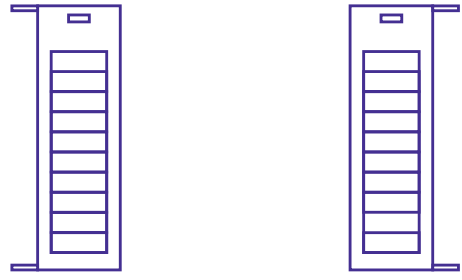


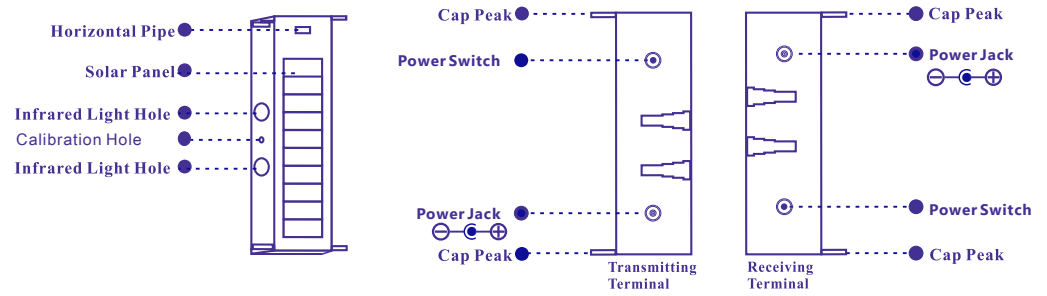
User Manual for Solar-Powered 2-Beam Wireless Infrared Detector



01 Product Overview

Solar-powered 2-beam Wireless Infrared Detector is new-type user-friendly product, it has obtained technical patent. Its can be charged by natural light, or other weakness light sources. It can be used in houses, schools, workshops or other residential areas. It's suitable for both home or commercial perimeter intrusion.

02 Name of Parts



Remarks: each solar panel have 2 switches(white:ON/OFF button, Red: Power Jack),when charge the beam by DC 5-12V(current>100mA), please take off the red button, pay more attention about cable's positive and negative terminals.

03 Installation Precautions

1 Never install detector at an inclined angle.

2 Make sure that there is no obstacle between the transmitter and receiver.

3 Multiple detectors for long distance defense should be according to picture, or signal interference would be occurred.

4 Keep infrared hole not exposed to direct sunlight.

5 High-voltage tower and signal tower may influence wireless transmission distance.

Other Important Precautions

- Before installation, remove the plastic film on the solar panel of the detector.
- Never install the detector near doors, passages, or any other areas with continuously trigger alarm 50 times per 24 hours.
- To be solar wireless product, it shall not be installed, tested or operated indoors or any dark place without sunlight. (light intensity should be ≥ 1800 LUX). If wanna be used indoor, suggest link extra cable to support.
- trigger times should be ≤ 50 times, installed indoor prohibited, which may impede normal operation of this product, and even cause damage to this product.
- Before first operating this product, Please follow the technical guide to operate.

Special statement:
Any loss or damage resulting from improper operation or unfollow the instruction, users take responsibility.

04 Operating Phenomena

- ① ON: short press switch of transmitter & receiver 1 time to start detector. Transmitter & Receiver lights up, it means already started. 7 seconds later, 3 relay sounds for self-check
- ② Coding state: after start the detector, pair transmitter and receiver, they keep on lightening, until matched well each other, transmitter goes out, receiver blinks slowly.
- ③ Working state: receiver blinks from slow to quick within 15 seconds, until goes out.
- ④ Trigger: Running, transmitter & Receiver light off. Block 2 infrared hole besides, receiver lights on, meanwhile, it send signal to host unit.

Remarks:

- ① Once start detector, two terminal lights on. Within 1 hours, unmatched each other, they turns off, until repaired well, it works and with 3 relay sounds.
- ② Over 2 hours stable work, trigger detector, without any blinking.

05 Installation Method

① iron accessories and brackets

iron parts used for adjust detector direction of right or left.

iron parts used for adjust detector direction of front or back.

Fasten iron cross part and rectangular iron part with screws, pay attention to screw direction.

Impact Drill

the iron brackets same height

Fix and buckle as picture, according to actual height of detector. Impact drill a hole on the wall, fix and screw iron brackets, keep two frames in one standard level.

