a text of "?" to the SIM card number,  
the operation guide message will be replied.

You can control the alarm system by  
following the guide message:

Send:



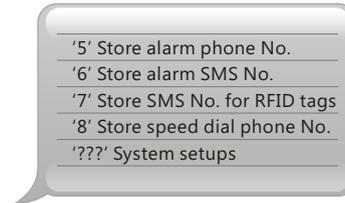
System replies first grade guide menu:



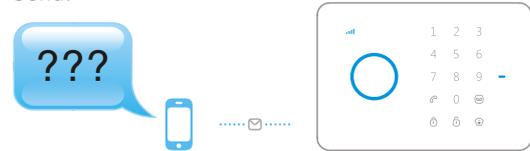
Send:



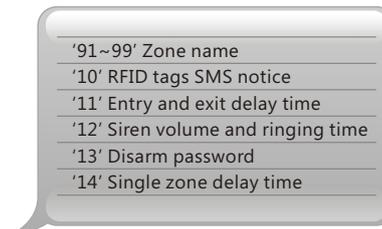
System replies second grade guide menu:



Send:



System replies third grade guide menu:

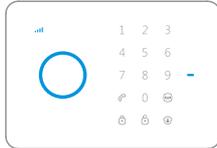


## Disarm

---

Send:

0



System disarmed.

## Arm

---

Send:

1



System armed.

## Stay Arm (Home Mode)

---

Send:

2



System in home mode.

## Two-Way Talk

---

Send:



Send '3' to the SIM card number, the alarm will call back.  
Pick up the phone and start two-way talk.

## Call-Back to Record Voice Memo

---

Send:

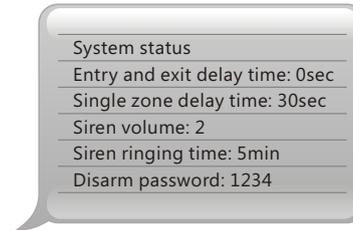


Send '4' to the SIM card number, the alarm will call back.  
Pick up the phone, and leave 10 seconds message.  
The panel will hang up after 10 seconds.

## Settings Inquiry

---

Send:



### Note:

Value of default setting will be changed once users finish programming.

## Store Alarm Phone No.

Send:



TEL:

- 1.
- 2.
- 3.
- 4.
- 5.

Forward > Edit

TEL:

1. 67890033
2. 67890022
3. 67890011
4. 67890000
- 5.

Store alarm phone No.  
successfully.

## Store Alarm SMS No.

Send:



SMS:

- 1.
- 2.
- 3.
- 4.
- 5.

Forward > Edit

SMS:

1. 67890033
2. 67890022
3. 67890011
4. 67890000
- 5.

Store alarm SMS No.  
successfully.

**Note:**  
Only after SMS No. is stored, and the  
RFID tags SMS notice is changed, users  
can receive notice SMS once someone  
disarms the system by RFID tag.

## Store SMS No. for RFID tags

Send:



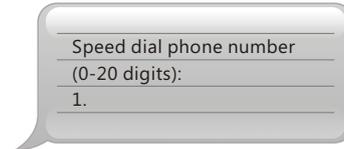
Forward > Edit



**Note:** Only after SMS No. is stored, and the RFID tags SMS notice is changed, users can receive notice SMS once someone disarms the system by RFID tag.

## Store Speed Dial Phone Number

Send:



Forward > Edit



## Change Zone Name

### Special Tips!

Users can change the 1<sup>st</sup>~ 9<sup>th</sup> zone names. The zone name should be 30 English characters at most for each line due to SMS character limit. Other alarm zones are fixed as Zone 10 alarm, Zone 11 alarm and so on.

Send: 91~99



Zone1 name: Zone 1 alarm

Forward > Edit

Zone1 name: Entrance door sensor

Change zone name successfully.

## SMS Alert for Low Battery of Accessories

(available for two-way accessories such as DWC-102 and PIR-900/910)

SMS will be sent for 1-9 zones with its zone name as "Zone name + low battery".

Bedroom PIR low battery.

SMS alert for 10~50 zones will be "Zone number + low battery".

Zone 10 low battery.

## SMS Alert for Tamper Alarm of Accessories

(available for two-way accessories such as DWC-102 and PIR-900/910)

SMS will be sent for 1-9 zones with its zone name as "Zone name + tamper alarm".

