

# DUAL PASSIVE INFRARED DETECTOR

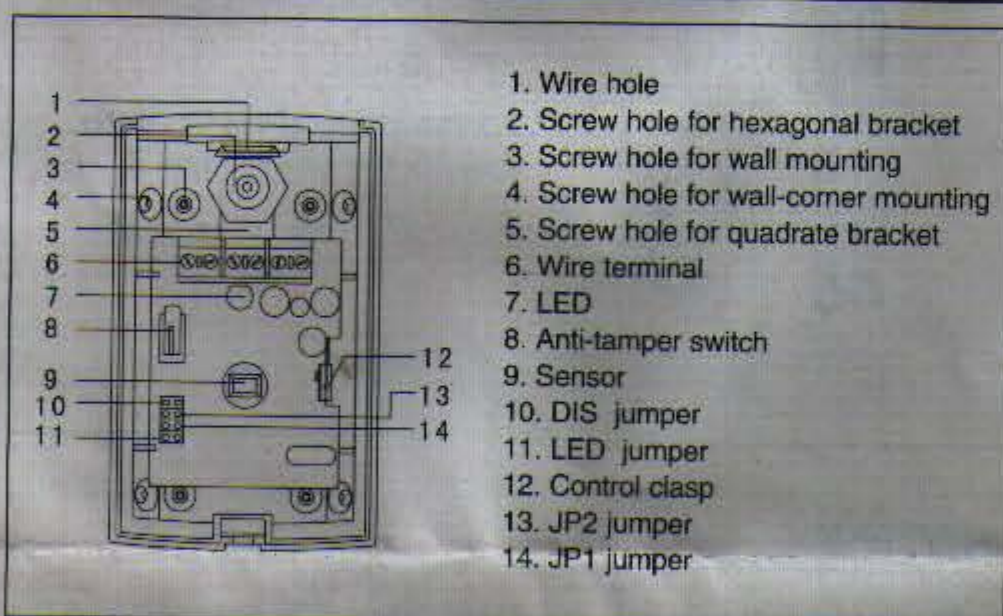
Long distance detecting



This product accords with national standards of P. R. of China:

It is a kind of indoor-used dual passive infrared detector, which is specially designed for long distance detecting. When human being is moving in detecting range, the infrared sensor receives heat source signal from human body, and input enlarged signal to MCU. The MCU samplings continually, then output the signal after calculating to control alarm port to avoid false alarm caused by some environment factors. This product is widely used in banks, warehouses, and houses etc.

