

# **Wireless Curtain PIR Detector**

**V1.0.0**

This product is an indoor wireless PIR curtain detector which outputs alarm signal when someone intrudes armed zone and uploads it to wireless alarm controller via wireless module to generate alarm.

Applicable model: ARD1611-W

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# 1. Important Safeguards and Warnings

Please read the following safeguards and warnings carefully before using the product in order to avoid damages and losses.

Note:

- Do not expose the device to lampblack, steam or dust. Otherwise it may cause fire or electric shock.
- Do not install the device at position exposed to sunlight or in high temperature. Temperature rise in device may cause fire.
- Do not expose the device to humid environment. Otherwise it may cause fire.
- The device must be installed on solid and flat surface in order to guarantee safety under load and earthquake. Otherwise, it may cause device to fall off or turnover.
- Do not place the device on carpet or quilt.
- Do not block air vent of the device or ventilation around the device. Otherwise, temperature in device will rise and may cause fire.
- Do not place any object on the device.
- Do not disassemble the device without professional instruction.

Warning:

- Please use battery properly to avoid fire, explosion and other dangers.
- Please replace used battery with battery of the same type.
- Do not use power line other than the one specified. Please use it properly. Otherwise, it may cause fire or electric shock.

## Special Announcement

- This manual is for reference only.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.

## **2. Before Use**

1. Do not touch surface of the detector and the lens, so as not to affect the sensitivity of the detector. If you need to clean the detector and the lens, please turn off the power and use a soft cloth dipping some water to do so.
2. Avoid using the device in an environment of large temperature change, otherwise it will affect the performance of the product.
3. This product can reduce accidents, however there is no guarantee. For your safety, in addition to proper use of the products, but also be vigilant in daily life,.

### 3. Product Appearance

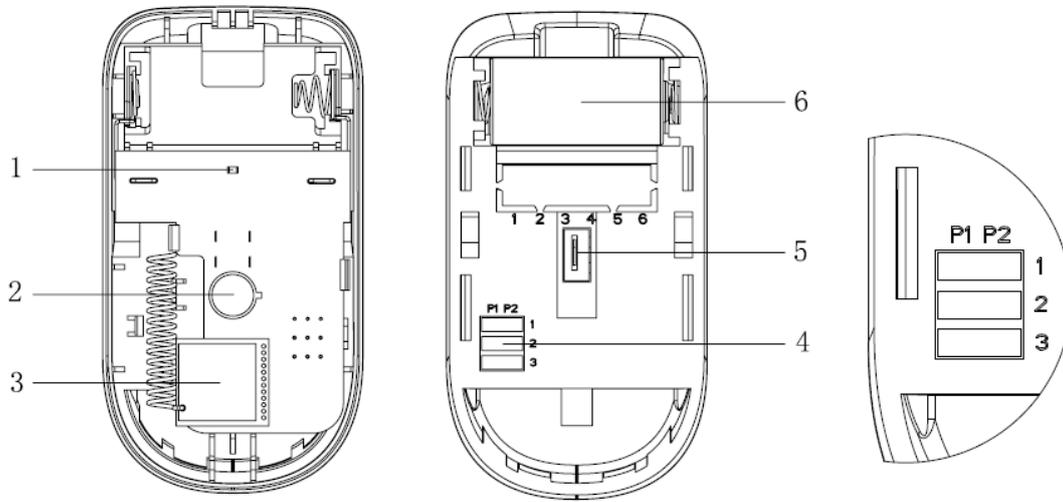


Figure 3- 1

No.	Note
1	● Led
2	● Heat release IR sensor
3	● Wireless module
4	● Jumper cap
5	● Vandal-proof switch
6	● Lithium battery

## 4. Product Features

- Dual-element digital sensor improving accuracy of detection
- One-step detection technology, adjustable sensitivity
- Digital anti-visible light technology, anti-visible light  $\geq 6500\text{LUX}$
- Digital temperature compensation technology, fitting environment change
- Sensor distance: 10 meters, detection angle:  $15^\circ$ .
- Standard bracket, support horizontal and vertical installations
- Housing anti-vandal proof and protect device from leaving wall
- Communication frequency 433MHz, distance 1km (open space)
- Low power consumption, built-ion battery duration about 3 years

## 5. Detectable Range

The detector has a detectable range, the top view is in Figure 5- 1. Detection angle is horizontal  $15^\circ$ .

