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SZPOWER SZD1503G

SZPOWER 150W LED Motion Sensor Flood Light (Model SZD1503G)

Instruction Manual

1. Introduction

Thank you for choosing the SZPOWER 150W LED Motion Sensor Flood Light. This product is designed to provide powerful, energy-efficient outdoor illumination with advanced motion sensing and dusk-to-dawn capabilities. Please read this manual thoroughly before installation and operation to ensure proper use and safety.

Your browser does not support the video tag.

Video Description: Official product video demonstrating the brightness and features of the SZPOWER 150W LED Motion Sensor Flood Light, including its wide illumination area and motion detection capabilities.

2. Safety Information

WARNING: Risk of electric shock. Disconnect power at the fuse or circuit breaker before installation or servicing.

- This product requires **120V hardwired installation**. For your safety, installation must be performed by a qualified electrician.
- Ensure all electrical connections are secure and comply with local electrical codes.
- Do not install near combustible materials or in areas with explosive atmospheres.
- Do not look directly into the LED light source when illuminated, as it may cause eye damage.
- The fixture is **IP65 waterproof**, but ensure all wiring connections are properly sealed to maintain water resistance.

3. What's in the Box

Upon opening the package, please verify that all components are present and undamaged:

- SZPOWER 150W LED Motion Sensor Flood Light

- Instruction Manual (this document)
- Mounting Hardware

4. Specifications

Feature	Specification
Brand	SZPOWER
Model Number	SZD1503G
Wattage	150W
Brightness	15000 Lumens
Color Temperature	6500K (Daylight White)
Voltage	120V
Motion Sensor Angle	180°
Motion Sensor Range	Up to 78 ft (23.7 m)
Water Resistance	IP65 Waterproof
Material	Aluminum, Plastic
Adjustable Heads	3 (Side heads 355°, Center head 135°)
Recommended Mounting Height	8.2–16.4 ft (2.5–5 m)

5. Setup and Installation

This flood light is designed for **hardwired installation**. Please follow these steps carefully. If you are unsure, consult a qualified electrician.

5.1 Pre-Installation Check

- Ensure the power supply is turned OFF at the circuit breaker before starting.
- Verify that the mounting surface is sturdy enough to support the fixture.
- The recommended mounting height for optimal performance is 8.2–16.4 ft (2.5–5 m).

5.2 Wiring Instructions



Image Description: This diagram illustrates the three-step hardwired installation process, connecting the live (L), neutral (N), and ground (G) wires to your electrical system. It also clarifies that the product is hardwired, not solar-powered, battery-powered, or a camera.

1. **Step 1:** Secure the mounting bracket to the junction box using the provided hardware.
2. **Step 2:** Connect the wires: Connect the **Live Wire (L)** from the fixture to the live wire from your electrical supply, the **Neutral Wire (N)** from the fixture to the neutral wire from your electrical supply, and the **Ground Wire (G)** from the fixture to the ground wire from your electrical supply. Use appropriate wire connectors.
3. **Step 3:** Attach the fixture to the mounting bracket, ensuring a secure fit and proper sealing to prevent water ingress.

5.3 Adjusting Light Heads



Image Description: This image highlights the adjustable design of the flood light's three heads. The side heads can rotate 355 degrees, and the center head adjusts 135 degrees, allowing for broad illumination. Key dimensions are also provided.

The three light heads are independently adjustable to direct illumination where needed:

- The two side heads can rotate up to **355°** horizontally.
- The center head can adjust up to **135°** vertically.

Loosen the screws on the joints, position the heads, and then tighten the screws to secure them.

5.4 Mounting Options



Image Description: This image provides visual examples of the flood light installed in two common configurations: mounted under a soffit and mounted directly on a wall, showcasing its adaptability to different outdoor placements.

The fixture can be mounted on a wall or under a soffit, offering flexibility for various outdoor lighting needs.

6. Operating Instructions

The SZPOWER flood light features a highly sensitive motion detector and multiple operating modes.

