



Curtain PIR Motion Detector

PIR-800

User Manual

Introduction

The detector works based on detecting human body's infrared spectrum. When human moves within the scope, the detector receives the signal and inputs it into microprocessor after magnification. Microprocessor continues to sample infrared signal and send wireless signal to wireless control panel after calculating, thus to form a security system. The product can be applied in balcony, window, door and corridor etc.

Features

Accurate Detection

Digital dual-core fuzzy logic infrared control processing technology

Effectively identify interference signals from body movement signals through intelligent analysis

Compact Design

Small in size, not much space occupation

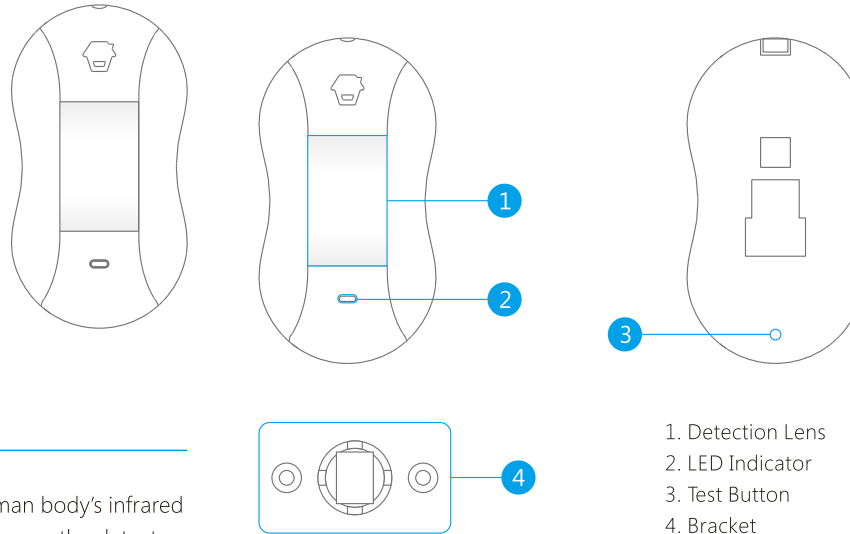
Flexible Installation

Ceiling mounted or wall mounted for option

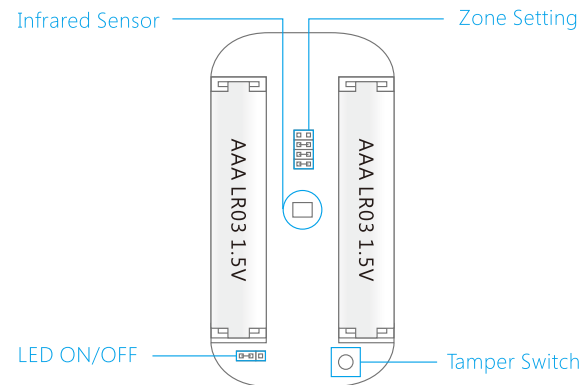
Energy-saving

Featured energy-saving mode enables 1 year standby

Product Overview



PCB Layout



Infrared sensor: Detecting human body's infrared spectrum.

Don't touch the surface by hand and 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.

LED Indication

The LED indicator can be turned on or off by setting jumpers. See "PCB Layout" above.

Flash continuously: Under self-testing state

Flash once: Intruder is detected

Flash twice: Testing mode is finished, enters power-saving mode.

Flash once every 3 seconds: Undervoltage indication, please change the batteries immediately.

Usage

Remove the battery activation strip to activate batteries. It will enter working state after one-minute's self-testing.

Mode Setting

Testing Mode: press test button, the sensor enters testing mode and detects once every 10 seconds. After 3 minutes, the LED flashes twice, the sensor enters the power saving mode.

Power-Saving Mode: In working state, if the sensor is triggered 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 state.

Installation & Notice

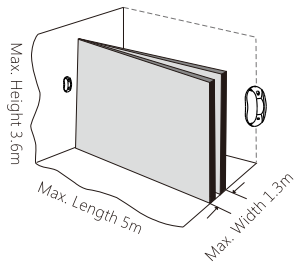
Wall-mounting:

Fix the bracket longitudinally on the wall, and put the detector on the bracket. Choose to mount it at the entry and exit where intruder possibly breaks into. It is suggested to mount it at the height of 2m from the ground.

