

Intelligent Wireless Outdoor PIR Detector

Installation Guide

1.General Introduction On Outdoor Application

This detector is remarkable in function, but the following notices can make it more stable if installer can pay attention to them:

SUNSHINE
Direct or reflective sun light is no good for detector operation, try to avoid them during installation. Our outdoor PIR adopts double-layered screen light sensing system, which is very effective for screening of interfering light.

WEEDS
High weeds and shrubbery in detection range may wave in wind and cause false alarm, especially for those detectors operating in horizontal fan area, so keep cutting on weeds and shrubbery.

RAIN
Sudden rainstorm can cool the hot pitch road or surface of other roads quickly. And all detectors can detect rain in the sky, but detector with down view window can even detect water on ground, which will bring much more interference to detectors outdoor than that mounted on wall, so everything will lower its temperature similar to water, human body or cars after pouring from rain can offer very little temperature gap for detection, so sensitivity will be lowered a lot.

INSECTS
Insects will trigger false alarm when they climb into detector or stay on lens, while those staying away from detectors can't trigger alarm. If there is interference from insects, please re-install detector or use insecticide. And please adopts strictly sealed components on those drilled holes or glass glue around detector.

CAR
Moving car in detection range may trigger false alarm to detector.

INSUFFICIENT TEMPERATURE DIFFERENCE
Detector is sensitive to change from temperature difference in detection area, if target temperature is very close to previous environment temperature, there will be no temperature change, detector sensitivity will be lowered and will not be triggered sometimes when there is intrusion.

DIRT ON LENS
Lens becomes easily dirty when used outdoor, so please check the lens from time to time in order to avoid alarm miss caused by low sensitivity from dirty lens.

UNSTABLE INSTALLATION BASE
Detector will trigger false alarm easily if installation base can be interfered by vibration, this is the reason why some detectors installed near to street can cause false alarm easily.

2. DISCLAIMER

I. Product limitation
This wireless detector is a highly qualified product worthy of trust, but below situations might appear in radio transmission and certification limitation (FCC or other principles):
A. Whatever code is selected, control panel may be blocked caused by interference from radio signal or wave in similar frequencies.
B. Control panel can only receive an alarm signal from 1 detector in 1 time.
C. Make regular tests on radio devices in order to confirm interference is not from them and guarantee its stability

II. Frequencies distribution in Europe
315MHz Limited in all EU members
433.92MHz No limitation in EU members
868.95MHz Allowed in all EU members
869.2625MHz No limitation for all EU

III. Standards
This device is certified with 1999/5/EC standards and index on radio and telecom terminal devices, 315MHz module is certified with 15th part of FCC standard, operation must follow below conditions:
(1) This device should not organize harmful interference

(2) This device must obey any interference source, including those may cause improper operation. Operator should not change the product at random, manufacturer not suggest or allow user to make modification on product except for those operation approved by FCC. Digital circuit of this product has passed test lab's test and follow B grade digital instruments standard; it is coherent with article 15 of FCC, these limitations offer protection to nocuous interference from family devices. This device mainly produce radio transmission power, improper installation may cause nocuous interference to TV or other radio devices. And also, there is no guaranty of nocuous RF interference after each installation. If device cause interference, can be recognized by switch on/off, user can lower interference by following steps:
- Re-adjust or place position of antenna on receiver
- Enlarge distance between transmitter and receiver
- Turn to professional people or sellers.

3.Introduction on Products

This is a digital wireless motion detector with remarkable functions, it can avoid outdoor interference from sunshine, UV & RF, head light on car etc and is highly effective for water/dust/insects/ wind proof. It is matched with follow advanced technology: direct calculation and analysis technology from intelligent high-speed microchip to intrusion infrared signal, double polarity test technology, automatic temperature compensation technology, direct adjustment technology to sensitivity on digital signal, filtering technology from multi-layer infrared channels to mixed light. Its particular calculation on pets chargeable data can avoid false alarm caused by 20kg small animals effectively. At the same time, it is also outstanding in anti hot air, waving curtains etc, can offer forced test on the base of 2-grade sensitivities. Its unique low-power-consumption solution can offer a guaranty of 24 months' factory battery life expectancy. In a word, this detector is advanced and stable enough to offer best security Protection indoor and outdoor with its IP65 water proof structure.

