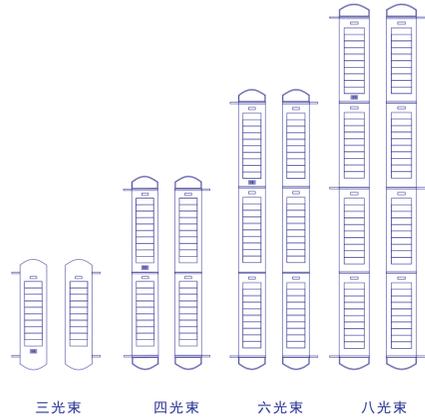


三光束太阳能全无线对射 多光束太阳能全无线光墙

使用说明书



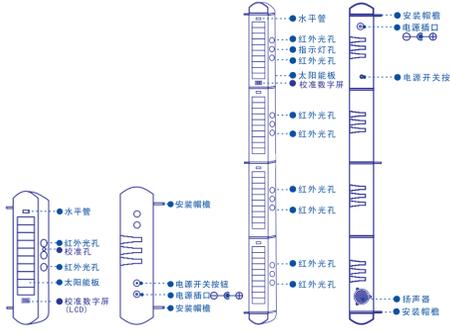
三光束 四光束 六光束 八光束

01 产品概述

三光束太阳能全无线对射及多光束太阳能全无线光墙是一款新型环保的科技产品，获得了国家专利，它利用太阳能进行供电、充电，利用无线信号传输实现报警信号的传送，真正做到了电源无线，信号无线。并且多光束光墙内装有扬声器，具有现场报警功能。

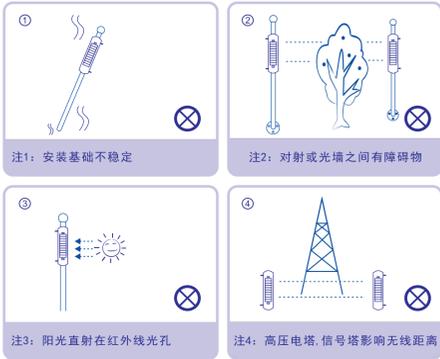
公司生产了3光束对射，4光束，6光束，8光束光墙，可适用于不同的庭院，围墙防护使用。

02 部件名称



注：每个对射或光墙背面都有一个白色电源开关和一个电源供电口（套有橘红色塑料帽盖），当对射或光墙需要充电或供电时，请取下橘红色的塑料帽盖，接通电压为直流5~12V(电流100mA)电源即可充电，并注意电源线的正负极。

03 安装时的注意事项



其他重要注意事项

- 在安装时勿忘除去对射或光墙太阳能板上的塑料薄膜。
 - 禁止安装在门帘、过道或频繁触碰区域，以及每24小时触发次数多于50次的区域。
 - 本产品属太阳能全无线产品，请勿在室内和光照阴暗的场所（光照度低于2200LUX）安装测试及使用。如一定要安装在上述环境中，则可通过外接电源线的方式解决供电的问题。
 - 在正常光照环境下测试产品时，连续触发次数小于50次，切勿在室内测试报警报警次数，导致电池无法正常正常工作，甚至导致产品损坏。
 - 若您首次使用本产品请务必在供应商的技术指导下操作。
- 特别声明：若未按本公司提示的注意事项或未按说明书的操作指导使用，而因个人操作不当造成产品故障或损坏，相应损失由客户自行承担。

04 工作现象

①. 对射或光墙开机时短按发送端(F)和接收端(S)背部白色开关按钮(N=3-10)，按完后等待3秒左右的时间，对射或光墙发送端(F)和接收端(S)都有3-6声“嘀、嘀、嘀”的提示音，表示开机正常。验证对射或光墙是否开机，可再按1次开关键，若提示音为“嘀”声，则表示对射或光墙已开机。

4/6/8光束光墙开机时按开关的次数与报警持续时间如下：
 开机按3次，报警声响持续时间5秒
 开机按4次，报警声响持续时间15秒
 开机按5次，报警声响持续时间30秒
 开机按6次，报警声响持续时间60秒

