A-ZONE AZ-JJ-W000022

A-ZONE Solar Motion Sensor Light Outdoor - User Manual

Model: AZ-JJ-W000022

1. PRODUCT OVERVIEW

The A-ZONE Solar Motion Sensor Light is an advanced outdoor lighting solution designed for enhanced security and convenience. This unit integrates a high-efficiency solar panel, powerful LED lights, and a sensitive PIR motion sensor into a durable, weather-resistant housing. It is engineered to provide reliable illumination for various outdoor areas, including porches, gardens, patios, driveways, and pathways.

Key Features:

- **Two Working Modes:** Automatically switches between weak light mode at night and high light mode upon motion detection.
- **360° Adjustable Design:** The light holder and solar panel can be rotated for optimal positioning and sunlight exposure.
- **High Quality Construction:** Features an aluminum-alloy case and IP66 waterproof rating for durability in various weather conditions.
- **Efficient Motion Sensing:** Built-in PIR motion sensor detects movement up to 26 feet away within a 120-degree range.
- **Super Bright Illumination:** Delivers 800 lumens in high light mode for effective area lighting.
- **Long Operation Time:** The 1800mAh Li-ion battery provides up to 40 hours of light in low-light mode on a full charge.

Figure 1: Product Components. This diagram illustrates the main parts of the solar motion sensor light, including the durable aluminum-alloy casing, the PIR motion sensor, the LED light array, the adjustable solar panel, the power switch, and the control button.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your A-ZONE Solar Motion Sensor Light. Choose a location that receives ample direct sunlight throughout the day to ensure the solar panel can efficiently charge the battery.

Installation Steps:

1. **Choose Location:** Select a mounting location that allows the solar panel to face south and receive direct sunlight for at least 6-8 hours daily. Ensure the area to be illuminated is within the motion sensor's range.
2. **Mark Drilling Points:** Hold the light's base against the desired mounting surface and mark the positions for the mounting screws.
3. **Drill Holes:** Use an appropriate drill bit to create holes at the marked points. Insert wall anchors if mounting on masonry or drywall.
4. **Mount the Base:** Secure the light's base to the wall using the provided screws. It is often easier to detach the light

from its base before mounting the base, then reattach it afterward.

5. **Adjust Light and Panel:** Adjust the angle of the light head (up to 90° vertically and 360° horizontally) and the solar panel (up to 120° vertically) to optimize light coverage and solar charging.

6. **Initial Charge:** Before first use, ensure the light is fully charged by exposing it to direct sunlight for 5-6 hours.

Figure 2: Adjustable Angles and Dimensions. This image details the rotational capabilities of the solar panel and the light head, allowing for precise aiming and optimal solar exposure. Dimensions are also provided for installation planning.

Figure 3: Versatile Installation Examples. This image showcases the ease of installation and the versatility of the light, demonstrating its suitability for various outdoor locations such as garages, porches, patios, gardens, driveways, and pathways.

3. OPERATING INSTRUCTIONS

The A-ZONE Solar Motion Sensor Light operates automatically based on ambient light and motion detection.

Working Modes:

- **Weak Light Mode (40 Lumens):** During nighttime or in low-light conditions, the light will automatically turn on in a continuous weak light mode to provide subtle illumination.
- **High Light Mode (800 Lumens):** When motion is detected within the sensor's range (10-26 feet, 120-degree angle), the light will switch to a bright 800-lumen mode for 15-20 seconds. After the motion ceases, it will revert to the weak light mode to conserve battery power.

To activate the light, ensure the on-off switch button (refer to Figure 1) is pressed to the 'ON' position. The built-in photocell sensor will manage the light's operation automatically.

