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Model 4130WRM1

Solar Sentry 40-LED Motion Security Light



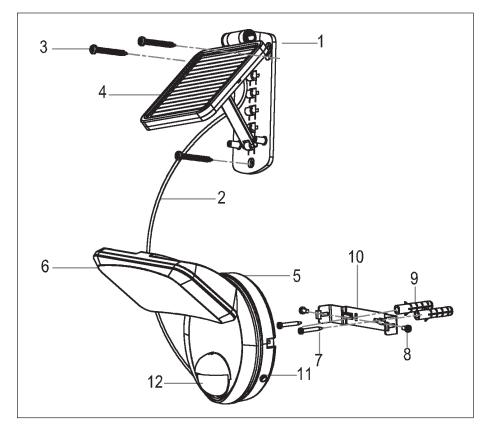
Powerful LED security light with PIR Motion Sensor



Parts List

- 1. Solar Panel Mounting Bracket
- 2. Power Cord
- 3. Solar Panel Mounting Screws (X 3)
- 4. Amorphous Silicon Solar Panel
- 5. Main Light Unit
- 6. Transparent Light Cover
- 7. Mounting Bracket Screws (X 2)
- 8. Light Unit Mounting Screws(X 2)
- 9. Plastic Screw Anchors
- 10. Mounting Bracket
- 11. On/Off Switch
- 12. PIR Sensor





Important: To insure optimal performance, before first use charge in direct sunlight in the off position for 3 days.

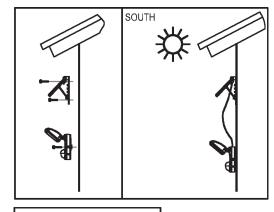
How To Determine Where To Mount Your Solar Sentry Security Light

Please note that DIRECT SUNLIGHT is important for the operation of SOLAR SENTRY SECURITY LIGHT. The more direct sunlight the solar panel receives in daytime, the longer the light will operate.

Main Unit:

The main unit contains the lighting unit (40pcs of 0.075W LED), motion sensor and batteries (3 x 1.2V NI-MH 1000mAh). When determining where to mount the unit, please consider that the range of the motion sensor is a maximum of 40 feet (in front of the light) and about 180° (horizontal) at 75°F environmental temperature.

To mount the unit vertically as a security light, attach the unit to a solid surface as shown in figure A. Use the mounting bracket (#10 on parts list) to mark the position of screw holes onto mounting surface. Drill holes in the wall to a depth of approx. 1". Insert the plastic screw anchor (#9 on parts list) into the hole and then secure mounting bracket with mounting bracket screws (#7 on parts list).



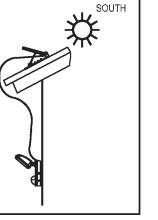


FIG.A

Care should be taken to avoid drilling or screwing into concealed electrical wiring. Connect the main light unit (#5 on parts list) to the mounting bracket using the light unit mounting screws (#8 on parts list).

Solar Panel:

The solar panel is the main power source for the SOLAR SENTRY SECURITY LIGHT. It converts the sunlight's energy into electricity that charges the batteries in main unit. Position the solar panel in DIRECT SUNLIGHT for maximum exposure during the daytime.

Use the three metal screws provided in the package (#3 on parts list) to mount the solar panel onto a solid surface. Make sure it is mounted onto a solid surface.

For maximum performance you can adjust the angle of the solar panel by moving the adjustment bracket to the appropriate hook on the mounting base.

Connect the solar panel power cord to the lighting unit power cord.

Final Adjustment and Start-Up

After you successfully installed your SOLAR SENTRY SECURITY LIGHT, it is almost ready for use:

Initial 3 day Charge: On the main unit there is a switch with 2 positions: • OFF • ON

ON Position for **OFF** (Factory Setting)

Position for shipping or long periods of inactivity

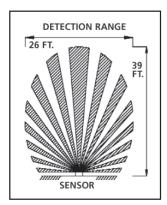
normal operation

Position for initial 3 day charge before first adjustment and use.

