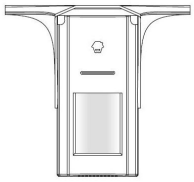

CHUANGO PIR-926 Solar-Powered Dual-Tech Motion Detector User Guide

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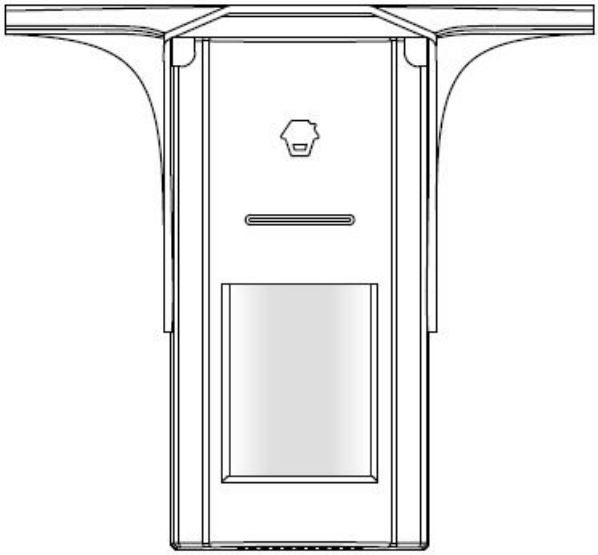
CHUANGO PIR-926 Solar-Powered Dual-Tech Motion Detector



Introduction

PIR-926 is a solar-powered motion detector utilizing a single passive infrared element and microwave technology. It consists of digital dual-core fuzzy logic infrared control chip and intelligent analysis which could effectively identify interference signals from body movement signals so as to reduce false alarms. The detector is battery powered and kept re-charging by the solar panel to save energy. Unique housing material and structure improve its waterproof level for outdoor use. Only after being connected successfully with alarm system, the detector can work normally.

Features

Accurate detection

- It has microwave and infrared dual detections to prevent false alarms.
- It consists of digital dual-core fuzzy logic infrared control chip and intelligent analysis which could effectively identify interference signals from body movement signals.
- With automatic temperature compensation and anti-air turbulence technology, it easily adapts to environmental changes

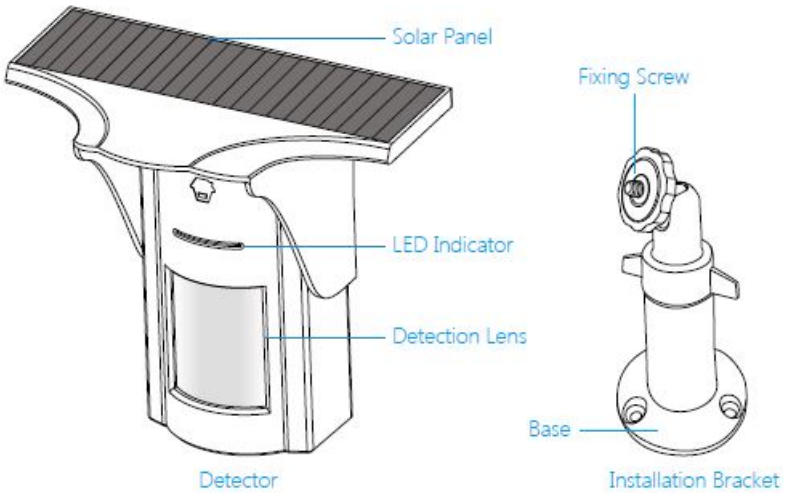
Outdoor use

It adopts ABS and anti-UV materials for outdoor use with IP65 rating.

Energy saving

- Rechargeable by solar power.
- Energy saving mode to reduce battery charging times, and extending battery life.