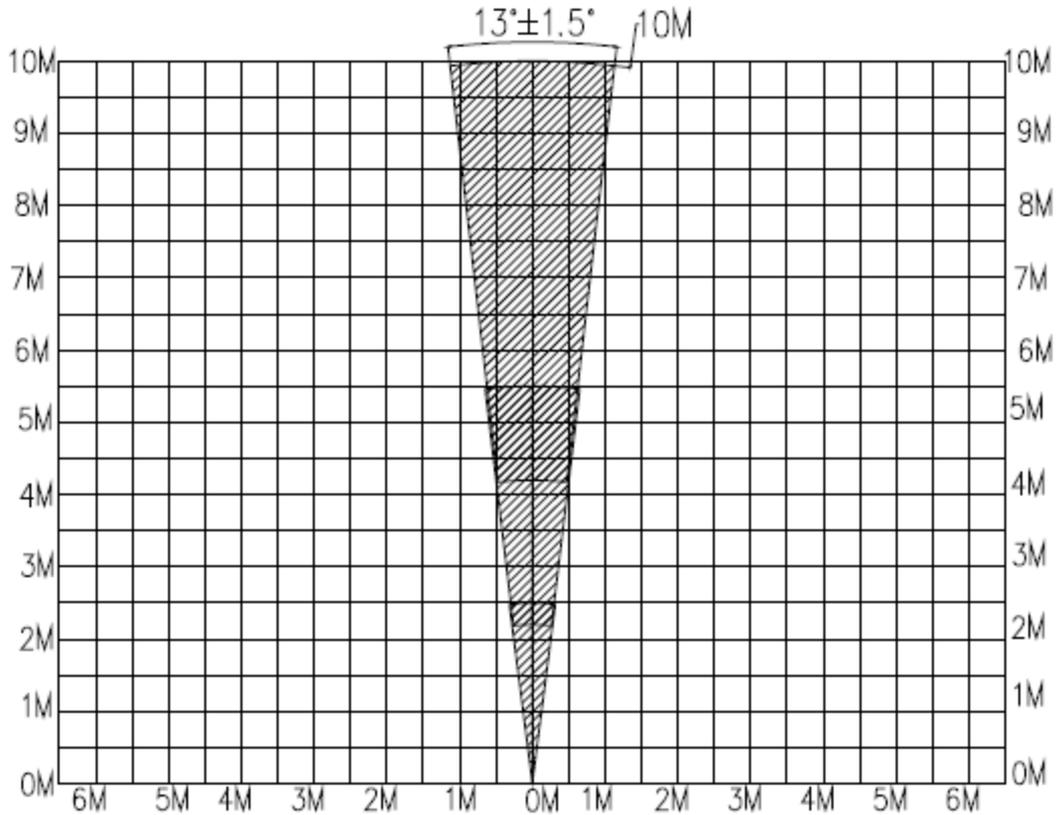


Figure 5- 1

The side view of detectable range is in Figure 5- 2. Max detectable distance is 10 meters and min detectable distance is 1 meter.

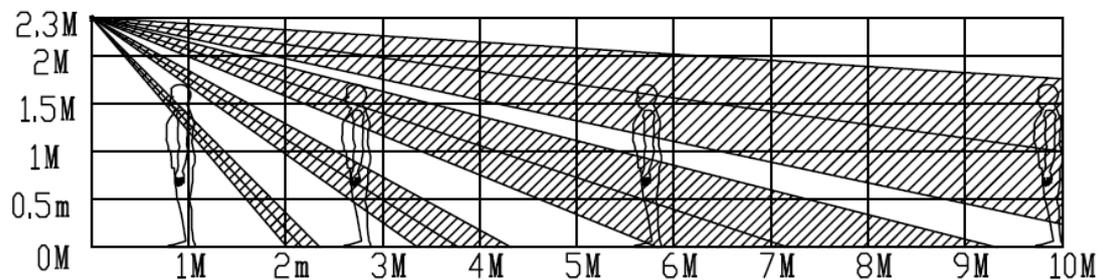


Figure 5- 2

## 6. Device Installation

### Warning:

- Installation and debugging must be executed by professional staff. If you encounter device failure, please do not open and repair the device, you shall contact its after-sales department.
- Avoid installation in environment under direct sunlight.
- Avoid installation in environment with fast wind speed change.
- Avoid installation in environment of high temperature.
- Avoid installation in environment where there is anything that could be a shield in the area.
- Avoid installation in places with a large amount of metal objects.

