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› SZPOWER 4500LM 254 LED Solar Flood Light User Manual

SZPOWER 4500LM 254 LED Solar Flood Light (B0DNJHWB2S)

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Model: 4500LM 254 LED Solar Flood Light (B0DNJHWB2S)

1. INTRODUCTION

Thank you for choosing the SZPOWER 4500LM 254 LED Solar Flood Light. This manual provides essential information for the safe and efficient operation of your new solar lights. Please read these instructions carefully before installation and retain them for future reference.

Safety Precautions

- Ensure the solar panel receives direct sunlight for optimal charging.
- Do not attempt to disassemble or modify the product. This may void the warranty and pose safety risks.
- Keep the product away from fire or extreme heat sources.
- Install the light securely to prevent it from falling.
- Avoid looking directly into the LED lights when they are on, as this may cause temporary vision impairment.

2. PACKAGE CONTENTS

Please check the package to ensure all items are present and in good condition:

- SZPOWER 4500LM 254 LED Solar Flood Light (2 units)
- Remote Control (2 units)
- Mounting Screws and Wall Plugs (sufficient for 2 units)
- User Manual (this document)

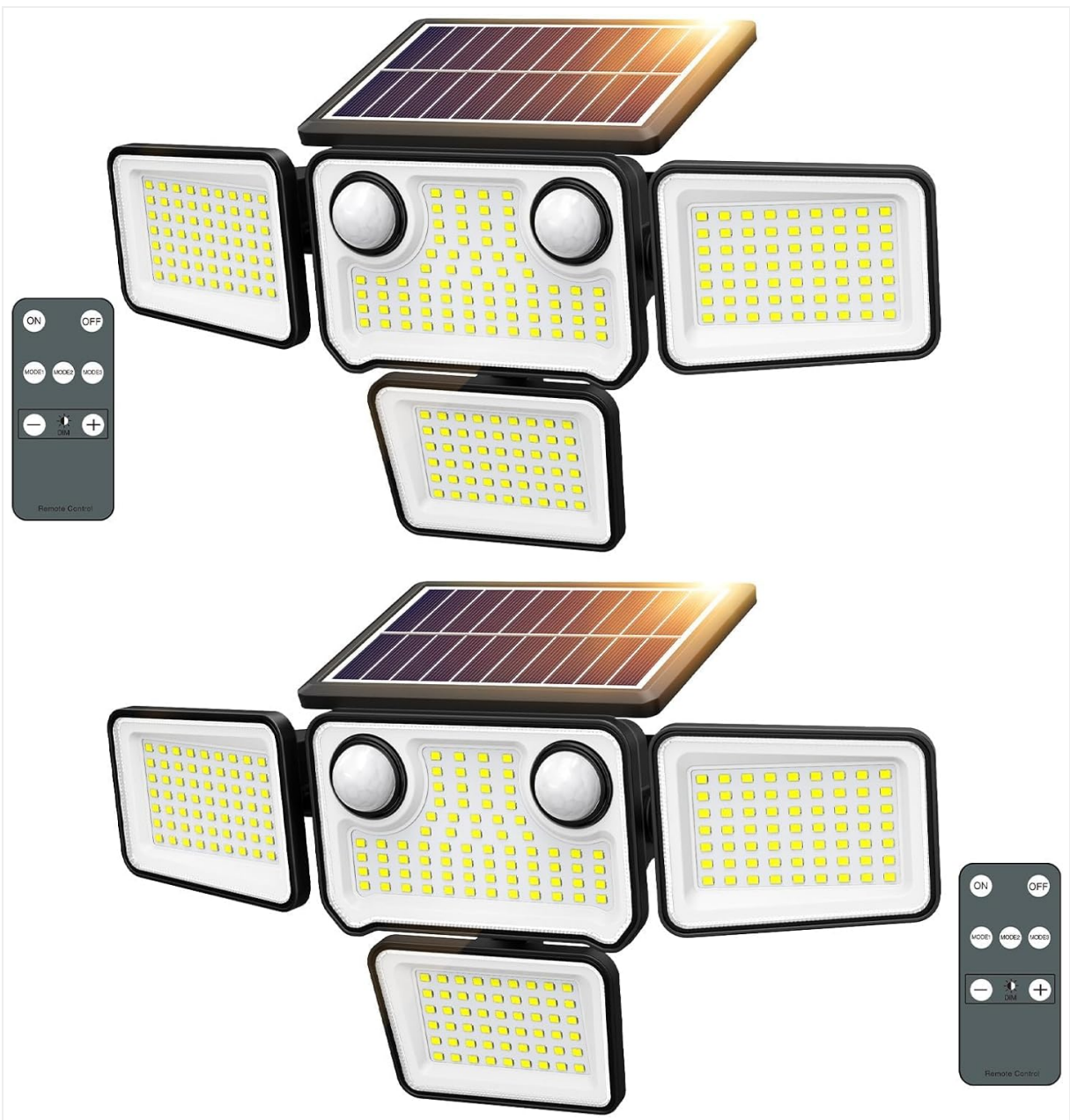


Image: Two SZPOWER 4500LM 254 LED Solar Flood Lights, each with a solar panel, four adjustable light heads, two motion sensors, and a remote control. This image displays the complete product package.

3. PRODUCT FEATURES

- **High Brightness:** Equipped with 254 super bright LED beads, providing 4500 lumens and 6500K white daylight.
- **Adjustable Brightness:** 3-level adjustable brightness (100%/60%/30%) to suit various needs.
- **Dual Motion Sensors:** Two upgraded PIR motion sensors detect movement within 32 feet at a 180° angle.
- **Four Adjustable Heads:** Four rotatable light heads offer 270° wide-angle lighting coverage.
- **Multiple Lighting Modes:** Three distinct lighting modes for versatile operation, controllable via remote.
- **Efficient Solar Charging:** High-efficiency solar panel with an 18.5% conversion rate, fully charging the 1800mAh battery in approximately 4 hours of direct sunlight.
- **Long Working Hours:** A fully charged battery can support up to 420 motion detections.
- **Durable Design:** IP65 waterproof rating ensures reliable performance in various weather conditions.
- **Wireless Remote Control:** Conveniently switch modes and adjust brightness from a distance.