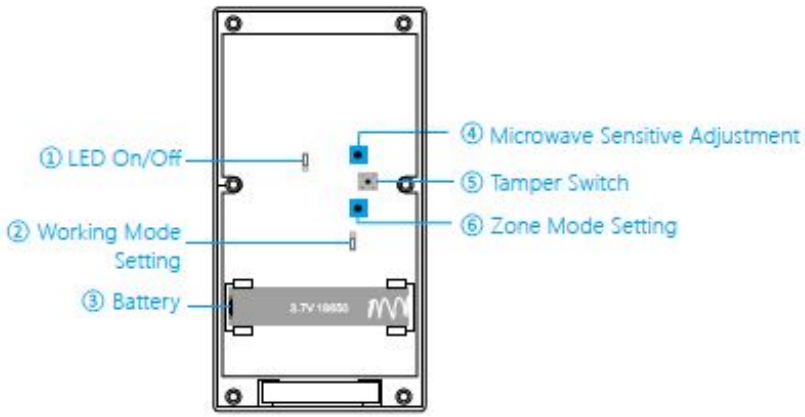
Product Overview



LED Indication

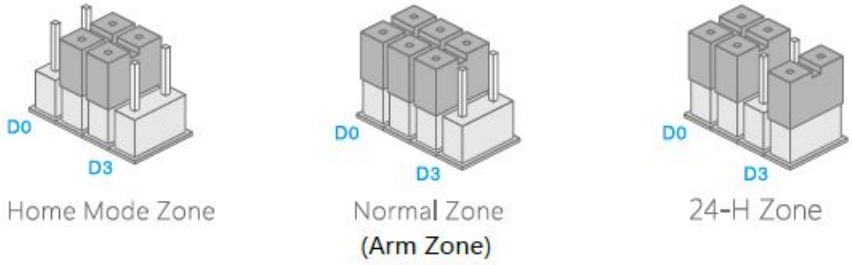
LED Status	Meaning
Red and orange LEDs flash continuously for 1 min	Self-testing
Red LED flashes once	Infrared is triggered
Orange LED flashes once	Microwave is triggered
Red and orange LEDs flash once at the same time	Both infrared and microwave are triggered, the detector sends alarm signal.
Red LED flash 3 times every 12 seconds	Low battery. Please install on place with sufficient sunlight

PCB Layout



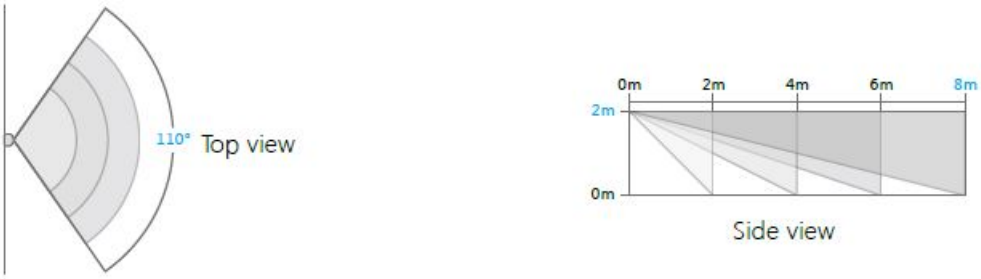
1. LED options: ON/OFF (default setting is ON).
2. Working mode options: 10S=Test mode, 5MIN=Power saving mode (default setting is test mode).
3. Battery: One piece of 18650 rechargeable lithium battery.

4. Microwave sensitivity adjustment options: HIGH, MEDIUM, LOW. (default setting is medium).
5. Tamper switch: In working state, if the housing is opened, detector will send alarm signal.
6. Zone mode options: Normal zone (Arm Zone), home zone, 24-H zone (default setting is normal zone). You can change the zone mode of this detector as follows: Open the rear cover of the detector, change the array of jumpers to the corresponding position as below:

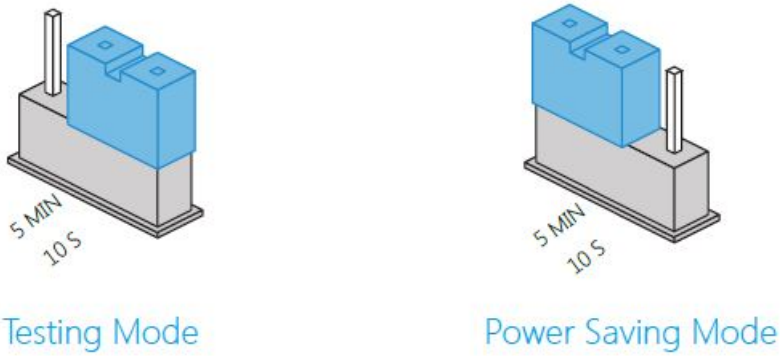


Normal zone (Arm Zone): In arm or home arm state, the detector set at normal zone will trigger an alarm once an intrusion is detected. Home zone: In-home arm state, the detector set at the home zone is disarmed. 24-H zone: The detector set at 24-H zone will trigger an alarm once intrusion is detected, no matter the system is armed or disarmed.

Detection Scope



Working Mode Selection
After the battery is loaded, the detector enters into 1 min self-testing with the red and orange LEDs flashing continuously, and then it starts to work according to the pre-set working mode.



Testing mode (default setting):
The detector detects once every 10 seconds.

Power saving mode:
The detector enters a 5-minute testing mode firstly, and then switches to power saving mode. If the detector detects movements twice in 5 minutes, it automatically goes into asleep state. If there is no movement detected in

next 5 minutes, it will switch from asleep state to arm. As long as there is a movement detected within 5 minutes, the duration of power saving mode will be extended.

Note: It is suggested to set the detector in power saving mode for daily use to save power.

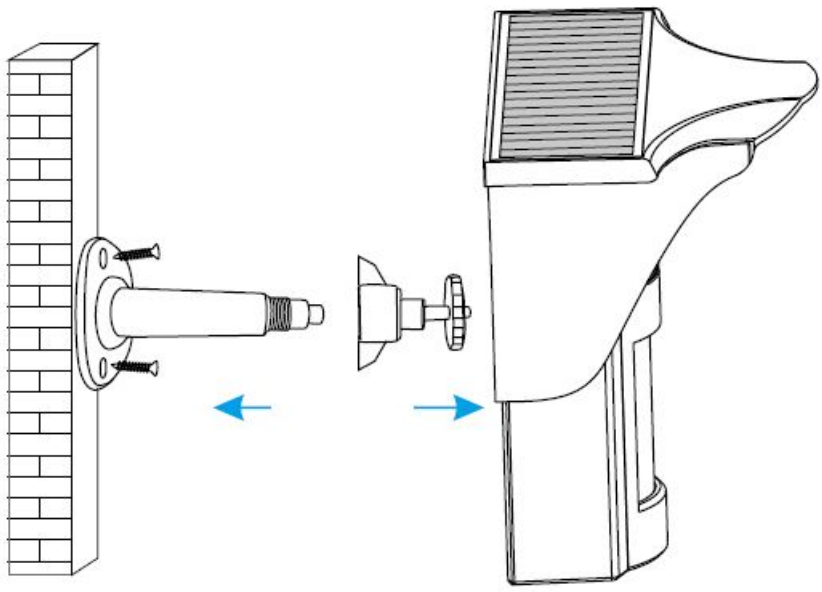
Test

Remove the battery activation strip. After red and orange LED flash continuously for 1 min, it enters working state. By then, put the detector on a shelf, walks from the left to right (or right to left) within the detection scope to trigger it, red and orange LEDs will flash once. This indicates the detector is working properly.