Steps to install:

Step 1. Take down bracket which is installed at bottom case of the detector. See Figure 6- 1.

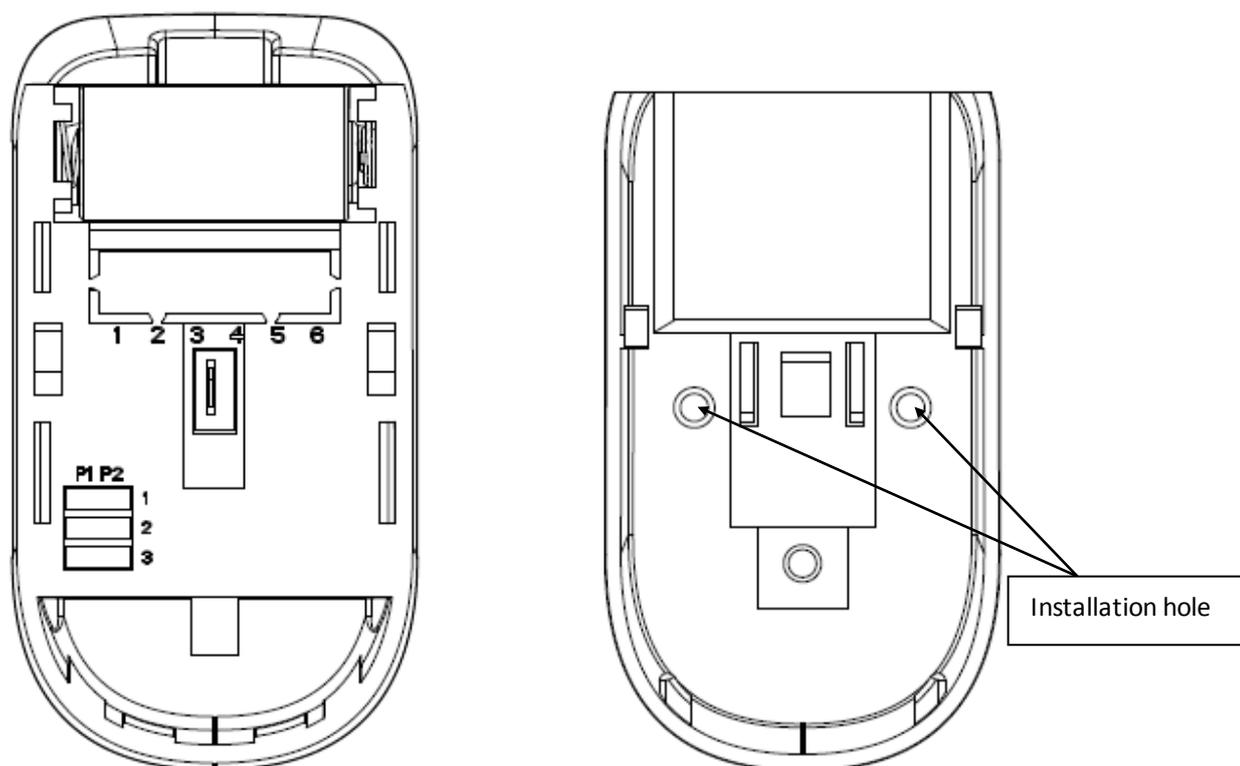


Figure 6- 1

Step 2. Dig through the hole on bracket for installation.

Step 3. During installation, make the bottom of bracket parallel to the wall, fix screw on wall through hole on bracket, and then hang detector on installation bracket by placing the holes on detector onto the hook of bracket. See Figure 6- 2.

