# G3

Security Alarm System

Features

- ARM + Auror CPU
- Embedded breathing lamp
- Support 50 wireless sensors and 10 remote controls
- Built-in 1,000,000 RF codes combination maintains high reliability
- Cellular communicator, simple operation
- Store 5 alarm phone numbers
- Exit & entry delay
- SMS alert for low battery of two-way accessories
- Arm & disarm the system by SMS or free phone call
- Remote monitoring site via phone
- Built-in 110dB siren, deterring intruders on site
- Built-in 7.4V 500mAh rechargeable battery pack enables 8-hour standby
- SMS alerts for power failure, power recovery and low power
- 850/900/1800/1900MHz GSM frequency, applicable for universal
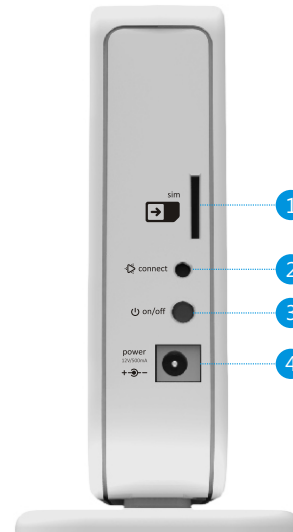
Control Panel Layout

1. Power/System Status LED Indicator
2. GSM Signal/Connect/Alarm LED Indicator
3. Panic Button
4. Breathing Lamp
5. Stand
6. Monitoring MIC
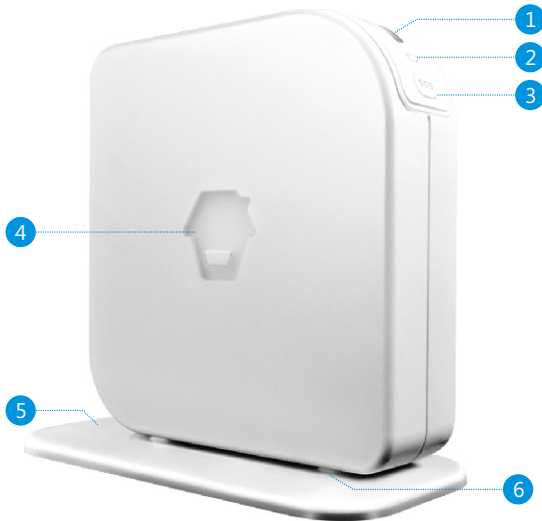
Side View

1. Sim Card Slot
2. Connect Button
3. Power On/Off
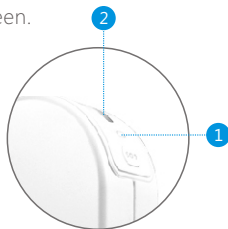4. Adapter Interface

LED Indication

1. GSM Signal/Connect/Alarm LED Indicator

GSM network searching: Fast flashes in green.
GSM signal is normal: Slow flashes in green.
Connect LED: Lights in red.
Alarm LED: Fast flashes in red.

2. Power/System Status LED Indicator

Disarm: Lights on in green.
Arm: Lights on in yellow.
Home mode: Flashes once every 2 seconds in yellow.
Low power: Flashes in green.

Connect Accessories

Press connect button , the connect LED lights on, then trigger the accessory once, it will be connected 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.
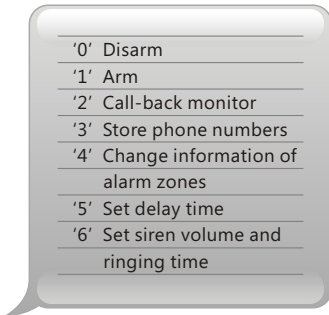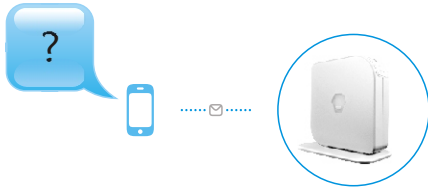
Operation:

