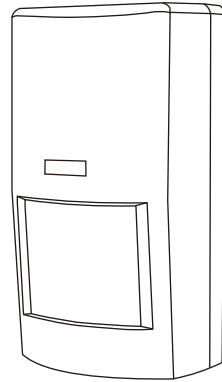


# Passive infrared detector

## Installation instructions

### 1. INTRODUCTION

This is a three-dimensional spatial passive infrared detector, by a two-element passive infrared sensor with advanced control and processing circuit technology to optimize the signal detected by the sensor. It has very low leakage alarm and false alarm, and adopts bidirectional temperature compensation technology to complete intrusion motion detection in a wide temperature range. Also adopted a unique pet weight, size calculation method, pet protection level up to 25 kg. In addition, the thermal airflow resistance, curtain swing and other false moving objects also have good performance, its performance and stability far beyond the market at the same price of infrared detectors. At the same time, the detector also provides the installation user with NO/NC output selection mode, which can be directly used to activate THE CCTV system and access control system. The detector can be used in a variety of indoor situations, such as warehouses, hotel rooms, offices, etc.



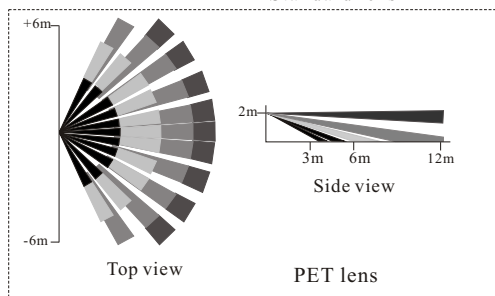
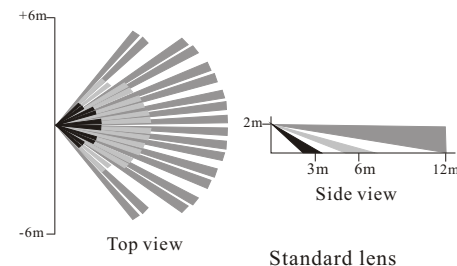
### 2. BRIEF INTRODUCTION

- Dual passive infrared detection technology
- Adopt intelligent processing technology
- Two passive infrared sensitivity adjustable
- Two anti-pet levels are adjustable
- Alarm output NO/NC Optional
- Complete SMT parts design

- Output hold time four options
- Unique full range temperature compensation
- Protection against strong EMI
- Anti white light interference
- Anti-pet rating: 25 kg
- Fully sealed optical fittings
- Detection range: 100° 12 meters

### 3. SPECIFICATIONS

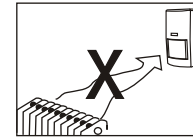
Power supply:	12-24VDC
Current:	15mA (Stand by)
Install high:	1.5m-2.4m
Coverage:	12m×12m 100°
Compensation:	hyperbolic
Alarm time:	2s/30s/1min/5min
Anti RFI:	0.1-1000MHz/30V/m
Anti EMI:	50000V
Anti-white light:	>10000Lux
Alarm output:	3A/220V
Tamper output:	200mA/125V
Temperature:	-10°C/+55°C
Humidity (RH):	95% (RH)
Anti-pet weight:	25Kg max
PIR Sensitivity:	2 level
Detect speed:	0.2m/s to 3.5m/s
Dimensions:	116mm×64mm×48mm
Lens type:	Wide angle standard lens Pet lens Curtain lens Long lens (35m)



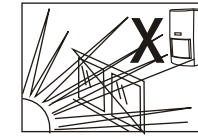
## 4. INSTALLATION GUIDE

### About Installation

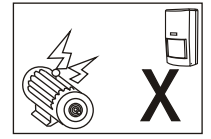
Select the best installation point fit for PIR technologies. Put detector onto the selected place and keep it away from door, window, running machine or heat sources.