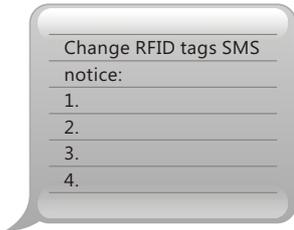
Bedroom PIR tamper alarm.

SMS alert for 10~50 zones will be "Zone number + tamper alarm".

Zone 10 tamper alarm.

## Change RFID Tags SMS Notice

Send:



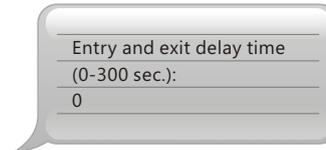
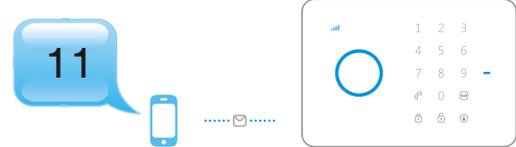
Forward > Edit



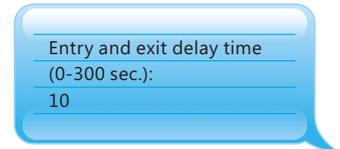
**Note:**  
Only after SMS No. is stored, and the RFID tags SMS notice is changed, users can receive notice SMS once someone disarms the system by RFID tag.

## Entry and Exit Delay Time

Send:



Forward > Edit



**Notice!**  
If users don't want to take remote control or RFID cards with them, this function can be used. Once the delay time is set, when you arm the system, one beep will be heard every second to remind the user to leave. The reminding rhythm will be speeded up in the last 15 seconds. Once the intruder is detected, the alarm will be delayed accordingly.

## Siren Volume and Ringing Time

Send:



Siren volume(0 Mute,  
1 Low, 2 High):  
2  
Siren ringing time(1-9min):  
5

Forward > Edit

Siren volume(0 Mute,  
1 Low, 2 High):  
1  
Siren ringing time(1-9min):  
3

Set siren volume and  
ringing time successfully.

## Disarm Password

Send:



Disarm password(4-6 digits):  
1234

Forward > Edit

Disarm password(4-6 digits):  
8888

Set disarm password  
successfully.

## Single Zone Delay Time

Send:



Single zone delay time (0-300 sec.):  
30

Forward > Edit

Single zone delay time (0-300 sec.):  
15

Set single zone delay time  
successfully.

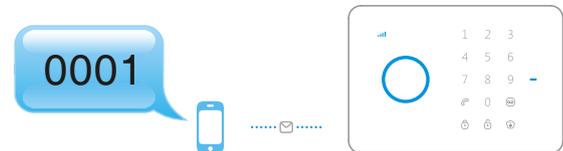
## Change System Language

Send: 0086 to change language to be Chinese



中文语言修改成功!

Send: 0001 to change language to be English



Set English successfully.

## Delete Wireless Accessories by SMS

---

Send:



Delete wireless accessories successfully.

Or press Tamper Switch 3 times within 3 seconds, accessories will be cleared after two beeps.

## Delete RFID Tags by SMS

---

Send:



Delete RFID tags successfully.

## Restore System to Default Setting by SMS

---

Send:



System has been restored to factory settings.

Or press Tamper Switch 5 times within 3 seconds, the system will be restored to factory settings after two beeps.

### Note:

After programming, only stored numbers can send SMS to restore the system.

## Arm & Disarm by Free Phone Call

---

### Arm

Call the control panel number, hang up when hearing the ring tone. The panel will call back. The user hangs up the phone directly to arm the system.

### Disarm

Call the control panel number, hold on until the panel hangs up the call. The panel will not call back. System is disarmed.

## Connect Wireless Accessories & RFID Tags

---

Input 4-6 digits password, press Connect Button , the LED indicator lights up, then trigger the accessory or RFID tag once within 15 seconds, the connection is successful after a beep.

Once two beeps are heard, the accessory has been connected before. The first connected accessory is in Zone 1, the second one in Zone 2, and so on.

## Connect Wireless Siren

---

The newly-added wireless siren can be used after connecting to the control panel.

### Operation:

Press the Connect Button of the wireless siren for 0.5 second, the Connect Button LED indicator lights on, and then press the Arm Button on the control panel, the siren will be connected after one beep is heard.

Testing: Press the Arm Button on the remote control, to make sure that the internal siren and wireless siren both beep once, the connection is successful. If not, the connection fails, please reconnect them.

Once the intruder is detected, both internal siren and wireless siren will hoot to deter the illegal intruder. (The siren will be off in 5 minutes as the default setting). At the same time, the alarm system will send SMS and auto dial to users.