4.Main Function

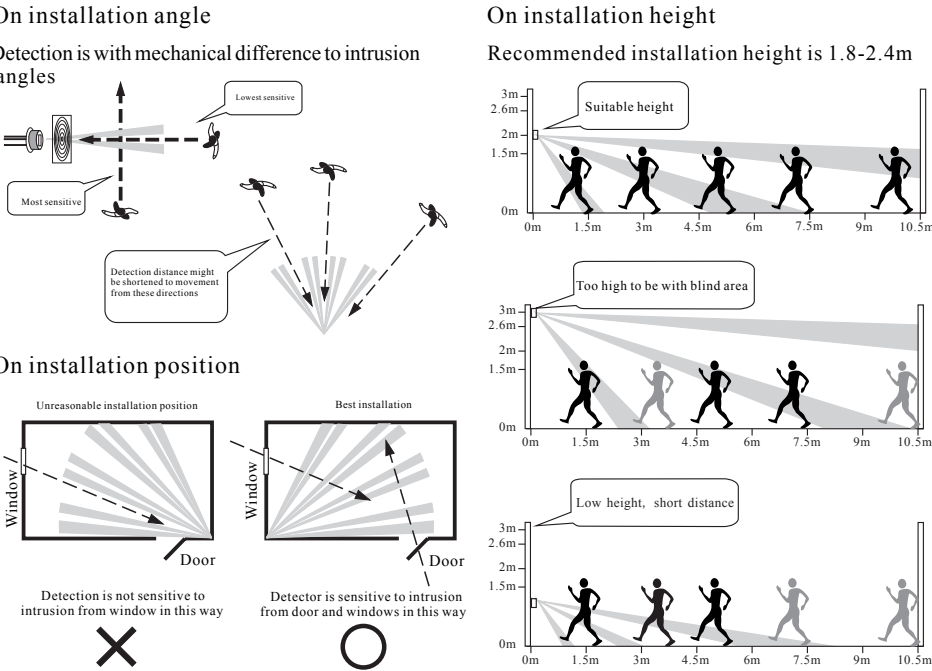
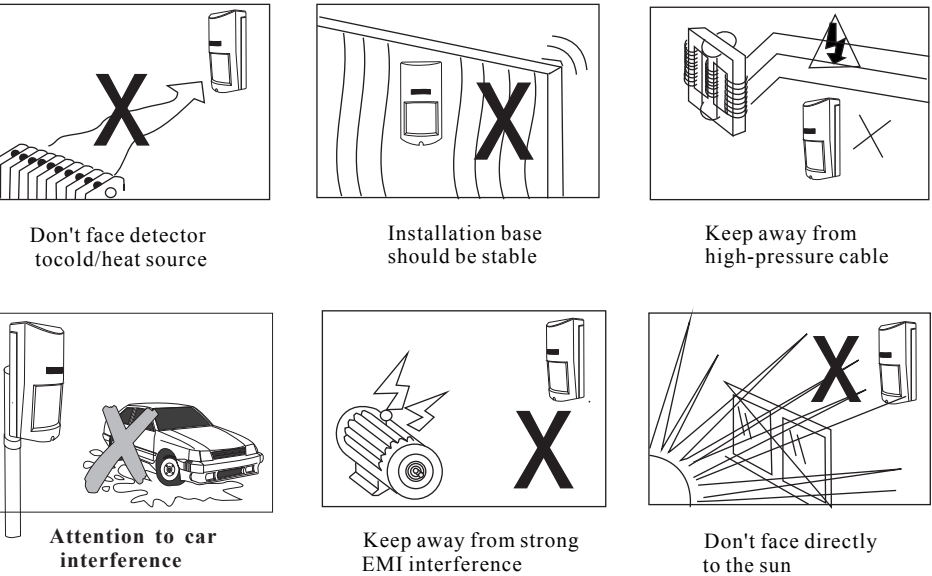
- Super mini power-consumption solution
- 2 grade sensitivities for option
- Digital pet immunity up to 20kg
- Bi-directional temperature compensation
- High capacity battery (24 months guaranty)
- EDS/electric shock proof/mobile interference proof
- Anti white light
- Low voltage alarm
- Fully sealed optical parts
- Multi-direction bracket fit for corner/wall/ceiling mount

