

# User Manual

Dual-tech sensor BP-PIRMW01



*Enjoy it.*

# 1. Brief Introduction

BP-PIRMW01 is an anti-pet type passive infrared and microwave combined digital random processing control intrusion detector using random dynamic time division (DMT™) technology. The detector can calculate parameters such as volume and speed of moving objects, and has extremely strong sensitivity. With advanced "biological simulation recognition" software, it can make an accurate judgment whether the real intruder or other interference factors that may cause false alarms. It has ultra-high detection and anti-false alarm performance, will not cause false alarm for the activities of a pet under 20KG such as cats, insects, mice, and bird lights, and has advanced anti-pet functions. Using the optional super filter can adapt to a wide range of indoor occasions. It can eliminate the shortcomings of various types of ordinary indoor detectors that cannot overcome interference, reduce false alarms and omissions, and its performance far exceeds that of other passive infrared intrusion detectors.

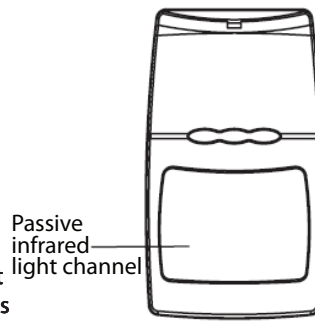


Fig. 1 Overall appearance

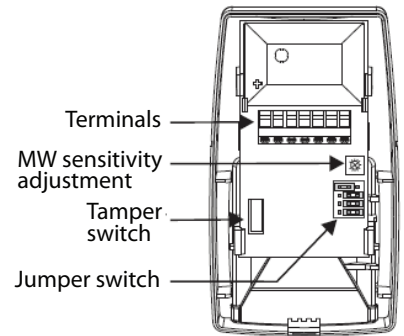
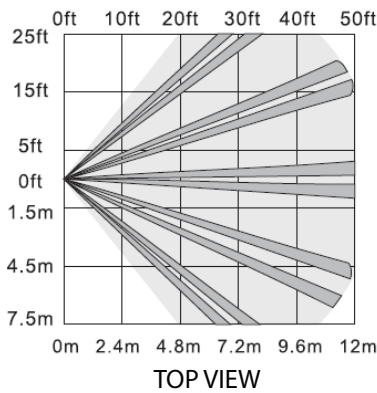


Fig. 2 Internal structure

# 2. Specifications

Model: BP-PIRMW01  
 Detection distance: 12m / 25°C  
 Power supply voltage: DC9-16V  
 Working current: ≤45mA

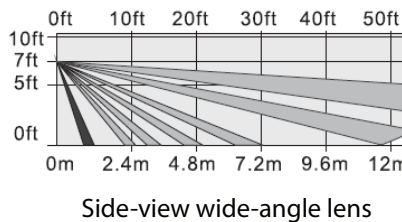
Infrared part (as show on the right)  
 Optical lens data  
 Infrared area: 89  
 Maximum coverage area: 12m x 12m / 90°



Alarm and Tamper  
 Alarm output: Reed switch, normally closed  
 Less than 100mA / 30V, -10Ω internal impedance  
 Tamper-proof interface: normally closed, 50mA / 30VDC  
 Alarm output duration: 2s

Alarm indication  
 Yellow light - microwave triggered alarm  
 Green light - infrared triggered alarm

Red light-alarm indication  
 In or mode, an alarm will be generated when single-passive infrared or microwave is triggered



In the mode, the alarm must be triggered after infrared and microwave are triggered at the same time

Power-on self-test time  
 In 60 seconds, three indicators flash one by one during the self-test.

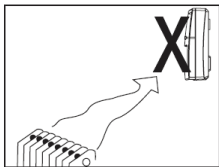
Fault prompt  
 Preheating failure - yellow light flashes 4 times within 5s  
 PIR signal failure - green light flashes 3 times within 5s  
 MW signal failure - yellow light flashes twice quickly within 5s

Installation  
 Wall or corner installation, the installation height is 1.8 - 2.4m above the ground  
 Note: The base allows one-sided wall corners to be installed at 45°

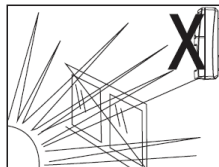
Working environment  
 Indoor temperature: -10°C ~ +55°C  
 Anti-white light interference (indoor): ≥6500LUX  
 Anti-radiation interference: 30V / m, 10MHz - 1000MHz  
 Appearance size: (L\*W\*H without bracket): 124\*71\*41.5mm

# 3. Installation

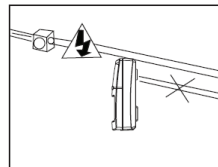
## 3.1 Installation notes



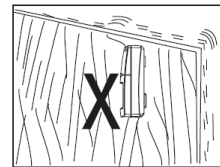
Don not face cool or heat source directly



