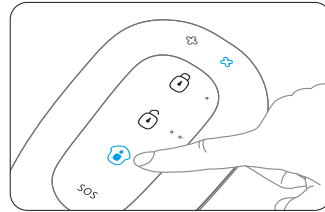### Home Mode (Part Arm)

In home mode, detectors setting to home zone are in disarm state; the other detectors are still in arm state. That is, you can move freely in the home zone; however, the rest areas are still being protected.
Press the [Stay 🔒] button. 3 seconds later, the control panel beeps once and the mode LED is on.

> Note: The PIR detector is set to home zone by default. That is, the PIR detector will not trigger an alarm after you press the [Stay 🔒] button.

SOS

In case of emergency, you can press the [SOS] button.
Whenever you press the [SOS] button on the remote control, the system will alarm immediately and send push message, then call the pre-stored phone numbers.
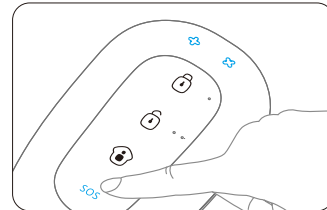
Mute Operation

You can arm and disarm the system silently.
Press the [Stay 🔒] button for 1 second, and then press the [Arm 🔒] button within 3 seconds. The system is armed silently.
Press the [Stay 🔒] button for 1 second, and then press the [Disarm 🔓] button within 3 seconds. The system is disarmed silently.

> Note: If wireless strobe sirens are used, they will not sound either.

2. Test and Install the Door/Window Contact

The contact contains a transmitter and a magnet, which can be mounted on a door, window, or any object that can be opened or closed. When the transmitter and magnet are separated, t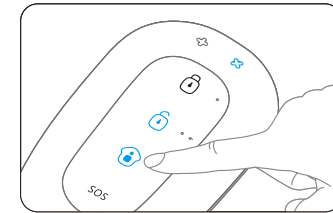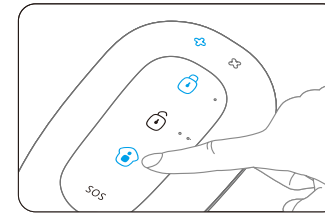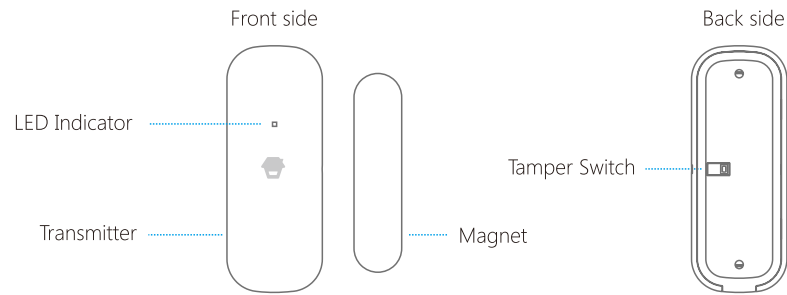he contact will send a signal to the control panel and the control panel will trigger an alarm. The tamper switch ensures that sabotage attempts to disassemble the contact will trigger an alarm.

Overview

Front side   Back side

LED Indicator
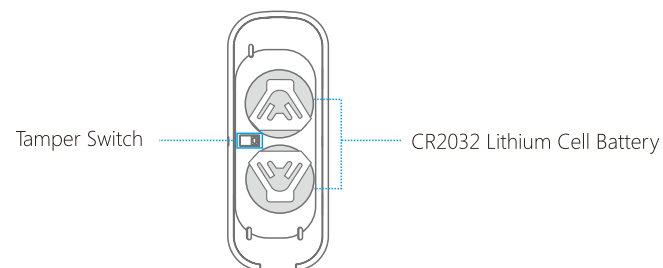
Tamper Switch

Transmitter   Magnet

LED Indication

Flash once: Intruder is detected.
Flash once per 3 seconds after triggered: Low battery. Replace the battery as soon as possible.

PCB Layout

Tamper Switch   CR2032 Lithium Cell Battery

Note: When tamper switch is pressed, system will alarm immediately.

Test the Door/Window Contact

This is to test whether the contact can work properly.

