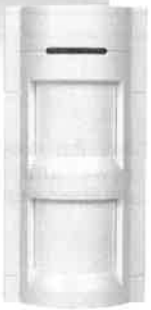
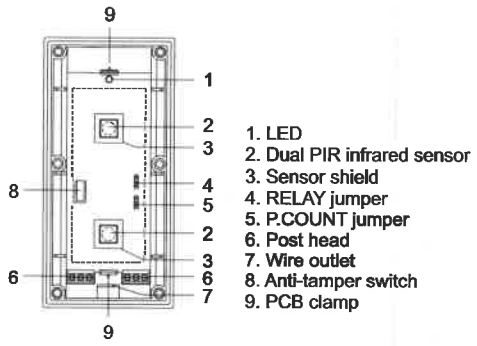
# OUTDOOR DUAL PASSIVE INFRARED DETECTOR



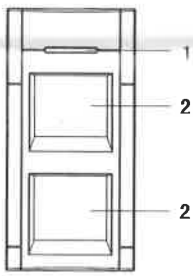
**This product complies with standards of People's Republic of China: GB10408.1-2000 and GB10408.5-2000.**

Outdoor dual passive infrared detector works based on infrared spectrum of human body. The product uses special filter lens and adopts advanced signal analysis technology, and it is provided with waterproof to be suitable to be used in outdoor environment. This product can be used in banks, housewares and houses etc.

## GENERAL VIEW




1. LED
2. Dual PIR infrared sensor
3. Sensor shield
4. RELAY jumper
5. P.COUNT jumper
6. Post head
7. Wire outlet
8. Anti-tamper switch
9. PCB clamp




1. LED
2. Lens

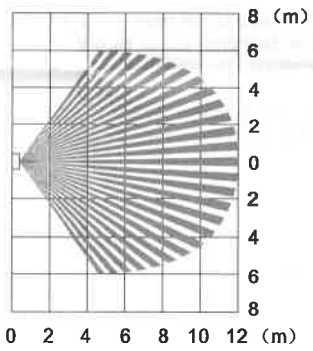
## MAIN FEATURES

- Adopt microprocessor
- Special filter lens, white light immunity 10000 Lux
- Waterproof function, being suitable for outdoor environment
- Fully sealed bug immunity
- Wide-angle lens and curtain lens optional for different locales
- Collect signals by dual sensor to avoid false alarm
- LED ON/ OFF optional, pulse count optional
- Temperature auto-compensation to adapt environment change
- Alarm output N.C./N.O. optional to adapt different alarm systems

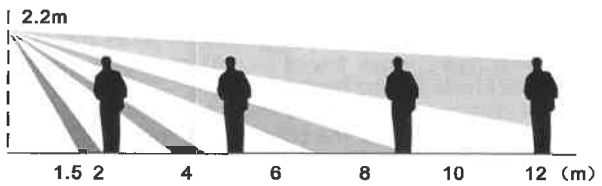
## TECHNICAL PARAMETERS

| | |
|---|---|
| Working voltage | 9~16V DC |
| Working current | ≤28mA(12V DC) |
| Detection distance | wide-angle lens 12m, curtain lens 8m |
| Detection angle | wide-angle lens 110° , curtain lens 15° |
| Sensor type | dual low-noise pyroelectric infrared sensor |
| Warm-up time | 60 sec |
| Pulse count | wide-angle 1P and 2P optional, curtain 1P only. |
| Mounting mode | wall mounting |
| Mount height | optimal height 2.2m |
| Operating temperature | -20℃~65℃ |
| Relay output | N.C./N.O. optional, contact rating 28VDC, 80mA |
| Anti-tamper switch | N.C. without voltage output, contact rating 28VDC,100mA |
| Size | 150mm×73mm×48mm |