## Specifications

---

### Product name :

GSM/SMS/RFID Security Alarm System

### Model No. :

CG-G5

### Control panel's power supply :

Input: AC 110-240V/50-60Hz

Output: DC 12V/500mA

### GSM working frequency :

850/900/1800/1900MHz

### Standby current :

110mA

### Alarm current :

340mA

### Internal battery backup :

Lithium Battery : 3.7V/800mAh x 2 PCS (BL-5B)

### Internal siren :

110dB

### Allowed amount of expandable wireless accessories

10pcs remote controls, 50pcs wireless accessories,  
and 50pcs RFID tags.

### Radio frequency

315MHz/433MHz ( $\pm 75$ KHz)

### Housing material

ABS plastic

### Operation condition:

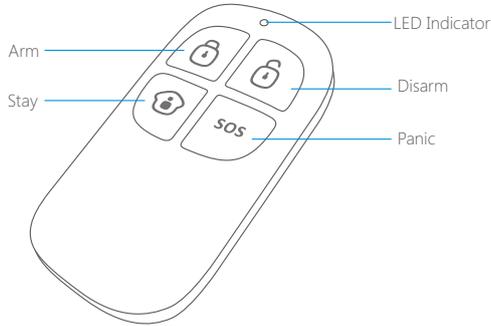
Temperature:  $-10^{\circ}\text{C}\sim 55^{\circ}\text{C}$

Humidity:  $\leq 80\%$ (non-condensing)

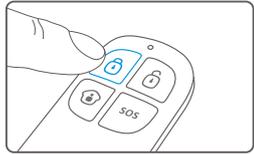
### Size (L x W x H) :

Panel : 188×132×26mm

## Wireless Remote Control



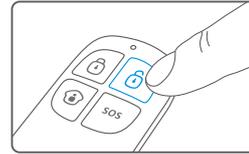
### Arm



Press {Arm } to arm the alarm panel and the LED indicator lights on (siren hoots once), the system enters Arm state.

If there comes an intruder, the siren will hoot to deter the intruder. (The siren turns off after ringing for 5 minutes as default setting.) At the same time, the system dials the pre-stored phone numbers automatically.

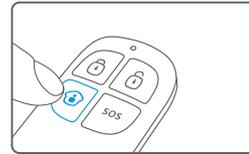
### Disarm



Press {Disarm } to disarm the alarm panel and the LED indicator blacks out (siren hoots twice), the system is disarmed.

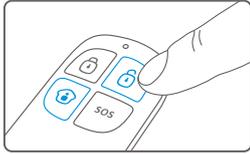
When intruders are detected, siren will keep hooting. Press {Disarm } to stop siren hooting.

### Home Mode



Press {Stay } button on the remote control, the system state LED is on. All the sensors in Normal Zone are armed except the motion detector in Home Mode Zone which is disarmed so that user can move freely at home.

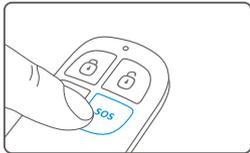
## Mute Mode



Press {Stay 

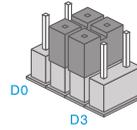
## Emergency Call

SOS

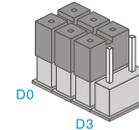


No matter what state the control panel is in, once SOS button on the remote control is pressed, the system immediately goes into emergent alarming state.

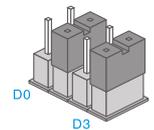
## Zone Setup



Home Mode Zone



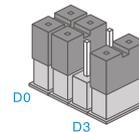
Normal Zone



Single Delay Zone

The PIR motion detector is set in Home Mode Zone in default. It is recommended to set Door/Window Contact on entrance in Single Delay Zone.

Users should reconnect the detector with the control panel after the zone is changed.



24-H Zone

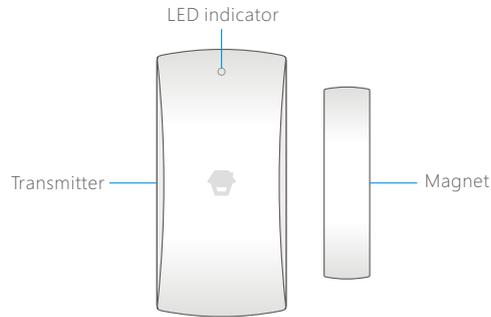
**Note:** It is recommended to set smoke detector, gas detector and outdoor beam sensor at 24-H zone.