Press the Connect Button of the wireless siren for 0.5 second, the Connect Button LED indicator lights on, and then press the SOS 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.
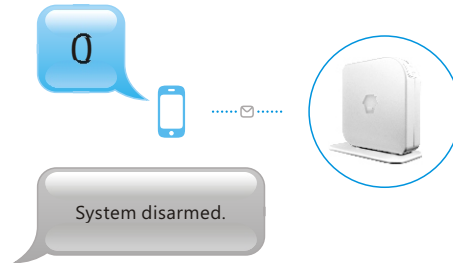
SMS Operation

Insert a sim card to the control panel, then send an SMS of **"?"** to the sim card number, the operation guide message will be replied. You can control the alarm system by following the guide message:
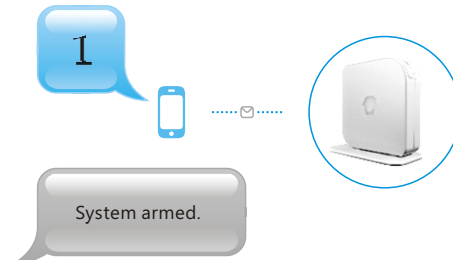
> ?

'0' Disarm
'1' Arm
'2' Call-back monitor
'3' Store phone numbers
'4' Change information of alarm zones
'5' Set delay time
'6' Set siren volume and ringing time

Disarm

To turn off the alarm system
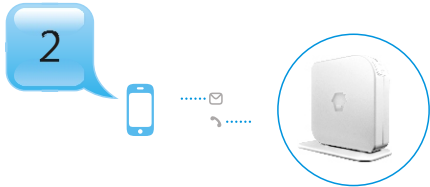
> 0

System disarmed.

Arm

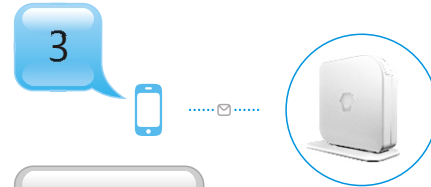To turn on the alarm system

> 1

System armed.

Call-back Monitor

Send "2" to the sim card number, the alarm will call back.

Pick up the phone and start to monitor the site.

Store Phone Numbers

TEL:
1.
2.
3.
4.
5.

Forward > Edit

TEL:
1. 67890033
2. 67890022
3. 67890011
4. 67890000
5.

Store phone numbers successfully.

Change Information of Alarm Zone

> **4**

Zone information :
1. Zone 1 alarm
2. Zone 2 alarm
3. Zone 3 alarm
4. Zone 4 alarm

Forward > Edit

Zone information :
1. Home gate alarm
2. Living room PIR
3. Bedroom PIR
4. Garage gate alarm

Change zone information successfully.

Notice! Due to SMS character limit, only 4 zones contents can be edited. At most 30 English characters for each line. Other alarm zones are fixed as Zone 5 alarm, Zone 6 alarm and so on.

Set Delay Time

> **5**

Alarm delay time (0-300sec):
0

Forward > Edit

Alarm delay time (0-300sec):
10

Set alarm delay time successfully.

Notice! Once the function is setup, 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.

Set Siren Volume and Ringing Time

6
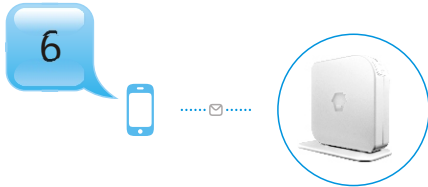
Siren volume (0 Mute, 1 Low,
2 Medium, 3 High) :
2
Siren ringing time (1-9min) :
5

Forward > Edit

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

Set siren volume and
ringing time successfully.

SMS Alert for Low Battery of Accessories

SMS will be sent for 1-4 zones with its zone name as
"Zone name + low battery".

Bedroom PIR low battery.

SMS alert for 5~50 zones will be "Zone number + low battery".

