# DM-448R DMT intelligent direct-recognize PIR intrusion detector

1.Introduction

DM-448R DMT is a style of intelligent direct-recognize curtain PIR intrusion detector, it adopts energy-pile up logical process, random dynamic time split technology. DM-448R DMT series adopt precision column lens to upgrade receiving effect, with high sensitivity but without false alarm. It can recognize direction, and install mode optional. With anti-tamper function, you have no worry about someone to dismantle. Fit for indoor installation, and work with common battery, unique energy-svaing mode enable the work life of battery longer than one year.

LED

LENS

Appearance

LED
Anti-tamper switch
PIR

Internal structure
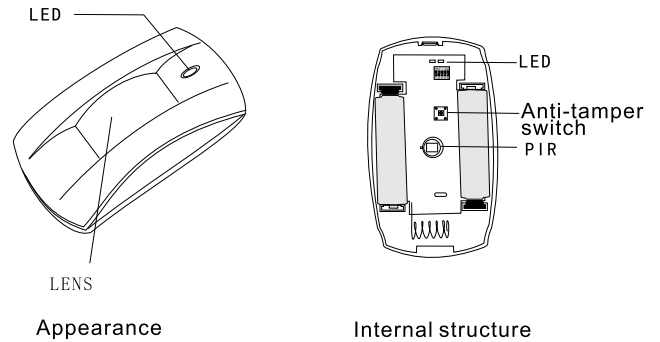
2.Specification

Model：DM-448R DMT

Detect angle:20。
Detect distance：6m/25℃
Transmit distance: 150m（open air）
Input voltage：3VDC（2*1.5V）
Current consumption：
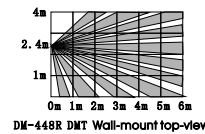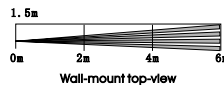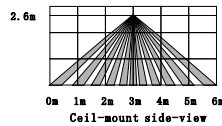   Static≤25μA，Alarm≤15mA（433MHz）
    Static≤25μA，Alarm≤50mA（868MHz）
Alarm output：wireless signal transmitting
Anti-tamper output：wireless signal transmitting
Transmitting frequency：433MHz /868MHz
LED indication：Red LED and Blue flashing at the same time:alarming;Blue LED flashing alone: detect people move in the right direction,but no alarming(when you turn pirection function ON)
Note：when low battery, please change new one in time.

2.6m

0m 1m 2m 3m 4m 5m 6m
Ceil-mount side-view

1.5m

0m   2m   4m   6m
Wall-mount top-view

4m
2.4m
1m

0m 1m 2m 3m 4m 5m 6m
DM-448R DMT Wall-mount top-view

wall mount height：1.6-2.4m
Ceil mount height: 2.5-4m
Woking temperature：-10℃-50℃（14℉-122℉）
Storage temperature：-20℃-60℃（-4℉-140℉）
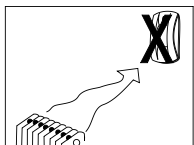Anti white light：more than 8000 LUX
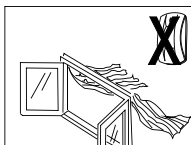Anti EMI：more than 30V/m 30MHz-1GHz
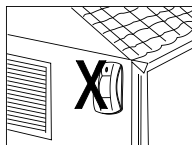Dimension:
（L*W*H）：90*50*40mm
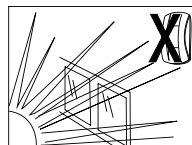
3.installation

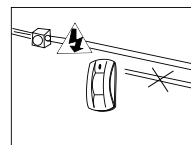### 3.1General guidelines

Do not face cold or hot directly
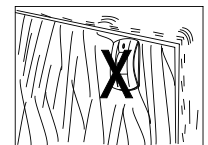
Do not open the window in protect area

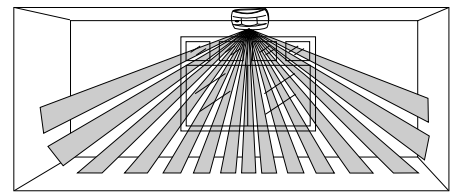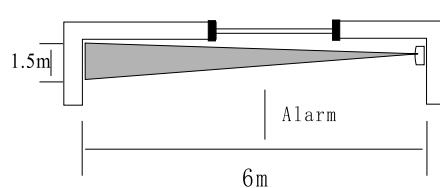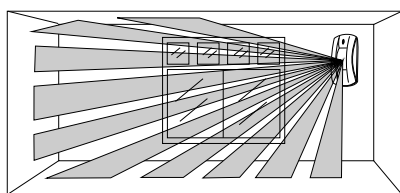Do not install outdoor

