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> Solar Motion Sensor Light User Manual

DrawGreen DG08-A3 Solar Lights

DrawGreen Solar Motion Sensor Light User Manual

Model: DG08-A3 Solar Lights

Brand: DrawGreen

INTRODUCTION

Thank you for choosing the DrawGreen Solar Motion Sensor Light. This manual provides detailed instructions for the proper setup, operation, and maintenance of your new solar light. Designed for outdoor security, this light features a built-in photocell sensor for automatic dusk-to-dawn operation and a PIR motion sensor for enhanced illumination when motion is detected. Its durable aluminum alloy casing ensures reliable performance in various weather conditions.



Image: The DrawGreen Solar Motion Sensor Light, featuring a solar panel and an adjustable light head with multiple LEDs.

SAFETY INFORMATION

- Ensure the light is installed in a location that receives ample direct sunlight for optimal charging.
- Do not attempt to disassemble or modify the product beyond the instructions provided in this manual.
- Keep the solar panel clean to ensure efficient charging.
- This product is designed for outdoor use and is IP66 waterproof, but avoid submerging it in water.
- Handle the lithium metal battery with care during replacement. Refer to the maintenance section for details.

PACKAGE CONTENTS

Verify that all items are present in your package:

- DrawGreen Solar Motion Sensor Light (DG08-A3)
- Mounting Screws and Wall Plugs
- User Manual (this document)

PRODUCT OVERVIEW

Familiarize yourself with the main components of your solar motion sensor light:

- **Solar Panel:** Collects sunlight to charge the internal battery. Adjustable for optimal sun exposure.
- **LED Light Head:** Contains multiple bright LEDs for illumination. Rotates 360 degrees for flexible lighting direction.
- **PIR Motion Sensor:** Detects motion within its range to trigger high-brightness mode.
- **On/Off Button:** Located on the back of the solar panel for activating/deactivating the light.
- **Mounting Bracket:** Securely attaches the light to a wall or post.

Aluminum Solar Security Lights



Image: Diagram showing the solar panel, light head, and motion sensor, highlighting their adjustable nature.



Image: Close-up view of the internal components, including the motion infrared probe, LED optics-grade lens, charge & discharge protect IC, constant current & steady voltage circuit board, and the replaceable Li-ion battery (3.7V 2600mAh).

SETUP AND INSTALLATION

Follow these steps to install your solar motion sensor light:

1. **Choose a Location:** Select an outdoor location that receives at least 5-6 hours of direct sunlight daily for optimal charging. Ensure the area where light is desired is within the motion sensor's range.
2. **Activate the Light:** Before mounting, locate the on/off button on the back of the solar panel. Press the button to turn the light ON. The lights will flash once to confirm activation. To turn OFF, press the button again; the lights will flash twice.
3. **Mount the Bracket:** Use the provided screws and wall plugs to securely attach the mounting bracket to your chosen surface.
4. **Attach the Light:** Slide the solar light onto the mounted bracket and secure it.
5. **Adjust Light and Panel:** Adjust the solar panel to face the sun for maximum exposure. Rotate the light head 360

degrees to direct the illumination where needed.

Your browser does not support the video tag.

Video: This video demonstrates the features of the DrawGreen Solar Motion Sensor Light, including its adjustable solar panel and light head, the location of the on/off button, and how the metal bracket can be removed for use as a flashlight. It also shows the installation process of mounting the light to a wall.



Image: Illustration showing the 360-degree rotation of the light head and the adjustable solar panel, along with the motion detection range of 10-26 feet.

OPERATING INSTRUCTIONS

The DrawGreen Solar Motion Sensor Light operates automatically:

- **Dusk-to-Dawn Operation:** The built-in photocell sensor detects ambient light. During the day, the light charges its internal battery. At night, it automatically turns on in a dim-light mode.
- **Motion Sensor Activation:** When the PIR motion sensor detects movement within its 20-26ft range and 120-degree angle, the light will switch to a high-bright mode (1400LM) for approximately 20 seconds. After 20 seconds, if no further motion is detected, it will revert to dim-light mode.
- **Extended Dim-Light:** The low-light setting can last for up to 3 days on rainy days without direct sunlight, thanks to its efficient solar modules.

