

HEXA Intelligent PIR Detector

1. Introduction

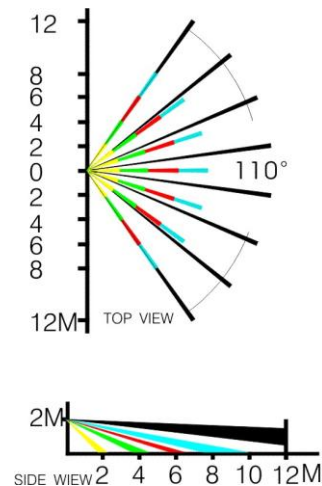
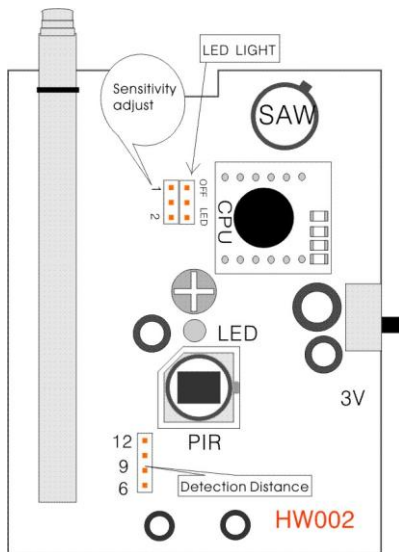
The Intelligent PIR Detector is a passive infrared intrusion detector which adopts energy-saving logic processing and random digital DMT micro-processing technology. The PIR parts adopt refined Fresnel Lens and advanced arch design to upgrade receiving effect, higher sensitivity but lower false alarm. Cooperate with advanced patent software and multi-shielding technology it has overcome the interference that common detector can't prevent, and it won't trigger false alarm or miss alarm. The detection pulse is optional, and with its digital dual line auto temperature compensation, it can be suitable for various kinds of indoor circumstances. The PIR is with unique power-saving mode, it can be used for a long time of as twice as the other brand detectors.

2. Specification

Detection Distance: 2m to 12m; Transmit Distance: 30m to 50m Operating Voltage: 9V

Operating Current: 20mA(alarmer), 60μA(standby) Transmit Frequency: 433/315MHz

White Light Immunity (indoors) : > 6500 LUX



3. Operating temperature: -15°C to 50°C

4. Storage temperature: -20°C to +60°C

5. Installation: Installation height: 1.8m / 2.4m optimum

Installation angle: 12 deg multi angle bracket

6. Guidelines for Installation

The model is suitable for indoor use only. Do not install it outdoors. The direction of the detector is best to be vertical with that of human walking. Avoid being horizontal. Keep regular checking for the battery, and if necessary, replace it in time.

When there are missing alarms: Enlarge detection distance (set the slip switch to 9m or 12m), and increase the sensitivity

When there are false alarms: Reduce detection distance (set the slip switch to 6m or 9m), and decrease the sensitivity.

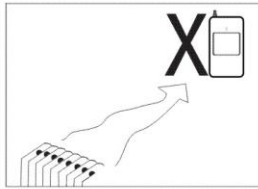
7. Setting Information

1. Jumper LED OFF: When on position OFF, no power saving function; when on position LED, power saving function

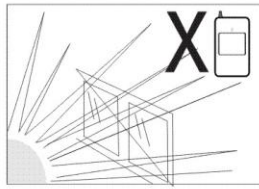
2. Sensitivity is adjustable according to different detection range. 1: higher sensitivity 2: lower sensitivity

3. Detection range is adjustable according to different circumstances. 6m, 9m, or 12m

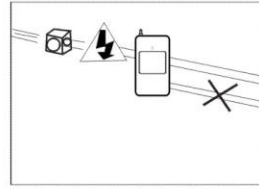
4. If there are continuous human activities within the detection coverage, the PIR would detect every 10 seconds and send out the alarming signal. After 3 successive times, it will stop transmitting and enter power-saving mode. Only after confirming that there is no human activity for 50 seconds continuously, the detector will then start up the detecting model again.



