

DM-7380R Wireless PIR Intrusion Detector

1. Introduction

DM-7380R is an intrusion detector with energy accumulation processing and dynamic Metrixing time chip. Its built-in Fresnel increases the energy receiving efficiency, and the sensitivity is high without false alarm, furthermore, it can distinguish which factor may cause false alarm. Optional impulse insures it suitable for indoor with digital micro-processing. Advanced true motion recognition technology enables recognize the intruder from other interfering factors. Multi-mode and capability optional, which fit for various indoor environment and solve all kinds of interference, prevent false alarm and loss alarm. Built-in battery with large voltage and energy-saving mode prolongs its working time to twice.

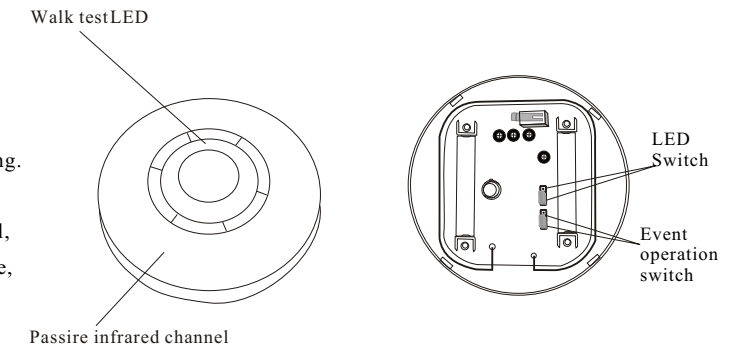
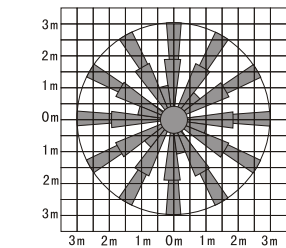


Fig1: appearance

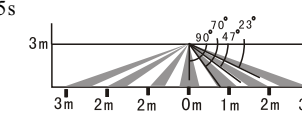
Fig2: inner configuration

2. Specification

Model: DM-7380R
 Distance: 6*6m
 Voltage input: 3VDC
 Current consumption: 10uA
 Infrared part: 11+5 (Typical)
 Operation Indication: LED flashing for 30 seconds
 Working Frequency: 433Hz
 Affective Distance: 20m
 Alarm Indication: LED flashing for 4-5s



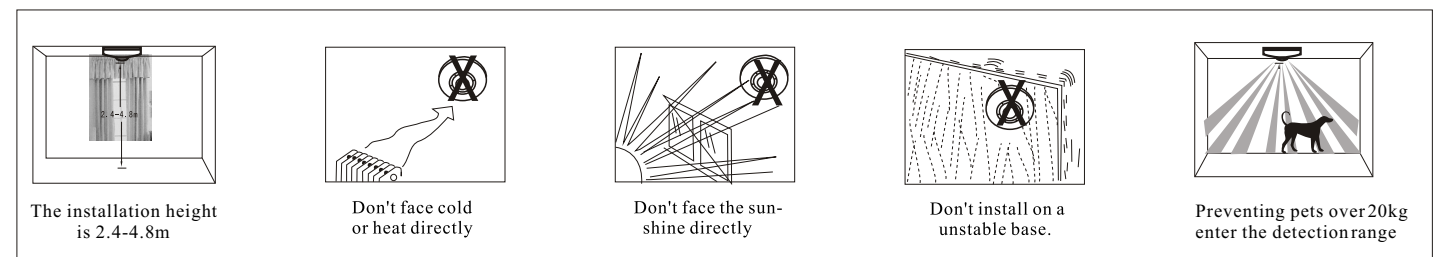
DM-7380 topview



DM-7380 side-view

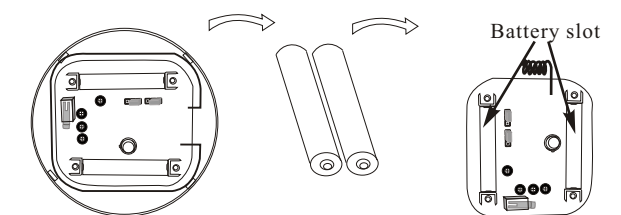
Installation:
 Surface or wall mount, height of 2.4-4.8m (8-16 feet)
 Note: Base allows single-sided corner mount at 45 to wall
Accessories:
 BR-1: wall mount bracket, adjustable 45° (horizontally), 30° (vertically)
 BR-2: add wall adapter to BR-1
 BR-3: add ceiling adapter to BR-1
Environment
 Working temperature: -10°C to 50°C (14° F to 122° F)
 Storage temperature: -20°C to 60°C (-4° F TO 140° F)
 Anti white (indoor): >9000lux
Dimension:
 H*W*H: 110*40mm

