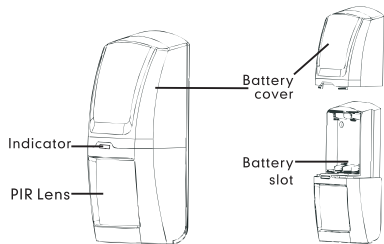# Wireless PIR Detector
## User Manual
Shenzhen Chitongda Electronic Co., LTD.

### 1. Brief introduction

This product is a special home and business PIR detector with delicate and modern design (appearance has patent), adopting the latest technology of smart logic IC and high-performance sensor to achieve high stability and avoid alarm failure (please contact us for customized design if anti-strong Alight is required).
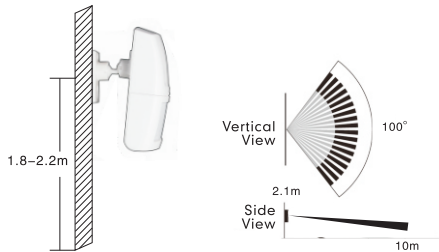
Battery cover

Indicator

PIR Lens

Battery slot

1). Front View

2). Remove the battery cover, insert 4 AAA dry batteries into the slot and close the cover.

Switch to ON

on off

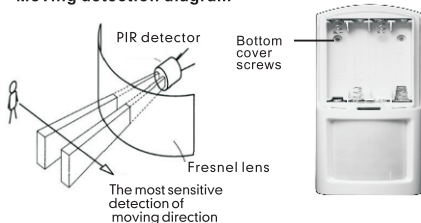3). Switch to ON to turn on the power.

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1.8–2.2m

Vertical View 100°

2.1m

Side View

10m

4). Hang on the PIR detector to the bracket and fix it to the wall by screws in the standard pack kit. Keep it 1.8-2.5M above the ground, and then adjust detecting angle and direction.

#### Moving detection diagram

PIR detector

Bottom cover screws

Fresnel lens

The most sensitive detection of moving direction

5). Check the detecting area and distance by walking test until the whole defense zone is covered.

6). If it is necessary to adjust parameters, please first remove the cover and take out the batteries. Please use screwdrivers to take out screws of the bottom cover.
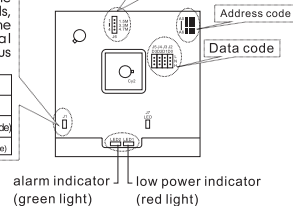
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7) Separate the bottom cover as the above picture shows.

9). Parameters such as oscillation resistance can be adjusted in the corresponding position of PCB board.

| | |
|---|---|
| 1&2 short circuit: | 1.5M |
| 2&3 short circuit: | 3.3M |
| 3&4 short circuit: | 4.7M (default) |

8). Adjust re-detecting time to 5 seconds, 50 seconds, or 5 minutes. This time means the interval between two contiguous alarms.

| Trigger time interval: | | |
|---|---|---|
| 1&2 short circuit: 5 s | (default) | |
| 2&3 short circuit: 50s | (normal mode) | |
| No short circuit :5m | (time-saving mode) | |

Address code

Data code

alarm indicator (green light)

low power indicator (red light)

### 2. Installation

1) Detectors should be installed on the wall 1.8-2.2m above the ground (please refer to picture 4).
2) Adjust detecting angle, try to make it face window and keep it vertical with walking direction (please refer to picture 5).
3) Keep it away from heat, air conditioners and air convection areas (or close the door/ window when arming).
4) No obstacle or floating object is allowed (such as flower, grass, clothes and curtain that will be easily be wafted by wind) in the detecting area.

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5) Detectors should be installed firmly without any waving and shaking.
6) Don't install it exposed to direct sunlight.

The above requirements are primary to avoid false alarm and alarm failure, please pay attention when installing.

### 3. Test and Coding

1) Set the alarm panel to coding status (please refer to the alarm panel manual), then trigger the detector by hand (or walking in front of the detector) to make it send wireless signal to the alarm panel for coding.
2) After successful coding, install the PIR detector. Please pay attention to the installation height and detecting area. Make sure the switch is powered on after adjusting angle and height.
3) After installation, please follow the 5th point in Part 1 for walking test until the best defense effect is achieved.

### 4. Indicator

Green indicator on: sensor is triggered and send alarm signal
Red indicator on: battery is in low power status, please change it.

### 5. Technical Parameters

Sensor: Passive IR sensor with low noise
Working voltage: DC6V, (4pcs AAA 1.5V dry batteries)
Static current: <60uA
Alarm current: <20mA
Working Temperature: +5~+45℃
Humidity: ≤95% (no fog)
Transmitting frequency: 433.92MHz
Transmitting distance: no obstacle 80M
Detecting distance: 12M max
Detecting angle: Horizontal 110°, Vertical 60°
Coding method: PT2262 or EV1527 optional
Dimension: 112*60*38mm

④

IMPORTANT REGULATORY INFORMATION

This device complies with Part 15 of the FCC Rules:

Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference that is received, including any interference that may cause undesired operation.

WARNING:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.