Zone 10 low battery.

SMS Alert for Tamper Alarm of Accessories

SMS will be sent for 1-4 zones with its zone name as
"Zone name + tamper alarm".

Bedroom PIR tamper
alarm.

SMS alert for 5~50 zones will be "Zone number + tamper alarm".

Zone 10 tamper alarm.

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.

Emergency Call

Press "SOS" button on the control panel or the remote control, the system will alarm immediately and send SMS of "Emergency Call".

Turn On/Off the Breathing LED

Send text 30 to SIM card number of control panel to turn off the breathing LED. (Notice! No SMS reply from control panel.)
Send text 31 to SIM card number of control panel to turn on the breathing LED. (Notice! No SMS reply from control panel.)

Clear Accessories

Press down the connect button until 2 beeps are heard.
All the connected accessories will be cleared.

Language Setup

The SMS language can be modified by sending SMS code to the SIM card of the alarm system.

0086	Chinese
0001	English

Restore Factory Setting

Press connect button and SOS button on the control panel at the same time, after three beeps, all settings are restored to default.

Specifications

Product name
GSM/SMS Security Alarm System

Model No.
CG-8800G3

Control panel's power supply
Input: DC 12V 500mA, 6Wh

GSM working frequency
850/900/1800/1900MHz

Standby current
80mA

Alarm current
170mA

Internal battery backup
7.4V 500mAh rechargeable battery pack

Internal siren volume
110dB

Quantity of extensible wireless accessories
10 remote controls and 50 wireless sensors

Radio frequency
315MHz or 433.92MHz (±75KHz)

Housing material
PC+ABC Plastic

Operation condition
Temperature: -10ºC~+55 ºC
Relative humidity: ≤ 80% (non-condensing)

Dimensions (L x W x H)
Panel : 126 × 36 × 130mm
Stand : 150 × 70 × 10mm

Wireless Remote Control
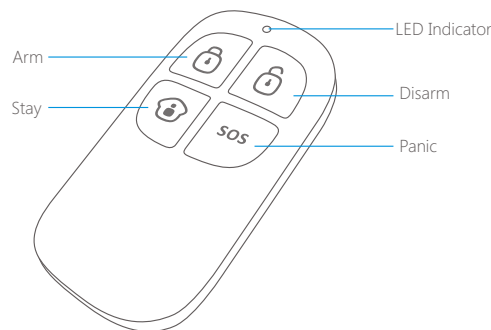
Arm

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.
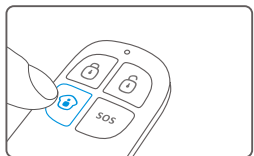
Disarm
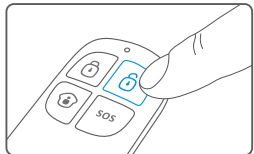
Press {Disarm 🔓} to disarm the alarm panel and the LED indicator blacks out (siren hoots twice), the system is disarmed.
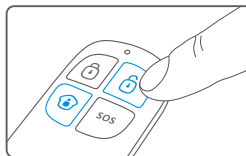
When intruders are detected, siren will keep hooting. Press {Disarm 🔓} to stop siren hooting.

Home Mode

Press {Stay 🏠} button on the remote control, the system state LED is on. All the sensors in other zones are armed except the motion detector in zone A which is disarmed so that user can move freely at home.

Mute Mode

Press and hold the {Stay 🏠} button on the remote control for 1 second, then press {Arm 🔒} or {Disarm 🔓} button within 3 seconds, the siren keeps silent to finish the operation. The system is armed or disarmed in mute without disturbing other people.
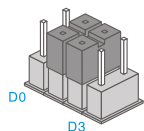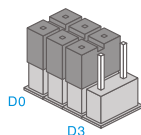
Emergency Call

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.
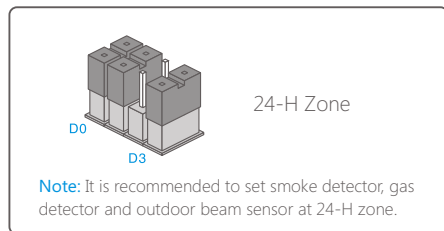
Home Mode Zone Setup

D0
D3
Home Mode Zone

D0
D3
Normal Zone

The PIR motion detector is set in Home Mode Zone in default.