High Efficiency Solar Panel

40%+ higher charging efficiency than ordinary solar lights.



CLOUDY

Efficient conversion to electricity.

4H 



SUNNY

4H High-speed charging

4H 



Image: Illustration showing the high efficiency solar panel. It depicts charging performance in both cloudy (60% efficiency) and sunny (100% efficiency) conditions over 4 hours, compared to ordinary solar lights.

Two Motion Sensors Design

The image compares two motion sensor designs. On the left, a dual-sensor design is shown with a 180-degree detection angle and a 32-foot detection distance. The sensor is depicted with two circular lenses and a green checkmark. On the right, a single-sensor design is shown with a 90-degree detection angle and a 15-foot detection distance. The sensor is depicted with one circular lens and a red X. Below the images is a table comparing the specifications.

Design	Detecting Angle	Detecting Distance
2 Sensors	180°	32ft
1 Sensor	90°	15ft

Image: A comparison illustrating the detection range of two motion sensors (180° angle, 32ft distance) versus a single motion sensor (90° angle, 15ft distance). The dual sensor design provides broader coverage.

4. SPECIFICATIONS

Attribute	Specification
Brand	SZPOWER
Model	4500LM 254 LED Solar Flood Light
Color	Black
Material	Plastic
Light Fixture Form	Floodlight
Brightness	4500 Lumens
LED Quantity	254 LEDs
Color Temperature	6500K (Daylight White)
Motion Sensor Detection Angle	180°
Motion Sensor Detection Distance	Up to 32 ft (10 meters)
Battery Capacity	1800mAh
Solar Charging Time	Approx. 4 hours (direct sunlight)
Waterproof Rating	IP65

5. INSTALLATION

Follow these steps to install your solar flood light:

- Choose a Location:** Select an outdoor location where the solar panel can receive at least 4-6 hours of direct sunlight daily. Avoid areas under eaves, trees, or other obstructions that might block sunlight.
- Mark Drill Holes:** Hold the light in the desired mounting position and mark the locations for the screw holes.
- Drill Holes:** Use an appropriate drill bit to drill holes at the marked locations. Insert wall plugs if mounting on masonry or concrete.
- Mount the Light:** Align the light with the drilled holes and secure it using the provided screws. Ensure it is firmly attached.
- Adjust Light Heads:** Adjust the four light heads to cover the desired lighting area. The heads are rotatable for flexible illumination.

