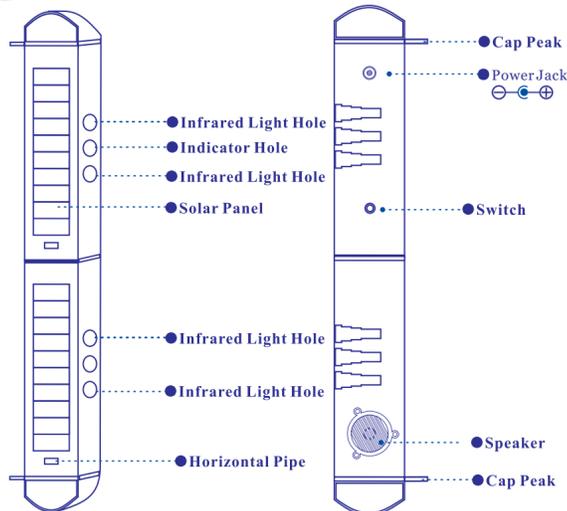


User Manual for Solar-Powered Multi-beam Active Wireless Infrared Light Walls

01 Product Overview

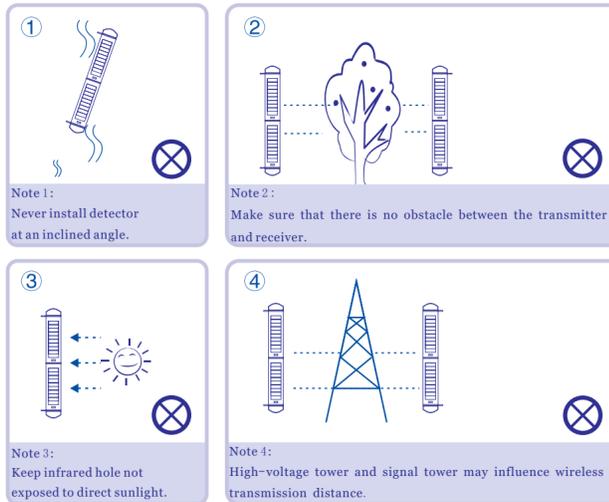
The solar-powered active wireless multi-beam light wall is a new-type hi-tech environ-mentally-friendly product and has obtained national patent. It applies sun's UV rays to supply power and charge for itself, and adopts the wireless signal transmission device to transmit alarm signal instead of power cable and signal line. The multi-beam light wall has a built-in loudspeaker with on-the-spot alarm function. The company has developed 4-beam, 6-beam and 8-beam light walls, which are widely applied in various courtyards and fences.

02 Name of Components



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



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 $\geq 1800\text{LUX}$).
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 N times($N=3-10$), 3 seconds later, there's 3-6 beeps, mean it starts normally. On working state, press power switch, 1 beep, its already started.

[Notice1] if press the switch 3 times to turn on: there are 5 seconds alarm voice while the beam sensors be triggered; if 4 times,there are 15 seconds;if 5 times,there are 30 seconds; if 6 times,there are 60 seconds;if 7-10 times,no alarm voice. All the setting will take effect after 1 hour,within 1 hour,there are 5 seconds alarm voice while the beam sensors be triggered.

②.After start the sensor, transmitter indicator lights 30 seconds then off, match both terminal, receiver keeps on shining with 8 beep ,its normally in working state.

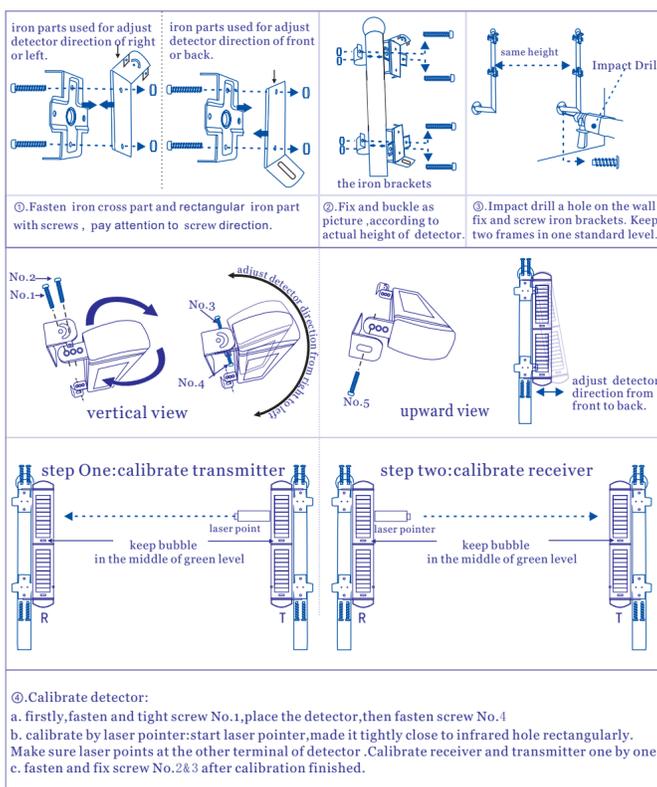
③.In working state , only if block 3 infrared hole of detector with thick obstacle , it alarms.