1. Remove the insulating strip
The contact works immediately.
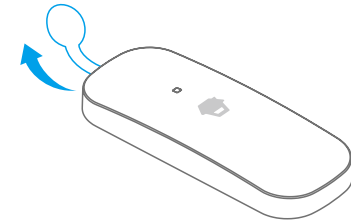
2. Pay attention to the direction
There are triangle marks on the side of the transmitter and magnet. Make sure the triangle marks is close to each other and within the range of 1 cm.
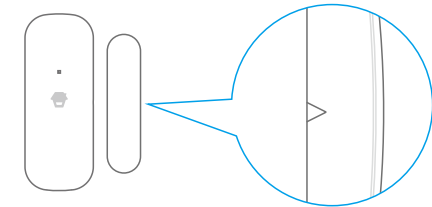
3. Test the door/window contact
Press the [Arm 🔒] button. The system switches to the arm state. Separate the transmitter and magnet with the space more than 2 cm. The red LED on the transmitter is on. Then, the control panel triggers an alarm. This means the contact works properly.

①   ②   >2cm

Install the Door/Window Contact

Make sure the contact works properly before installing it. There are triangle marks on the side of the transmitter and magnet. Make sure the triangle marks is close to each other and within the range of 1 cm. As long as the space between the transmitter and magnet is over 2 cm and the LED on the transmitter is on.
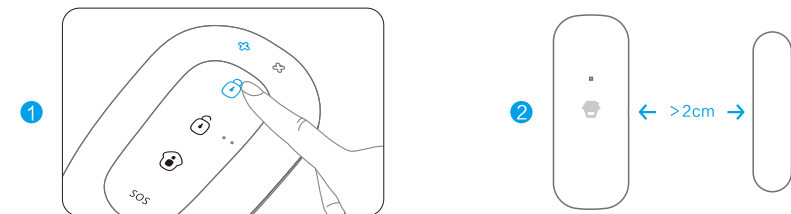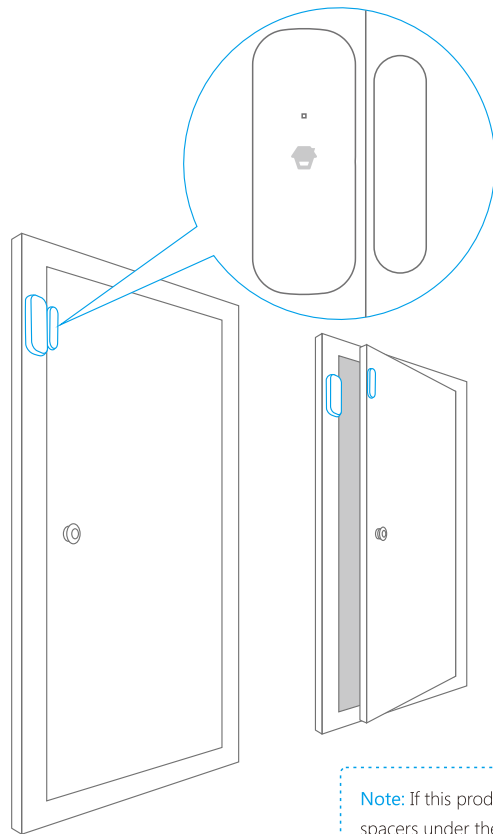
Secure the contact with double-sided tapes

Secure the transmitter and magnet on the desired locations with double-sided tapes.

Note: If this product is installed on metal door, place spacers under the transmitter and magnet.
This product is not suitable for shutter door, please purchase shutter door sensor for your use.

3. Test and Install the PIR Motion Detector

The detector adopts digital dual-core fuzzy logic control processing technology and intelligent analysis algorithm, effective resolution of interfering signal and human movement signal, preventing false alarm. It features automatic temperature compensation and resistance to flow technology, adapting to environmental and temperature change. It can detect human movement within the 8-meter cone space, suitable for halls, hallways, etc.