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

D0
D3
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-102 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.
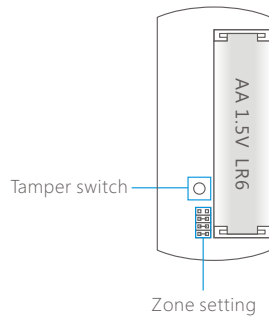
Appearance

LED indicator

Transmitter

Magnet
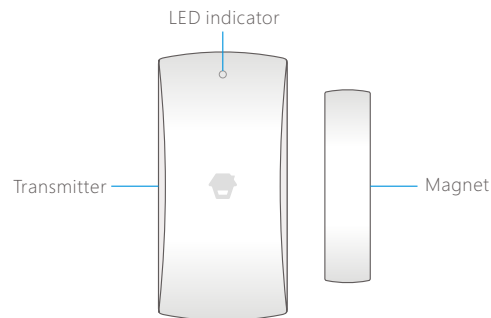
LED Indication

LED flashes once: Door/window is opened and transmitter sends signal to the control panel.
Flash once per 3 seconds : Low power indication, please change battery as soon as possible.

PCB Layout

Tamper switch

AA 1.5V LR6

Zone setting

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.
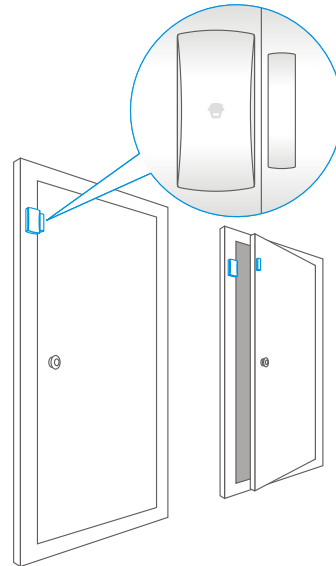
Specifications

Product name

Wireless door/window contact

Model No

DWC-102

Power supply

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

Standby current

≤ 35uA

Alarm current

≤ 40mA

Transmitting distance

≤ 80m (in open area / no interference)

Radio frequency

315MHz or 433.92MHz (±75KHz)

Housing material

ABS plastic

Operation condition

Temperature: -10°C~ +55°C

Relative humidity: ≤80% (non-condensing)

Transmitter dimensions (L x W x H)

71 x 34 x 17.5mm

Magnet dimensions (L x W x H)

51 x 12 x 13.5mm

Pet-Immune PIR Motion Detector

Features

PIR-910 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. The detector features
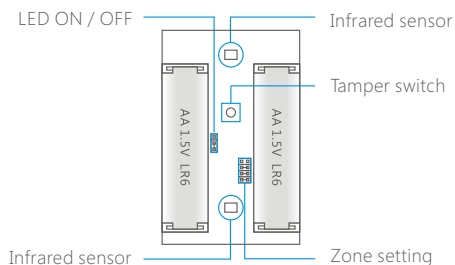pet immunity for small animals up to 25kgs

Appearance

1. Detection window
2. LED indicator
3. Snap joint
4. Test button
5. Bracket
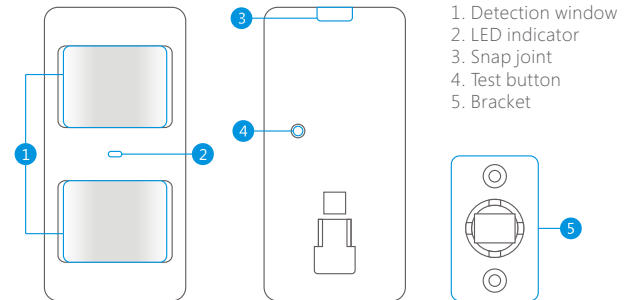
LED Indication