## GENERAL VIEW



## FEATURES

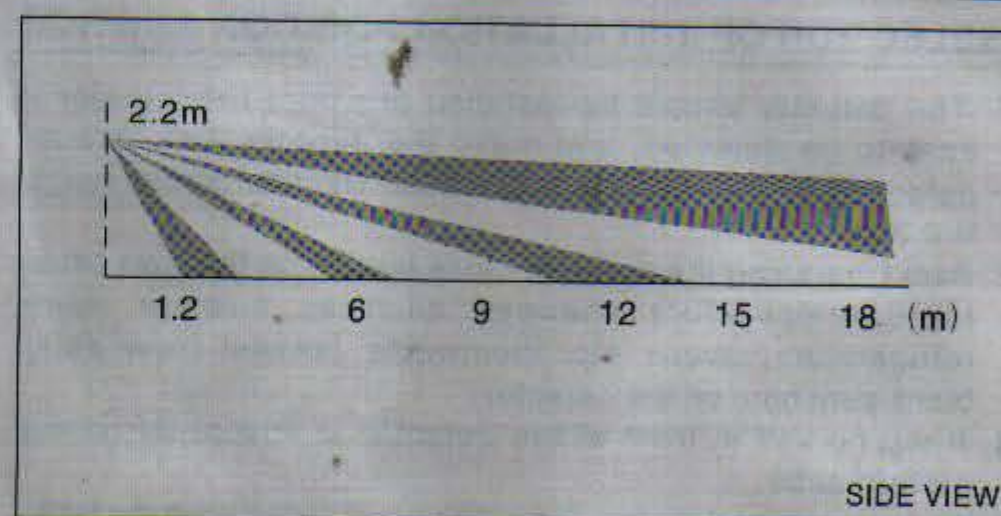
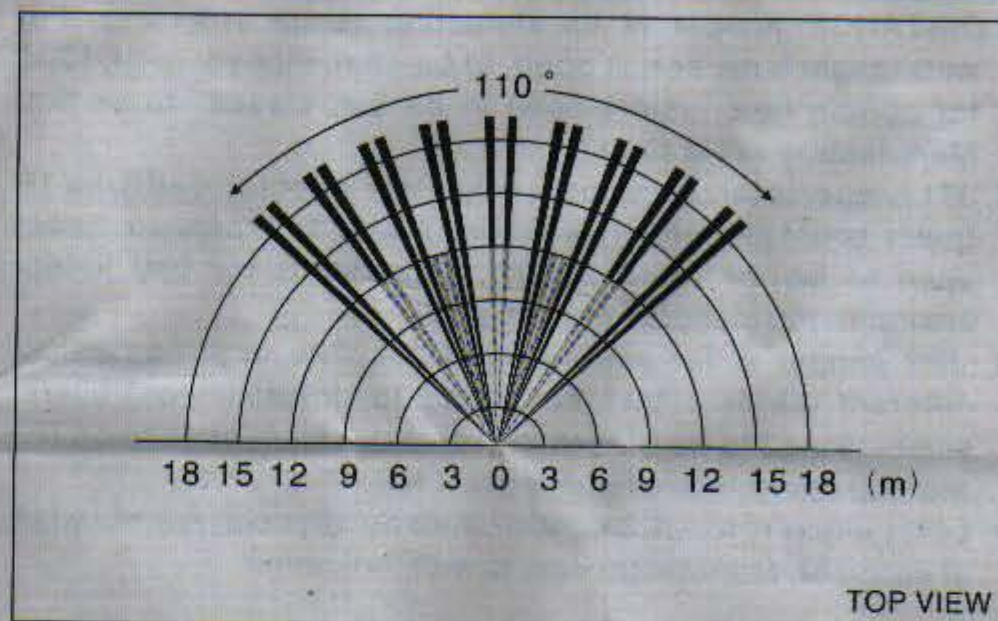
- Detecting range optional (far, near).
- Adopted 8-bit low power MCU processing.
- Auto temperature compensation, reducing false alarm.
- Wide-angle lens and curtain lens optional for different environments.
- LED ON/OFF optional, pulse count optional.
- Alarm output NC/NO optional for different alarm controllers.
- Adopted SMT, high EMI/RFI immunity.
- 3 installation methods optional, convenient to install.

