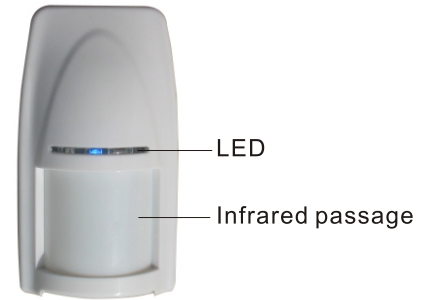


DT-81R DMT WIRELESS PIR INTRUSION MANUAL

1. Introduction

DT-81R DM Tis PIR intrusion detector with pet immunity function. It adopts DMT and it is a digit micro processing control intrusion detector. It adopt dual technology PIR and MW to avoide falase alarm. With fine cylindrical FRESNEL lens, it effectively improves energy saving efficiency and high sensitivity and free of false alarm. By using advanced patented software, it can tell difference between the real intruder and other interference factor witch may result in false alarm. It has super strong detection sensitivity and lower false alarm. Pulse counting can be adjustable. It is widely used in various indoor applications and free from the false alarm which other similar indoor detector can not avoid. Built-in big capacity lithium battery, power-saver mode, its working life is up to 2 year or above.



General view

2. Specification

Model:

DT-81R DMT

Detection range: 9 m (25°C)

Emitting distance: 150m (in the open area)

Input voltage: 6VDC (model CR123A lithium battery)

Current consumption:

Static $\leq 20 \mu A$, Alarm $\leq 18mA$

infrared area(as shown)

Optical lens data

detection angle: 90°

emitting frequency: 433/868MHz

LED indication:

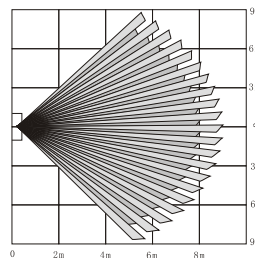
PIR alarm, red led light on 3s

Microwave alarm, blue led light on 3s

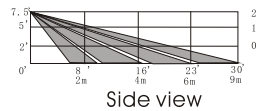
PIR+Microwave alarm, red and blue led light on 3s at the same time.

Tamper alarm, red led flash 5 times.

Check-alive signal, blue led flash 5 times.



Wall mounting wide angle lens view



Side view

Low battery signal, red led flash quickly 3 times.

Wireless alarm output: wireless alarm signal status

Reports: send a monitor signal every 120mins to report the status of detector and battery.

Mounting:

Surface or corner, at the height of 2.0 to 2.4m

Note: Base allows single-sided corner mount at 45° to wall

operation condition:

Operating Temperature: -10°C to 50°C (14°F to 122°F)

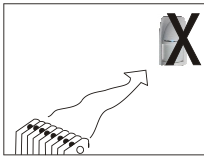
Storage Temperature: -20°C to -60°C (-4°F to 40°F)

Anti white light interference: 6500 LUX (indoor)

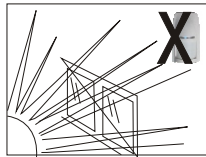
Size: (L*W*H)95*64*49mm

3. Installation

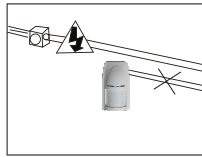
3.1 Notes



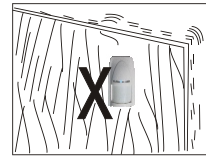
Don't face cold or heat directly



Don't face the sunshine directly



Do not install near electric cables

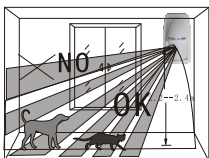


Don't install on a unstable base.

