

户外型智能
三鉴入侵探测器

本产品符合中华人民共和国国家标准：GB10408.1-2000
GB10408.6-2009

本产品为微波+被动红外+人工智能复合型三鉴探测器，根据探测人体红外光谱及微波多普勒效应来工作，使用专用滤光镜片，采用先进的信号分析及处理技术，具有防淋水功能，适合户外环境使用。本产品可应用于银行、仓库、家庭等场所的安全防范。

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1、微波模块

2、绿色LED

3、红色LED

4、黄色LED

5、红外传感器

6、P. COUNT跳针

7、RELAY跳针

8、LED跳针

9、防拆开关

10、Microwave电位器

11、接线端子

12、出线孔

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1、LED灯

2、透镜

产品特点

- 采用微处理器
- 脉冲计数可选
- 专用滤光镜片，抗白光强度10000Lux
- 具有防淋水功能，适用于户外环境
- 全密封防虫功能
- 采用多普勒效应+能量分析
- 微波采用X-Band平面式天线
- 微波探测范围可调节
- 全方位自动温度补偿，超强抗误报能力
- 报警输出NC/N0可选，适应不同的报警主机
- 采用人工智能技术，能够辨别入侵者信号和干扰信号
- 防宠物功能，可防20kg以下宠物

技术参数

工作电压	DC 9~16V
消耗电流	≤30mA (DC 12V)
探测范围	12m×12m
探测角度	110°
红外传感器	二元低噪声热释电红外传感器
微波天线种类	平面式微波天线附GaAs FET介质振荡器
微波频率	10.525GHz
自检时间	≤60秒
LED指示	绿色：红外被触发 黄色：微波被触发 红色：报警
安装方式	壁挂
安装高度	最佳为2.2m
工作温度	-25℃~+55℃ (-13°F~131°F)
继电器输出	常闭/常开可选，接点容量28VDC, 80mA
防拆开关	常闭无电压输出，接点容量28VDC, 100mA
外形尺寸	153mm×80mm×58mm

检测范围图

产品的使用

- 1、接通12V直流电源，三个指示灯闪烁，探测器进入自检状态，自检时间约60秒，指示灯停止闪烁时表示探测器进入正常监测状态。
- 2、在探测器覆盖区域内，以正常的步行速度进行测试，此时会有相应的指示灯亮：绿色指示灯亮，表示红外被触发；黄色指示灯亮，表示微波被触发；红色指示灯亮，表示红外和微波同时被触发，探测器进入报警状态。
- 3、LED跳针为控制LED指示灯是否有指示，不影响探测器正常工作。出厂设置为有指示。

- 4、Microwave 电位器用于调节微波的探测范围，用户可根据实际需要去调整。出厂设置为最大探测范围。
- 5、P. COUNT跳针JP1 (1P/2P)为灵敏度跳针，1P(1&2)为高灵敏度，提供最大覆盖范围；2P(2&3)为标准灵敏度，具有最大抗干扰能力。出厂设置为1P。
- 6、RELAY跳针JP2 (NC/N0)为输出继电器跳针，用于设置报警输出状态，可根据不同类型主机的规格要求选择不同的输出状态，选择为NC(1&2)常闭状态，选择为N0(2&3)常开状态。出厂设置为NC常闭状态。

安装位置的选择及注意事项

- 1、切勿将探测器安装在可探测到以下区域的位置：
 - ★ 有车辆经过的区域。
 - ★ 有易被风吹动的物体的区域，如：悬挂标志、树木等。
- 2、安装位置应避免靠近空调等可引起温度迅速变化的物体。
- 3、探测器透镜前面不应有物体遮挡，否则将影响到探测效果。
- 4、确认安装表面稳固且不会振动。
- 5、仅限在所有连接完成并检查后再接通电源。
- 6、请勿将多余的电线卷起放置在探测器中。

产品的安装

- 1、选择一个安装位置，在入侵者最可能穿过覆盖区域的位置安装探测器，最佳安装高度为2.2m。
- 2、打开探测器时，用一把小平头螺丝刀将锁定凸轮打开，将安装盘向下滑动，把安装盘从盖板上取下。
- 3、将安装盘用螺丝固定在选定的位置，按接线示意图接好线。注意防水垫圈，出线的方向向下，建议使用22AWG (0.8mm)电线。
- 4、当所有的线路与探测器连接好，将探测器装置滑至安装盘上，直到放稳，避免夹伤电线。
- 5、用一把小平头螺丝刀将锁定凸轮旋转180°，使探测器装置锁定在安装盘上。
- 6、建议使用探测器安装支架，可提高探测范围的灵活性。