6.1 Motion Sensor



Image Description: This graphic demonstrates the wide 180-degree motion detection angle and adjustable sensing distances (Low: 20-26ft, Medium: 26-39ft, High: 39-78ft) of the integrated motion sensor, showing how it covers a large area like a driveway.

The integrated motion sensor offers a **180° wide-angle detection** and can sense movement up to **78 feet** away, covering approximately 3400 sq. ft. This ensures immediate illumination upon detection.

6.2 Lighting Modes



Image Description: This image visually explains the three operational modes: Sensor Mode (light activates upon motion), Dusk to Dawn Mode (automatically turns on at night and off during the day), and Test Mode (for pre-installation testing).

The flood light features three distinct operating modes, selectable via the control dial:

1. **Sensor Mode:** The light turns on only when motion is detected within its sensing range and turns off after a set duration (adjustable).
2. **D2D (Dusk to Dawn) Mode:** The light automatically turns on at night when ambient light levels drop and turns off during the day when it brightens. Motion detection is inactive in this mode.
3. **TEST Mode:** For pre-installation testing. The light turns on when motion is detected and turns off after 5 seconds. This mode allows you to verify sensor functionality and coverage during daylight hours.

6.3 Customizable Settings



Image Description: This detailed image shows the control dials on the motion sensor, allowing users to customize settings for time duration (10s to 10min), ambient light level (20-2000 lux), and to select between Dusk to Dawn (D2D) or Sensor Mode.

Use the control dials on the motion sensor to fine-tune the light's behavior:

- **Sensing Distance (Sensitivity):** Adjust between Low (L), Medium (M), and High (H) to control how far the sensor detects motion.
- **Ambient Light Level (LUX):** Set the light level from **20–2000 lux** at which the light will activate in D2D mode or allow motion detection in Sensor mode. (See image below for visual explanation of D2D lux setting).
- **On-Time (TIME):** In Sensor Mode, set how long the light remains on after motion is detected, from **10 seconds to 10 minutes**.