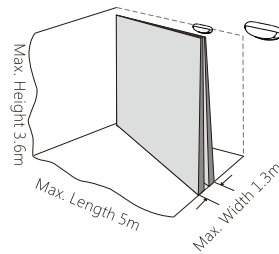
Ceiling-mounting:

Fix the bracket laterally on the ceiling upper the door or window, and put the detector on the bracket.

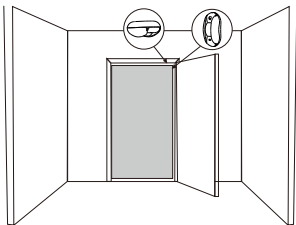
Mount on wall



Mount at ceiling



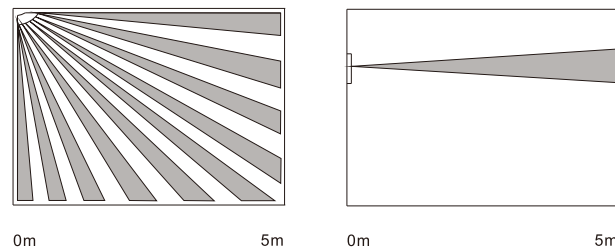
Mount at door



Note: make sure the detection direction towards interior both installed on wall and at ceiling. Adjust the bracket angle to optimize the detecting effect.

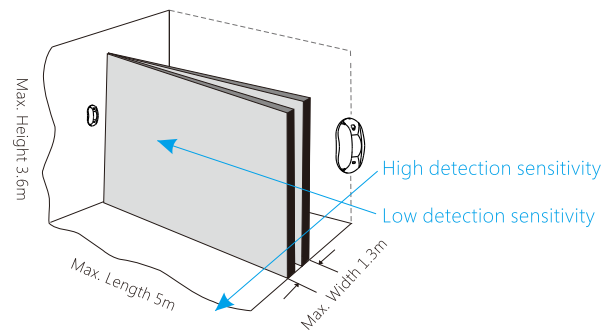
Avoid mounting the detector close to air conditioner, electronic fan, refrigerator, oven, heater and objects which will cause fast temperature changing, and avoid mounting it in direct sunlight. Avoid any objects blocking the lens, so as not to influence the detection effect.

Detection Range



Testing (Walk Test)

After installation, power on the detector. After self-testing for 1 minute, press the test button, walk in the scope by crossing the infrared spectrum (see below diagram), and watch the LED indicator to make sure it is working. The LED indicator will flash once when body movement is detected.



Connect with the Control Panel

When the control panel is in connecting state, press the test button twice to send wireless signal. One beep is heard after panel receives signal, which means successful connection.

Arm the system, trigger the detector again. The panel will alarm immediately. This indicates the detector has successfully connected with the panel.

Specifications

Power Supply: DC 3V (AAA LR03 1.5V Battery x 2pcs)

Static Current: < 21uA

Alarm Current: < 22mA

Detection Distance: 5m

Curtain Detection Angle: 15°

Transmitting Distance: < 80m (in open area)

Radio Frequency: 315MHz or 433.92MHz (±75KHz)

*Only 433.92MHz is available for Europe

Housing Material: ABS Plastic

ERP(dBm) Max.: -14.81

Operation Condition

Temperature: 0°C ~ +50°C

Relative Humidity: < 80% (non-condensing)

Detector Dimensions (L x W x H): 48 x 33 x 88mm

Mounting Plate Dimensions (L x W x H): 52 x 30 x 11.6mm

CE Declaration of Conformity

Hereby, Chuango AIoT GmbH declares that the radio equipment type PIR-800 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

https://www.chuango.com/english/compliance_PIR-800

INFORMATION FOR THE USERS

At the end of its life, the device has to be separated from the other waste. Consign the device and all its components together to a center of electrical and electrotechnical waste recycling center, designated by your local authorities.

2006/66/EC and its amendment 2013/56/EU (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.