3. Installation

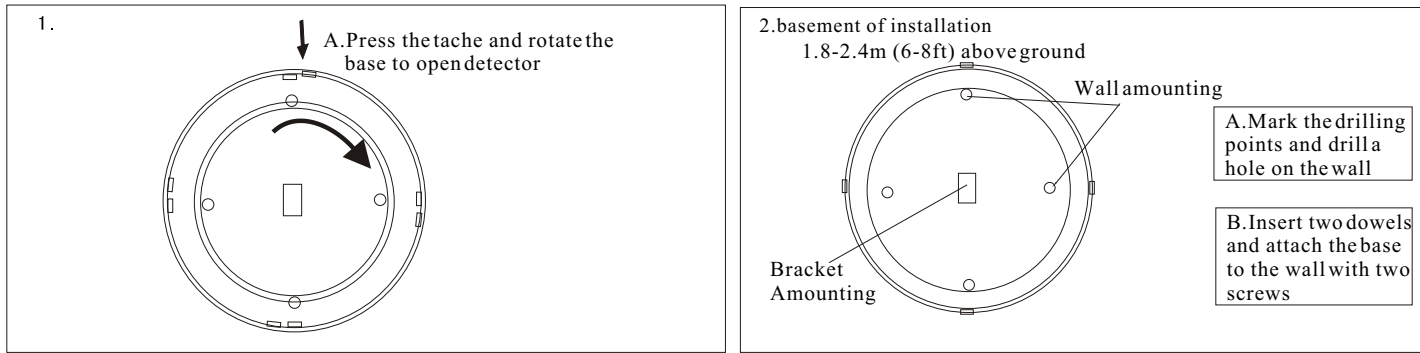


3.2 How to change battery

When the detector battery is weak, it will send out single to the control panel, at the same time, you need to change battery for the detector. Draw the PCB board; follow the steps as below to change 2 AAA new battery. (as right picture).



3.3 Installation

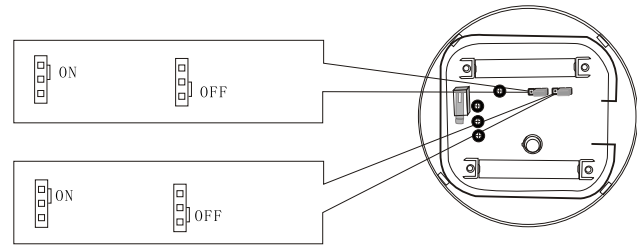


3.4 Instruction of code switches:

Setting jumper:

Jumper1: LED switch, when it skips to ON, the LED is ON; when it skips to OFF, the LED is OFF. The default is ON.

Jumper2: pulse switch, when it skips to ON, the detector not alarm until detect two pulse; when it skips to OFF, the detector will alarm only if detect one pulse. The default is ON.

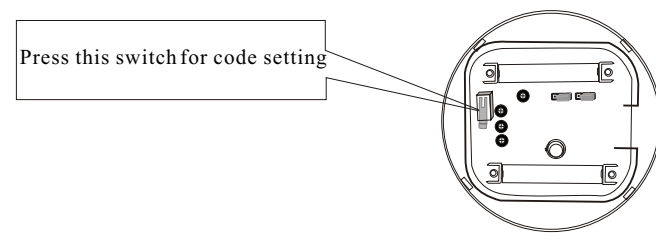


3.5 Detector Enrollment

Enrollment:

Take away the battery slice, the LED is on, now it is ready for enrollment.

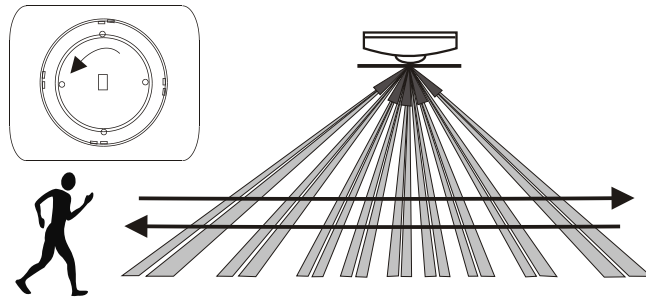
When pressing the vandalproof switch, the control panel will sound one beep and show enrolling successful.