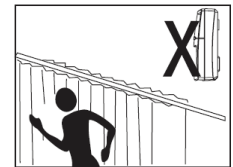
Don not face the sunshine directly



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

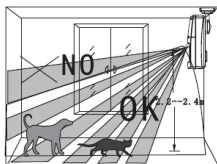


Don not install on unstable object

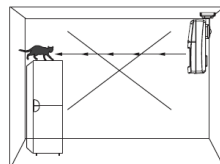


Don not install facing the metal wall

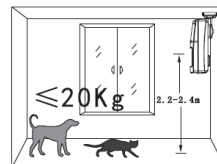
## 3.2 Pet-immunity manual



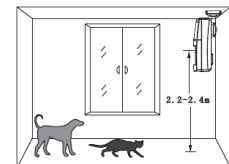
The top part of detection area is non pet-immunity area



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



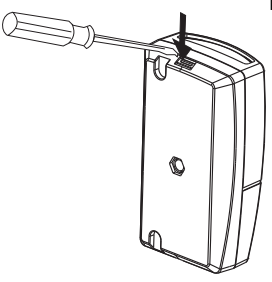
The immunity: ≤20kg pets



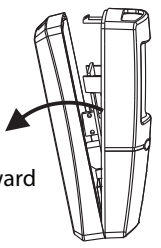
The pet immunity installation height: 2.2 - 2.4m

**3.3 Installation**

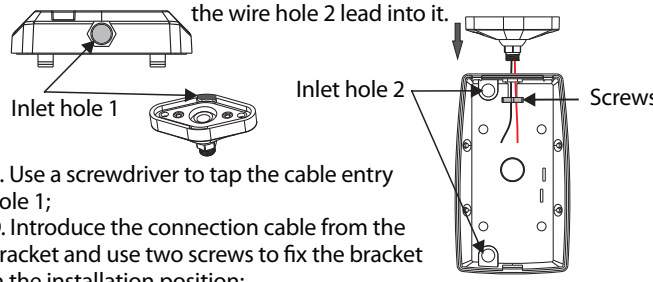
A. With a small flat tip screwdriver into the hole



B. Take out the bottom shell outward



Note: The user can also choose to knock into the wire hole 2 lead into it.



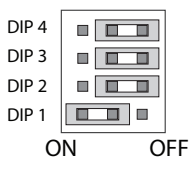
C. Use a screwdriver to tap the cable entry hole 1;

D. Introduce the connection cable from the bracket and use two screws to fix the bracket in the installation position;

E. Lead the connecting wire into the bottom case, insert the bracket and screws and tighten;

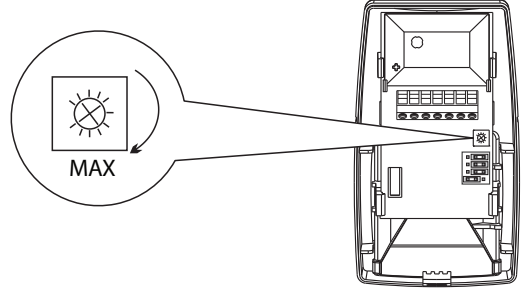
F. Connect the terminal and close the shell

**3.4 Jumper switch function description**



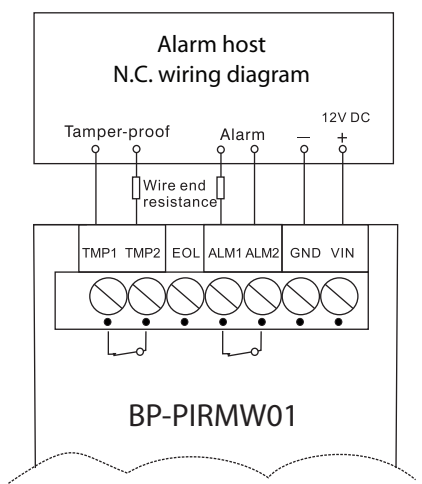
NO.	ON	OFF
1	LED ON	LED OFF
2	OR	AND
3	NO	NC
4	LOW	HIGH

**3.5 MW sensitivity control**



Circumvole clockwise means more sensitivity then otherwise, it is less sensitivity.

**3.6 Terminal connection**



Alarm host  
N.C. wiring diagram

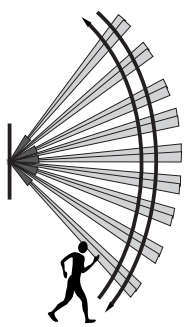
BP-PIRMW01

**3.7 Walk-test on the coverage area**

Assemble the front cover (as show 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: To ensure continued good probe function, It is recommended to walk test the detector every three months.



## 4. Customer service

Our products are very reliable, but for some special reasons, the working performance will be limited incertain 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 incorrect operation by users.

For Inquiries, Please contact:

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Tell: +381 11 318 68 68  
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