Overview

Detection Lens

LED Indicator

Test Button

Double-sided Tape Stick Place

Bracket Slot
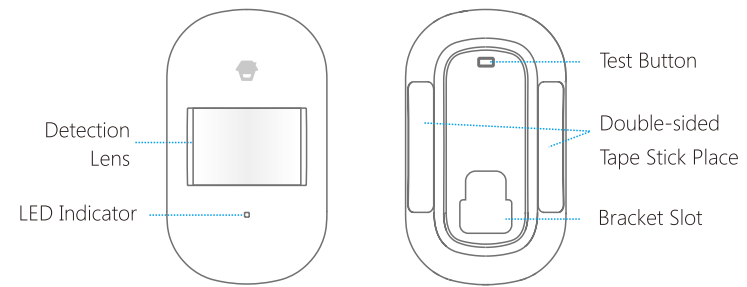
LED Indication
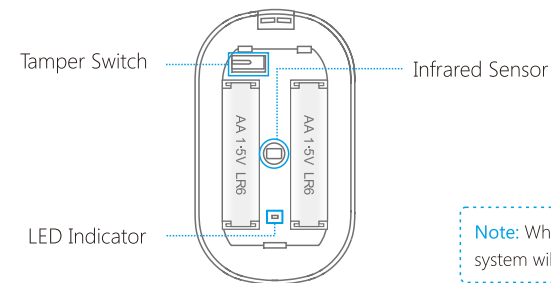
Flash continuously: Self-testing.
Flash once: Intrusion is detected.
Flash twice: 3 minutes testing mode is finished, enters power saving mode.
Flash once per 3 seconds: Low battery indication, please change the batteries immediately.
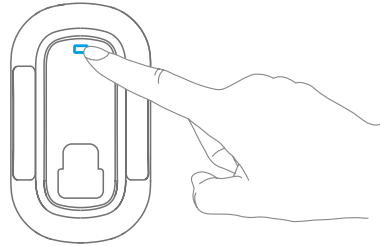
PCB Layout

Tamper Switch

Infrared Sensor

AA 1.5V LR6   AA 1.5V LR6

LED Indicator

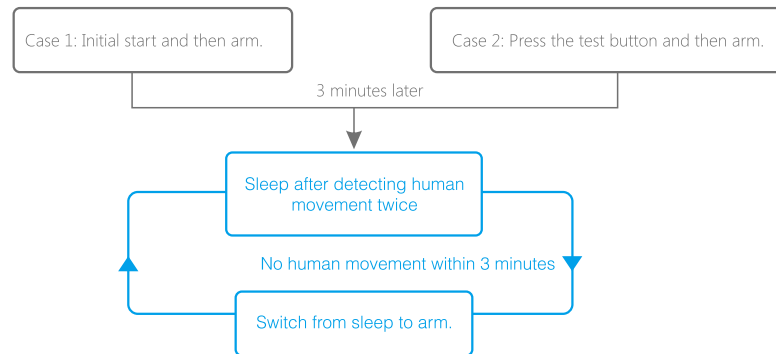Note: When tamper switch is triggered, system will enter alarm state.

Working Mode

Testing Mode

After self-testing, press the test button, the detector switches to the testing mode and detects once every 10 seconds. It triggers an alarm. After 3 minutes, the LED flashes twice, and the detector switches to the power saving mode.

Power Saving Mode

Case 1: Initial start and then arm.	Case 2: Press the test button and then arm.

3 minutes later

Sleep after detecting human movement twice

No human movement within 3 minutes

Switch from sleep to arm.

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 flash 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.

Test the PIR Motion Detector

This is to test whether the PIR detector works normally.

1. Remove the insulating strip

   Remove the insulating strip.
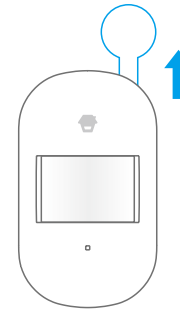
2. Arm the system

   Press the [Arm 🔒] button on the remote control. The system is armed.

3. Trigger an alarm

   Keep pressing the test button at the back until the control panel sounds. It indicates that the PIR motion detector is connected to the control panel.