## TECHNOLOGY SPECIFICATIONS

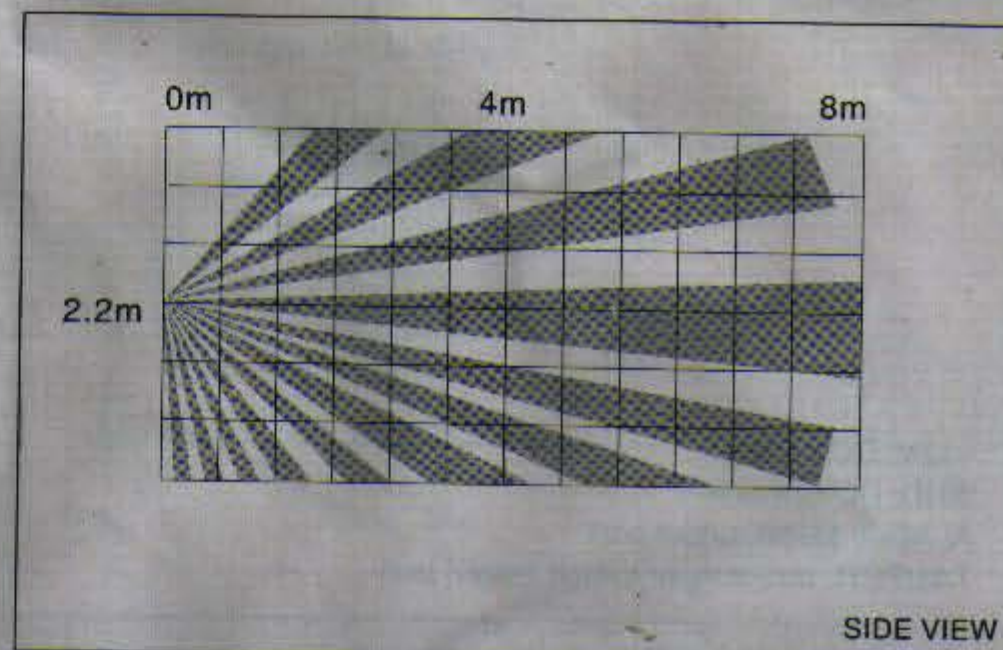
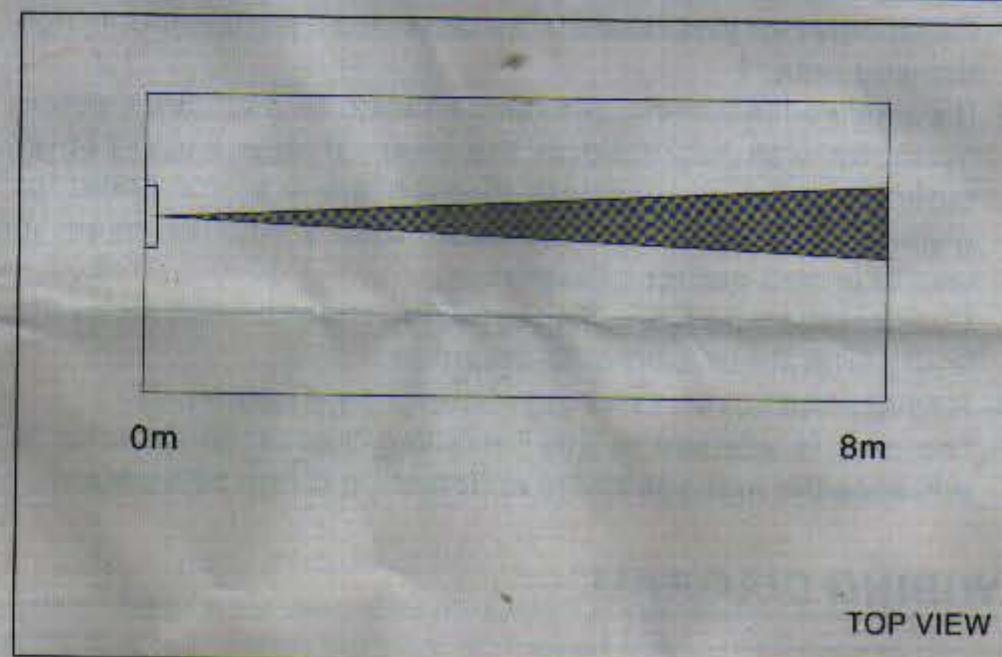
Working voltage	DC9~16V
Operating current	≤20mA (DC12V)
Detecting range	12m/18m optional (wide-angle lens); 6m/8m optional (curtain lens)
Detecting angle	110° (wide-angle lens); 15° (curtain lens)
Sensor	Dual infrared sensor of low-noise&heat-release

Pulse count	Grade I (1P) , Grade II (2P)
Installation method	Wall mounted
Installation height	2.2m is recommended
Operating temperature	-10°C~+50°C(14°F~122°F)
RELAY output	NC/NO optional, contact capacity 60VDC, 100mA
Anti-tamper	NC without voltage output, contact capacity 28VDC, 100mA
Size	96mm×59mm×46.5mm

## DETECTING RANGE OF WIDE-ANGLE LENS



## DETECTING RANGE OF CURTAIN LENS





## USAGE

1. Firstly, please connect the wire according to Wiring Diagram. With 12VDC, the red indicator flashes constantly, indicating detector enters into self-test. Self-test will last for about 60s, then red indicator stop flashing, indicating the detector enters normal working status.
2. Test within detecting range by normal walking speed. The red indicator is on, indicating detector enters alarm status. When indicator is off, detector enters detecting status again.
3. The control clasp can make PCB move up-and-down, which enable it convenient to install detector. When installation finished, the clasp must be coincided with the indentation on PCB.
4. DISTANCE jumper is for detecting range selecting. For wide-angle lens, select open to be 18m, closed to be 12m; for curtain lens, select open to be 8m, closed to be 6m. Manufactory set is closed.
5. JP1 jumper is for pulse count selecting. Select closed to be 1P (pulse count of grade I) for normal indoor environment; select open to be 2P (pulse count of grade II) for bad indoor environment. Manufactory set is 1P.
6. JP2 jumper is for alarm output set. The user can select different alarm output according to different controllers, select closed to be NC (normal close), select open to be NO (normal open), manufactory set is NC.
7. LED jumper is for LED control, with no effect on normal work of detector. Manufactory set is with indication.