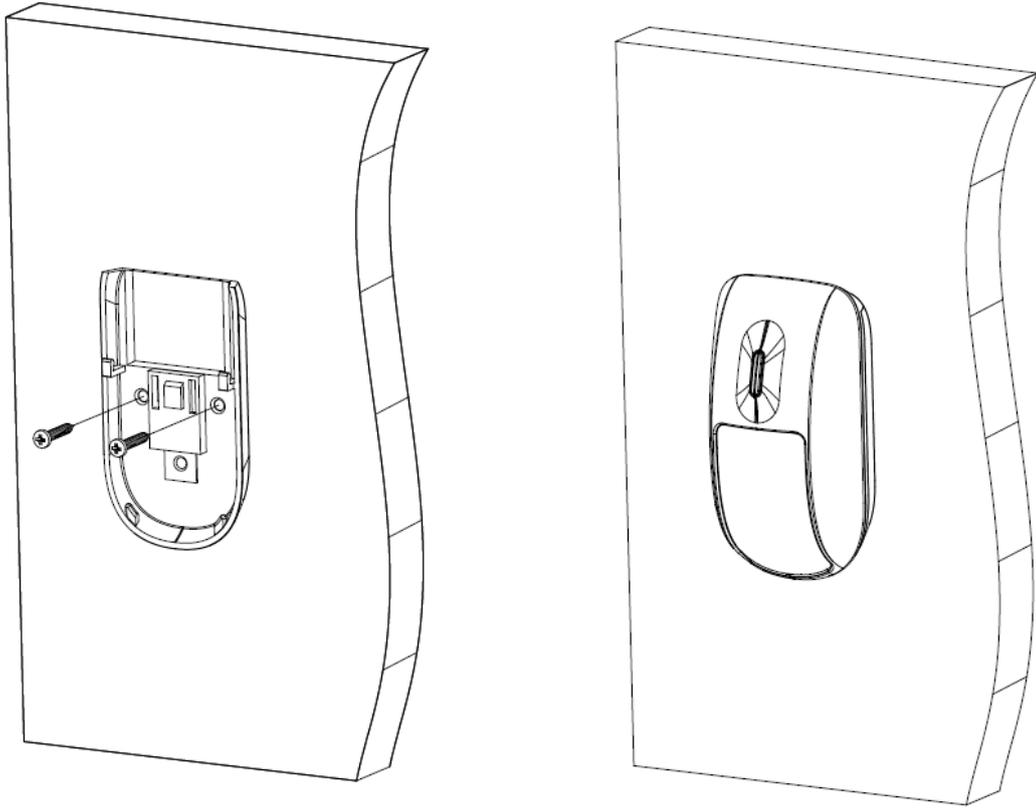


Figure 6- 2

## 7. Use of Product

### LED Setup

You can set LED jumper stitch to control LED indicator. Indicator have two mode: ON and OFF.

You can set two shifts at position of jumper stitch: 1&2(P1) and 2&3(P2), select P1 as LED-OFF and P2 as LED-ON. Default mode is LED-ON.

Note:

Operation of detector will not be affected.

### Pulse Count

You may set P.COUNT (pulse count) pulse according to product usage environment and detection distance.

You can set two shifts at position of jumper stitch: 1&2(P1) and 2&3(P2), select P1 to be first level pulse, and P2 to be second level pulse. P2 is selected by default. Please note that P2 detectuon has higher sensitivity than P1 detection.

### Installation Test

You can test the working status of detector, see:

Within the detectable area of detector, test by normal walk speed of 1m/s, and the red indicator keeps ON for 2 seconds. This represents that IR has been triggered, detector is in alarm status now and outputs alarm signal, so red indicator turns ON.

## Appendix 1 Technical Specifications

Parameter	Note
Detection Method	Dual element PIR
Detectable Range	10m, 15°
Alarm Prompt	Red LED, may set OFF
Sensitivity	Two levels (jumper cap)
Carrier Frequency	433MHz
Transmission Power	10dBm
Transmission Distance	1km (open space/no interference)
Anti-visible Light	6500LUX
Vandal-proof	Prevent device from leaving wall
Installation Height	2.2-2.5m
Installation Method	Vertical installation and horizontal installation
Dimensions	99*52*35mm (L*W*T)
Weight	0.1kg
Working Temperature	-10°C~50°C
Working Humidity	< 95%

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