Display	Meaning
Blink continuously	Self testing
Blink once	Intrusion detected
Blink twice	Testing mode is finished, the detector enters power-saving mode
Blink once every 3 seconds	Low battery, please replace the battery as soon as possible

PCB Layout

LED ON / OFF

Infrared sensor

Tamper switch

AA 1.5V LR6

AA 1.5V LR6

Infrared sensor

Zone setting

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 generatesan alarm signal.

Working Mode

Testing mode

After self-testing, the detector enters testing mode, and detects once every 10 seconds. After 3 minutes, the LED blinks twice, and the detector enters power saving mode.

Hold the test button and load the battery, then release the test button, the detector stands in testing mode, it keeps detecting once every 10 seconds. Exits this status by reloading the battery without holding the test button.
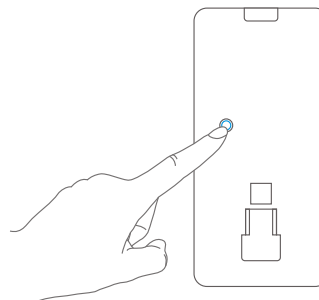
Power saving mode

The product features power-saving design. If the detector detects human movement twice in 3 minutes, it will switch to the sleeping state to save power. At this time, the LED will not blink even human movement is detected, and no alarm. After no movement within the next 3 minutes, the detector switches back to the working state automatically.
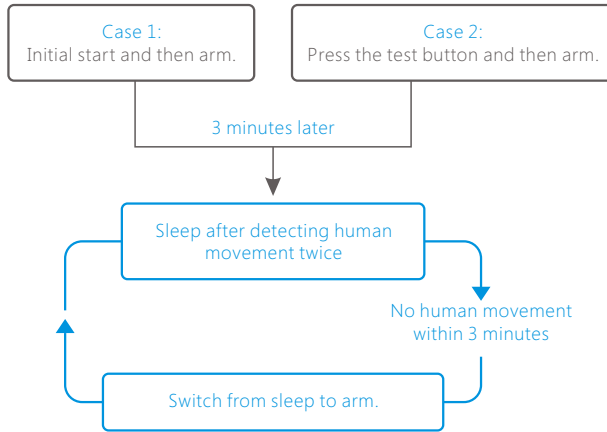

Note: After the detector is in the sleeping state, ensure no human movement within 3 minutes; otherwise, the detector remains sleeping.
In the sleeping state, it is recommended that you leave the room after arming the system. Ensure no human movement in 3 minutes. Then, go into the room, the system alarms immediately.
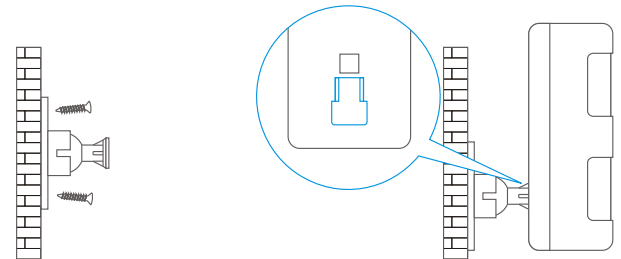
Installation

Choose a suitable installation location

It is recommended to mount it at the height of 2m from the ground.
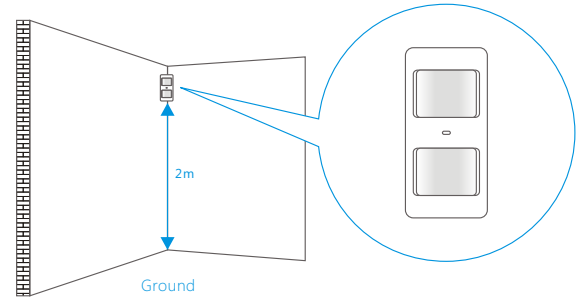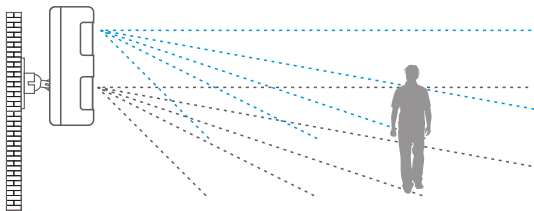

Fix the detector

Fix the bracket on the wall with screws and attach the detector to the bracket.