# Wireless Door/Window Contact

## Features

The DWC-100 is a Door/Window Contact that can be installed on doors, windows, and any other objects that open and close. The sensor transmits signals to the control panel when a magnet mounted near the sensor is moved away. External input for wired accessory is available at the N/C interface. The tamper protection ensures that sabotage attempts to move the contact will result in an alarm activation.

## Appearance

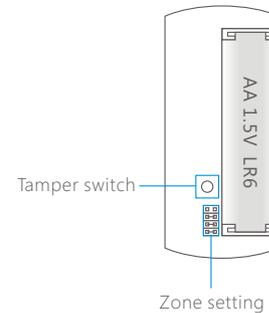


## LED Indication

**LED flashes once:** Door/window is opened and transmitter sends signal to the control panel.

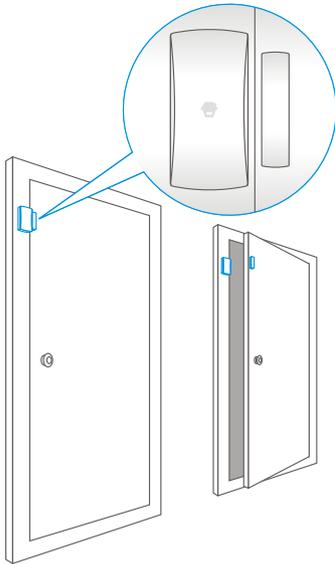
**LED flashes quickly:** Low power indication, please change battery as soon as possible.

## PCB Layout



## Installation & Notice

- Open the case and remove the battery activation strip.
- Mount the sensor on the door frame and the magnet on the door.
- Make sure the magnet is on the right side of the transmitter
- Place the transmitter in the desired location, mount the magnet no more than 1cm away from the transmitter and secure the transmitter and magnet with double-sided tapes or screws.
- Avoid mounting sensors in areas with a large quantity of metal or electrical wiring, such as a furnace or utility room.



## Specifications

### Power supply

DC 1.5V (AA 1.5V LR6 Battery x 1pc)

### Static current

≤ 30uA

### Alarm current

≤ 40mA

### Transmitting distance

≤80m (in open area)

### Radio frequency

315MHz/433MHz (±75KHz)

### Housing material

ABS plastic

### Operating temperature

-10°C~55°C

### Relative humidity

≤80% (non-condensing)

### Transmitter dimensions (LxWxH)

71 x 34 x 17.5mm

### Magnet dimensions (LxWxH)

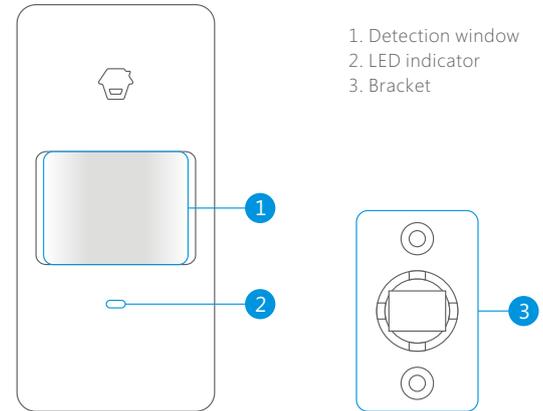
51 x 12 x 13.5mm

# Wireless PIR Motion Detector

## Features

PIR-900 is a high performance wireless P.I.R. motion detector. It consists of digital dual-core fuzzy logic infrared control chip and intelligent analysis which effectively identify interference signals from body movement signals and reduce false alarm rate. With automatic temperature compensation and anti-air turbulence technology, it easily adapts to environmental changes. The detector also has the advantages of energy saving, reliability and easy installation.

## Appearance



## LED Indication

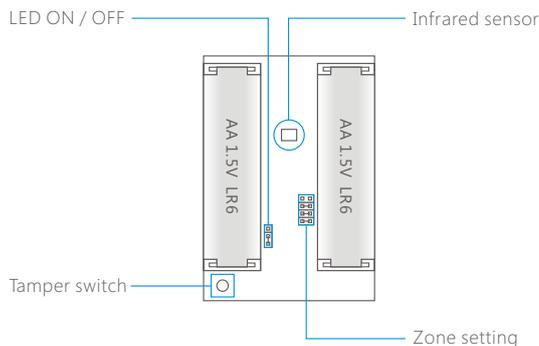
**Flash continuously:** Under the self-testing state.

