

# DT-8250DMF Anti-cloak PIR & MW intruder detector

## 1. Introduction

DT-8250DMF is dual Technology(PIR and MW) with Anti-Cloak intrusion detector. It adopts digital memory focus (DMF™) technology and Microprocessor for digital processing. It has high sensibility within the range from 2 meters to 11 meters and can calculate the cubage, speed and such as parameter of motion objects. By using the advanced biological simulation identification software, it wells settles the false alarm by pets. With high detection and false alarm immunity performance, it can free from false alarm of 20kg or below pets such as cats, insect, mouse and birds. It has very good pet-immunity function. By using selective good filter lens, it can be widely used indoor. It can free from the avoidless interference of other regular indoor detectors and basically settle the false and lost alarm. Its performance is much better than other pass infrared intrusion detectors.

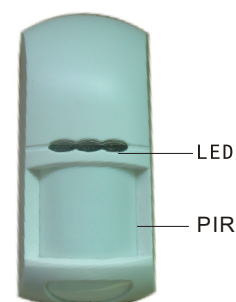


Figure1 overall view

## 2. Specification

Mode:

DT-8250DMF

Input voltage: 9-16VDC

Current consumption: about 19mA@12VDC

Infrared range(as shown in right figure)

Optical lens data

Infrared area: 9+5+3 (typical)

Max. coverage area: 11\*11m (36\*36ft)/90°

Alarm and tamper switch

Alarm output: Solid relay, NC

less 100mA/30V,--10Ω internal impedance

tamper switch: NC, 50mA/30VDC

less 100mA/30V,--10Ω Internal impedance

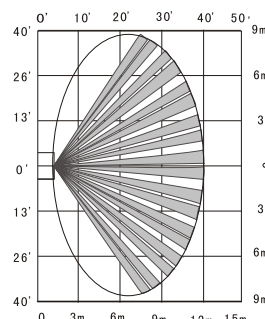
Alarm indication:

Yellow light is MW

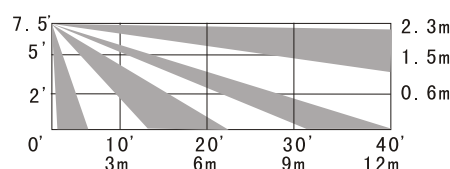
Green light is infrared

Red light is Alarm

Red light flicker is anti-shelter indication



Top view



Side view

Installation:

Surface or corner mount, height 1.8-2.4m(6-8ft)  
Notes: The single side of the base to wall

at 45 degree is allowed

Working environment:

Working temperature: -10℃-50℃ (14°F-122°F)

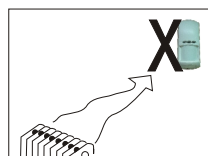
Storage: -20℃-60℃ (-4°F-140°F)

Anti-EMI: Above 20V/m (20 MHz to 1000MHz)

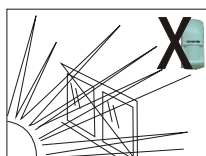
Anti-white light: >9000LUX

## 3. Installation

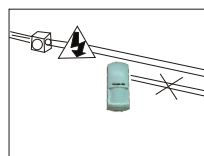
### ①、Installation notes



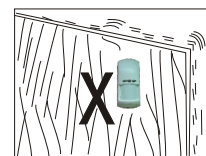
Don not face cool or heat source directly



Do not face the sunshine directly!



Wire connection or detector should be away from High-voltage cable

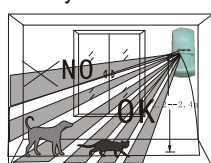


Do not install on unstable object

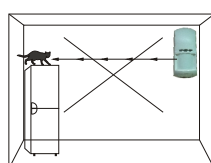


Do not install facing the metal wall

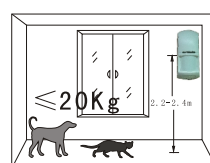
### ②、Pet-immunity Manual



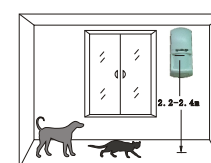
The top part of detection area is non pet-immunity area



Never face the detector to the place that pets can climb up directly



Pet immunity: <=20Kg pets



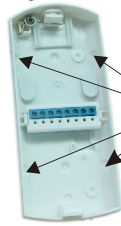
Pet immunity installation height: 2.2-2.4m

### 3.3 installation

①.Disassemble procedure:



②.wall mount without bracket  
height: 1.8-2.4m



45° wall mount

②Install the base cover:

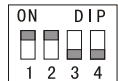
A.Mark the drill point on the wall

B.screw in to fix the base cover

C.install the pcb in the cover



3.4、DIP Switches function:



Number	Function	ON	OFF
1	LED	ON	OFF
2	Antii-shelter alarm output	AM	AM+ARM
3	ACT	ON	OFF
4	Temperature compensation	OFF	ON

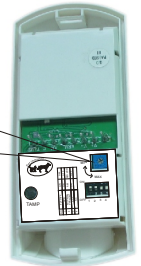
DIP1: LED optional ON/OFF

DIP2: Anti-shelter alarm output optional, ON is AM output, OFF is AM and ARM output.

DIP3: ACT optional. ON is to close ACT, OFF is to restart ACT.

DIP4: Temperature compensation function optional. ON is to close it, OFF is to restart it.

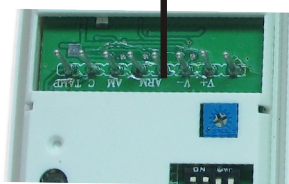
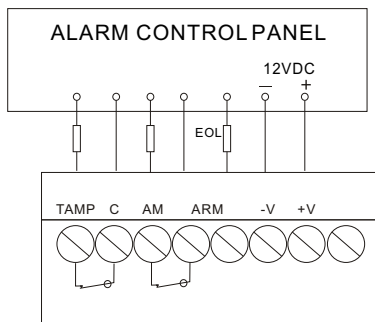
3.5、MW sensitivity control



MW sensitivity control:

To get a better control of detection range and avoid false alarm, you can use the MW sensitivity control to adjust the proper detection area. Extend the detection area by turning counterclockwise and vice verse.

3. 6、Wired diagram:



DT-8250 DMF PCB

3.7 Walk-test on the coverage area:

Assemble the front cover(as shown in figure)

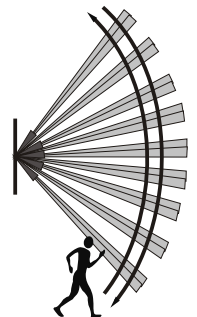
① Electrify and self-check then start walk-test.

② Walk across the end of coverage area, the indicator LED should light red for 2-3 seconds.

③ Do walk-test in opposite direction to confirm the boundary of both sides. Make sure the detection centre pointing to the centre of protected area.

④ Slowly put hands up the detection area where 3-6 meters away from the detector and mark the bottom border of the PIR alarm. Repeat to confirm the top border.

⑤ Make sure the detection centre at the proper place. Should properly adjust the detection area if you can not get an ideal detection range.



**Important!:** Suggest do walk-test once a month to assure the proper function of each detector.

### 4. Customer service

Our products are very reliable, but for some special reasons, the working performance will be limited in certain range. We here list some cases as follows:

- ①. The voltage of control panel is not stable;
- ②. Low-voltage of the detector.

For any help please contact with our company and you could visit our website for more information.



**Warning:** We are not responsible for the problem caused by incorrect operation by users!