以上报警声响持续时间开机1小时后有效，开机1小时内报警声响持续时间均为5秒。

②. 对射或光墙正常后，发送端(F)亮30秒后随即熄灭，接收端(S)按钮指示灯长亮将发送端(F)和接收端(S)对准，接收端按钮指示灯灯亮，并听到6次短促的“嘀嘀嘀”的提示音，表示对射或光墙进入工作状态。

③. 对射或光墙进入正常状态后，用厚物阻挡对射或光墙三个以上，接收端(S)发送无线报警信号，接收端有5秒左右的灯亮时间，之后接收端指示灯灯亮，并听到6次短促的“嘀嘀嘀”的提示音，表示对射或光墙再次进入工作状态。如此重复。

④. 对射或光墙关机时，按发送端(F)和接收端(S)背部白色开关按钮(N=3-10)，按完后等待3秒左右的时间，对射或光墙发送端(F)和接收端(S)都有10秒左右时间的“嘀”连续长音，音毕灯灭，表示已正常关机。验证对射或光墙是否关机，可再按1次开关键，若提示音为“嘀嘀”两声，则表示对射或光墙已关机。

其他注意事项

①. 对射或光墙处于开机状态时，进行关机操作，开关按至第二次时，对射或光墙发送一个报警信号，按至第三次时，对射或光墙才发送关机信号并关机。

②. 对射或光墙正常开机后的1小时内，若接收端无法收到发送端所发出的红外光脉冲，接收端按钮指示灯持续亮30分钟的时间，之后灯灭；只有收到发送端的红外光脉冲后，按钮指示灯重复亮起，并灯进入工作状态。

③. 对射或光墙正常开机后，若连续100小时都未能见到自然光或红外光将会自动关机。

④. 成品对射或光墙的发送端和接收端都已配对，客户切勿随意搭配，若遇特殊情况，请与厂家或经销商联系。

⑤. 对射或光墙开机时，勿将对射或光墙置于黑暗处或将太阳能板遮盖，否则对射或光墙可能发出错误的提示音（3声长音）。

⑥. 区分对射或光墙处于开机或关机状态的方法是对射或光墙。若按1次有“嘀”短音1声提示，则说明为开机状态。若按1次有“嘀嘀”两声短促音提示，则说明为关机状态。

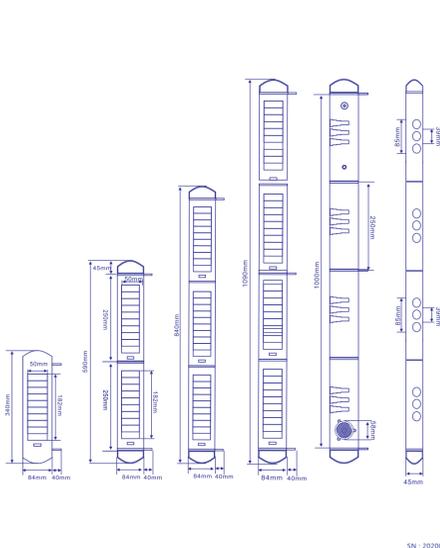
07 异常时的检查

故障现象	故障原因	故障处理方法
对射或光墙报警灯不亮	①. 未完全阻挡对射或光墙 ②. 主机未设防 ③. 主机天线未拉出，无线距离超出产品规格 ④. 对射或光墙未接入主机	用厚物完全阻挡 用遥控器设防后再报警 拉出主机天线 将对射或光墙接入主机
对射或光墙报警灯不亮	①. 对射或光墙长时间未校准 ②. 对射或光墙电池低电 ③. 对射或光墙未正常启动 ④. 对射或光墙未正常报警	将对射或光墙置于光照充足处充电，若无法正常工作，发送厂家 退回厂家返修
对射或光墙开机后无法进入工作状态	①. 未正确开机 ②. 未将对射或光墙对准	查看对射或光墙开机后的工作状态是否正常 将对射或光墙对准
光墙开机后提示音为秒长音	①. 光墙电池低电 ②. 开机时当墙处于黑暗处或光墙太阳能板被遮盖	将光墙置于当照充足处充电 将光墙太阳能板面向光照充足处开机
光墙开机后无提示音	①. 未正确按动开关键 ②. 光墙故障	正确按动开关键 发送厂家