Do not face the sun directly
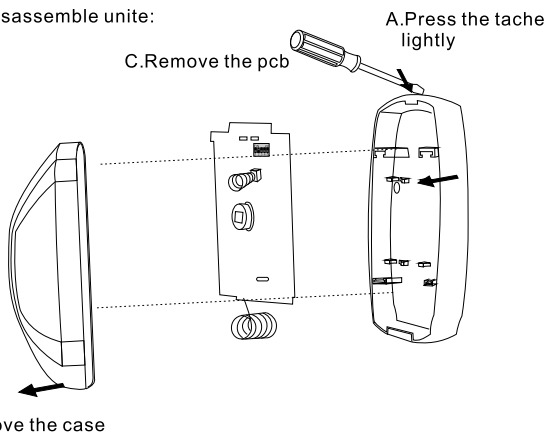
Do not instal near high voltage cable

Do not install on a loose basement

3.2 installation

1.5m

Alarm

6m

3.3 On installation procedure

① Disassemble unite:

C.Remove the pcb

A.Press the tache lightly

B.Remove the case

②Install the base cover:

A.Mark the drill point on the wall

B.screw in to fix the base cover

C.install the pcb in the cover
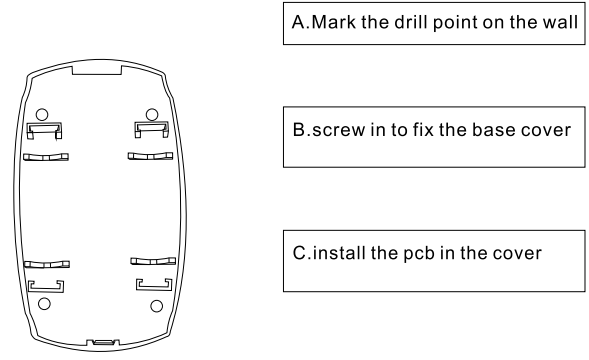
3.4 Instruction of code switch

ON   DIP
1 2 3 4

1,2. Mode option switch
3. Direction option switch
4. Direction change switch
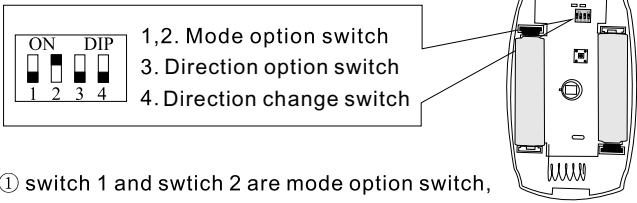
① switch 1 and swtich 2 are mode option switch, work mode see below：

1	2	Work mode
ON	OFF	Test mode
OFF	ON	Power save mode
OFF	OFF	Coding mode

The detector can set below three work mode:

Test mode:there are 20s dormancy stage after detector alarm. It won't alarming within dormancy stage.This model as factory default.

Power-saving mode:there are 3 mins dormancy stage after detector alarm,and no alarm within this period.

Coding mode：press the anti-tamper switch for3s, and send a code to receiver

② Function of Switch 3 and switch 4 see below

Switch	Function	Default
3	Direction option switch	OFF
4	Direction convert switch	OFF

Switch 3：Direction option main switch. When set this switch "ON", direction recognize function if effective, when set "OFF"，direction recognize function is ineffective.
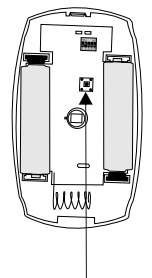
Switch 4：Direction convert switch. If set this switch "OFF" and detect direction is from left to right, then you can set this switch "ON", the direction is from right to left.

Switch 5：alarm delay or instant option switch. set switch 1and switch 2 as test mode and set direction recognize switch 3 as On，and this switch set OFF. Then if user pass through the permit direction and trigger the detector, but if user get back in 15seconds,the detector wont make alarm. If after 15s, user get back through the protect area, the detector will make alarm. Set switch 3 "ON", switch 5 "ON", if trigger the detector, and pass in non-permit direction in 3minutes the detector won't make alarm. If pass in non-permit direction it will make alarm.[we suggest user set switch 5 OFF（15s）under noraml work mode].

Note：when direction recognize function On，in 5meters it can recognize direction clearly, but if further than 5 meters will cause false discriminate.

3.5 Code to control panel

Make sure first the detector is under coding mode, then press the anti-tamper for 3s then release. After hear the panel's indication sound then finish coding. About the panel coding setting please read the manual of panel.

Press this switch to code