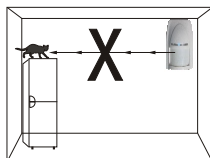


Don't face metal wall

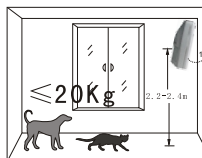
3.2 pet-immunity guidebook



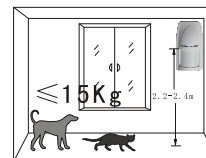
the top of the detecting area is the non-pet-immunity area



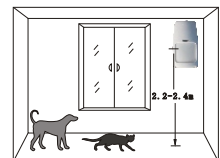
prevent direct the places where the pets can climb up



the pet is smaller than 20kg



the pet is smaller than 15kg



The installation height of 2.2m to 2.4m is available pet-immunity height

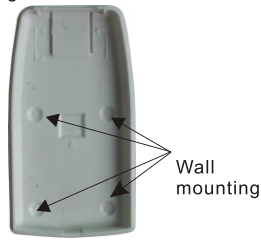
3.2 Illustrated installation procedure

① Dismantle:



A. Insert the screwdriver

② Wall mounting without brackets: 2.0-2.4M above ground



Wall mounting

B. Mark the drilled hole and drill

C. Insert two expandable dowels and attach the base into wall by four screws

D. Replace the dismantled parts to base cover

③ Bracket mounting (optional) :



4. Dip switch function specification

DT-81R can choose following detection mode.

2 pulses: after detecting 2 pulses, it will send alarm signal (factory default)

3 pulse: after detecting 3 pulse, it will send alarm signal.

More pulses means less sensitivity, but also can decrease the false alarm.

DT-81R apply both PIR and microwave technology, it can choose two working mode below

And mode: when both PIR and microwave detects intruder, it will give alarm signal.

Or mode: when PIR or microwave detect intruder, it will give alarm signal.

Alarm Led on/off: for special cases, users can set alarm led visible or not according to the needs.

DT-81R can set two alarm modes as below

5mins mode: after alarm, there is 5mins dormancy, trigger the detector during this time, will not alarm.

15mins mode: after alarm, there is 15mins dormancy, trigger the detector during this time, will not alarm.

Testing mode: after alarm, there is 3s dormancy, trigger the detector during this time, will not alarm. (factory default)

1	ON	3-PULSE	SET PULSE
	OFF	2-PULSE	
2	ON	PIR OR MW	WORK MODE
	OFF	PIR AND MW	
5	ON	LED ON	ALARM LED
	OFF	LED OFF	

3	4	ALARM MODE
NO	OFF	15MINS MODE
OFF	ON	5MINS MODE
OFF	OFF	TESTING MODE

5. Coding method between detector and panel:

Coding setting:

① Set detector as Normal mode, place the battery and LED will flash seconds.

Set panel as Coding mode. (Panel coding please refer to panel manual), within 3 seconds when press the configure key of the panel:

a. Wave hands near the front side of DT-81R DMT, detector will send a alarm signal to the panel. If the panel sounds a response then code successfully.

b. Inverse the detector and detector will send alarm signal to the panel, vibration switch, if the panel sounds a response then code successfully.

② Enter the address code to code with the panel. Set the panel as manual coding mode and enter the 9-digit address code. This will be a higher Probability of coding success.

6. Change battery:

When the voltage of the detector is lower than 4.8V, the control panel will receive low battery signal.

After that, each 2 hours, it will send low battery.

The user should buy the same battery and change.

Place new lithium battery



7. Walk test in coverage area:

① Set as Test Mode to proceed walk-test, pulse count set as 1,2 or 3.

② Walk across the far edge of coverage area at the speed of 1 step/second (about 0.75m/s)

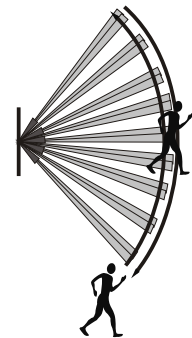
The LED will flash for seconds then alarm (as shown in the right figure) .

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

⑤ After adjust the detection angle , should redo the walk test as above.

⑥ Please change TEST mode to NORMAL mode after the Walk-test .



8. 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 your could visit our website for more information. .



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