④.OFF :short press switch of transmitter & receiver 3 times, hear long beep , mean it's off normally. This time ,press power switch,2 beep, its already powered off.

Other Precautions

- Turn off detector by clicking power button 3 times .if 1-2 times , it works and still send signal to host unit.
- If detector cant match up with each other well, it send invalid code to host unit. Once re-match ,it works.
- It automatically turn off ,if long time stay at dark place ,more than 100 hours.
- Transmitter and Receiver matched by default, if wanna change either terminal ,contact us for support.
- Do not start the detector at dark place or block the solar panel, otherwise , detector cant started and 3 long beeps for false operation.
- Press power switch,1 beep, it starts.2 beeps, its off.

05 Installation Method



06 Calibration Method

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 2 infrared hole, no alarm.
 - Block bottom 2 infrared hole, no alarm.
 - Block 3 infrared hole, it alarms.

How to trigger and alarm

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

Wrong way:

- Fingers 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 multi-beam light wall does not alarm, but the alarm lamp lights up	①The light holes of the multi-beam light wall are not completely blocked up.	Completely block up infrared light holes with thick materials
	②The host is not armed.	Arm the host by remote control, and then trigger an alarm
	③The antenna of the host is not retracted, and wireless distance does not conform to product specifications.	Retract the antenna
	④The multi-beam light wall does not automatically learn code with the host.	Keep the multi-beam light wall automatically learn code with the host
The alarm lamp of multi-beam light wall does not light up	①The multi-beam light wall has been not calibrated for a long time, and battery protection works.	Calibrate the multi-beam light wall again
	②The battery voltage of multi-beam light wall is too low, so that the multi-beam light wall automatically runs in battery protection mode.	Charge the multi-beam light wall in a sunny place. Return batteries to the manufacturer if batteries fail to work.
	③If the alarm lamp does not light up, but the multi-beam light wall can alarm, it means the lamp does not work.	Return the alarm lamp to the manufacturer
The multi-beam light wall does not normally work when powered on	①Inappropriately powered on ②Not keep the transmitting terminal of the light wall aligned with the receiving terminal of the light wall.	Check if the active infrared light wall works normally when powered on Keep the transmitting terminal of the light wall aligned with the receiving terminal of the light wall.
The multi-beam light wall gives out a prompt sound lasting for 2 seconds when powered on	①The battery voltage of multi-beam light wall is too low ②When powered on, the light wall shall be kept in a shady place or the solar panel of the light wall shall be covered with something.	Charge the light wall in a sunny place. Make sure the solar panel of the light wall is kept in a sunny place when turning on the light wall.
The multi-beam light wall does not give out a sound prompt when powered on	①Any operation error occurs when pressing the ON/OFF button	Press the ON/OFF button in a proper way
	②The multi-beam light wall is kept in a dark place or the solar panel is covered with any materials when powered on.	Keep the multi-beam light wall in a sunny place when powered on
	③The multi-beam light wall does not work.	Return the multi-beam light wall to the manufacturer

08 Technical Parameters

Technical Parameters	Product Name
Parameter Items	Solar-Powered Multi-beam Active Wireless Infrared Light Walls
Infrared Distance	100m
Wireless Transmitting Distance	1 km
Wireless Transmitting Frequency	FSK+FHSS 433Mhz
Maximum alarm times in 24 hours	For 4-beam light wall: doorbell ringing times=50; alarm times per minute=3 For 6-beam light wall: doorbell ringing times=50; alarm times per minute=3 For 8-beam light wall: doorbell ringing times=50; alarm times per minute=3
Battery Capacity	500mAh (Transmitting Terminal), 1000mAh (Receiving Terminal)
Working environment temperature range	-30°C~70°C
Number of infrared beams	4 beams, 6beams, 8beams
Operating Voltage	3.3V
Battery Type	LiFePO4 Battery
Static Operating Current	For 4-beam light wall: transmitting terminal $\leq 0.5\text{mA}$, receiving terminal $\leq 0.3\text{mA}$ For 6-beam light wall: transmitting terminal $\leq 0.75\text{mA}$, receiving terminal $\leq 0.75\text{mA}$ For 8-beam light wall: transmitting terminal $\leq 1\text{mA}$, receiving terminal $\leq 1\text{mA}$
Infrared light wavelength	940nm $\pm 20\text{nm}$
Solar electric panel output current	For 4-beam light wall: $\geq 1\text{mA}$ at a sunlight intensity of 1800LX For 6-beam light wall: $\geq 1\text{mA}$ at a sunlight intensity of 1800LX For 8-beam light wall: $\geq 1\text{mA}$ at a sunlight intensity of 1800LX (Note: The outdoor sunlight intensity in cloudy or rainy days is about 2000LX)

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 received, including interference that may cause undesired operation.

FCC Warning
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

FCC Statement
NOTE: This equipment has been tested and found to comply with the Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
1.Reorient or relocate the receiving antenna.
2.Increase the separation between the equipment and receiver.
3.Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4.Consult the dealer or an experienced radio/TV technician for help.

09 Product Dimension