4 Heads Solar Outdoor Lights



4500_{LM}



324_{LEDs}



6500_K



Image: An SZPOWER solar flood light mounted above a garage door, illuminating a wide driveway area. The image highlights the broad coverage of the light, estimated at 1600 sq ft.

6. OPERATION

Initial Use

Before first use, ensure the solar light is fully charged. Place it in direct sunlight for at least 6-8 hours. The light will automatically turn on at night and off during the day.

Remote Control Functions

The included remote control allows you to easily switch between lighting modes and adjust brightness:

- **ON/OFF Button:** Turns the light on or off.
- **MODE Button:** Cycles through the three lighting modes (Mode 1, Mode 2, Mode 3).
- **+/- Buttons:** Adjusts the brightness level (100%, 60%, 30%) in applicable modes.



Image: A hand holding the wireless remote control, pointing towards a mounted solar light on a house. The image indicates a remote control distance of 26.2ft to 32.8ft.

Lighting Modes

The solar light offers three operational modes:

1. Mode 1: Motion Sensor Mode

The light remains OFF until motion is detected. Upon detection, it illuminates at 100% brightness for approximately 20 seconds, then turns OFF again.

2. Mode 2: Dim Light Sensor Mode

The light stays on at a dim brightness (3%) continuously at night. When motion is detected, it brightens to 100% for approximately 20 seconds, then returns to dim brightness.

3. Mode 3: Always On Mode

The light stays on at a constant 10% brightness throughout the night, regardless of motion detection.



Image: A visual representation of the three lighting modes: Mode 1 (Motion Sensor Mode) shows the light off until motion, then 100% on; Mode 2 (Dim Light Sensor Mode) shows dim light until motion, then 100% on; Mode 3 (Always On Mode) shows the light continuously on at 10% brightness.

7. MAINTENANCE

To ensure optimal performance and longevity of your solar flood light, follow these maintenance guidelines:

- **Clean Solar Panel:** Regularly wipe the solar panel with a soft, damp cloth to remove dust, dirt, and debris. A clean panel ensures maximum sunlight absorption and charging efficiency.
- **Clear Obstructions:** Periodically check that no new obstructions (e.g., growing branches, new structures) are blocking direct sunlight from reaching the solar panel.
- **Inspect for Damage:** Occasionally inspect the light for any physical damage, loose screws, or wear and tear.
- **Battery Care:** The integrated battery is designed for long-term use. Avoid prolonged storage in a completely discharged state. If storing, ensure the light is fully charged first.



Image: An SZPOWER solar flood light mounted on an outdoor wall, illuminated during a heavy rainstorm with lightning. This image demonstrates the product's IP65 waterproof capability.

8. TROUBLESHOOTING

If you encounter issues with your solar flood light, refer to the following common problems and solutions:

- **Light Does Not Turn On at Night:**

- Ensure the light is switched ON.
- Verify the solar panel is receiving sufficient direct sunlight during the day (at least 4-6 hours).
- Check if the light is in the correct operating mode (Mode 1, 2, or 3).
- The battery might be completely discharged. Allow it to charge for 1-2 sunny days.

- **Light is Dim or Stays On for a Short Period:**

- The battery may not be fully charged due to insufficient sunlight or a dirty solar panel. Clean the panel and ensure optimal sun exposure.
- Weather conditions (e.g., prolonged cloudy days) can affect charging.

- **Motion Sensor Not Detecting Movement:**

- Ensure the light is in Mode 1 or Mode 2.

- Check for obstructions blocking the sensor's field of view.
- Verify the object is within the 32ft detection range and 180° angle.
- Extreme temperatures can sometimes affect sensor performance.
- **Remote Control Not Working:**
 - Ensure there are no obstructions between the remote and the light.
 - Check the remote control's battery.
 - Ensure you are within the effective range (26.2ft - 32.8ft).

9. WARRANTY AND SUPPORT

SZPOWER is committed to providing high-quality products. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty details, please refer to the product packaging or contact SZPOWER customer support.

If you have any questions, require technical assistance, or need to report an issue, please contact our customer support team through the retailer's platform or the official SZPOWER website. Please have your product model and purchase information ready when contacting support.