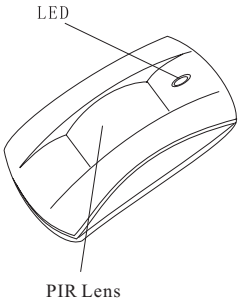
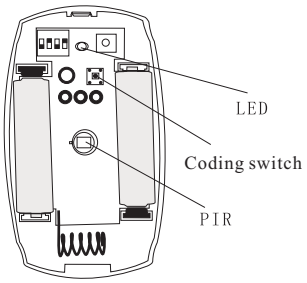
Installation Guide of DM-448R PIR Intrusion Detector

1. Introduction

DM-448R series is a viewfinder passive infrared detector which adopts digital micro-processor with energy-pile up-logical process, random dynamic time split technology. The PIR parts adopt precision column lens to upgrade receiving effect, higher sensitivity but lower false alarm. With the buit in battery and the exclusive electricity save up model, it can be used for a long time of as twice as the other brand detectors.



Picture 1:
appearance



Picture 2:
internal structure

2.Specifications

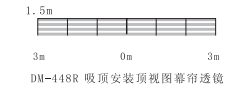
Models:
DM-448R

Detection Range: 6M
Transmit Distance:20-30M

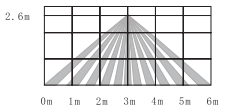
Current Drain:About 10 μA (common)
10mA(alarm)
Delay time : 15S-140Sadjustable (3greed optianal)
PIR Section: Lens Data
In area：18+2 (Typical)
Max. Coverage：6*1.5m /90°
Alarm output radio transmit

working frequency: 433MHz

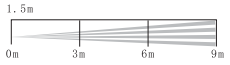
Alarm indication:
Red LED lighting for 2 second



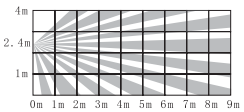
DM-448R 吸顶安装顶视图幕帘透镜



DM-448R 吸顶安装侧视图幕帘透镜



DM-448R 墙壁安装顶视图幕帘透镜



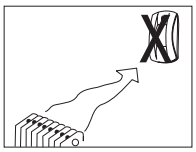
DM-448R 墙壁安装侧视图幕帘透镜

Mount:
hanging or ceiling mount: 1.8-2.8m

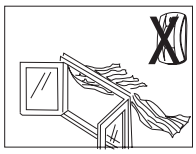
Environment:
Working Temperature: -10° C to 50° C(14° F to 122° F)
Storage Temperature :-20° C to 60° C (-4° F to 140° F)
Anti white light : ＞8000 LUX
Dimension:
H*W*D: 90*50*40m m

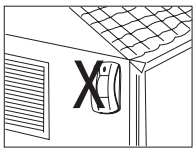
3.Installation

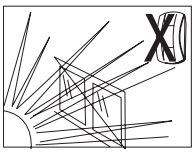
3.1 General Guidelines



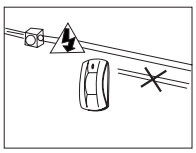
Don't face cold
or heat directly



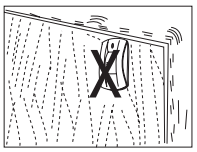




Don't face the sun-
shine directly

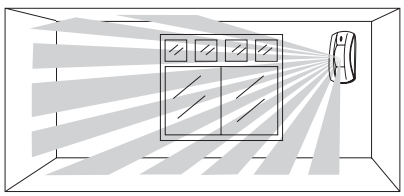


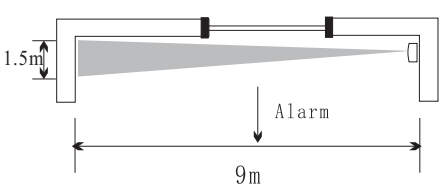
Do not install near
high-roltage cables

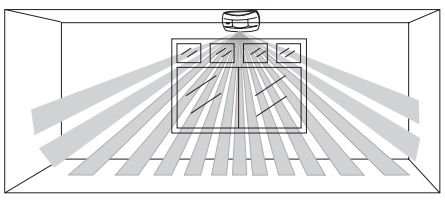


Don't face metal wall

3.2 Anti-pests installation

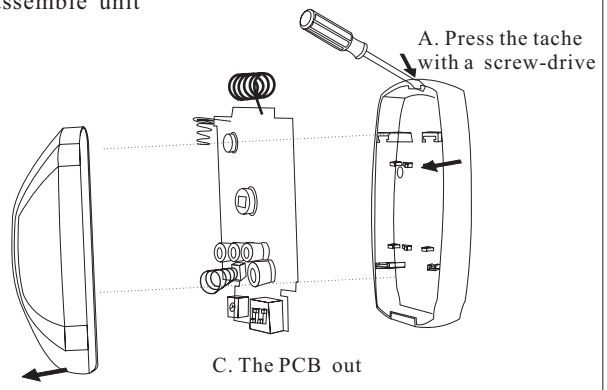






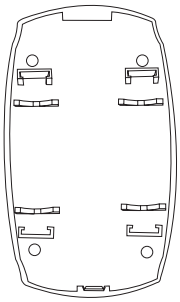
3.3Illustrated Installation Procedure

1、Disassemble unit



2. 安装基础:

1.8-2.8m beyond ground



Surface mount

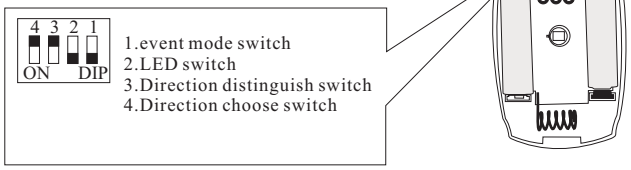
A. Mark the drilling points and drilling the wall

