

WIRELESS INDOOR PIR DETECTOR WITH PET IMMUNITY

Installation Instructions

1. Product Introduction

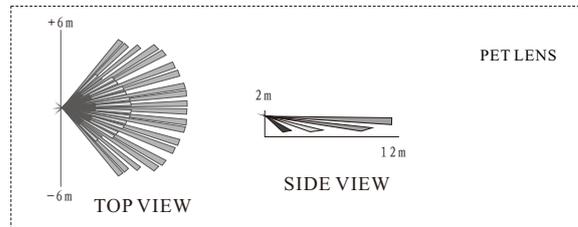
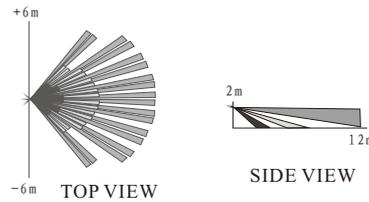
It is an intelligent wireless passive infrared detector by a dual-element PIR sensor matching advanced micro power consumption processing technology. It is very stable, few false alarm and missing alarm. This PIR detector adopts bi-directional temperature compensation technology, which can finish intrusion detection in a very wide temperature range. Its unique calculation way on pets alternative variety can help to avoid false alarm from small animal up to 20kg. Besides, its remarkable performance in anti hot air and faint moving objects such as window curtain swaying, can offer very stable detection by 2 sensitivity grades. Micro power consumption design makes its battery life expectation up to 24 months at least, its function and stability is much better than those detectors selling at similar prices.

2. Main function

- Super micro power consumption design
- 2 grade detection sensitivities for option
- Digital pet immunity design up to 20kg (when used with SUNLIT'S pet immunity lens)
- Bi-direction temperature compensation technology
- High capacity battery
- EDS/anti electric shock/anti mobile phone interference
- Anti white light
- With 18 Fresnel lenses with look-down window on 4 planes
- Well sealed optical parts
- Installation to corner, wall, multi-direction brackets

3. Parameter

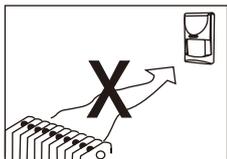
Power supply:	3.6V 1/2 AA Lithium battery
Current:	12uA (stand by), 15mA (In alarm), factory battery can support more than 24 months
Installation height:	1.5m-2.4m
Detection range:	12m*12m 100
Alarm output period:	2s
Temperature compensation:	intelligent digital compensation
Sensitivity:	2/3 pulses for option
Anti EMI:	0.1-500MHz/30V/m
Anti white light:	10000 LUX
Alarm output:	EV1527 or PT2262 available
Alarm period:	4 minutes (In USE mode)
Wireless TX distance:	200m in open area
Operation temperature:	-10 /55
Operation humidity:	95% (relatively)
Detection speed:	0.2m/s-3.5m/s
Fireproof protection:	ABS material
Pet immunity:	20kg
Size:	109*65*47mm (H*W*D)



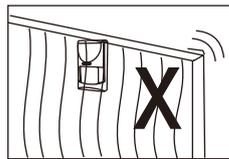
4. Installation guide

Choose the best installation position which matches PIR technology and put that onto it. Keep it away from door, window, running machine and hot source

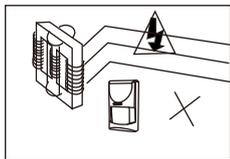
In order to get the best coverage range, detector should be installed at the height of 2.1m, and make vertical adjustment to position 2. In a word, detector can be installed to 4m maximally. Guarantee a wide view angle and no obstacle in front of detector.



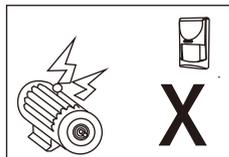
Detector should not face cold/hot source.



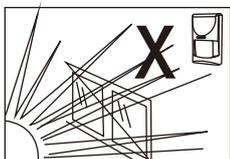
Installation foundation should be very stable



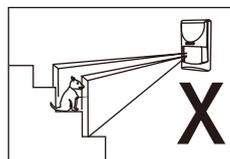
Installation should keep away from high-pressure cable.