Test the PIR motion detector

Press the test button at the back. It switches to the testing mode and sustains for 3 minutes. Walk in the detection scope and observe the LED. When body movement is detected, the LED blinks once.
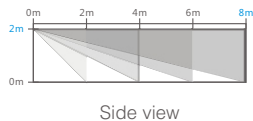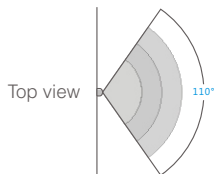

Adjust the angle

Adjust the bracket angle to achieve the best detection effect.

Side view   Top view

Note! If pet-immune function is applied, please do not adjust the angle up or down, but keep it parallel with the wall

Detection Scope

Top view   110°

0m   2m   4m   6m   8m
2m

0m

Side view
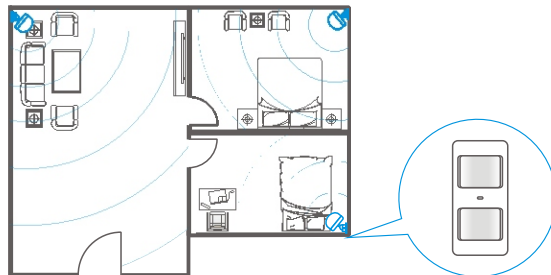
Installation Notices

Mount the detector to a location close to the entry or exit

The detector aims at preventing intrusion. Detecting human movement at the entry or exit is critical for security.


Mount the detector in a proper angle

The installation angle affects detection sensitivity. The sensitivity is optimal when the walk direction is vertical to the infrared direction. Choose the best location and angle according to the actual situation and detection scope diagram.
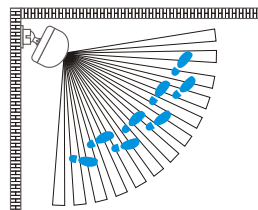
Don't face to glass windows or doors

Strong light interferes with detection sensitivity. In addition, complicated situations, such as traffic flow, stream of people, also should be avoided.
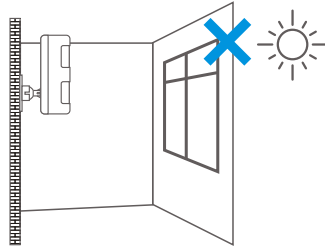
Don't face to or position close to heat sources

Heat and cold sources, such as heat extraction units, heaters, air conditioner, microwave oven, refrigerator, which may cause false alarm, should be avoided.
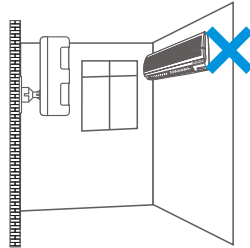
Don't face to swinging objects

Swinging objects may also trigger false alarm. Besides, if there are two detectors covering the save scope, adjust the locations to prevent cross-interference.
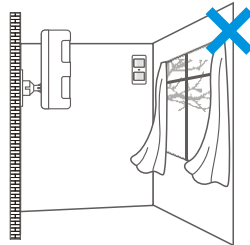
Specifications

Power Supply

DC 3V (AA 1.2V LR6 Battery x 2 pcs)

Static Current

≤ 90uA

Alarm Current

≤ 9.5mA

Detection Scope

8m/110°

Pet Immunity

≤ 25kg

Transmitting Distance

≤ 80m (in open area)

Radio Frequency

315MHz or 433.92MHz (± 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