Install the PIR Motion Detector

After making sure the detector works normally, do as follows:

1. Choose a suitable installation location

For installation notices, please see page 39-40.
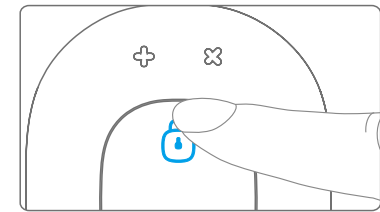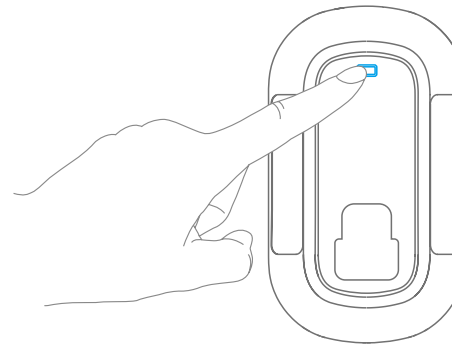

2m
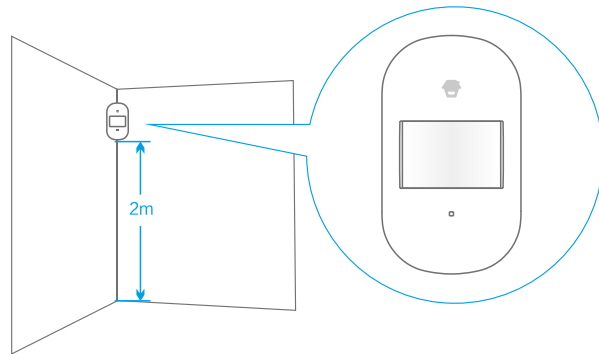
2. Fix the detector

Fix the installation bracket on the wall with screws, and then fit the groove at the back of the detector on the bracket. For the detector of this model, you can stick it at the corner with double-sided tapes.

①   ②
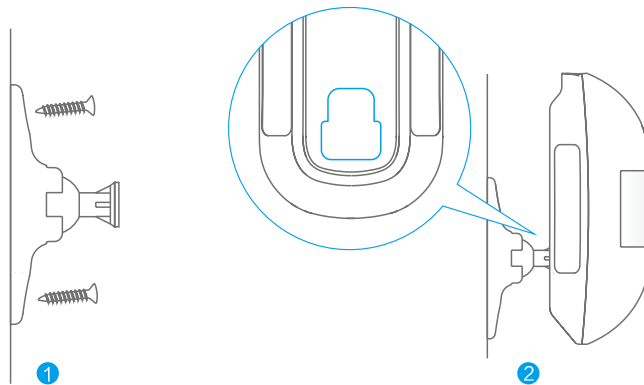
3. Test the PIR motion detector

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 human movement is detected, the LED flashes once.
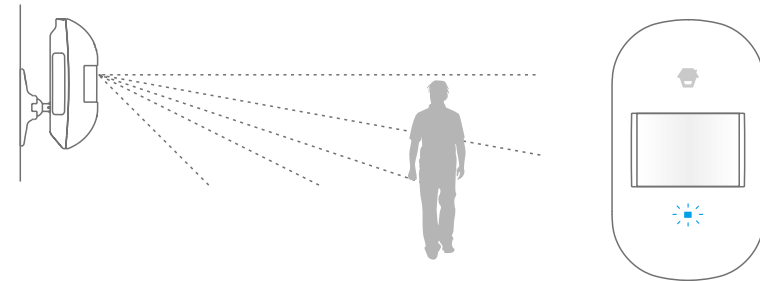
4. Adjust the angle

Adjust the bracket angle to achieve the best detection effect.

Side view   Top view
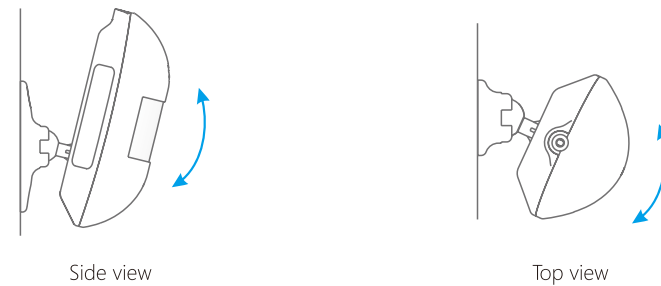
Pay attention to the following during installation:

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

It is recommended to mount it at the height of 2m from the ground. The detector aims at preventing intrusion. Detecting human movement at the entry or exit is critical for security.
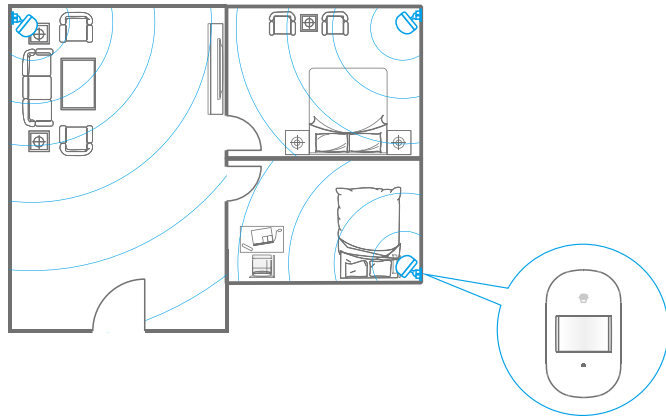
2. Mount the detector in a proper angle
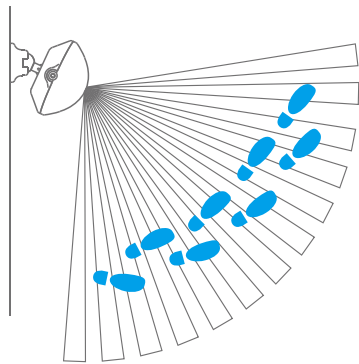
The installation angle affects sensitivity directly. The sensitivity is optimal when the walk direction is vertical to the infrared direction. Choose the best location and angle according to the actual situation and detection scope diagram.

3. Avoid facing 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.
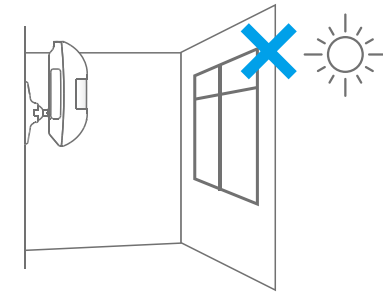
4. Avoid facing to or positioning close to heat/cold sources

Heat/cold sources, such as heat extraction units, heaters, air conditioner, microwave oven, refrigerator, which may cause false triggering, should be avoided.
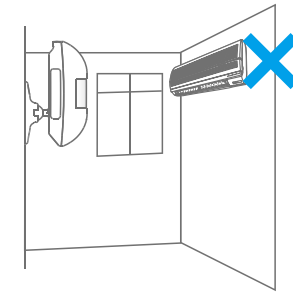
5. Avoid facing to swinging objects

Swinging objects may also trigger false triggering. Besides, if there are two detectors covering the save scope, adjust the locations to prevent cross-interference.
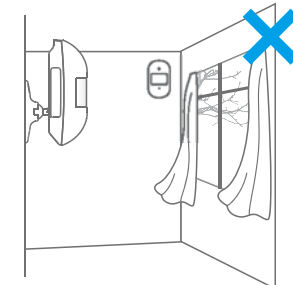
Add and Delete Accessories

Connect Accessories to Alarm Panel

Accessories need to be connected to the alarm panel so that the alarm panel can receive signals from them and sound the alarm. Accessories in the kit have been connected to the alarm panel before delivery, and ready for use. If the control panel does not trigger alarms, reconnect them. Accessories purchased separately must be connected to the alarm panel before use.

Under connecting mode, the LED screen shows the number of sensors connecting. For instance, when the LED screen shows 5, which indicates 4 sensors has connected successfully.

Connect the Remote Control

1. The panel enters connect mode

Input admin code, press [#] , the alarm panel beeps once to enter setting mode. Then press #0*, the alarm panel enters connect mode.

Admin code #   # 0 *

Note: Press [Arm 🔓]、[Disarm 🔒] or [Home 🏠] to exit connect mode. If no operation within 30 seconds, the alarm panel will beep once to exit connect mode.

2. Press any key on remote control
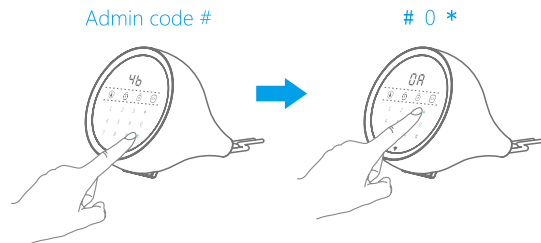
Press any key on the remote control, the alarm panel beeps once. Connection is successful.

