## Installation Instructions

## WIRELESS INDOOR PIR DETECTOR WITH PET IMMUNITY

## 1.Product Introduction

It is an intelligent wireless passive infrared detector by a dual-element PIR sensor matching advanced micro power consumpfion 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 20 kg . 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
grade detection sensitivities for option
Digital pet immunity design up to 20 kg
(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



## 4.Installation guide

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



Installation foundation
should be very stable

nstallation should keep awa from high-pressure cable.


Take care of strong
EMI interference.

nstallation should not face directly to the sunshine.

## Installation angle

Detector sensitivity is with great difference with intrusion angle


## Installation height

Recommended installation height is $1.8-2.4 \mathrm{~m}$


Installation position


## 5.Installation and internal parts

## Wall mount

Please insert a small slotted screw driver to open detector as figure, and then loose the screw on PCB by a small screw driver (don't need to take off completely), take out PCB and then detector is ready to be installed


In order to get best detection range, detector must be installed onto 2.1 m high vertically. In a word, gurantee that there is no obstacle in front of detector, view angle is wide. According to actual need, select needed hole for installation and then make a mark on wall and then drill out 4 holes with 6 mm , hammer 4 stoppers into the holes on wall, then detector can be fasten onto the wall.


Bracket installation
See 3 kinds of installations with bracket as figure


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 intrusion signal any time
When jumper switch is in USE MODE, it will take detector 4



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 set to low sensitivity, only more than 3 intrusion pulses can trigger alarm


## walking tes

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 detectiondead angle in protected area or not, for PIR is the mat is horizontal.
to PI 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, s
normally please set it to 2 pulses. After test is finished, you can turn off alarm LED or keep it as (ON).
Strong
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
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.


-     - PET
- normal
-anti-crawl

- Pet- normal -anti-crawl

-pet
- PET
- NORMAL
-anti-Crawl



## 8.Other setting

Setting of oscillating resistor
In order to match setting of control panels with other brand, data set can be reached by adjustment of oscillating resistance on coding microchip. We have 3 modes as
right figure: $4.7 \mathrm{M} / 3.3 \mathrm{M} / 1.5 \mathrm{M}$.

Setting of data pin
Suitable coding data for recognition by other control panel can be acquired by setting on
DATA SET: D3/D2/D1/D0
Setting of address pin
Different address ID for recognition by other control panel can be acquired by setting on 8 address pins


## 9.Setting from wireless to wired by receiver

Brief introduction of wireless to wired receiver
REC-4CH intelligent wireless receiver with 4 channels is with 4 relays and can control the open/close conversion of switch and various kinds of special control procedures. This unit is with the characteristics of stable performance, small size and high receiving sensitivity etc, can be used in intrusion alarm to reach the conversion from wired to wireless system. This control unit is compatible with wireless remote control and wireless detector with various kinds of microchips or multiple codes, and protocols can
be $2262 / 2260 / 1527 / 2240$.

## Main technical parameter:

*Operation voltage: DC12V
Static operation current: $\leqslant 6 \mathrm{~mA}$
*Receiving sensitivity: $\geqslant-105 \mathrm{dBm}$
*Operation frequency: $315 / 433 \mathrm{MHz}$ (optional)
*Output current: $\leqslant 1 \mathrm{~A}$
Operation temperature: $-40^{\circ} \mathrm{C}+80^{\circ} \mathrm{C}$
*Output voltage: AC, DC for option
How to connect wireless detector to wired control panel by this module
4 different detectors can be set into different data pins in order that REC-4CH module can recognize them into different zones. Address pins can be set to same or different. If data settings on 4 detectors are different, each detector must be learnt into control panel again. (ie, if you want to code detector into some channel in the module, you must set relevant data pin set to "H" level other pins to " L ").


Study/ delete way and steps

1. Press down "STUDY" key, the indicator will turn on, then leave go off, trigger detector and indicator on, module gives 2 flashes and turn off, study is successful. 2. Delete: keep pressing down the STUDY (the black knob) key for 8 seconds, indication will turn off then all messages are deleted successfully.