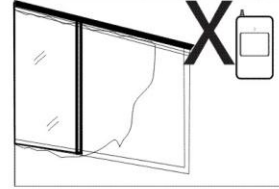
Don't face cold or heat directly



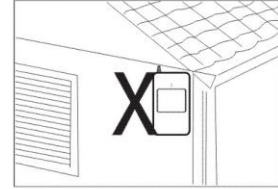
Don't face the sunshine directly



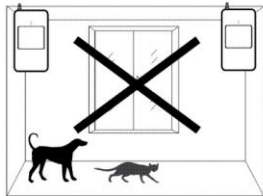
Do not install near electric cables



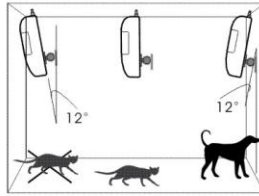
Don't face the fluttering curtain directly



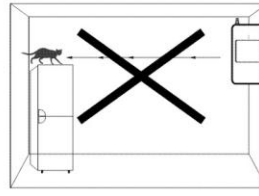
Don't install outdoor



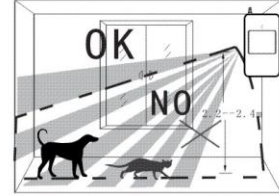
Do not detect the same area



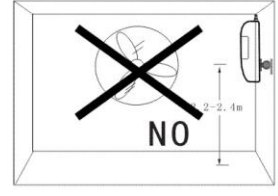
Anti-pets angle



Never face to the place that pests can climb up directly



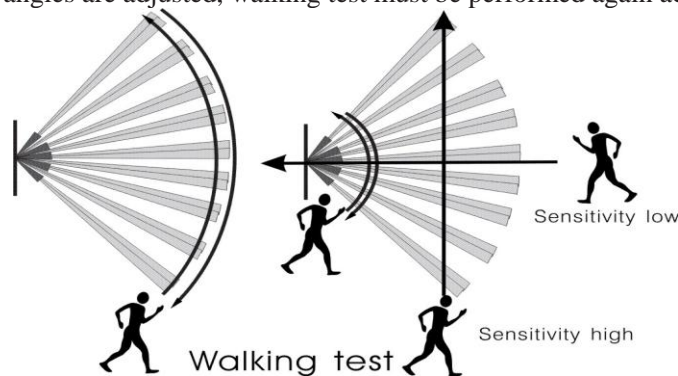
The upper part of the detection area is anti-pet area



Donotface the strong airflow

8. Perform walking test to the detection area

1. Start the test at least 2 minutes after connecting power supply
2. Walking breadthwise at the remote area of the detection coverage at the speed of 0.75m/s within 3m. It will trigger the detector and the LED lights for 2-3seconds. Alarm occurs.
3. Testing in different direction to confirm the two boundaries of the coverage, ensure the detector is appointed to the central desired area.
4. Repeat step 2 and step 3 at the near area of the detection coverage.
5. The center of detection zone should not uphill incline. To obtain a good detection range, please adjust the vertical detection range, Ensure the detector is in a correct position.
6. After detection angles are adjusted, walking test must be performed again according to the above steps.



Notes:

1. Every time you connect power supply, the PIR needs 2 minutes to cognize and adapt to the environment around. Don't test it during the period.
2. If there are continuous human activities within the detection coverage, the PIR would detect every 10 seconds and send out the alarming signal. After 3 successive times, it will stop transmitting and enter power-saving mode. Only after confirming that there is no human activity for 50 seconds continuously, the detector will then start up the detecting model again. The product can be widely used in bank, super market, and so on.

9. The Low Battery Voltage Display and Solution

When the battery of PIR has a low voltage or the voltage is not very stable, it may result in missing and false alarms.

1. The LED flashes every 5 seconds as low voltage
2. The detector transmits low voltage signal to the panel
 - A. When detecting human activity, the detector transmits both alarm signal and low voltage signal to the control panel.
 - B. When non-human activity, the detector transmits low voltage signal to the control panel every other hour.

Note:

The second function only available for the panel which has battery low voltage displaying and alarming function.