Solar Motion Sensor

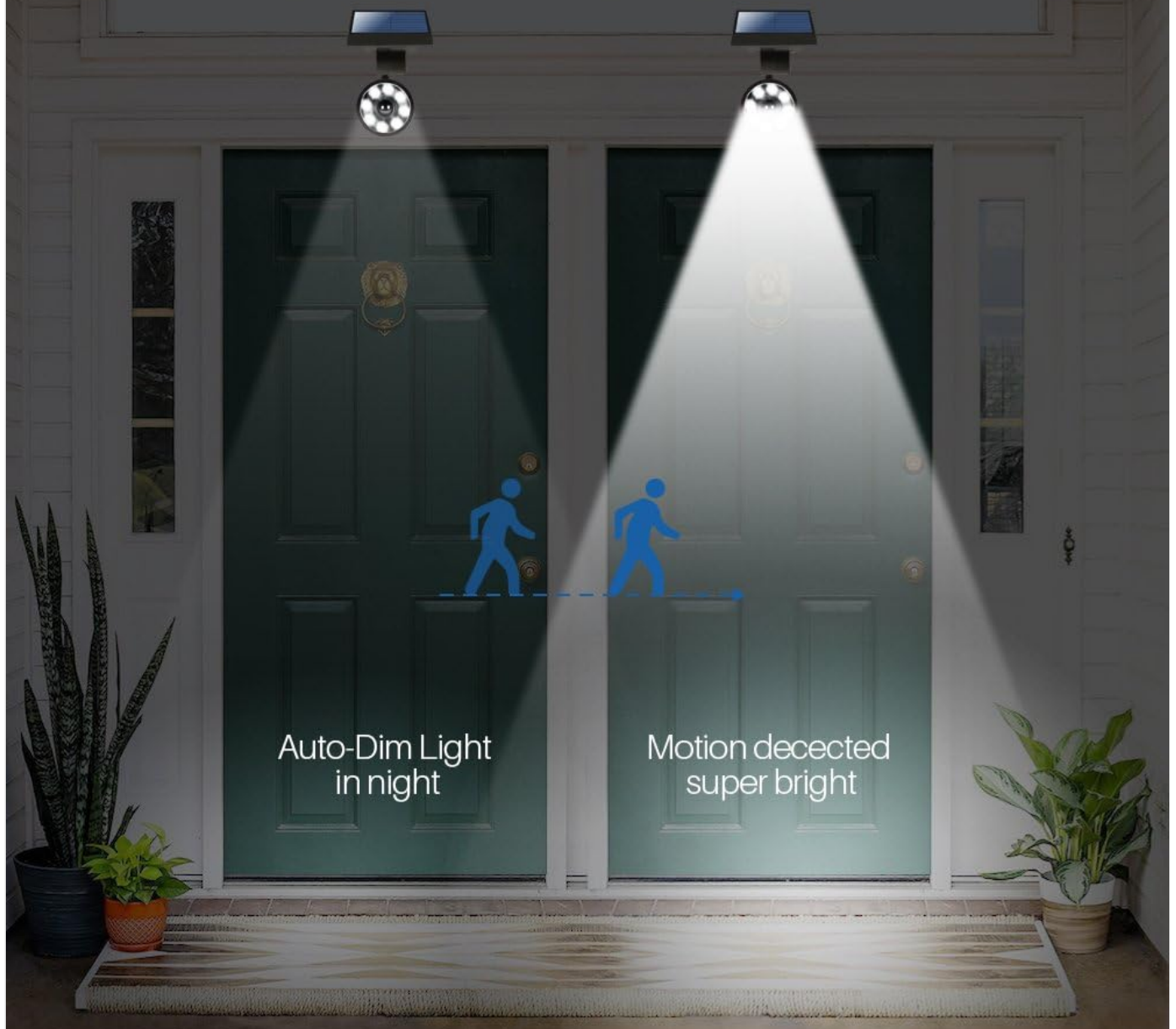


Image: Depiction of the solar motion sensor light in action, showing auto-dim light at night and super bright illumination when motion is detected.



Image: An outdoor scene illustrating the 150-degree infrared motion sensor and how the light transitions from dim to bright when motion is detected, with the dim light continuing for 30 hours.

MAINTENANCE

- **Cleaning:** Regularly wipe the solar panel with a soft, damp cloth to remove dust, dirt, or debris. A clean panel ensures maximum charging efficiency.
- **Battery Replacement:** The light features a replaceable battery design. If the light's performance significantly degrades over time, the internal 18650 Li-ion battery (3.7V 2600mAh) can be replaced. Refer to the product overview image for battery location. Ensure proper polarity when replacing.
- **Weather Resistance:** The light is designed to withstand extreme temperatures (-30°F to 120°F) and is IP66

waterproof. No special weather-related maintenance is typically required beyond ensuring it is securely mounted.



Image: The solar light mounted outdoors in rainy conditions, emphasizing its IP66 waterproof rating and durable aluminum alloy construction, ready for all weather.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on at night.	<ul style="list-style-type: none">◦ Light is OFF.◦ Insufficient sunlight for charging.◦ Solar panel is dirty.◦ Battery is depleted or faulty.	<ul style="list-style-type: none">◦ Ensure the light is switched ON (flash once).◦ Relocate the light to an area with more direct sunlight.◦ Clean the solar panel surface.◦ Replace the battery if necessary.

Problem	Possible Cause	Solution
Light is dim or does not stay on long.	<ul style="list-style-type: none"> Insufficient charge due to cloudy weather or shade. Battery capacity reduced over time. 	<ul style="list-style-type: none"> Allow several sunny days for full charge. Ensure solar panel is clean and optimally positioned. Consider replacing the battery.
Motion sensor not working.	<ul style="list-style-type: none"> Sensor obstructed. Motion outside detection range/angle. 	<ul style="list-style-type: none"> Clear any obstructions from the sensor. Adjust the light head and sensor angle to cover the desired area.

SPECIFICATIONS

Feature	Detail
Model Number	DG08-A3 Solar Lights
Brand	DrawGreen
Material	Aluminum Alloy
Light Source Type	LED
Brightness	1400LM (130W Equivalent)
Wattage	9 kWh
Voltage	12 Volts
Motion Sensor Range	20-26 ft, 120-degree angle
Charging Time	5-6 hours (full charge in direct sunlight)
Dim-Light Duration	Up to 3 days (on rainy days without sunlight)
Battery Type	1 Lithium Metal (18650, 3.7V 2600mAh)
Water Resistance	IP66 Waterproof
Temperature Resistance	-30°F to 120°F (-34°C to 49°C)
Product Dimensions	6.63"L x 3.53"W x 4.66"H
Item Weight	0.83 Pounds (approx. 13.3 ounces)



Image: Diagram illustrating the dimensions of the DrawGreen Solar Motion Sensor Light: 6.63 inches long, 3.53 inches wide, and 4.66 inches high.

WARRANTY AND SUPPORT

DrawGreen provides a **100-Week 100% Free Replacement or Money Back Guarantee** if there is any quality issue or any reason that causes dissatisfaction with this item.

For support, please contact DrawGreen customer service through the platform where you purchased the product or refer to the contact information provided with your purchase.