PIR Motion Sensor

Auto Weak-light Mode at Night
(40LM)

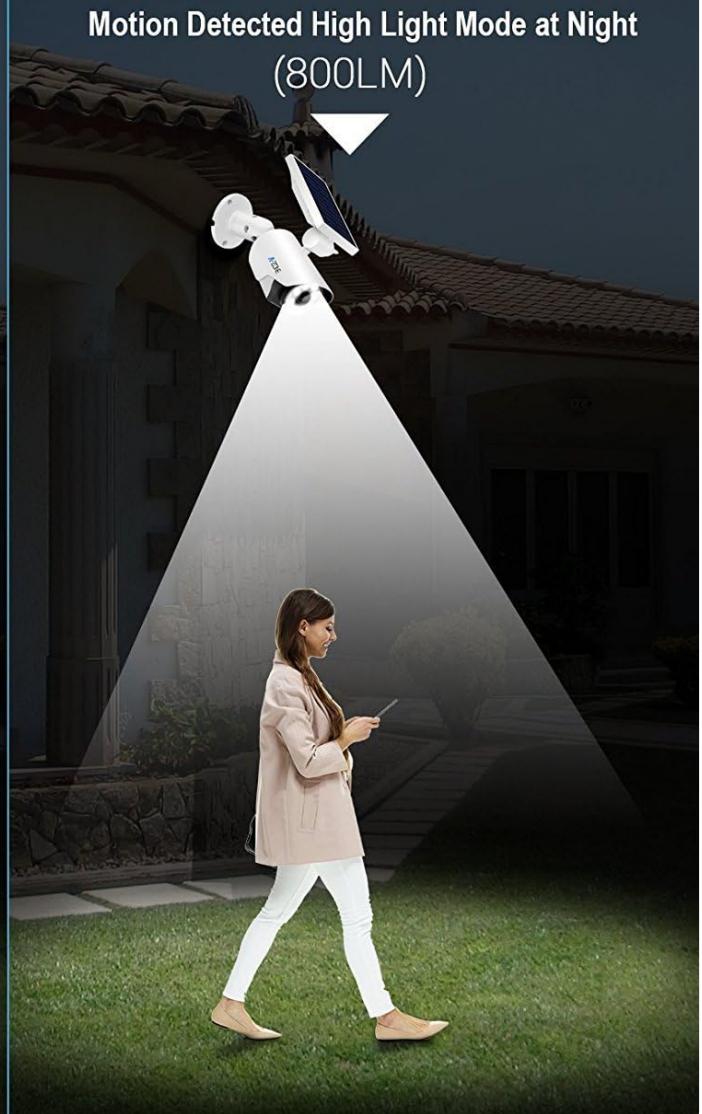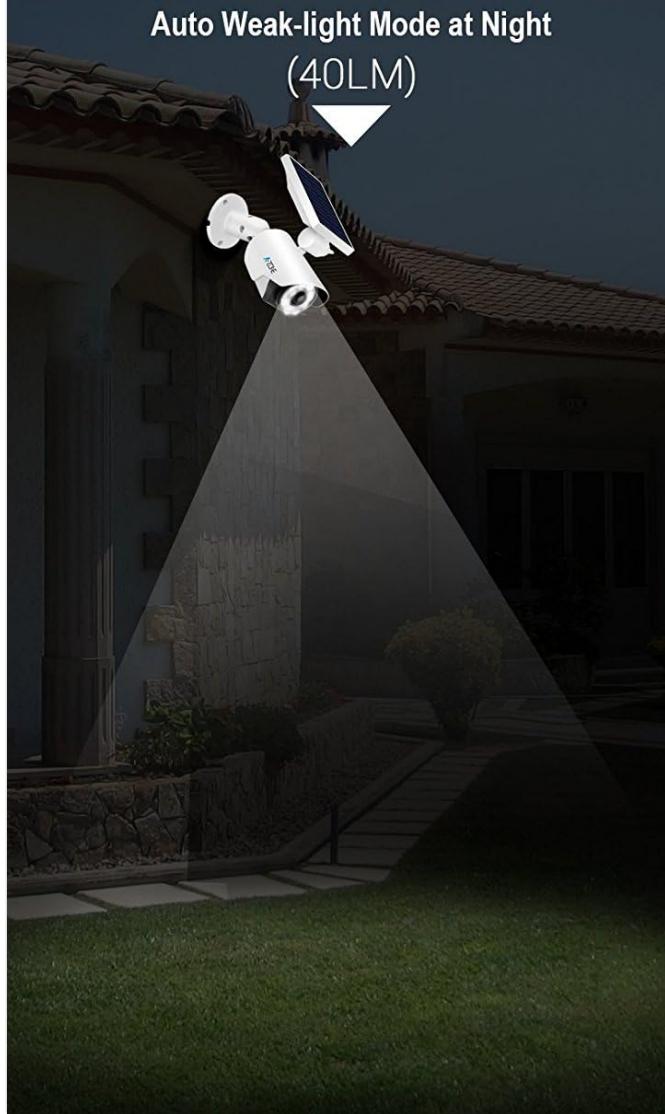**Motion Detected High Light Mode at Night**
(800LM)

Figure 4: PIR Motion Sensor Modes. This illustration demonstrates the two operational modes: a constant weak light at night and a bright, motion-activated light, highlighting the difference in illumination levels.