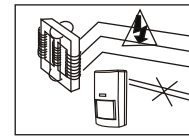
No direct facing cold /hot source



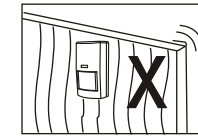
Don't face the sun



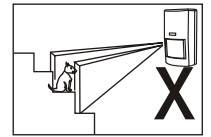
Keep away from strong interference



Keep away from high pressure power



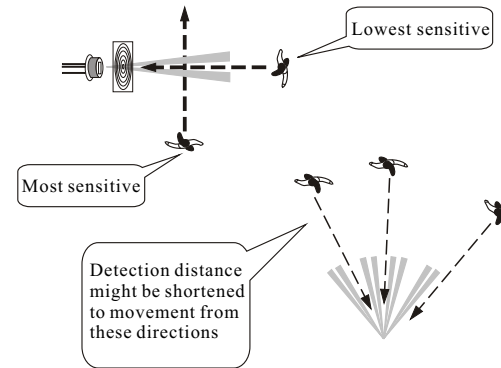
Installation base shall be stable



Install error

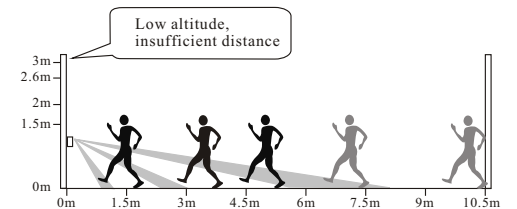
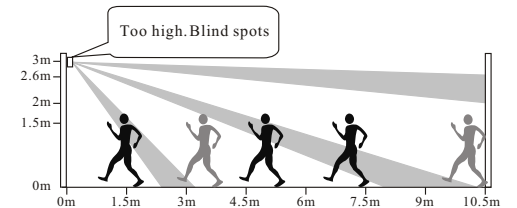
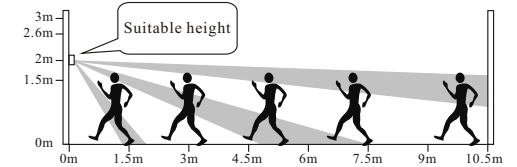
### About installation Angle

There is a physical difference in the Angle of intrusion.



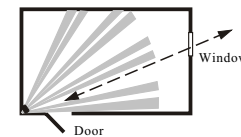
### About installation Height

The recommended installation height is 1.5-2.4m.



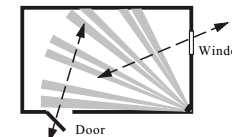
### About Installation Position

Unreasonable installation position



Detection is not sensitive to intrusion from window in this way

Best installation

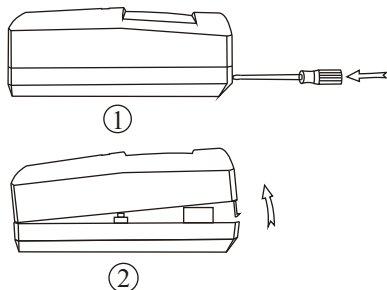


Detector is sensitive to intrusion from door and windows in this way

## 5. WALL FASTENING

### How to open the shell

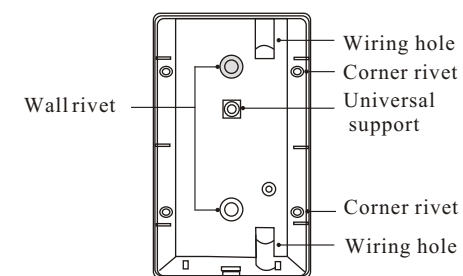
As shown on the bottom of the detector, a flat-head screwdriver can be inserted into the pinch position to open the detector case.



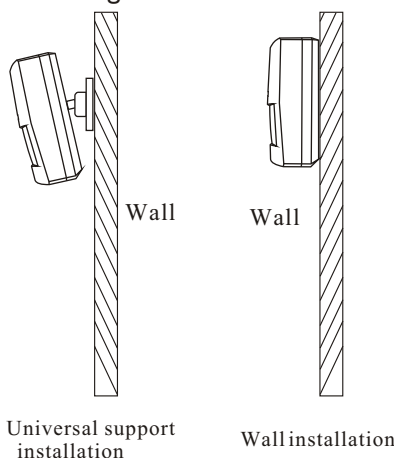
### Mounting steps

To get the best detection and defense coverage, the probe needs to be mounted vertically at a height of 2.1 meters, with no obstructing objects in front of the probe and a wide view. After opening the case, loosen the screws and remove the circuitboard. Cut a "wire outlet hole" and pass the wire through the outlet hole. First drill two holes on the wall according to the position of the 6mm impact drill bit, put the rubber plug, and then fix the detector bottom shell on the wall with self-tapping screws, and then lock the circuit board back on the bottom shell, connect the lead wire to lock the wiring terminal as required, and then cover the surface shell. Power on, during the initial 40 s of operation, the red LED flashes and the detector enters the state of "self-detection". When the red LED goes off and the self-detection is completed, the walking test can be carried out.

