



Wireless PIR Sensor Instruction Manual WR-5002-PMS

RFzone Automations Pvt. Ltd.
Living Simplified

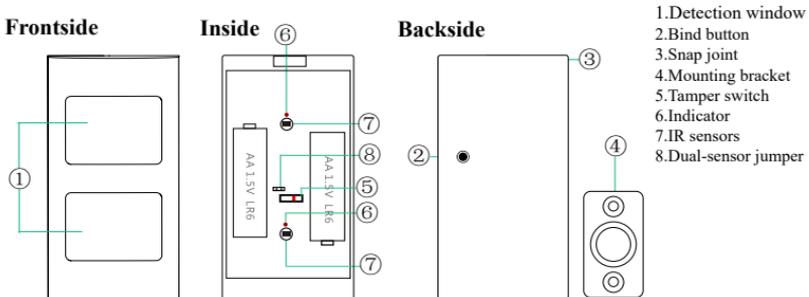
Descriptions

Dear users, please read this manual carefully before using this product. Wretro's wireless PIR sensor adopts dual sensor technology and intelligent analysis algorithm, it can detect the human motion signal in the 8 meters right ahead conical space and effectively reduce the ambient interference. The battery standby time and reliability are observably improved owing to the ultralow power consumption technology and two-way wireless communication technology. This product be used with Wretro's Smart Gateway

Main Features

- ▶ Fully-digital, highly reliable, large coverage, low power consumption, two-way wireless network
- ▶ Ultralow power consumption, battery life observably extended
- ▶ Low battery notification
- ▶ Single window/dual window sensor mode can be set manually
- ▶ Temperature compensation
- ▶ Anti-white light, anti-electromagnetic interference
- ▶ Anti-pet interference for 20kg

Product Structure Diagram



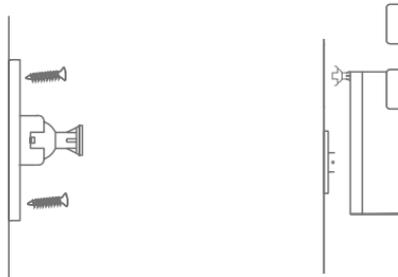
When gateway is armed, once the tamper switch is triggered, the gateway will alarm immediately. If human motion was detected again within 3 minutes since the last human motion was detected, the indicator won't be on, neither the alarm will be sent to gateway. When the sensor is low battery, the low battery signal will be sent to gateway. The siren of gateway wouldn't hoot but the notification will be sent to user.

If the jumper is connected, dual sensor will be active. Also the Anti Pet Interference feature will turn on – that is – Motion of the pets will not be detected. If the jumper is disconnected, only the upper sensor will be active. Also, it will turn off the “Anti Pet Interference” feature in the sensor – that is motion of pets will also be detected. The tamper switch inside the sensor will help in sending the alert to Wretro’s Smart Gateway in case the intruder tries to break the sensor.

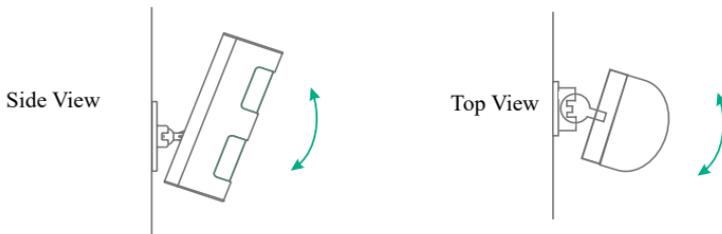
The battery must be removed each time before changing the mode of "Dual-sensor jumper". Press the "Bind button" 10 seconds after changing the mode, so that the battery can be loaded, otherwise the PIR might not work properly.

Installation

1. Determine the installation location: Recommended installation height is 2 - 2.2 meters from the ground.
2. Fasten PIR sensor: Draw the position of 2 bracket screw holes point to the wall, drill holes and then insert anchoring to fix the bracket on the wall. After the bracket fixed, take the PIR sensor to seize the bracket and to be fixed.

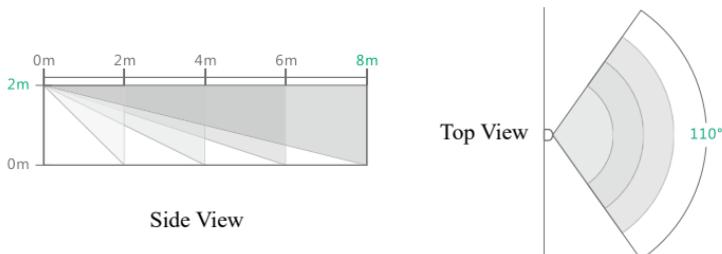


3. **Adjust the angle:** Adjust the angle of PIR sensor to get the best detection coverage.



Note: If anti-pet interference function is needed, the back of PIR sensor must be parallel to the wall.

4. Detection Area:



Attention:

1. The best installation area is the nearby of main motion passageway.
2. Please choose the most suitable installation angle according to the actual situation. The detection sensitivity is highest when the orientation of PIR sensor is 90 degrees to the human motion orientation.
3. **Avoid the PIR sensor being mounted at the place face the window, the strong light, stream of people, vehicle and other issues would interfere the detection accuracy.**
4. **The installation location should keep away from heater, air conditioner, refrigerator, microwave oven and other objects that can generate cold and heat energy.**

Binding

Bind the door sensor with Smart gateway before use. Long press the bind button for 5 sec, the indicator will continuously flicker and send out binding request. Add a new smart device binding on Wretro App. You can refer to the instruction manual of Smart Gateway for the detailed procedure

Technical Parameters

Power Supply	3VDC (two AA LR6 1.5V alkaline battery)
Current	Standby current: Single-sensor mode: $\leq 10\mu\text{A}$ Dual-sensor mode: $\leq 16\mu\text{A}$ Alarm current: $\leq 30\text{mA}$
Detection Coverage	8m/110°
Wireless Operating Frequency	433MHz
Wireless Transmit Power	$\sim 10\text{dbm}$
Wireless Receiving Sensitivity	$\leq -105\text{dbm}$
RF Control Coverage	about 30m indoor, 100m barrier free
Anti-pet Interference	$\leq 20\text{kg}$
Operating Temperature	$-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$
Relative Humidity	$\leq 80\%$ (Non-condensing)
Dimension of PIR Sensor (L*W*H)	108mm \times 57mm \times 39.2mm
Dimension of Bracket (L*W*H)	48mm \times 26mm \times 29mm
Weight	115g (battery included)

Guarantee Terms

This products is guaranteed for 2 years since the date of purchase. During the guarantee period, if Wretro product malfunctions (does not contain artificial damages) under normal circumstances, they can be free repaired or exchanged. The guarantee will be void if the product is disassembled without the permission of our company.