08 技术参数

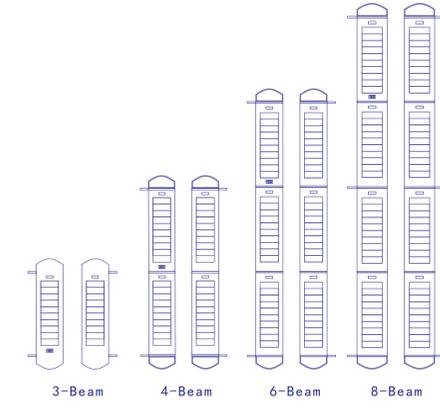
技术参数	产品名称
技术项目	三光束太阳能全无线对射/多光束太阳能全无线光墙
红外距离	50米
无线发射频率	>300米
无线发射频率	424.6MHz FSK
24小时最大触发次数	≤50次
电池容量	发送500mAh; 接收端1000mAh
工作环境温度	-30℃~70℃
红外光束数	3光束, 4光束, 6光束, 8光束
工作电压	3~3V
锂电类型	可充电镍氢电池
静态工作电流	3光束对射: 发送端≤0.5mA; 接收端≤0.5mA 4光束光墙: 发送端≤0.5mA; 接收端≤0.5mA 6光束光墙: 发送端≤0.75mA; 接收端≤0.75mA 8光束光墙: 发送端≤1mA; 接收端≤1mA
红外光波长	940nm±20nm
太阳能电板输出电流	3光束对射: 1800LX光照情况下≥2mA 4光束光墙: 1800LX光照情况下≥2mA 6光束光墙: 1800LX光照情况下≥4mA 8光束光墙: 1800LX光照情况下≥6mA (注: 普通阴雨天户外光照度约2000LX)

09 产品外形尺寸



Solar-Powered Multi-beam Active Wireless Infrared Detectors

User Manual

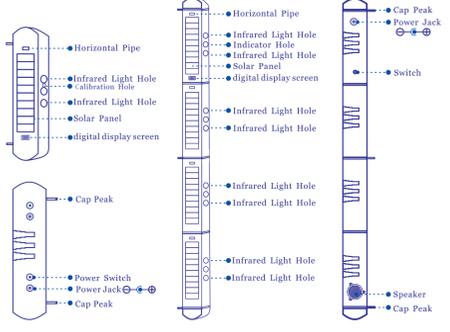


3-Beam 4-Beam 6-Beam 8-Beam

01 Product Overview

The solar-powered multi-beam active wireless infrared detector and the solar-powered active wireless multi-beam light wall is a new-type hi-tech environmentally-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 3-beam detectors, 4-beam, 6-beam and 8-beam light walls, which are widely applied in various courtyards and fences

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.

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.

[Notice]: 4/6/8 beam sensor have on site alarm function
 If press the switch 3 times to turn on the sensor, there are 5 Seconds alarm voice while the beam sensor be triggered;
 If press the switch 4 times, to turn on the sensor, there are 15 seconds alarm voice;
 If press the switch 5 times, to turn on the sensor, there are 30 Seconds alarm voice;
 If press the switch 6 times, to turn on the sensor, there are 60 seconds alarm voice;
 If 7-10 times, no alarm voice;

All the setting will take effect after 1 hour, within 1 hour, there are only 5 seconds alarm voice while the sensor 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

- ①. Turn off detector by clicking power button 3 times. If 1-2 times, it works and still send signal to host unit.
- ②. If detector cant match up with each other well, it send invalid code to host unit. Once re-match it works.
- ③. It automatically turn off, if long time stay at dark place, more than 100 hours.
- ④. Transmitter and Receiver matched by default, if wanna change either terminal, contact us for support.
- ⑤. Do not start the detector at dark place or block the solar panel, otherwise, detector start started and 3 long beeps for false operation.
- ⑥. Press power switch, 1 beep, it starts. 2 beeps, its off.