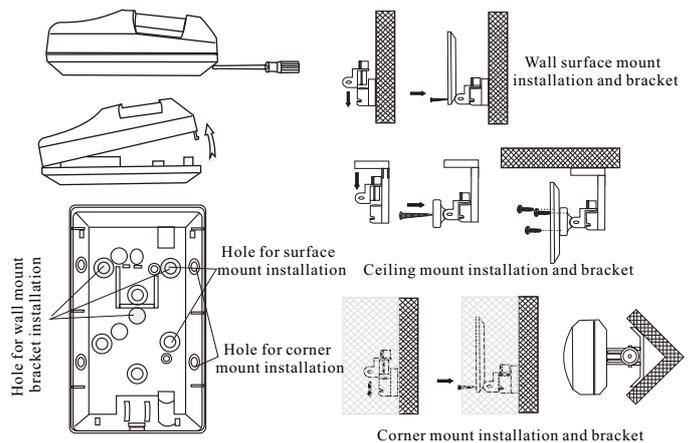
Take care of strong EMI interference.



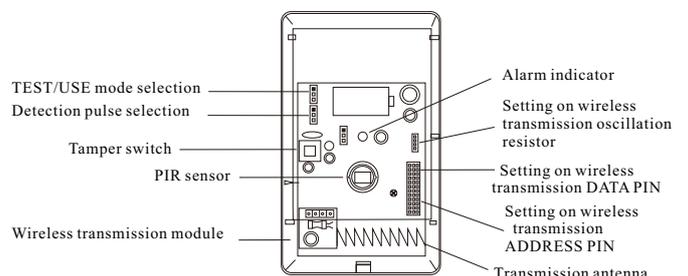
Installation should not face directly to the sunshine.



Wrong installation



5. Introduction on internal parts



6. Various settings & walking test

TEST/USE mode switch

When jumper switch is in TEST MODE, detector can detect intrusion signal any time

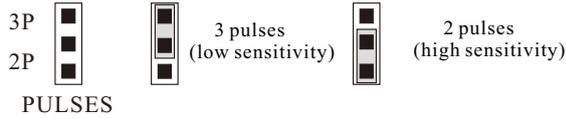
When jumper switch is in USE MODE, it will take detector 4 minutes to get 2nd alarm signal (This is just to save battery energy, it is the recommended setting)



Setting on detector sensitivity pulses

When jumper switch is set to mode of (2 pulses), detector is set to high sensitivity, basically 2 pulses will trigger alarm

When jumper switch is set to mode of (3 pulses), detector is set to low sensitivity, only more than 3 intrusion pulses can trigger alarm



LED control

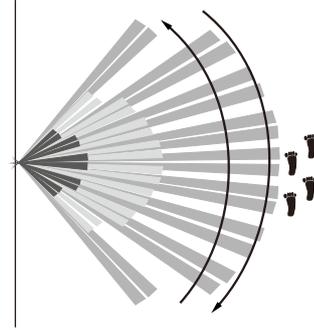


walking test

Set detector to TEST MODE, set LED to ON status and closed the front cover, perform horizontal movement in the detection area after LED turns off, you can get the detection status on PIR by the red LED (During alarm, red LED will flash 2 times continuously). This step can confirm whether there is detection dead angle in protected area or not, for PIR is the most sensitive when movement to PIR is horizontal.

In addition, PIR sensitivity can be adjusted properly in different environment installation. Sensitivity is set to 2 grades: 2 and 3 pulses. When 2 pulses is set, detector is with high sensitivity, when 3 pulses is set, detector sensitivity is low relatively, so normally please set it to 2 pulses.

After test is finished, you can turn off alarm LED or keep it as (ON). Strong suggestion: set detector to (USE MODE) and (LED OFF MODE) in order to extend battery life.



7. PCB adjustment

The best detection can be reached by vertical height setting of PCB, suggest installer make the optimum setting on PCB vertical height according to actual environment.

PET- When PCB is set to this mode, detector can get the strongest pet immunity function

NORMAL- When PCB is set to this mode, detector is in the most standard status.

ANTI-CRAWL- When PCB is set to this mode, ambitious crawling intrusion can be avoided effectively, but at this mode, pet immunity function will dropped down slightly.

