

Solar-Powered IR Beams AID-410

Operation Manual

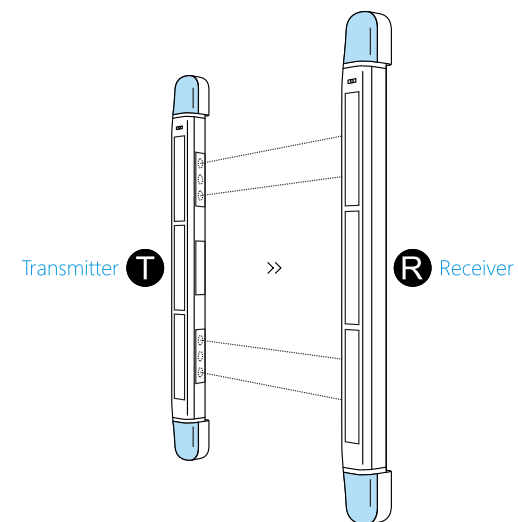


Product Overview

Solar-powered IR beams is a totally wireless quad-beam IR beams. The solar beams are battery powered and kept recharging by built-in solar panel. The signal transmission is all by wireless radio frequency which achieves significantly wire-free transmission and enhances the flexibility to install. Pairs of wireless beams build multi-direction protection to alert the intruder.

The solar-powered beams can work with wireless alarm system by connecting.

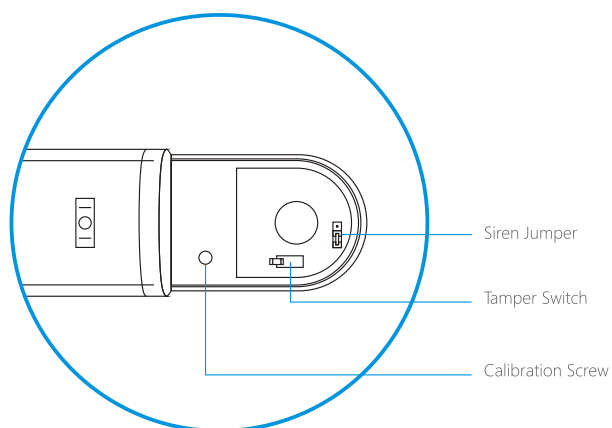
Appearance



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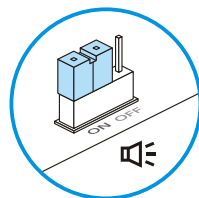
Receiver PCB Layout



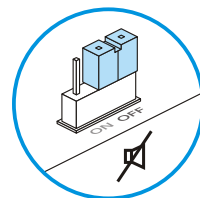
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Jumper Setup

Siren jumper setup



Siren hoots when alarming.
Default set.

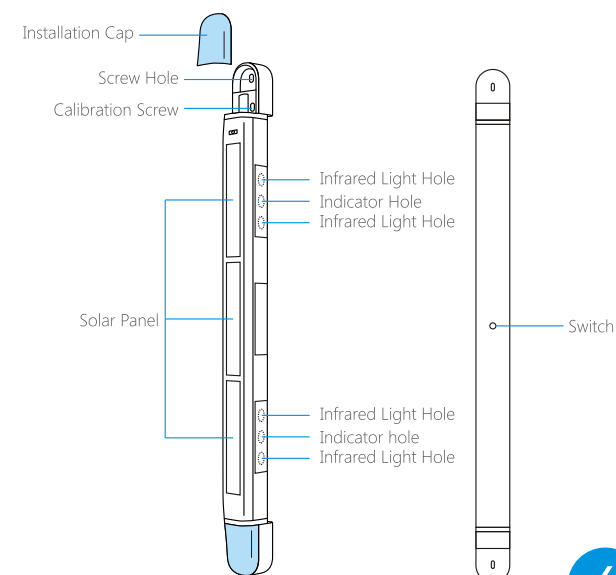


Siren in mute when alarming.

Zone Jumper Setup

When the IR beams connect to wireless panel, user can adjust the zone of beams by jumpers. To get more detailed setting, please refer to the manual of the wireless alarm system.

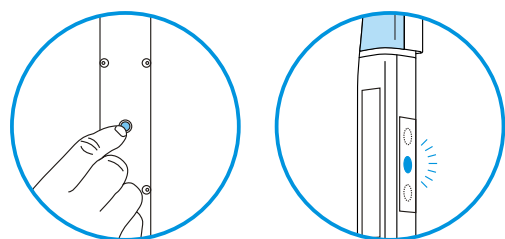
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Transmitter and Receiver Operation Instruction

- Continuously press the switch of transmitter (T) or receiver (R) for 3 times, 3~8 beeps are heard and the indicator of transmitter (T) lights up for 30 seconds, the siren of receiver (R) hoots for 15 seconds, the indicator of receiver (R) keeps lighting on. The beams are turned on.



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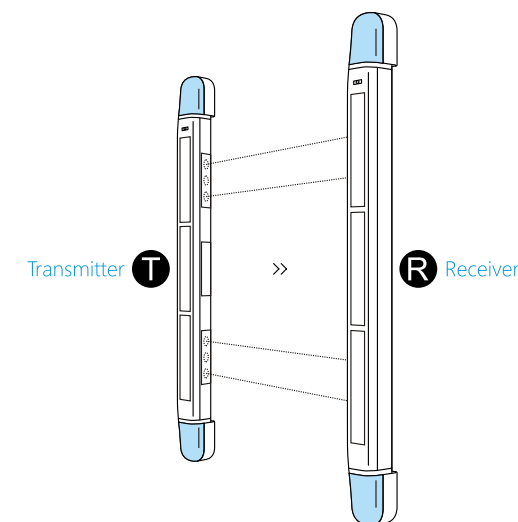


- When they are on, align the transmitter (T) and receiver (R) infrared light holes, the indicator of receiver (R) will be off after 30 seconds which means the alignment is done. And beams turn to working status.

