Dual-Tech Outdoor Digital PIR Detector

This product is a unique motion detector utilizing infra-red element and Microwave technology and is designed for outdoor use in the most severe climatic conditions. It can also accommodate pets with the special pet immunity lenses. High reliability is achieved by combining both dual tech hardware with highly sophisticated software, greatly reducing the possibility of false alarms. It can be applied on banks, factories, schools, hospitals and homes etc.

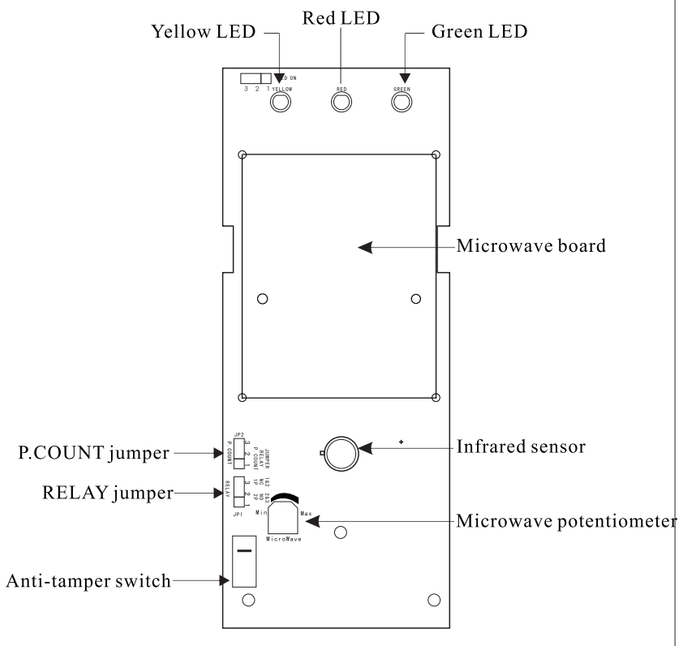
SPECIFICATIONS & FEATURES

- Infrared +Microwave technology(10.525 GHz)
- Microcontroller signal processing
- Microwave detection based on Doppler concept
- Pet Immunity up to 80lb (36kg)
- Unique waterproof and seal plastic design, rain and dust proof IP65
- White light immunity>10000Lux
- PIR sensitivity selection
- MW intensity adjustment
- N.O. & N.C. relays switched optionally
- Front and back tamper protection
- Temperature compensation
- High RFI/EMI immunity
- Connector is outside of housing, convenient wiring
- Stainless steel bracket

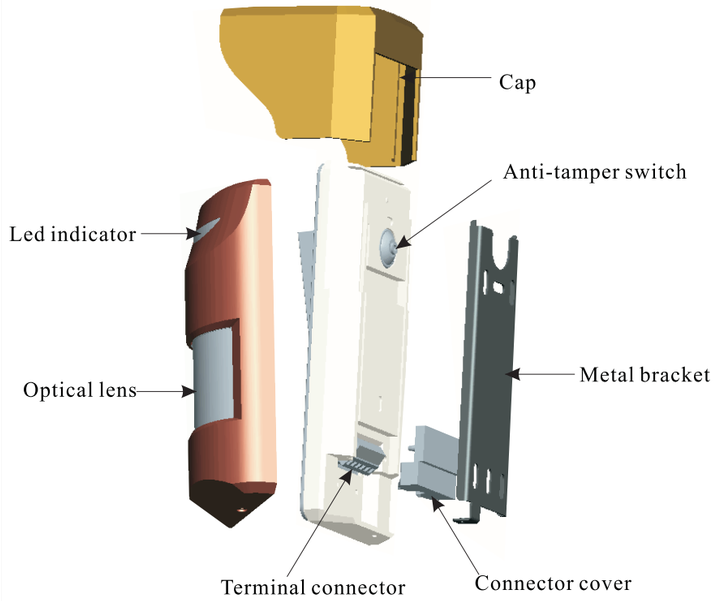
TECHNICAL PARAMETERS

Working voltage	9-16V DC
Working current	≤30mA(DC 12V)
Detection range	12mX12m
Detection angle	110°
Infrared sensor	Dual element low noise pyroelectric infrared sensor
Microwave frequency	10.525GHz
LED indicator	Green: infrared triggering Yellow: microwave triggering Red: alarm
Installation	Wall hanging
Installation height	2.2m(7.2ft)
Relay output	N.O./N.C. optional. Contact rating 28Vdc, 0.1A
Operating temperature	-30℃ to +60℃
Dimension	184*84.5*80.63mm