Figure 5: Motion Detection Range. This image specifies the effective motion detection distance of up to 26 feet and the 120-degree detection angle, crucial for optimal placement.

Video 1: Motion Sensor Solar Light Demonstration. This video provides a visual demonstration of the solar light's motion sensing capabilities and how it transitions between its weak light and high light modes when motion is detected.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your solar light.

Care and Cleaning:

- **Solar Panel:** Periodically wipe the solar panel with a soft, damp cloth to remove dust, dirt, or debris. A clean panel ensures maximum sunlight absorption and charging efficiency.
- **Light Housing:** Clean the light housing and lens with a soft cloth. Avoid abrasive cleaners or solvents that could damage the finish or plastic components.
- **Battery:** The light features a replaceable Li-ion battery (3.7V 1800mAh). While designed for long life (approx. 5

years), if performance significantly degrades, the battery may need replacement. Consult a qualified technician for battery replacement.

- **Waterproofing:** The light is rated IP66 waterproof, meaning it is protected against powerful water jets and dust. While designed for outdoor elements, avoid submerging the unit.

Figure 6: IP66 Waterproof Rating. This image highlights the light's IP66 waterproof and dustproof rating, ensuring its resilience against various weather conditions, including rain and snow.

5. TROUBLESHOOTING

If your A-ZONE Solar Motion Sensor Light is not functioning as expected, please refer to the following common issues and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient solar charge; ON/OFF switch is off; Sensor obstructed.	Ensure solar panel receives 6-8 hours of direct sunlight daily. Check if the ON/OFF switch is in the 'ON' position. Clear any obstructions from the solar panel or motion sensor.
Light stays dim or does not switch to high mode.	Low battery charge; Motion sensor not detecting movement; Sensor sensitivity issue.	Allow more time for solar charging. Ensure motion is within the detection range (10-26ft, 120°). Verify no objects are blocking the sensor's view.
Light turns on during the day.	Photocell sensor is obstructed or faulty.	Ensure no objects are covering the photocell sensor. If the issue persists, contact customer support.
Rusting or corrosion on the unit.	Exposure to harsh environmental conditions, especially around screws.	While the unit is IP66 rated, prolonged exposure to salt spray or highly corrosive environments can cause issues. Apply a weather-resistant sealant around screw points during installation for added protection.

If these solutions do not resolve the issue, please contact A-ZONE customer support for further assistance.

6. SPECIFICATIONS

Feature	Detail
Brand	A-ZONE
Model Name	Tollar01 (AZ-JJ-W000022)
Light Source Type	LED
Brightness	800 Lumens (High Mode), 40 Lumens (Weak Mode)
Wattage	5 watts
Voltage	5 Volts
Color Temperature	6500 Kelvin
Material	Aluminum Alloy, ABS Plastic
Water Resistance Level	IP66 Waterproof
Power Source	Solar, Battery-Powered
Battery Type	Li-ion (3.7V 1800mAh)
Average Battery Life	5 years
Motion Sensor Range	10-26 feet

Feature	Detail
Motion Sensor Angle	120 degrees
Product Dimensions	102"L x 39.6"W x 58.8"H (Note: This dimension seems unusually large for a single light unit and may refer to packaging or a different measurement unit.)
Item Weight	2.64 Pounds

7. WARRANTY AND SUPPORT

A-ZONE stands behind the quality of its products.

Warranty Information:

This product comes with a **one-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

Customer Support:

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact A-ZONE customer support through the retailer's platform or the official A-ZONE website. Please have your model number (AZ-JJ-W000022) and purchase date available when contacting support.

An official User Guide in PDF format is also available for download:Download User Guide (PDF)