Note: Once two beeps are heard, it indicates the accessory has been connected already.

Connect the Door/Window Contact

1. The panel enters connect mode

Input admin code, press [#], the panel beeps once to enter setting mode. Then input #**, the alarm panel enters connect mode.

Admin code #   # * *
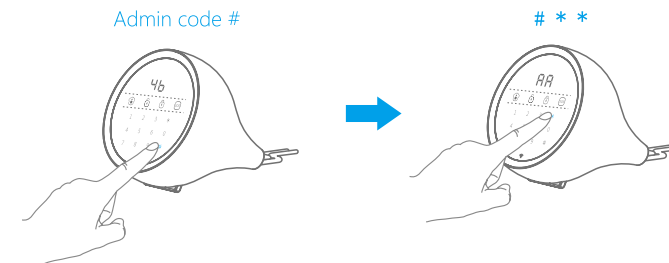
2. Separate the magnet and transmitter

Separate the magnet and transmitter with the space more than 2cm, the alarm panel beeps once, indicating successful connection.

>2cm
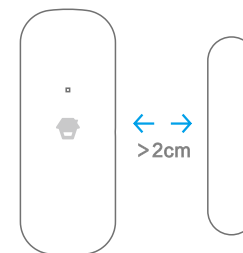
Note: Once two beeps are heard, it indicates the accessory has been connected already. Please don't trigger the tamper switch when connecting. Otherwise, the system will recognize the sensor as 24 hour zone. Please delete and reconnect if this happens.

Connect the PIR Motion Detector

1. The alarm panel enters connect mode

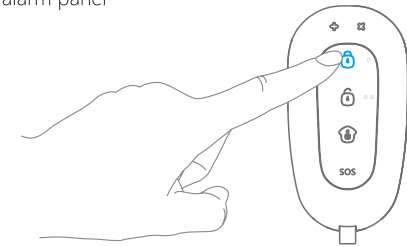Input admin code, press [#], the alarm panel beeps once to enter setting mode. Then press #**, the alarm panel enters connecting mode.

Admin code #   # * *
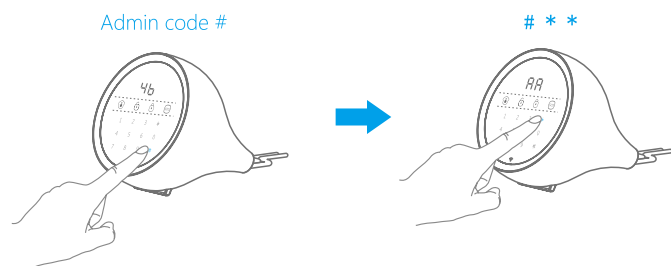
2. Press the testing button on the PIR motion detector

Press the testing button twice at the back of the PIR motion detector. The alarm panel beeps once, indicating the connection is successful.
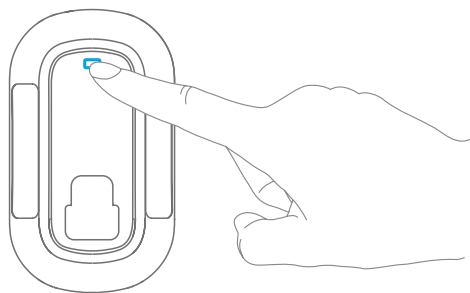
Note: If the alarm panel beeps twice, it indicates the detector has been connected before.