- When two or more infrared light holes are covered, receiver (R) will send wireless signal to panel and strobe will flash for 15 seconds.
If the internal siren is set on, the siren will hoot 15 seconds too.

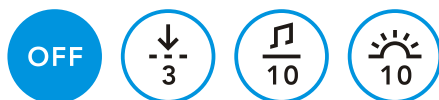
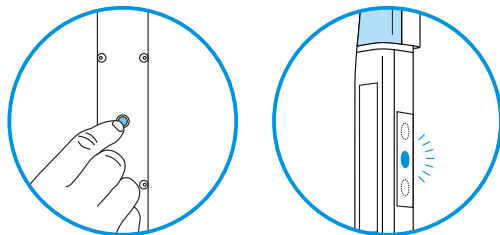
Remove the cover, the receiver (R) strobe will flash 30 seconds and enters the working status again.

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- 4 Press the switch of transmitter **T** or receiver **R** 3 times, long beeps for 10 seconds will be heard and the indicator LED will be on for 10 seconds. (Siren of receiver hoots for 15 seconds.) Beams are turned off.



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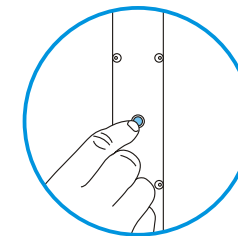
NOTE



- 1 When beams are turned on, if the transmitter **T** and receiver **R** cannot be connected properly, please charge the batteries under sunlight to ensure there's enough power.
- 2 After the beams are on, and if there is no light over 2200Lux for more than 100 hours, beams will turn off automatically.
- 3 If tamper switch of receiver is triggered, it will activate the siren alarming and strobe flashing immediately.
- 4 Press the switch once to distinguish the beams status. If one beep is heard, the beams are on. If two beeps are heard, the beams are off.

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Connect the beams with wireless panel



Make sure the receiver **R** is on. Wireless panel enters connecting state. Press the switch of receiver **R** twice to activate the alarm signal. When one beep is heard from alarm panel, the connection is successful. Transmission time interval is 30 seconds.

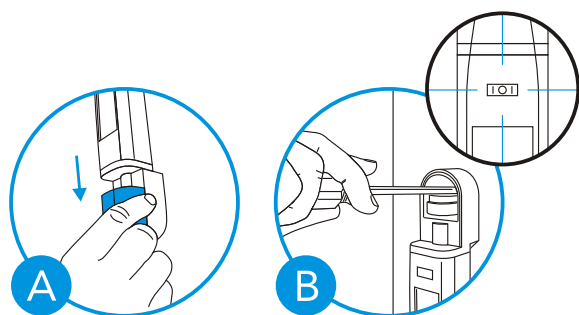


NOTE! Don't trigger any other wireless accessories during the connecting operation.

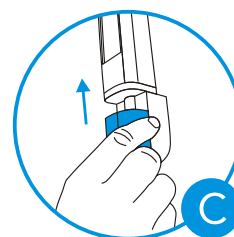
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Installation

- A Take off the installation cap.



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- B Mount the beams at the same level and fix them by screws. Please loose the screws during calibration. Turn the beams to calibrate the angle. Tighten the screws after the above steps.
- C Please cover the installation cap after calibration.



NOTE! Don't install the beams at the places such like access and isles where the alarm occurs easily.

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The way to check successful installation

Turn the beams on and enter the working status.

Cover two or more infrared light holes, The siren of receiver **R** will hoot and the strobe will flash. Trigger the beams more than 3 times and wireless alarm panel can receive signal every time, the installation is successful.

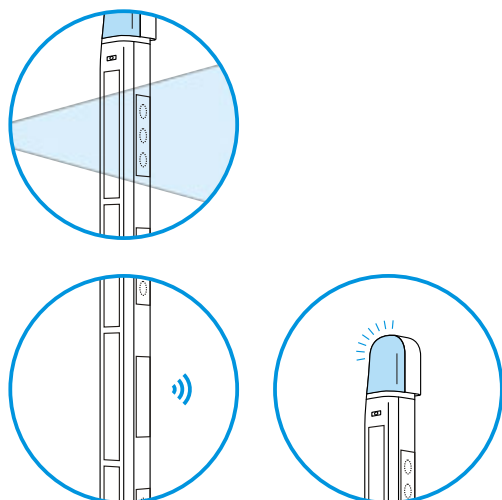
Beams will alarm when two or more infrared light holes are completely covered more than one second.

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Specifications:

Infrared detecting distance: 10 m
Wireless transmitting distance: ≤100m
 (Open area, no interference)
Infrared light frequency: 38KHz
Infrared light optical wavelength: 940nm±20nm
Wireless frequency: 315MHz/433MHz
Battery capacity: transmitter 1800mAh; receiver 1800mAh
Temperature: -10°C~55°C
Humidity: ≤90% (Non-condensing)
Infrared beam quantity: Quad-beam

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Working voltage: 3.2V
Standby current: transmitter ≤0.25mA; receiver ≤0.2mA
Alarming current: 180mA
Solar panel current output: 2000Lux illumination ≥2mA
 (Cloudy or rainy illumination is about 2000Lux)
Standby time: 6 months (Low illumination)
Case material: PC+ABS+ANTI-UV
Size(L * W * H): 610*50*45 mm