3.6 Perform walking test to the detection area: install the cover and close the fasten part

Put the cover back, and circle the foundation anti clock rise till match well

1. Start the test at least 3 minutes after connecting power supply
2. Walking breadthwise at the remote end of the detection coverage at the speed of 0.75m/s within 3m, then will trigger the detector and the LED indications 2-3 seconds.
3. Testing in different direction to confirm the two boundaries of the coverage, ensure the detector is appoint to the central desired area.
4. the center of detection zone should not uphill incline. To obtain a good detection range, please adjust the vertical detection range, ensure the detector is in a correct position.
5. After MW sensitivity or detection angle are adjusted, walking test must be performed according to the above steps.



Note: we recommend the unit is take walking test at least one time in one week in order to keep the best function of the unit.

The testing period and working period

Testing period: after charge or the temperproof switch been pressed, the detector do self checking for 30 seconds then it get a period time of 6 minutes for test. Within the test period, the human body moves according to the set direction until the system alarms, then the indicating light lights and sends out the wireless alarm signal.

Working period: after the testing period of 6 minutes, it is the working period. Within this period, the human body moves according to the set direction (such as enter into the room), if the LED ON is opened, then the indicating light lights and sends out the wireless alarm signal. Then close the alarm, and test to see if anybody is moving, until to the set alarm start up time, the system does not detect the body movement, and confirmed to be away, then the detector can be started again. When the human body moves against to the set direction (such as leave the room), the system does not alarm. Then close the alarm, and test to see if anybody is moving, until to the set alarm start up time, the system does not detect the body movement, and confirmed to be away, then the detector can be started again.

Special notice:

After the reposition of the dismantle proof and magnetic switch on the detector, you will then get a period time 6 minute for test. Within this time, after the finish of automatic test, you can arrange the walking test. 6 minute later, the system enters into the working period. After one time alarm within the working period, the system will check if there is any non-human activity for 140 seconds. Only after confirming that there is no human activity for 140 seconds continuously, the detector will then start up the detecting model.

4. Special comments

Even the most sophisticated detectors can sometimes be defeated or may fail to warn due to: DC power failure/improper connection, malicious masking of the lens, tampering with the optical system, decreased sensitivity in ambient temperatures near that of the human body and unexpected failure of a component part. The above list includes the most common reasons for failure recommended that the detector and the entire alarm system be checked weekly, to ensure proper performance. An alarm system should not be regarded as a substitute for insurance. Home & property owners or renters should be prudent enough to continue insuring their lives & property, even though they are protected by an alarm system.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant harmful interference in residential installations. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

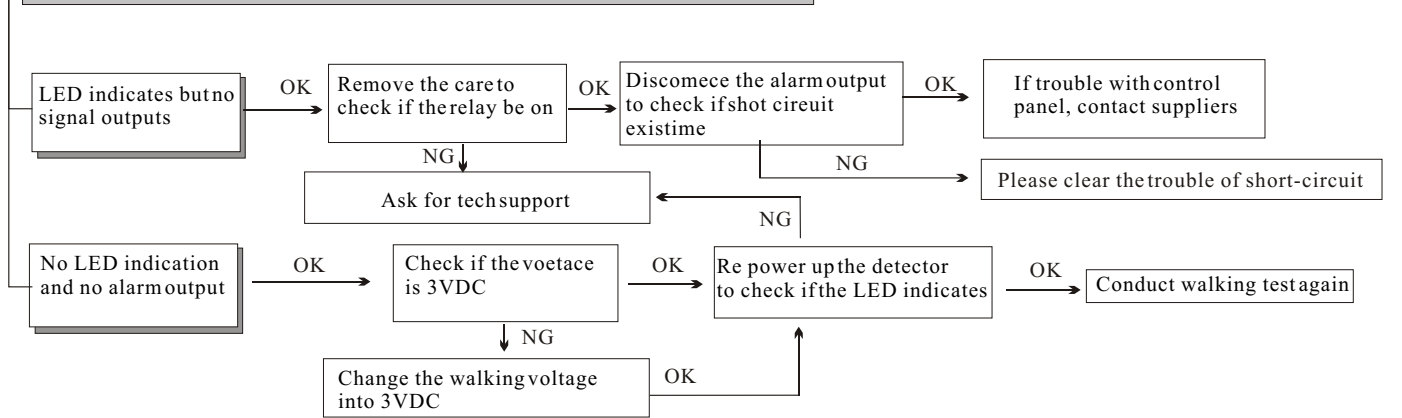
- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one that supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.



WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

5. Solution of usual problem

Conduct walking test in detection coverage, but no alarm output



False alarm