**Flash once:** Intruder is detected.

**Flash twice:** Self-testing is finished, enters the working mode.

**Flash once per 3 seconds:** Under voltage indication, please change the batteries immediately.(User will get alert SMS about the low battery if the PIR detector is connected to the GSM alarm system.)

## PCB Layout



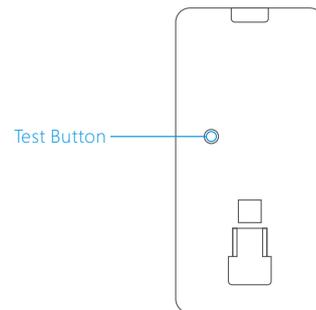
**Infrared sensor:** It detects the infrared rays released by human body motion, please don't touch the surface and always keep it clean.

**Tamper switch:** Once the case is opened in working state, the tamper switch will be triggered and then generates an alarm signal.

## Usage

Open the case and remove the battery activation strip to activate batteries. It will start self-testing for one minute.

## Mode Setting



### Testing mode:

After self-testing, press the test button, the sensor enters testing mode, and detects once every 10 seconds. After 3 minutes, the LED flashes twice, and the sensor enters the working mode.

### Working mode:

In working state, if the sensor is triggered more than twice within 3 minutes, it will enter sleeping mode to save power. After no movement within next 3 minutes, the sensor goes back to the working mode.

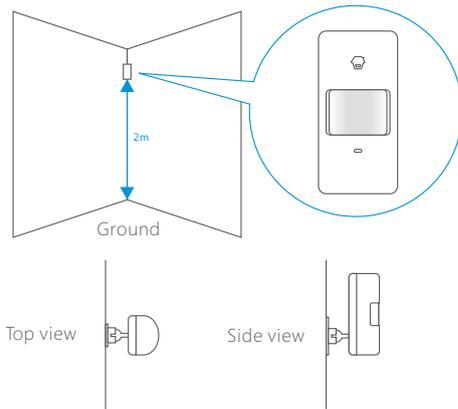
### Connect to alarm panel:

Press the connect key on the alarm panel, and then press the test button of the sensor twice to send alarm signal. When one beep is heard, they are connected.

To check if they are connected successfully, arm the system, and trigger the sensor again, if there is an alarming, the connection is successful.

## Installation & Notices

Avoid mounting the detector close to windows, air conditioner, heater, refrigerator, oven, sunshine and places where the temperature changes fast or the air stream flows frequently. If two detectors are installed in the same detection scope, please adjust the location to avoid interference and false alarm.



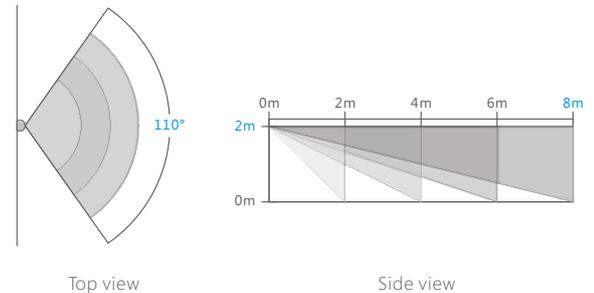
Fix the bracket on the wall with screws and attach the detector to the bracket. Adjust installation height or bracket to change the detection distance and angle. It is recommended to mount it at the height of 2m from the ground.

The detector is more sensitive to the cross movement than to the vertical movement, so the performance of detector is best when the detection direction is vertical to the walking direction of people.

## Testing (Walk Test)

- After installation, power on the detector. After one minute self-testing, press the test button, walk in the scope (from left to right or from right to left) and watch the LED indicator to make sure the detector is working.
- The LED indicator flashes once when body movement is detected.
- Adjust the detector angle accordingly to achieve the best detection effect.

## Detection Scope



## Specifications

### Power supply

DC 3V (AA 1.5V LR6 Battery x 2 pcs)

### Static current

≤ 50uA

### Alarm current

≤ 9.5mA

### Detection scope

8m/110°

### Transmitting distance

≤ 80m (in open area)

### Radio frequency

315MHz/433MHz (± 75KHz)

### Housing material

ABS plastic

### Operation Condition

Temperature: -10°C~55°C

Relative humidity: ≤80% (non-condensing)

### Detector dimensions (L x W x H)

108 x 52 x 36.8 mm

### Bracket dimensions (L x W x H)

52 x 30 x 26.5 mm