② screws

the screw No.3
the screw No.4
the screw No.2
the screw No.1
the screw No.5

③ Calibration

step one: calibrate transmitter
keep bubble in the middle of green level

step two: calibrate receiver
keep bubble in the middle of green level

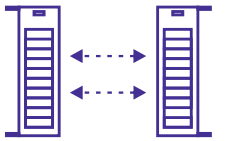
the middle of your sight

a. firstly, fasten and tight screw No.1, place the detector, then fasten screw No.5.
b. calibrate the beams through the hole, ensure the other sensor in the middle position of your sight by adjusting the screw. Make sure laser points at the other terminal of detector. Calibrate receiver and transmitter one by one.
c. slightly adjust screw No.3 & 4, direction from left to right or right to left.

06 Installation & Calibration Precautions and Test Methods

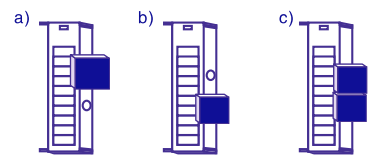
Calibration Precautions

- make sure detector already started.
- make sure detector in one line (keep bubble in the middle of green level)
- make sure detector in normally working condition.
- calibration finished. fasten and fix screw tightly.



Test and verify whether detector is well-mounted

- Indicator lamp of detector flashes.
- Block infrared hole:
 - Block upper 1 infrared hole, no alarm.
 - Block bottom 1 infrared hole, no alarm.
 - Block 2 infrared hole, it alarms.



How to trigger and alarm

Right way: Block whole 2 infrared hole by thick obstacle, and host unit alarms, its right, try at least 3 times.

Wrong way:

- Figures can not completely blocked up, it's not allowed, because infrared light would pass through very easily
- Detectors not alarm if intruding object moves at a most quick speed.



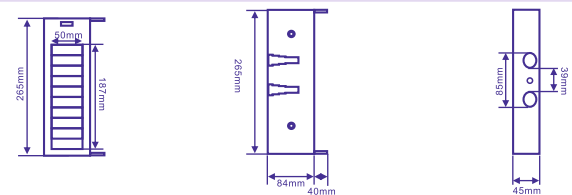
07 Check for Abnormality

Failure Symptoms	Failure Reasons	Failure Recovery Methods
The detector does not alarm, but the alarm lamp lights up	① The light holes of the detector are not completely blocked up, and the relay does not give out sound.	Completely block up infrared light holes with thick materials
	② The host is not armed.	Arm the host by remote control, and then trigger an alarm
	③ The antenna of the host is not retracted, and wireless distance does not conform to product specifications.	Retract the antenna
	④ The detector does not automatically learn code with the host.	Keep the detector automatically learn code with the host
The alarm lamp of detector does not light up	① The detector has been not calibrated for a long time, and battery protection works.	Calibrate the detector again
	② The battery voltage of detector is too low, so that the detector automatically runs in battery protection mode.	Charge the detector in a sunny place. Return batteries to the manufacturer if batteries fail to work.
	③ If the alarm lamp does not light up, but the detector can alarm, it means the lamp does not work.	Return the detector to the manufacturer for repair
The detector does not normally work when powered on	① Inappropriately powered on	Check if the detector works normally when powered on
	② Not keep the transmitting terminal of the detector aligned with the receiving terminal of the detector.	Keep the transmitting terminal of the detector aligned with the receiving terminal of the detector.

08 Technical Parameters

Technical Parameters	Solar-Powered 2-Beam Wireless Infrared Detector
Infrared Distance	60m
Wireless Transmitting Distance	1 km
Wireless Transmitting Frequency	FSK + FHSS 433Mhz
Maximum alarm times in 24 hours	≤ 50 times
Battery Capacity	500mAh (Transmitting Terminal), 1000mAh (Receiving Terminal)
Working environment temperature range	-30°C ~ 70°C
Number of infrared beams	2 beams
Operating Voltage	3.3V
Battery Type	LiFePO4 Battery
Static Operating Current	Transmitting terminal ≤ 0.5 mA, receiving terminal ≤ 0.5 mA
Infrared light wavelength	940nm ± 20 nm
Solar electric panel output current	≥ 2 mA at a light intensity of 1800LX (Note: The outdoor light intensity in cloudy or rainy days is about 2000LX)

09 Product Dimension



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