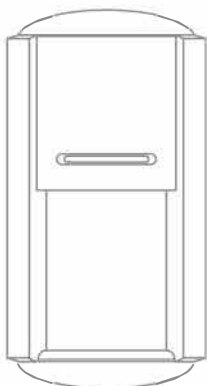


Intelligent Triple Technology P.I.R. Motion Detector (Outdoor Use) User Manual



The product is a triple technology detector composed by microwave, passive infrared and artificial intelligence, and it works based on detecting human body's infrared spectrum and microwave Doppler effect. The product uses special optical filter and advanced signal analysis and process technology, it is provided with waterproof function, being suitable for outdoor usage. The product can be applied on banks, warehouses and homes etc.

Features

- MCU processing
- Pulse count optional
- Special optical filter lens, white light immunity at 10000 lux
- Waterproof special for outdoor environment
- Insect immunity
- Doppler effect & energy analysis
- Microwave detection range adjustable
- Temperature auto-compensation, avoiding false alarm
- Differ intruder signal from interference signal
- Pet immune up to 20kg

Specification

- Working Voltage: 12V
- Working Current: ≤ 30 mA (DC 12V)
- Detection Range: 12m x 12m
- Detection Angle: 110°
- Infrared Sensor: Dual element low noise pyroelectric infrared sensor
- Microwave Antenna Type: Patch antenna by GaAs FET dielectric oscillator
- Microwave Frequency: 10.525 Ghz
- Warm-up Time: ≤ 60 sec
- Operating temperature: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Size: 153mm x 80mm x 58mm

Infrared Sensor

Detects the infrared rays released by human body motion. Please do not touch the surface and keep it clean.

LED On Jumper

It is used to control LED indication without interference to detector. LED on jumper can be interrupted after testing for concealment.

Tamper Switch

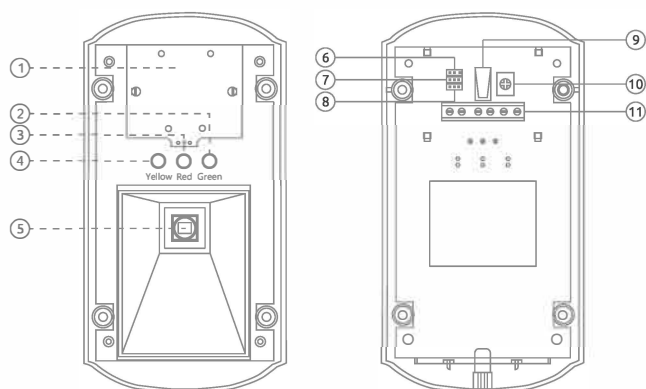
Once the case is opened in the detector's working state, the tamper switch will be triggered, generating an alarm signal.

Microwave VR

It is used to adjust the detecting range of microwave according to customer's request. Default setting: the largest detection range.

Status Indicator

- Green LED On: Red infrared triggered.
- Yellow LED On: Microwave triggered.
- Red LED On: Alarm activated.



- 1.Microwave Module
- 2.Green LED
- 3.Red LED
- 4.Yellow LED
- 5.Infrared Sensor
- 6.P.COUNT Jumper

- 7.RELAY Jumper
- 8.LED On Jumper
- 9.Tamper Switch
- 10.Microwave Potentiometer
- 11.Terminal Block

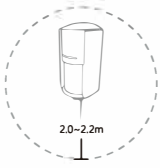
Using the P.I.R. Motion Detector

Enrolled to Control Panel

When the control panel is in enrolling state, trigger the detector to send an alarming signal, the enrollment is successful after one beep is heard and LED light flashes once. The detector is set in 24 Hour Zone7 as default.

Installation

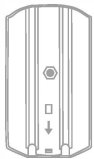
1. The triple technology detector should be installed in entry or exit which intruder can easily enter. Keep detection window at the below. The fixing height is about 2~2.2 from the ground.



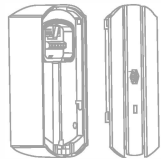
2. The detector is more sensitive to cross-movement than to direct movement. The performance of detector is optional when detection direction is across the walking direction of intruders.
3. Loose fastening screw by screwdriver and open the case of detector.



4. Slide the base, and remove it from the cover plate.



5. Mount the base to the wall with screws.



6. Attach detector on the base and slide it down.



7. Fasten the detector case by screw.



8. Adjust installation height or bracket (highly recommended to be used) to change the detection distance and angle.

Testing and Usage

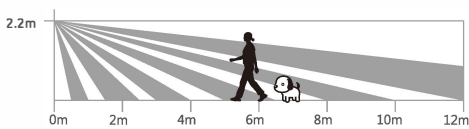
1. With 12V power supply, the detector is in self-testing state and red LED flashes; The LED goes off after 60 seconds and the detector is in working state.
2. Walk across detection area and watch the LED indicator to make sure the red LED light up when detecting the movement.

Notice

1. Avoid mounting the detector close to places where heat changes fast or air stream flows frequently. (ie. Air conditioner, tube light, oven, waver, refrigerator etc.)
2. Do not install detector in the area where vehicle pass through frequently, or the position easy to be blew by wind, such as swing sign, tree etc.
3. Avoid any object obstructed in front view of the lens of detector.
4. Make sure that the installation is steady.
5. The product can reduce the possibility of accident, but the user is advised to take all necessary precautions for the safety and the protection of the property.

Detection Area

Side view



Top view