B. Insert two dowels and attach the base to the wall with two screws

C. Insert the bottom edge of the large PCB under this TAB & Press the top edge in

3.4 Instruction of code switches

1. NO .1switch is for event mode, when set “OFF”, the detector will alarm when detecting any movement follow input the enacted directed ;when set “ON”, when it detect movement following the enacted directon, ut won’t alarm at once, until detect continuous and keeping on movement, it will alarm (fit for room without passage)
2. NO .2 switch is LED switch, LED light when setting “ON”,during working
3. NO .3 switch is for direction distinguish, when set “ON”, this funtion available; when “OFF” ,any movement from any direction will trigger alarm
4. NO .4 switch is for direction choose, left/right fit for different surrounding

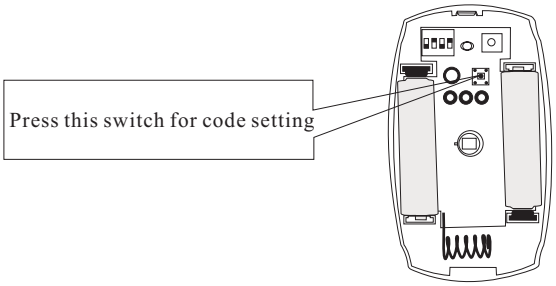


3.5 The code way of detector and the control panel.

Code setting:

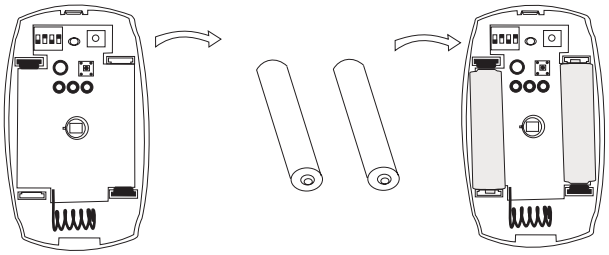
Install the battery insulation slice, the LED gives indication..

Please do code program to the alarm control panel at this time. After the setting of the control panel tamper, press the dismantling switch, Then the detector will generate deep to indicate successful operation.



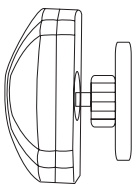
3.6 How to change battery

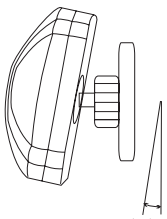
When the detector batlery is weak, it will send out single to the control panel, at the same time, the detector flashes indicating at you need to change battery for the detector. Draw the PCB board; follow the steps as below to change 4 new battery. (as right picture).

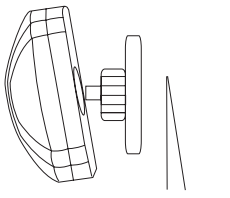


3.7、Setting of detection angle

When installing with a swivel bracket (optional) .please refer to the right diagram, to ensure the desired (overage and feature).







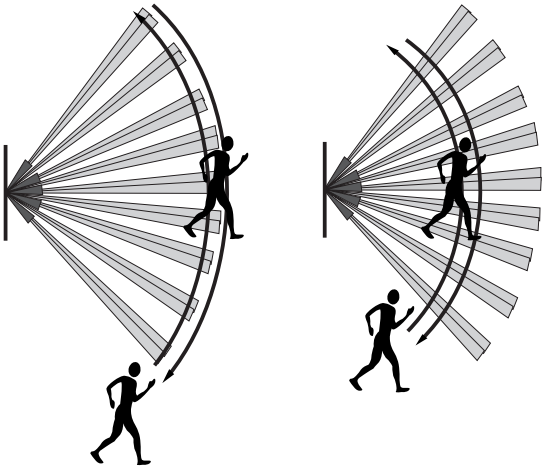
At this angle, sensitivity is in middle. Pet immunity up to 10Kg

At this angle, detection angle is largest, Lower section sensitivity is low. Pet immunity up to 20Kg

At this angle, detection angle is smallest, sensitivity is highest. Loss pet immunity function.

3.10、Perform walking test to the detection area: install the cover and close the fasten part (refer to the right diagram)

1. Start the test at least 2 minutes after connecting power supply
2. Walking breadthwise at the remote and of the detection coverage at the speed of 0.75m/s within 3m, then will trigger the detector and the LED indications 2-3seconds.
3 .Testing in different direction to confirm the two boundaries of the coverage, ensure the detector is appoint to the central desired area.
4. At 6m away from diliclor , raise slowly your arm and reach into the detection zone, mark the lower limit of PIR detection. Do the same step to confirm the upper limit.
5.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.
6. After MW sensitivity or detection angle are adjusted, walking test must be performed according to the above steps.



The testing period and working period

Testing period: after charge or the temper proof 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 6minutes, 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 any body 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 any body 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 time6 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.

Important mention: Motion test shall be performed at least one time each week in order to guarantee that each detector can keep excellent function.

4.Special comments

Even the most sophisticated detcetors 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 shouldbe 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 digitaldevice, 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 ins-tructions ,may cause harmful in-terference to radio and t-elevision reception. However, there is no guarantee that interference will not occur in aparticular installation .If this device does cause such interference , which can be verfied by turning the device off and on ,the user is encouraged to eliminate the interference by one or more of the followingmeasures:
- 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 expericnced 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