Connect the Wireless Siren (optional)

1. Make sure the wireless siren enters connect mode
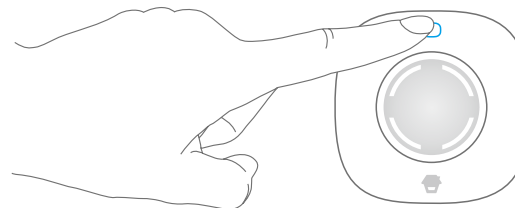
2. Press [Arm 🔒] on the alarm panel

Press the [Arm 🔒] on the alarm panel, the siren beeps once which indicates successful connection.
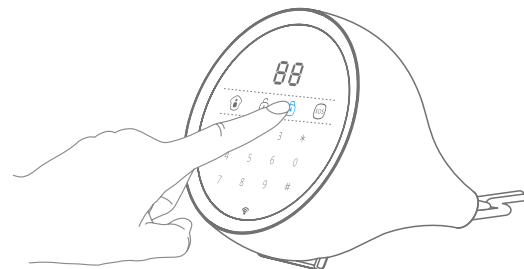
Note: If the siren beeps twice, it indicated the wireless siren has been connected before. To connect other wireless siren, please refer to the related manuals.

Connect Other Accessories (optional)

For how to connect other accessories to the alarm panel, please refer to related manuals.

Delete Remote Controls

Input admin code, press [#], the alarm panel beeps once to enter setting mode. Then press #0#, one long beep is heard, all the remote controls is deleted.
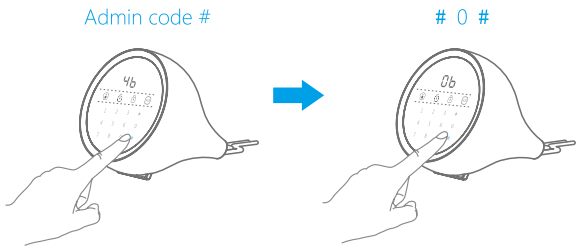
Admin code #   # 0 #

Delete Wireless Sensors

Input admin code, press [#], the alarm panel beeps once to enter setting mode. Then press #*#, all the wireless sensors are deleted.

Admin code #   # * #
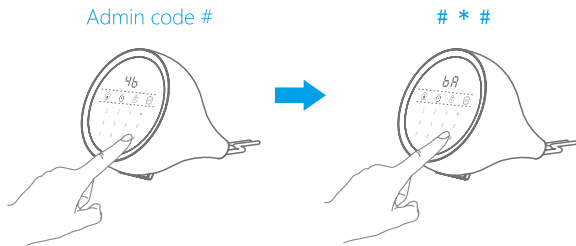
Delete Wireless Sirens

Delete wireless siren is to delete the connection to alarm panel.
Press and hold the connect button on the wireless siren until one beep is heard, it indicate the connection is deleted successfully.
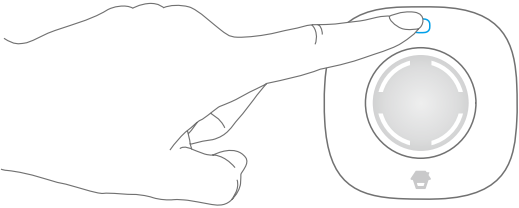
Command List

Functions	Command
Change admin code	*1*new admin code*
Change user code	*2*new user code*
Change duress code	*3*new duress code*
Enter setting mode	Admin code#
Connect remote control	#0*
Delete remote control	#0#
Connect wireless sensors	#**
Delete wireless sensors	#*#
Restore to factory settings	*0##

Trouble Shooting

Questions	Cause/Trouble Shooting
The App can't get in the main interface when setup WiFi	Please check the local WiFi
App show "Return data timeout"	Please check the local network or cellular network
The alarm panel beeps three times	Wrong operation
The touch keypad flashes once per 3 seconds	The alarm panel is in low voltage,please connect the AC power ASAP
Remote control don't work	The remote control is disconnected from the alarm panel
	The distance is beyond the operation range
Door contact don't work	The door contact is disconnected from the alarm panel
	The distance is beyond the operation distance
Detector don't work	Check whether the detector had paired with panel successfully
	The detector is too far away from the panel
	Check whether the detector is in sleeping state Learn about the mode and requirements of install location
Alarm panel has no sound	Check if the internal siren volume is set to mute
No phone call when alarming	Please check if the alarm panel is connected to landline
Remote phone control don't work	Please check if the remote phone control is turned on
The alarm panel can't find network	Check if the local network is the same with the WiFi when setup
No push notification	Please check if the local or cellular network works properly
Admin code is missing	Please contact the local retailer for help