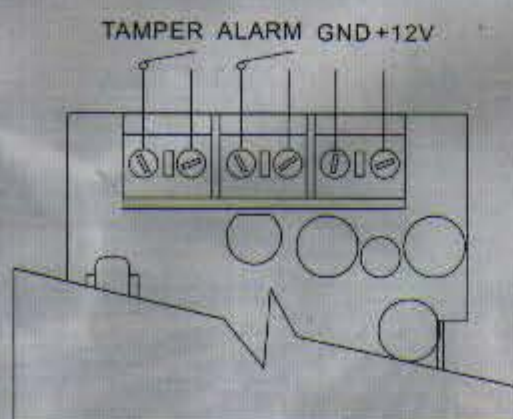
## SELECTION OF INSTALLATION POSITION & NOTICE

1. The detector should be installed at where the intruder is easy to be detected, and make the intruder walk through detecting range as much as possible. Recommended height is 2.2m.
2. Avoid installing the detector close to objects that can cause rapid temperature changes such as heaters, fans, refrigerators, ovens etc, meanwhile prevent from point-blank sunshine on the detector.
3. Keep no veil in front of the detector to ensure its normal performance.
4. When install the detector, the indicators is higher than the lens.

## INSTALLATION DIAGRAM

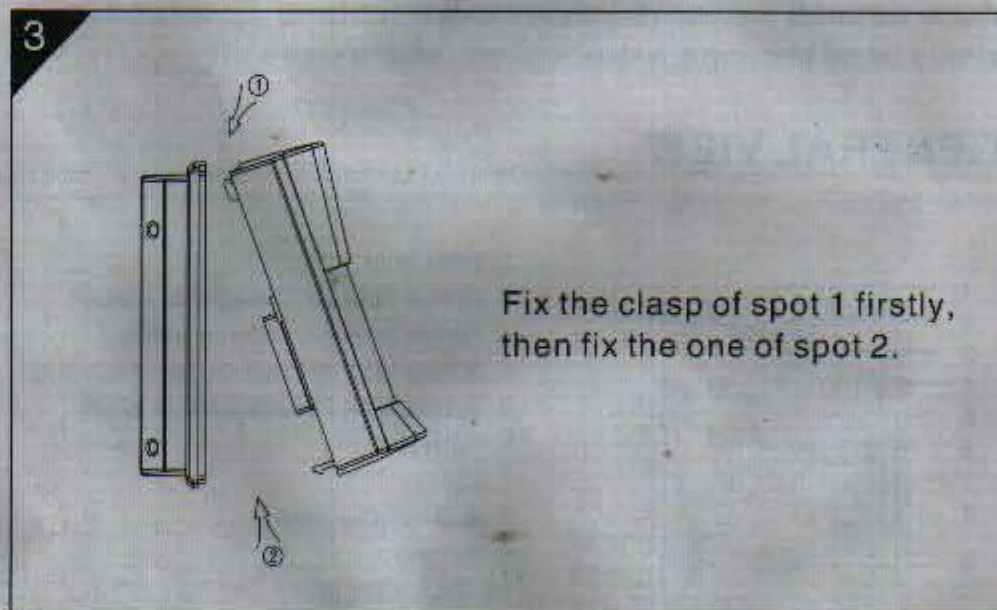
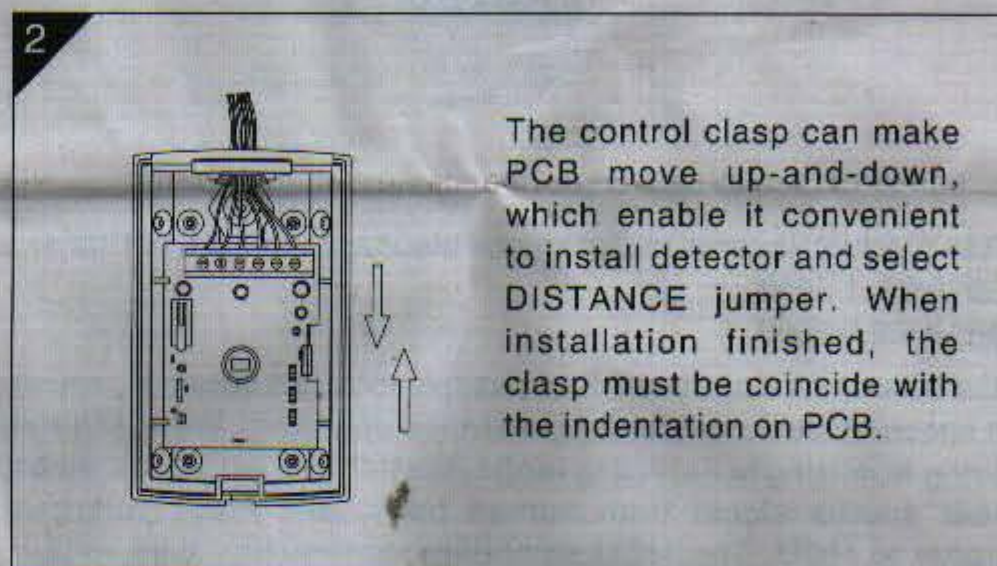
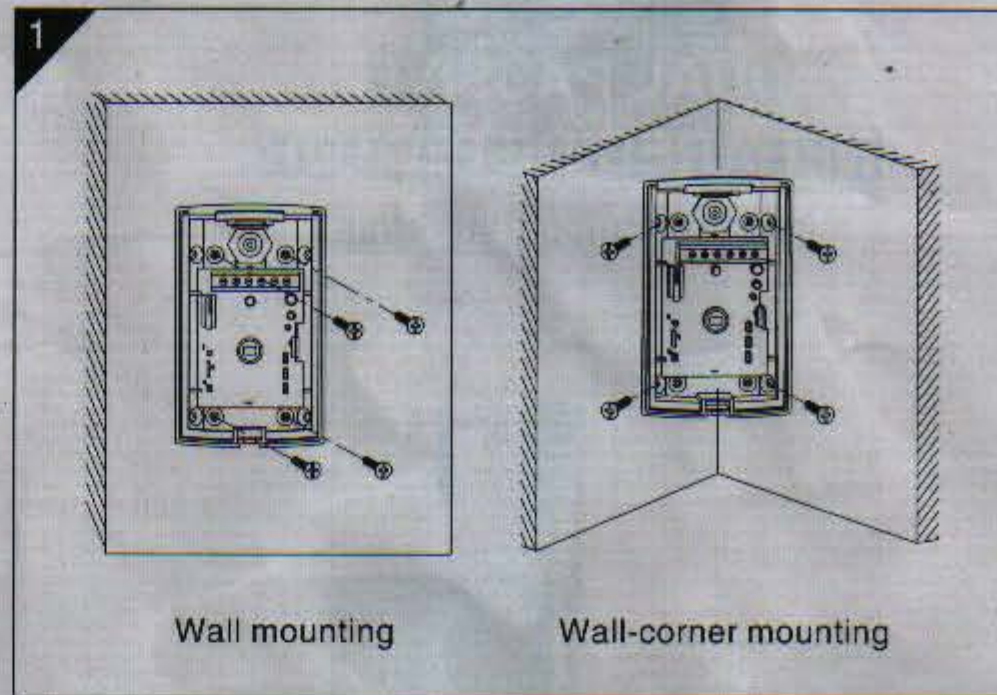
1. Open detector and take off the base, then perforate through the wire hole.
2. If adopt wall mounting, please perforate through the 4 screw holes for wall-mounting in the base; if adopt wall-corner mounting, please perforate through the 4 screw holes for wall-corner mounting in the base, then screw the base on wall or in wall-corner. (Diagram 1)
3. Connect the wire according to Wiring Diagram and make the lead perforate wire hole. (Diagram 2)
4. Replace the cover, finishing installation. (Diagram 3)
5. The user is advised to use installing bracket of detector to enhance the manageability of detecting range adjustment.

## WIRING DIAGRAM



+12V: DC anode  
GND: DC cathode  
ALARM: alarm output port  
TAMPER: anti-tamper switch output port

## INSTALLATION DIAGRAM



## NOTICE

1. Please install and use the detect correctly according to the introduction. Do not touch the detector surface to warrant the sensitivity of the detector. If necessary, clean the sensor with soft cloth dipping a little alcohol after cutting off the power.
2. Avoid using the detector in environment with great changes of temperature.
3. This product can reduce the possibility of accident, but can not guarantee absolute safety due to some other unexpected factors, so besides using the detector correctly, please take all necessary precautions and enhance safety consciousness in daily life.