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	① The light holes of the multi-beam light wall are not completely blocked up. ② The host is not armed. ③ The antenna of the host is not retracted, and wireless distance does not conform to product specifications.	Completely block up infrared light holes with thick materials Arm the host by remote control, and then trigger an alarm Retract the antenna
The alarm lamp of multi-beam light wall does not light up	① The multi-beam light wall has been not calibrated for a long time, and battery protection works. ② The battery voltage of multi-beam light wall is too low, so that the multi-beam light wall is automatically runs in battery protection mode. ③ If the alarm lamp does not light up, but the multi-beam light wall can alarm, it means the lamp does not work.	Calibrate the multi-beam light wall again Return the alarm lamp to the manufacturer
The multi-beam light wall does not normally work when powered on	① Inappropriately powered on ② Not 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	① The battery voltage of multi-beam light wall is too low. ② When 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	① Any operation error occurs when pressing the ON/OFF button. ② The multi-beam light wall is kept in a dark place or the solar panel is covered with some materials when powered on. ③ The multi-beam light wall does not work.	Press the ON/OFF button in a proper way Keep the multi-beam light wall in a sunny place when powered on Return the multi-beam light wall to the manufacturer

08 Technical Parameters

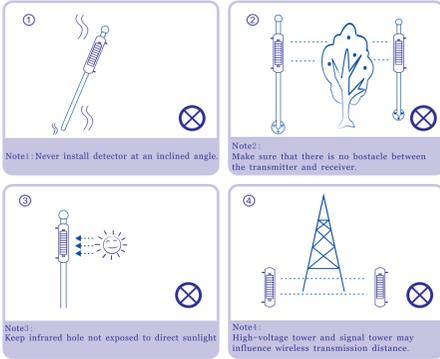
Technical Parameters	Product Name
Parameter Name	Solar-Powered Multi-beam Active Wireless Infrared Detectors
Infrared Distance	100m
Wireless Transmitting Distance	1km
Wireless Transmitting Frequency	FSK+FHSS 433MHz
Maximum alarm times in 24 hours	≤50X
Battery Capacity	500mAh (Transmitting Terminal), 1000mAh (Receiving Terminal)
Working environment temperature range	-30℃~70℃
Number of infrared beams	4 beams, 6 beams, 8 beams
Operating Voltage	3~3V
Battery Type	LiFePO4 Battery
Static Operating Current	≤1mA
Infrared light wavelength	940nm±20nm
Solar electric panel output current	For 3-beam detectors: ≥2mA at a sunlight intensity of 1800LX For 4-beam light wall: ≥3mA at a sunlight intensity of 1800LX For 6-beam light wall: ≥6mA at a sunlight intensity of 1800LX For 8-beam light wall: ≥8mA at a sunlight intensity of 1800LX (Note: The outdoor sunlight intensity in cloudy or rainy days is about 200LX.)

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: Changes or modifications to this unit must be approved by the party responsible for compliance with the FCC's authority to operate the radio frequency device to radio communications.

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 to 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 interfere with 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.

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 in doors or any dark place without sunlight. Light intensity should be >1800LX. If wanna be used indoor, suggest link extra cable to support.
- Trigger times should be 50 times, installed in door 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.

06 Installation & Calibration Precautions and Test Method

Calibration Precautions
 ①. make sure detector already started.
 ②. make sure detector in one line (keep bubble in the middle of green level)
 ③. make sure detector in normally working condition.
 ④. make sure digital screen display had already showed Maximum figure, figure floating 4.30
 ⑤. calibration finished, fasten and fix screw tightly.

Test and verify whether detector is well-mounted

①. Indicator lamp of detector flashes.
 ②. Block infrared hole:
 a) Block upper 2 infrared hole, no alarm.
 b) Block bottom 2 infrared hole, no alarm.
 c) 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:
 ①. Figures can not be completely blocked up, it's not allowed, because infrared light would pass through very easily
 ②. Detectors not alarm if inruding object moves at a most quick speed.

09 Product Dimension