Specifications

W100 Alarm Panel

Power Supply	DC 12V 500mA
Backup Battery	3.7V 1200mAh 18650 rechargeable lithium battery
Static Current	≤ 100mA
Alarm Current	≤ 250mA
Internal Siren Volume	110 dB
Supported Accessories	10 remote controls, 30 sensors
Radio Frequency	868/915 MHz
Housing Material	ABS+Acrylic
Operating Condition	Temperature: -10℃ ~+ 55℃ Relative Humidity: ≤ 80% (non-condensing)
Dimensions	138.8 x 125 x 125.5 mm (L x W x H)

RE2300 Remote Control

Power Supply	DC 3V (CR2032 lithium cell battery x 1)
Transmit Current	≤ 9.5 mA
Transmitting Distance	≤ 80 m (open area/no interference)
Radio Frequency	868/915 MHz
Housing Material	PC+ABS plastic
Operating Condition	Temperature: -10℃ ~+ 55℃ Relative humidity: ≤ 80% (non-condensing)
Dimensions	71 x 38 x 12 mm (L x W x H)

DS2300 Door/Window Contact

Power Supply	DC 3V (CR2032 lithium cell battery x 2)
Static Current	≤ 1 uA
Alarm Current	≤ 10.5 mA
Transmitting Distance	≤ 80 m (open area/no interference)
Radio Frequency	868/915 MHz
Housing Material	ABS plastic
Operating Condition	Temperature: -10℃ ~+ 55℃
	Relative humidity: ≤ 80% (non-condensing)
Transmitter Dimensions	72.5 x 28 x 10 mm (L x W x H)
Magnet Dimensions	58 x 14 x 9.5 mm (L x W x H)

MD2300 PIR Motion Detector

Power Supply	DC 3V (1.5V AA battery x 2)
Static Current	≤ 50 uA
Alarm Current	≤ 11 mA
Detection Scope	8m/110°
Transmitting Distance	≤ 80 m (open area/no interference)
Radio Frequency	868/915 MHz
Housing Material	ABS plastic
Operating Condition	Temperature: -10℃ ~+ 55℃
	Relative humidity: ≤ 80% (non-condensing)
Detector Dimensions	101.5 x 59 x 37.5 mm (L x W x H)
Bracket Dimensions	60 x 29 x 27 mm (L x W x H)

Disclaimer

smanos have reviewed this manual thoroughly in order to make it an easy to use guide for this product. All statements, technical information, recommendations in this manual are believed reliable, but the accuracy and completeness are not guaranteed or warranted.
The specifications and information regarding the products in this document are subject to change without notice.
Photocopy, copy, reproduction, translation to any language, modification, storage in a retrieval system or retransmission, in any form or by any means, electronic, mechanical or otherwise, is strictly prohibited without prior written permission.
In no event shall smanos be liable for any indirect, special, incidental, or consequential damages, including, without limitation, lost profits or loss or damage to data arising out of the use or inability to use this document, even if smanos has been advised of the possibility of such damages.

Caution and Warnings

Due to laws and regulations determined by the European Parliament, some (wireless) devices may be subject to restrictions on its use in certain European countries. In some EU Member States, the use of equipment are prohibited. Contact your (local) government for more information on these restrictions.

Always follow the instructions in the manual, especially when it concerns devices which need to be assembled.
Warning: in most cases it is an electronic device. Incorrect or improper uses of the device may result in (serious) injuries.

Repairing the unit must be done by smanos qualified personnel. The warranty expires immediately if the unit is repaired and/or when the product is misused.

Terms of Warranty

The three-year warranty applies to all smanos products unless otherwise specified at the time of purchase. When buying a second hand smanos product the product warranty remains measured from the time it was bought by the original owner. Power supplies, batteries, antennas and all other products integrated in or directly connected with the main product or products that may reasonably assumed to have a different wear pattern than the main product are therefore not covered by the smanos guarantee. The warranty doesn't apply when incorrect or improper use, external influences and/or opening of the housing has been done by parties other than smanos.

SMANOS HOLDING LTD
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2132 PZ Hoofddorp
The Netherlands
www.smanos.com

Federal Communications Commission (FCC) Interference Statement
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

● Reorient or relocate the receiving antenna.
● Increase the separation between the equipment and receiver.
● Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
● Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF exposure warning
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.