

Installation Instruction

WIRELESS INDOOR PIR DETECTOR WITH PET IMMUNITY

1.Product Introduction

WIP-650 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 human body temperature compensation technology, which can finish intrusion detection in a very wide temperature range. Its unique detection 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 seconds. Micro power consumption design makes its battery life expectation up to 24 months at least, its function and performance much better than those detectors selling at similar prices.

2.Main function

Super micro power consumption design
Wide detection sensitivities for option
Pet immunity design up to 20kg
Adopts SUNLITE'S pet immunity lens)
Human body temperature compensation technology

1. Wide detection range: 12m*12m*12m
2. Wide detection angle: window on 4 planes
3. Wide detection height: 0.5m~2.1m
4. Wide detection temperature: -10°C~55°C

Power consumption: 3.5mA (max)
Current: 11mA (max)
Failure rate: 0.1% (max)
Life expectancy: 24 months (min)

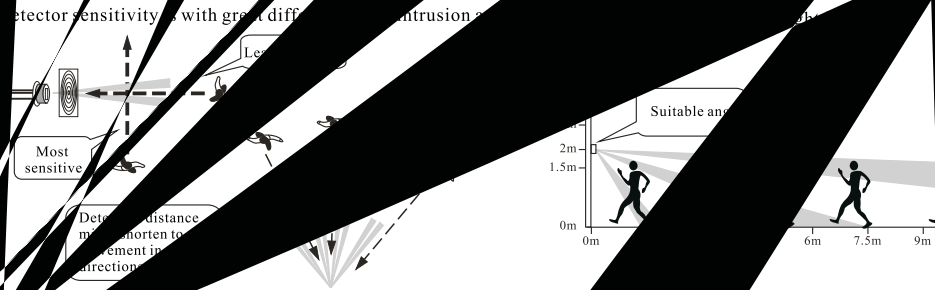
Installation height: 1.5m~2.1m
Detection range: 12m*12m*12m
Alarm output: 2s
Temperature compensation: intelligent digital
Sensitivity: 2/3 pulses for option
Anti EM: 500MHz/3s
Anti window: 10m
Alarm code: PT2262 (In USE mode)
Alarm code: 123456 (In USE mode)
Wireless transmission: in open area
Operating temperature: -10°C~55°C
Operating humidity: 20%~80% (relatively)
Operating wind speed: 0.5m/s~3.5m/s
Operating material: ABS material
Operating weight: 20kg
Operating size: 109*60*47mm (H*W*D)

3.Installation guide

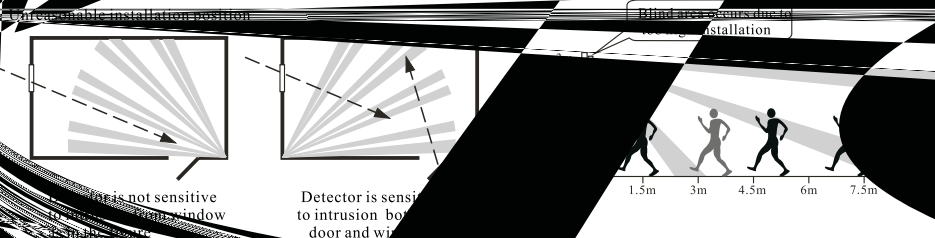
1. Please choose the best installation position which matches PIR technology and your environment. Keep it away from the heat source and hot source.



Installation angle



Installation position



Wall mount

Please insert a small slotted screw as figure, and then loose the screw driver (don't need to turn the screw driver out) and then detector is ready to be installed.

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6. Various settings & walking test

TEST/USE mode switch

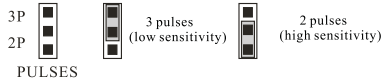
When jumper switch is in TEST MODE, detector can detect intrusion signal any time
When jumper switch is in USE MODE, it will take detector 4 minutes to get 2nd alarm signal (This is just to save battery energy, it is the recommended setting)



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



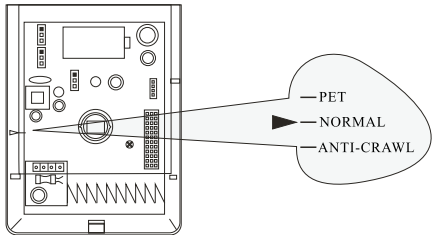
7. PCB adjustment

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.



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: 4.7M/3.3M/1.5M.

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

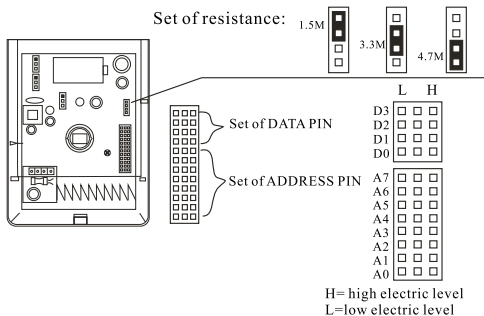
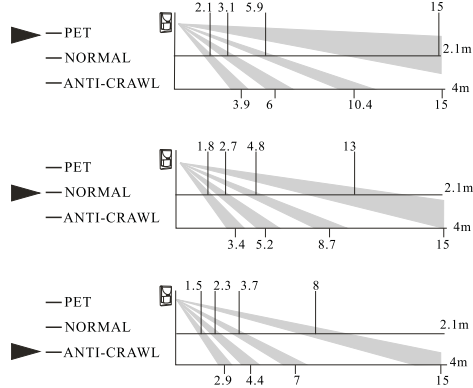
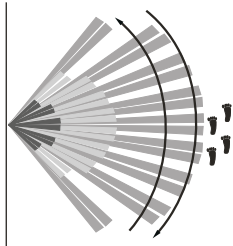
walking test

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.



9. Setting from wireless to wired by receiver

Brief introduction of wireless to wired receiver

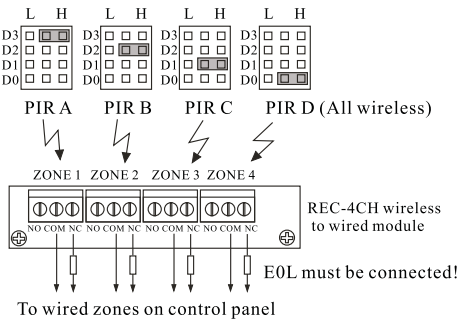
REC-4CH intelligent wireless receiver with 4 channels is with 4 relays and can control the open/close conversion of switch and various kinds of special control procedures. This unit is with the characteristics of stable performance, small size and high receiving sensitivity etc, can be used in intrusion 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: ≤6mA
- *Receiving sensitivity: ≥-105dBm
- *Operation frequency: 315/433MHz (optional)
- *Output current: ≤1A
- *Operation temperature: -40℃+80℃
- *Output voltage: AC, DC for option
- *Size: 72mm×52mm×26mm

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.