Installation & Notices

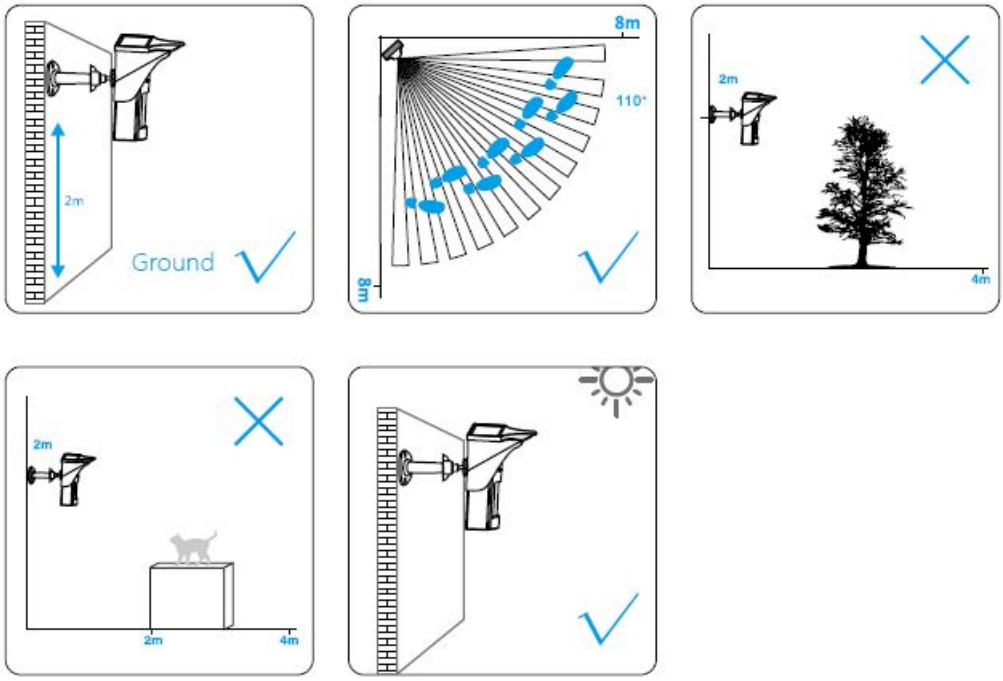
Installation steps:

1. Make the attachment bracket and base apart.
2. Fix the base on the right place (see notices).
3. Tighten the attachment bracket with the detector.
4. Tighten the attachment bracket with the base and adjust to proper



Notices:

1. It is recommended to mount the detector at height of 2 m from the ground.
2. The detector is more sensitive to cross-movement than vertical movement, so it is suggested to mount it facing vertical to the walking direction of people.
3. Please avoid putting big objects in front of the detector which will influence the detection.
4. Please avoid any cases that pets can climb over to avoid false alarms.
5. As it is a solar-powered detector, please install it where adequate sunlight is ensured.



Connect to Control Panel

Make sure the control panel is in pairing state, trigger the detector to alarm until the panel gives out a beep, which indicates the connection succeeded. Arm the system, trigger the detector again, and the siren of control panel will hoot to confirm that the connection is successful.

Specifications

- Power supply: 18650 3.7 V 1800 mAh rechargeable lithium battery
- Standby current: < 0.16 mA
- Solar panel output current: 2000LX illumination ≥ 4 mA
- Battery standby time: <150 days
- Detection scope: 8 m/110°
- Wireless transmitting distance: < 80 m (in open area)
- Radio frequency: 433 MHz
- ERP (dBm) .: -2.94
- Operating condition:
- Temperature: -20°C ~ + 55°C
- Relative humidity: < 90% (non-condensing)
- Housing material: PC+ABS+ANTI-UV
- Detector dimensions (L x W x H): 186 x 200 x 125 mm
- Bracket dimensions (L x W x H): 58 x 58 x 120 mm

Documents / Resources

	CHUANGO PIR-926 Solar-Powered Dual-Tech Motion Detector [pdf] User Guide PIR-926, Solar-Powered Dual-Tech Motion Detector, PIR-926 Solar-Powered Dual-Tech Motion Detector

Manuals+.