STARK

OPERATING MANUAL

EN

Wireless Ceiling PIR

ST-323W

* This product is a networking accessory that needs to be used with the company's gateway

> Product overview

The detector USES imported sensors and special infrared processing chips to detect the infrared spectrum of the human body. When the human body is in the detection range, the microprocessor will alarm the detected signal after comparison calculation. The detector has a strong temperature compensation function, which solves the problem of weakening infrared detection ability caused by environmental temperature change to a certain extent. Ceiling installation, concealed and beautiful, suitable for the protection of living room, corridor and other areas.

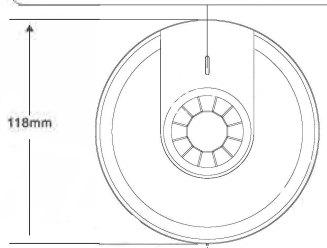
> Product features

- The whole process temperature compensation, adaptive temperature changes
- Anti-white light interference
- Anti-electromagnetic interference
- Low power detection, low power report
- Two-stage infrared gain adjustable
- Easy to install, beautiful and generous

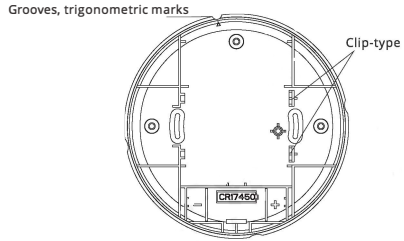
> Technical parameters

- Power: DC3V(CR17450 *1)
- Standby current: 30uA
- Battery life:4-5 years (100 alarm triggers/day)
- Wireless frequency: 433.92MHz
- Transmitting current: 20mA
- Wireless range: 300m (open area)
- Operating temperature: -10°C~+50°C
- Sensor type: Dual element pyro-electric IR sensor
- Installation: Ceiling
- Installation height:Ceiling: 3-5 meters
- Detection Angle: 360°

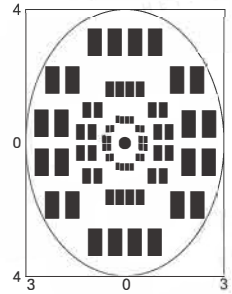
The red light flashes each second: detector initializing
Green light quickly flashes: old battery
The red light flashes for one second: the detector be triggered
Green light flashes each 15 seconds: Detector low power



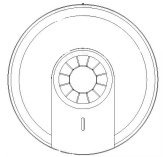
Top Cover Location Identification



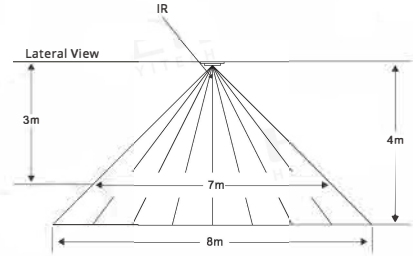
> IR Detection Sector Chart



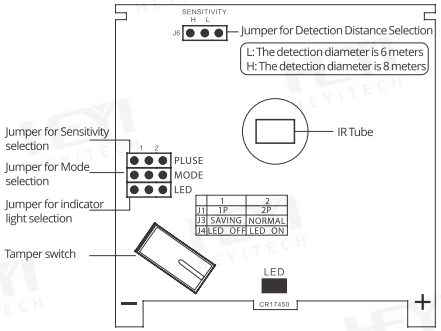
IR Detection Diagram



When the detector is installed as shown below, its coverage is as shown in the left image.



> Product overview



SAVING Mode:

After the infrared alarm is triggered, if it is triggered repeatedly, the infrared alarm will no longer be triggered to send the alarm signal.Only after the infrared signal is not detected for 10 seconds continuously, the infrared can be triggered again to give an alarm.

NORMAL Mode:

After the infrared alarm is triggered, the time for lockdown is fixed for 10 seconds, then the infrared alarm can be triggered again after 10 seconds.

Sensitivity selection instructions:

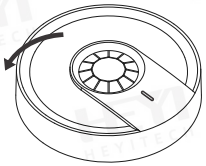
1P is single pulse mode with high detection sensitivity and is used in general indoor environment.

2P is a double pulse mode with strong anti-interference capability for severe environment.

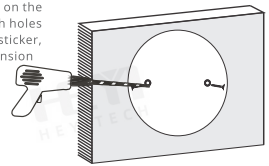
> Installation and Instructions

❶ Installation

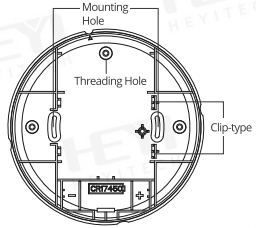
1. Rotate the shell counterclockwise and remove the cover.

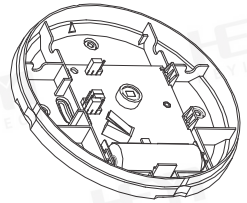


2. Stick the installation sticker on the position to be installed, punch holes according to the circle on the sticker, and insert the equipped expansion nail.
This detector can also be installed on the embedded standard 8`6 box, so this operation is not required.

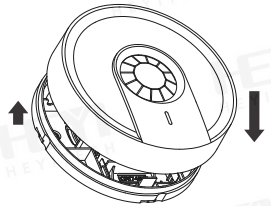


3. Hold the two movable buckles backward, take off the circuit board, and set the installation easy hole position of the lower cover
Align the expansion screw and secure it with the supplied screws.





4. put the circuit board back to the lower cover, and install the battery.



5. Align the upper cover mounting countersign with the lower cover mounting countersign, close the lower cover, and rotate the upper cover clockwise.

❷ Instructions

After installing the detector, the indicator light flashes each second, and the detector enters the initializing. After 60 seconds, the indicator light stops blinking and the detector enters the normal monitoring state. At this time, the user can conduct a walking test in the covered area, the LED indicator light will be on, and the detector will send a wireless alarm signal to alarm panel. The user can adjust the installation position of detector according to the need to obtain the best detection effect. LED jumper is ON/OFF whether the LED indicator light is indicating, which does not affect the normal operation of the detector.

> Battery Testing and Replacement

- 1. The detector can periodically detect the working condition of its battery voltage: when it finds the battery low voltage, it will report the battery low power information to the alarm panel.Under low battery status, the detector can still work for a period of time, and the green light will blink each 15 seconds, indicating the low battery of the detector and the need to change the new battery.
- 2. During the self-test of the detector on power, the battery capacity will be detected. When the battery voltage is insufficient, the detector will enter the protection state, and the green light keeps flashing, so the detector will be unable to work.At this moment the user must replace to new battery.

> Attention

- 1.Please install and use the sensor correctly according to the instructions. Do not touch the sensor surface to avoid affecting the detector sensitivity.
- 2. Avoid using in an environment where the temperature changes too much in a short time to reduce the occurrence of false positives.
- 3. When using this detector for the first time, the user shall insert the short-circuit cap on the selection needle of detection distance into the TEST jumper, short-circuit for 3 seconds, and then put the short-circuit cap back on the selection needle of detection distance.It is recommended that the battery should be replaced once a year, and the above operation should be repeated when replacing the battery.
- 4. This product can reduce the occurrence of accidents, but it cannot be guaranteed to be foolproof.For your safety, in addition to the correct use of this product, in the day often also need to be vigilant, strengthen safety awareness.
- 5. The influence of the wireless range: Our company's nominal wireless communication distance are open environment test values, for wireless communication distance by the geographical environment, climate conditions, the electromagnetic environment, effective height of antenna, the installation position, the influence of such factors as possible with the nominal open distance is relatively big difference before use, please test carefully, to ensure reliable wireless communication distance.