While in the OFF position, the solar panel will charge the battery without activating the light unit. Leave the switch in the OFF position for 3 sunny days before initial use to ensure that the battery has a full charge for motion sensor adjustment and normal operation.

Walking test:

Position the motion sensor to face the area you want to detect motion in. Walk slowly in the detection area and the sensor will detect your movement via the invisible infra-red radiation emitted by the human body and activate the light (approx. 30 seconds). Test the coverage of the area by walking slowly around until you do not activate the light.



Adjustment of the Lamp Housing

Position the light unit to face the area you wish to illuminate.



90° range of motion up and down and almost 360° range of motion side to side.

Battery Replacement

Caution: When replacing the batteries, the main light unit must be in the OFF position.

When the operational performance of the batteries decreases, replace the batteries with three (3) new AA Ni-MH 1.2V 1000mAh rechargeable batteries. Follow the steps below to replace the batteries.

- 1. Disconnect the power cord from the light unit to the solar panel.
- 2. Remove the main light unit from the mounting bracket.
- 3. Remove the four (4) screws on the battery cover on the back of the main light unit.
- 4. Remove the battery cover.
- Carefully remove the old batteries from the compartment and replace with three (3) new AA Ni-MH 1.2V 1000mAh rechargeable batteries. Ensure that the new batteries are inserted in the correct +/- polarity orientation.



WARNING: Installing batteries in the opposite direction may damage the unit.

6. Replace the battery cover and secure using the four screws on the battery box (from step 3 above).

It is important to dispose of the batteries in an environmentally conscious manner. Dispose of according to applicable governmental regulations. These batteries are recyclable.

General Electrical and Safety Warnings

- Do not cut the solar panel or light unit power cord. Discontinue use if either cord becomes frayed or damaged.
- 2. Do not immerse any components in liquid.
- 3. Do not use any power source other than the solar panel provided with the unit. This may result in injury or damage to the light and will void the warranty.
- 4. Position so that the cord is securely fastened and will not result in any hazard (such as tripping).

Cleaning

It is important that the solar panel be kept free from dirt and debris. A dirty solar panel will not allow the batteries to fully charge; this will shorten the life of batteries and cause the light to perform poorly.

Storage

If you wish to store your light indoors for more than two or three days, follow these steps to prevent damage to batteries:

- 1. Switch the light unit off but leave the power cables from unit to solar panel connected.
- Store the light and solar panel where they can receive some sunlight or room light each day. The batteries need light to maintain a nominal charge during storage.
- 3. During prolonged storage, the unit must be fully charged once every 3 months. If storing for prolonged periods it is recommended to remove the batteries.

Troubleshooting

Problem: Light won't activate under normal operation.

Correction: Verify the following:

- 1. The main light unit switch is the ON position.
- 2. The motion sensor is positioned to face oncoming movement.
- 3. The solar panel is angled so that it maximum direct sunlight.
- 4. Batteries may be low. Charge for 3 sunny days with unit turned OFF.
- 5. If batteries are not holding a charge, replace batteries.

Problem: Light quickly flashes on and off OR light is not as bright as usual

Correction: Verify the following:

- 1. Batteries may be low. Charge for 3 sunny days with unit turned OFF.
- 2. If batteries are not holding a charge, replace batteries.

Technical Data

Solar Panel (Amorphous)	
Voltage	10.0 V
Current	80 mA
Power	0.8 W
Batteries 3 pieces total (data below per battery)	
Voltage	1.2 V
Capacity	1000 mAh
Туре	Ni-Mh

Spare Parts

Battery: BT-AA-1.2-1000

One Year Limited Warranty

Please register your product within 7 days at:

www.smartsolar.com/customer-service/warranty-registration

If within 12 months from the date of purchase this product fails due to a defect in material or workmanship. Smart Solar will replace or repair it free of charge.

You will need to provide proof of purchase and you may be required to send in the solar power station to the Smart Solar repair center for warranty.

The warranty does not apply to:

Damage caused by accidents, abuse, poor handling, or normal wear and tear. Products which have been subject to unauthorized repair or modification. Batteries are a normal wear item and need to be replaced periodically.

For further information please contact your nearest service centre detailed on the last page of this instruction manual.