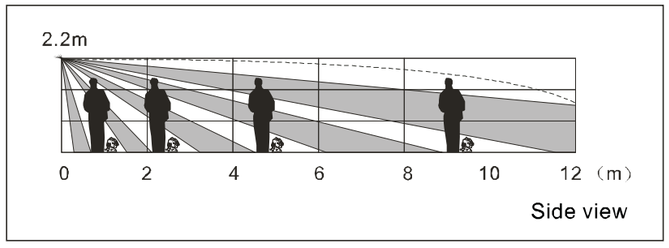
KEY COMPONENTS

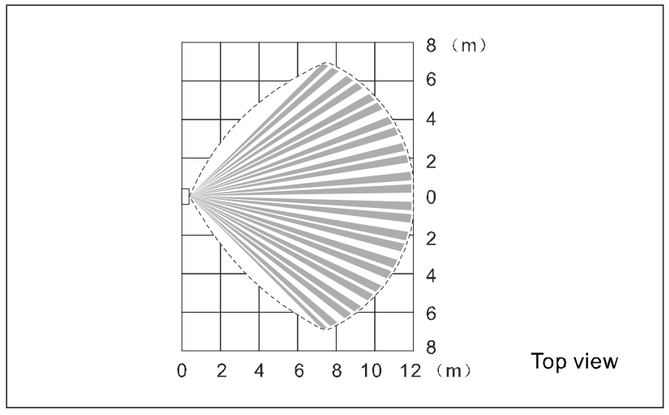


GENERAL VIEW



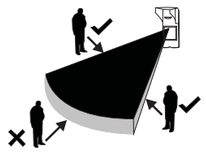
DETECTING RANGE FIGURES



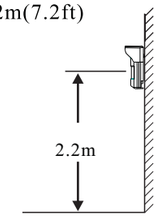


INSTALLATION

1. Select a position where intruders easy pass through



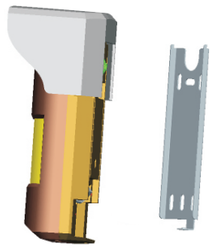
2. The ideal installation height is 2.2m(7.2ft)



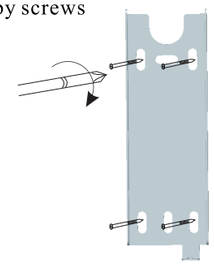
3. The cable request
Please use #22AWG or more thick cable, choose as follow table

Cable length(m)	205	310	510	870
Cable length(ft.)	800	1200	2000	3400
The diameter of cable(#)	22	20	18	16

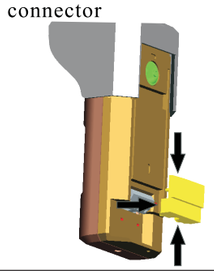
4.Unlock the bottom screw, take off the metal bracket



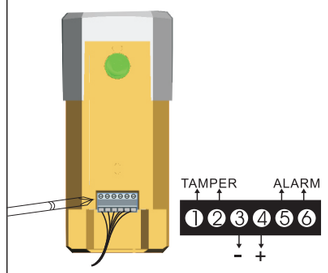
5.Fix the metal bracket on the wall by screws



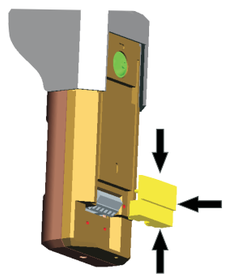
6.Take off the cover that on the connector



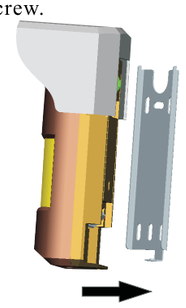
7.wiring



8.Press the cover on connectors



9.Put detector on bracket and lock screw.



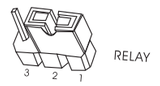
SETTING & ADJUSTMENT

1.Connect 12V DC power, the three LED lights flash, and detector under self-checking status, self-checking time is about 60 seconds; LED lights stop flashing, which means detector enters normal working status.

2.Testing by normal walk speed in detection area, then the relevant indicator flashing. Green LED is on, mean infrared is triggeed; yellow LED is on, mean microwave is triggering; red LED is on, mean detector alarm.

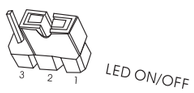
Yellow Red Green

3.RELAY jumper JP1(N.C./N.O.) is output relay jumper, be used to set alarm output status, set 1&2 for N.C. output; set 2&3 for N.O. output. **Factory default N.C.**

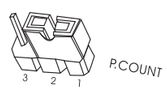


4. Microwave potentiometer is used to adjust microwave detection range, user can adjust according to requirement. **Factory default MAX.**

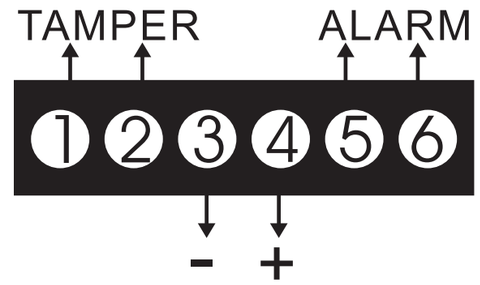
5.LED jumper controls LED indicator to indicate or not, and it does not affect normal work of detector. Set 1&2 for LED on; set 2&3 for LED off. **Factory default LED On.**



6. P.COUNT jumper JP2(1P/2P) is infrared sensitivity jumper, set 1P(1&2) as high sensitivity; set 2P(2&3) as normal sensitivity. **Factory default 1P.**



TERMINAL CONNECTOR WIRING FIGURE



INSTALLATION LOCATION

The detector should be installed on solid interface and faced the detecting area, do not permit wall, fence, ditch and other microwave equipments in the detecting area.

1. Do not install detector in the place as followed:
   The place of sun shine directly
   The area of temperature changed quickly
   The wall vertical gradient>10°
   The wall horizontal bending>10°
   The area of vehicle pass through
   The position is close to air vent or heat producer
2. Avoid any object in front of the lens of detector
3. Do not face the metal door

NOTICES

1. Please install and use according to this manual, do not touch the surface of infrared sensor, if detector need to be cleaned, use soft cloth with alcohol to clean after turning off power.
2. Yearly testing is required to ensure proper operation of this detector.
3. Though this product can enhance security level, it do not ensure 100% safe. For your security, you should raise security awareness in daily life.