5.Technical Parameter

Power	: 3.6V 1/2 AA Lithium battery
Current	: 12uA (stand by) 15mA (alarm)
Mount height	: 1.8m-2.4m
Detection range	: 12m*12m 100°
Temperature compensation:	digital
Sensitivity	: 2/3 pulses for option
Anti EMI	: 0.1-500MHz/30V/m
Anti white light	: >10000 LUX
Alarm output	: EV1527 or PT2262
Alarm time	: 2s
Alarm interval	: 4 min (USE mode)
Wireless distance	: ≥200m (open space)
Frequencies	: 315/433MHz
Operation temperature	: -10℃/+55℃
Operation humidity	: 95% RH
Detection speed	: 0.2-3.5 m/s
Fire proof	: ABS plastic
Pet immunity	: 20kg
Size	: 148*75*54mm

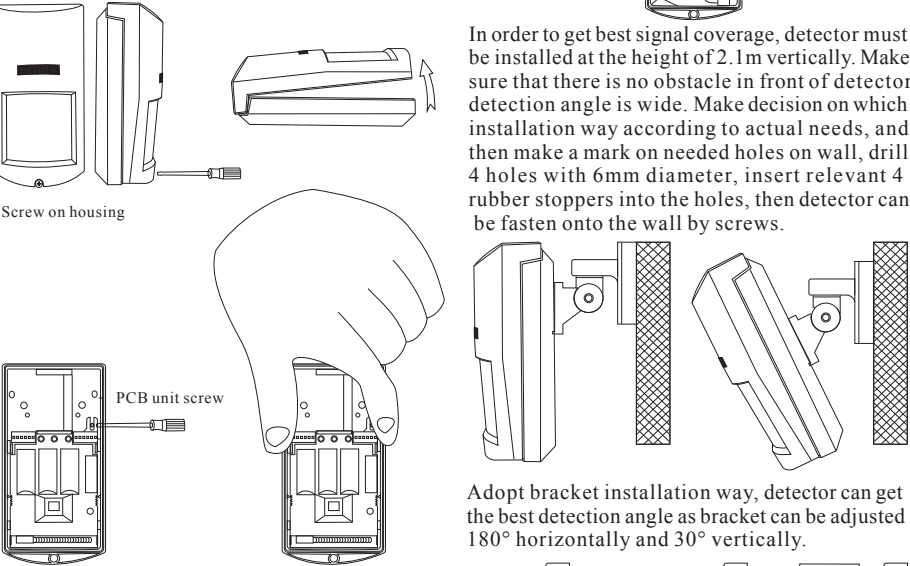
6. INSTALLATION GUIDE

Select most suitable installation point fit for PIR detection, put detector onto proper position, keep away from door, window, running machine or heat source.



7.Installation & Bracket

Wall mounting
Use a cross-type screw driver to loose screw at bottom of housing and open covers as figure, and then move down PCB unit, then installation can be ready to start.



Loose PCB unit screw as figure, press down the buckles with 2 fingers, PCB unit can be taken down. Then detector can be installed according to actual needs.

8.Internal parts