接线示意图

安装示意图

- 1、开锁：将小平头螺丝刀插入凹槽旋转180°，“△”对准开锁标志
- 2、将安装盘沿箭头方向推下

- 3、将安装盘沿箭头方向拿开
- 4、打穿图示三个安装孔
- 5、用螺丝将安装盘固定在墙上
- 6、将电源及信号线接入接线端子
- 7、将探测器挂在安装盘上
- 8、将探测器沿箭头方向下拉到位
- 9、锁住：将小平头螺丝刀插入凹槽旋转180°

注意事项

- 1、请按说明书正确地安装和使用，不可触摸红外传感器表面，以免影响探测器灵敏度，如需清洁传感器，请断开电源后用软布沾少许酒精擦拭。
- 2、本产品应该每年测试一次，确保功能正常。
- 3、本产品可以减少事故的发生，但不能确保万无一失。为了您的安全，除了正确使用本产品外，在日常生活中还要提高警惕，加强安全预防意识。

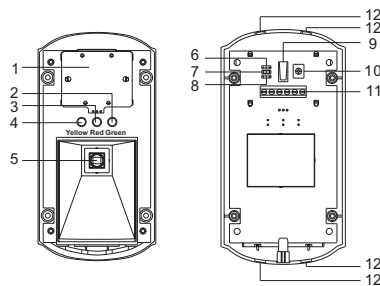
OUTDOOR INTELLIGENCE TRIPLE TECHNOLOGY INTRUDER DETECTOR



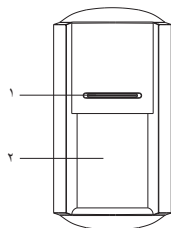
This product complies with standards of People's Republic of China: GB10408.1-2000 and GB10408.6-2009

The product is a triple technology detector composed by microwave, passive infrared and artificial intelligence, and it works based on detecting human body's infrared spectrum and microwave Doppler effect. The product uses special optical filter and advanced signal analysis and process technology, it is provided with waterproof function, being suitable for outdoor usage. The product can be applied on banks, warehouses and homes etc.

GENERAL VIEW



1. Microwave module
2. Green LED
3. Red LED
4. Yellow LED
5. Infrared sensor
6. P.COUNT jumper
7. RELAY jumper
8. LED jumper
9. Anti-tamper switch
10. Microwave potentiometer
11. Terminal block
12. Outlet



1. LED indicator
2. Optical lens

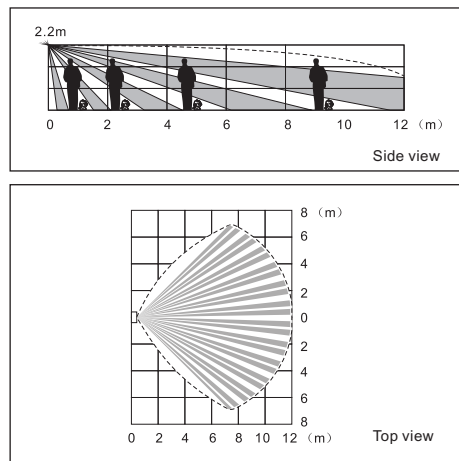
FEATURES

- MCU processing
- Pulse count optional
- Special optical filter lens, white light immunity at 10000 lux
- Waterproof function for outdoor environment
- Insect immunity
- Using Doppler effect and energy analysis
- Microwave using X-Band patch antenna
- Microwave detection range adjustable
- Temperature auto-compensation, avoiding false alarm
- Alarm output N.C./N.O. optional, suitable for different alarm system
- Differ intruder signal from interference signal by intelligence technology
- Pet below 20kg immunity

TECHNICAL PARAMETERS

Working voltage	9~16V DC
Working current	≤30mA(12V DC)
Detection angle	110°
Infrared sensor	Dual elements low noise pyroelectric infrared sensor
Microwave antenna type	Patch antenna made by GaAs FET dielectric oscillator
Microwave frequency	10.525GHz
Self-checking time	≤60 sec
LED indicator	Green: Infrared triggering Yellow: microwave triggering Red: alarm
Installation	Wall mounting
Installation height	Suggest mounting height 2m
Operating temperature	-25℃~+55℃ (-13℉~131℉)
Relay output	N.C./N.O. setting, contact rating 28VDC, 80mA
Anti-tamper	N.C., no voltage output, contact rating 28VDC, 100mA
Size	153*80*58mm

DETECTING RANGE FIGURES



USAGE

1. Connect 12V DC power, three indicators flashing, and detector enters self-checking status, self-checking time is about 60 seconds; indicators stop flashing, which means detector enters normal monitoring status.
2. Testing by normal walk speed in detection range, at this time relevant indicator flashing. Green indicator is on, indicating infrared triggering; yellow indicator is on, indicating microwave triggering; red indicator is on, indicating infrared and microwave triggering together and detector enters alarm status.