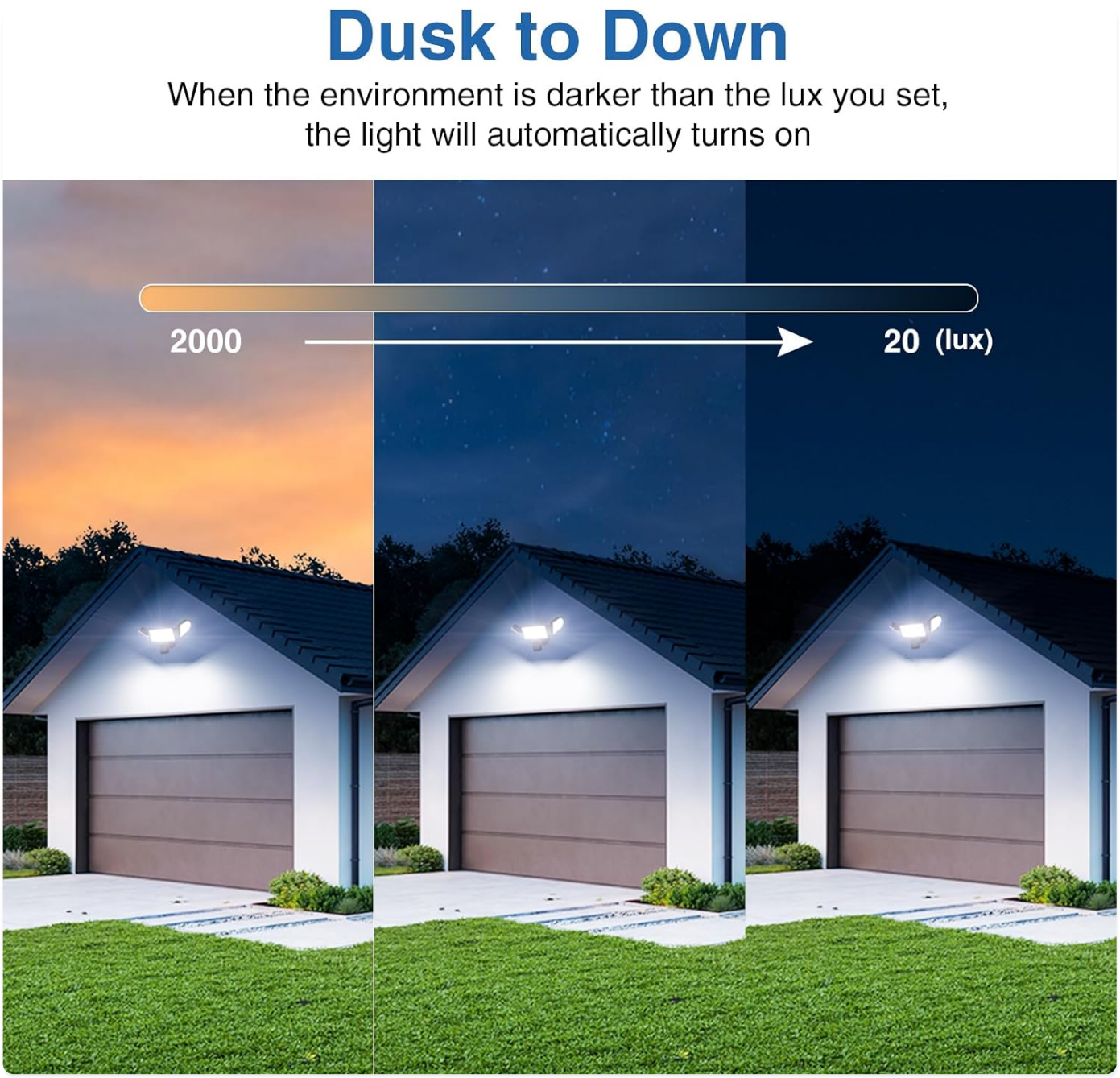


Image Description: This illustration clarifies the Dusk to Dawn functionality, where the light automatically turns on when ambient light falls below a set lux level (adjustable from 20 to 2000 lux) and turns off when it brightens.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your flood light.

- **Cleaning:** Periodically clean the light heads and motion sensor lens with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Annually inspect the wiring and mounting hardware for any signs of wear, corrosion, or loosening. Tighten connections as necessary.
- **Weather Resistance:** The fixture is **IP65 waterproof, frost-resistant, and heat-resistant**, designed to withstand various outdoor conditions. However, avoid direct high-pressure water jets.



Image Description: This image illustrates the durability of the flood light, highlighting its IP65 waterproof rating, as well as its frost and heat resistance, ensuring reliable operation in various weather conditions.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Light does not turn on	No power; Incorrect wiring; LUX setting too high (in D2D mode); Sensor obstructed.	Check circuit breaker; Verify wiring connections; Adjust LUX setting lower; Clear obstructions from sensor.
Light stays on constantly	Continuous motion detected; D2D mode selected; Wiring issue.	Ensure no constant motion in sensor range; Switch to Sensor Mode if D2D is not desired; Recheck wiring.

Light turns on/off too frequently	Sensor sensitivity too high; Sensor detecting small animals or moving objects (trees, traffic).	Adjust sensor sensitivity (L/M/H) to a lower setting; Reposition the sensor or light heads to avoid unwanted triggers.
Light does not turn off	TIME setting too long; Faulty sensor.	Adjust TIME setting to a shorter duration; If problem persists, contact customer support.

9. Warranty and Support

The SZPOWER 150W LED Motion Sensor Flood Light comes with a**1-year manufacturer warranty**. This warranty covers defects in materials and workmanship under normal use.
For warranty claims, technical assistance, or any questions regarding your product, please contact SZPOWER customer support through the retailer where the product was purchased or visit the official SZPOWER store page on Amazon: SZPOWER Store.
Please have your model number (SZD1503G) and purchase information ready when contacting support.

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