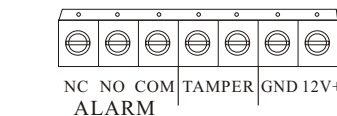
## 8. WIRE UP THE TERMINAL



### Wall hanging and bracket installation diagram



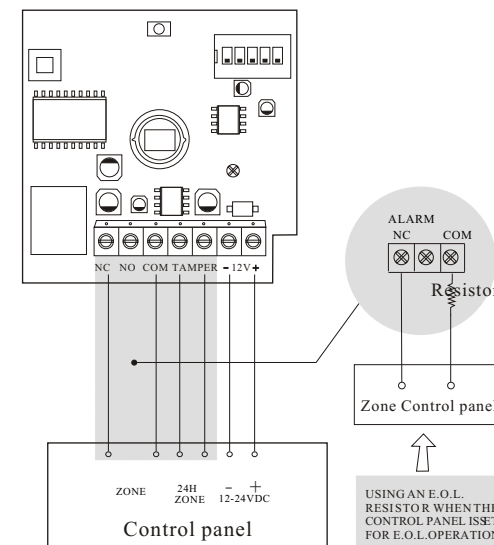
## 9. TESTING



**GND 12V+** Power supply 12-24VDC input, power flow minimum 50mA

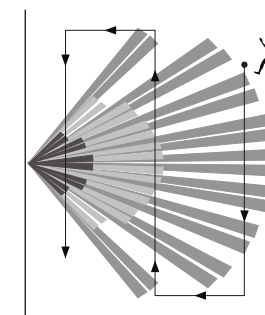
**NC NO COM** Alarm output, with normally closed normally open optional, select normally closed: normally closed under normal conditions, open when alarm; Normally open: Normally open and closed when alarming (can directly trigger access control system and CCTV system)

**TAMPER** The detachable is normally closed. When the detector is turned on, the alarm will be triggered.

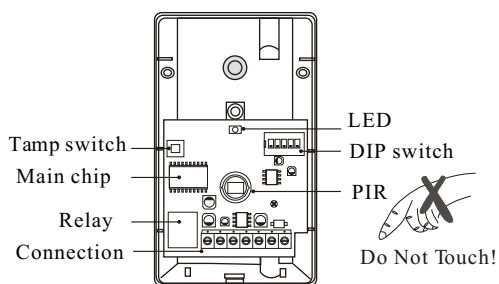


## 10. NOTES AND WARNINGS

After the installation, electrify the detector, the detector indicator light will self-check flashing for 40 seconds, self-check is completed, the detector can conduct simulated walking test. When the red LED lights are off, move horizontally with the detector in the detection area and view the PIR alarm state through the red LED, so that the detection range can be detected whether there is a dead corner. When moving horizontally in front of the detector, if the sensitivity of the detection area is too high or insufficient, the corresponding sensitivity can be adjusted to obtain the best detection effect.



## 6. PART EXPLAIN



After debugging, please use sealant (silica gel, glass glue) to seal the outlet hole to prevent insects from climbing in and causing false alarm or damage to the product.

## 7. SETTING

- DIP1 LED control
- DIP2 Anti-pet weight selection: ON=25Kg, OFF=15Kg
- DIP3 Sensitivity selection: ON= low sensitivity, OFF= high sensitivity  
When the product is set at low sensitivity, the detection conditions will be one and a half times more than that of high sensitivity.

- DIP4 Alarm output hold time
- DIP5

Hold time	DIP4	DIP5
2 seconds	OFF	OFF
30 seconds	ON	OFF
1 minute	OFF	ON
5 minutes	ON	ON

**WARNING!** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.