3. LED jumper controls LED indicator to indicate or not, and it does not effect normal work of detector. LED indicator is on in factory setting.
4. Microwave potentiometer is used to adjust microwave detection range, user can adjust according to requirement. Set maximal detection range in factory setting.
5. P.COUNT jumper JP1(1P/2P) is sensitivity jumper, 1P(1&2) is high sensitivity, supplying maximal detection range; 2P(2&3) is normal sensitivity, supplying maximal anti-interference capability. Set 1P in factory setting.
6. RELAY jumper JP2(N.C./N.O.) is output relay jumper, used to set alarm output status, choosing different output according to different type of security system. Choose N.C.(1&2) for normal closed status; choose N.O.(2&3) for normal open status. Set N.C. in factory setting.

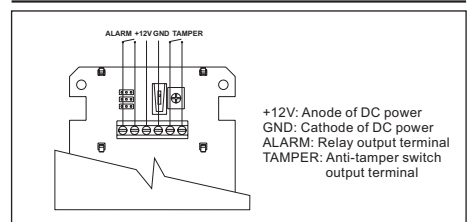
INSTALLATION LOCATION AND NOTICES

1. Do not install detector in the place as followed:
 - ★ The area where vehicle pass through
 - ★ The position easy to be blown by wind, such as swing sign, tree etc.
2. Avoid proximity to objects which is easy to cause temperature change.
3. Avoid any object in front of the lens of detector.
4. Confirm installation place steadily and no shake.
5. Connect power after finishing all wire connection and checking.
6. Do not put redundant wires in detector.

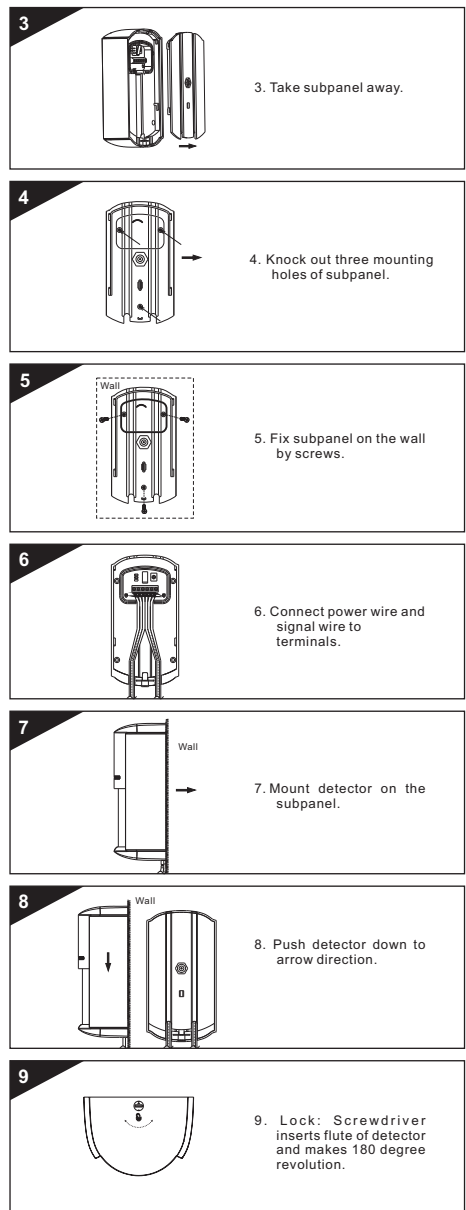
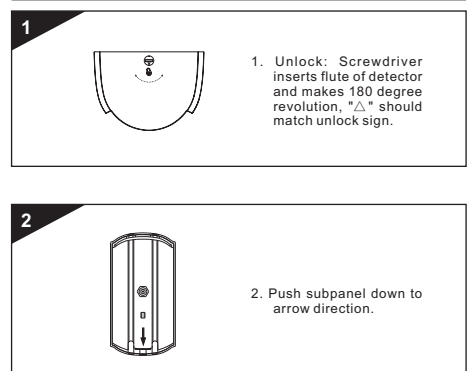
INSTALLATION

1. Select a position where intruder is prone to pass through, optimal installation height is 2.2m.
2. When opening detector, open the locked cam by screwdriver, slip subpanel down, then take subpanel away from cover plate.
3. Fix subpanel on the selected position by screws, wire connection according to terminal block figure. Notice waterproof carrier ring, the direction of wire outlet is down, and we suggest you use 22AWG(0.8mm) wire.
4. Slip detector on the subpanel until finishing all wires connection with detector.
5. Fix the detector by 180 degree revolution of cam on subpanel.
6. we suggest you use set swinging to increase detection range.

TERMINAL BLOCK FIGURE



INSTALLATION FIGURES



NOTICES

1. Please mount 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 reduce accident, it do not ensure perfectly safe. For your security, you should enhance security consciousness in daily life besides using this product.