## WIDE-ANGLE DETECTION RANGE FIGURES

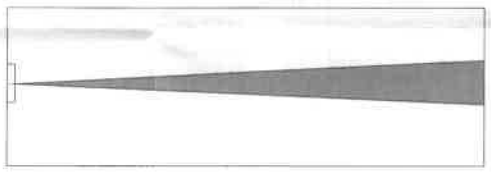



Top view

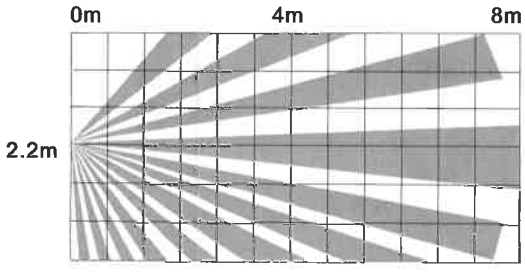



Side view

## CURTAIN DETECTION RANGE FIGURES




Top view




Side view

## USAGE

1. Connect 12VDC power supply, the detector begins warming up with indicator flashing, indicator stops flashing after 60 sec and detector enters normal monitoring state.
2. Test at normal walk speed in detection range, indicator is on and detector shall alarm. After 5 sec, indicator is off and detector shall enter monitoring state again.
3. RELAY jumper is used to set alarm output state, user can select different output state according to various alarm system, select 1&2 for N.C.(Normal Closed) state and 2&3 for N.O.(Normal Open) state. N.C. state is set in factory setting.
4. P.COUNT jumper is used to select pulse count. Select 1&2 for first class pulse, which is suitable for general outdoor environment; select 2&3 for second class pulse, which is suitable for atrocious outdoor environment.
5. LED jumper is used to control LED indicator, which will not affect normal output of detector. LED is on in factory setting.

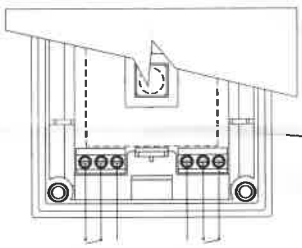
## INSTALLATION LOCATION AND NOTICES

1. Avoid mounting the detector in the following place:
★ Where vehicles pass through.
★ Where have objects easy to be blown, eg .hanged signs, tree.
2. Avoid mounting the detector close to objects that can rapidly change the temperature, eg, air condition.
3. Do not place objects in front of the lens.
4. Mount the detector in a place which is most likely to sense intruders, should there be crossed. The recommended height is 2.2m.
5. The indicator should be mounted above the lens.
6. Do not put the surplus wires in the detector.

## INSTALLATION

1. Take down the bracket from the detector.
2. If mounting on the wall, fix the bracket on the wall by screws; if mounting at the corner of the wall, knock out 4 mounting holes on the bracket and fix the bracket on the wall by screws.
3. Take out 6 screws and 6 waterproof pads from the bottom of the detector.
4. Open the top cover of the detector, connect wires according to the wiring figure, close the cover, tighten screws and put 6 waterproof pads into the detector.
5. Insert waterproof pads into wire outlet and fix them.
6. Insert the detector into the bracket, put surplus wires in the bracket notch.

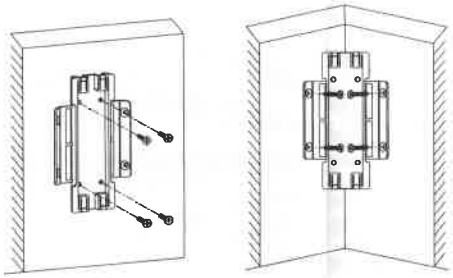
## TERMINAL BLOCK FIGURE




+12V: anode of DC power
GND: cathode of DC power
ALARM: relay output terminal
TAMPER: anti-tamper switch terminal

## INSTALLATION FIGURES

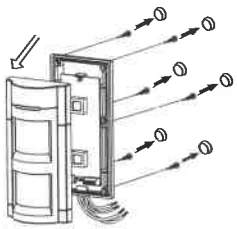
1



Wall mounted with bracket

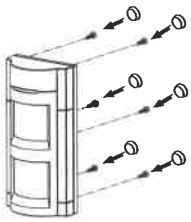
Corner mounted with bracket

2



Fetch 6 waterproof pads, loose screws, open top cover, and connect power line.

3

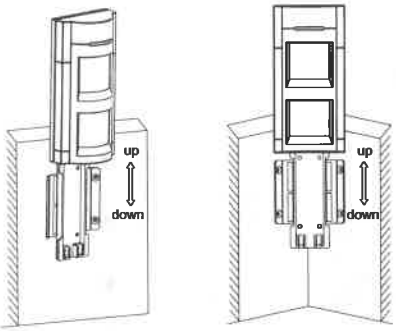


Close top cover, tighten screws and put in 6 waterproof pads.

4


Plug waterproof pads in wire outlet and fix them.

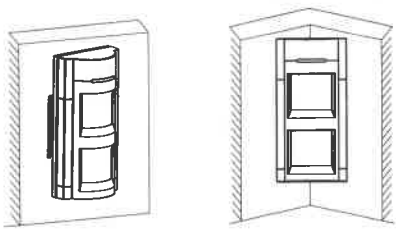
5




wall mounted corner mounted

Encase detector in bracket according to the arrow direction.

6



Finish mounting.

## NOTICES

1. Please mount and use according to this manual, do not touch the surface of sensor, if the detector needs a clean, a soft cloth with alcohol can be used after turning off power supply.
2. Yearly testing is required to ensure proper operations of this detector.
3. Though this product can reduce accidents, it may not perform as expected occasionally. The user should enhance safety consciousness in daily life besides using this product.