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› Tuffenough Solar Outdoor Motion Sensor Lights (Model JY2241) - User Manual

Tuffenough JY2241

Tuffenough Solar Outdoor Motion Sensor Lights (Model JY2241)

User Manual

1. INTRODUCTION

Thank you for choosing the Tuffenough Solar Outdoor Motion Sensor Lights. This manual provides essential information for the safe and efficient use of your new solar lights. Please read these instructions carefully before installation and operation, and retain them for future reference.

These solar-powered LED security floodlights are designed to provide bright, motion-activated illumination for outdoor areas such as yards, pathways, garages, and more. Featuring 4 adjustable light heads, 2 advanced PIR motion sensors, and 3 distinct operating modes, they offer versatile and energy-efficient lighting solutions.



Image: The Tuffenough solar light providing illumination for a chicken coop, a garage, and acting as a security deterrent.

2. PRODUCT FEATURES

- **High-Efficiency Solar Charging:** Built-in rechargeable battery with a high-efficiency solar panel for reliable charging even in less direct sunlight.
- **Advanced Motion Detection:** Equipped with 2 upgraded PIR motion sensors, detecting motion up to 40 feet within a 180° angle.
- **Ultra-Bright Illumination:** Features 423 LEDs, producing up to 2500 lumens of bright white light.
- **Adjustable Lighting Coverage:** 4 rotatable light heads allow for multi-directional adjustment, illuminating larger areas.
- **Three Operating Modes:** Selectable modes to suit various lighting needs (Sensor Mode, Always On Mode, DIM Mode).
- **Durable and Weatherproof:** Constructed from durable ABS+PC material with an IP65 waterproof rating, ensuring functionality in heavy rain and snow.
- **Easy Installation:** Wireless design for quick and simple surface mount installation on any exterior wall.



Image: Diagram illustrating the high-efficiency solar panel, designed to increase charging speed by 25%.

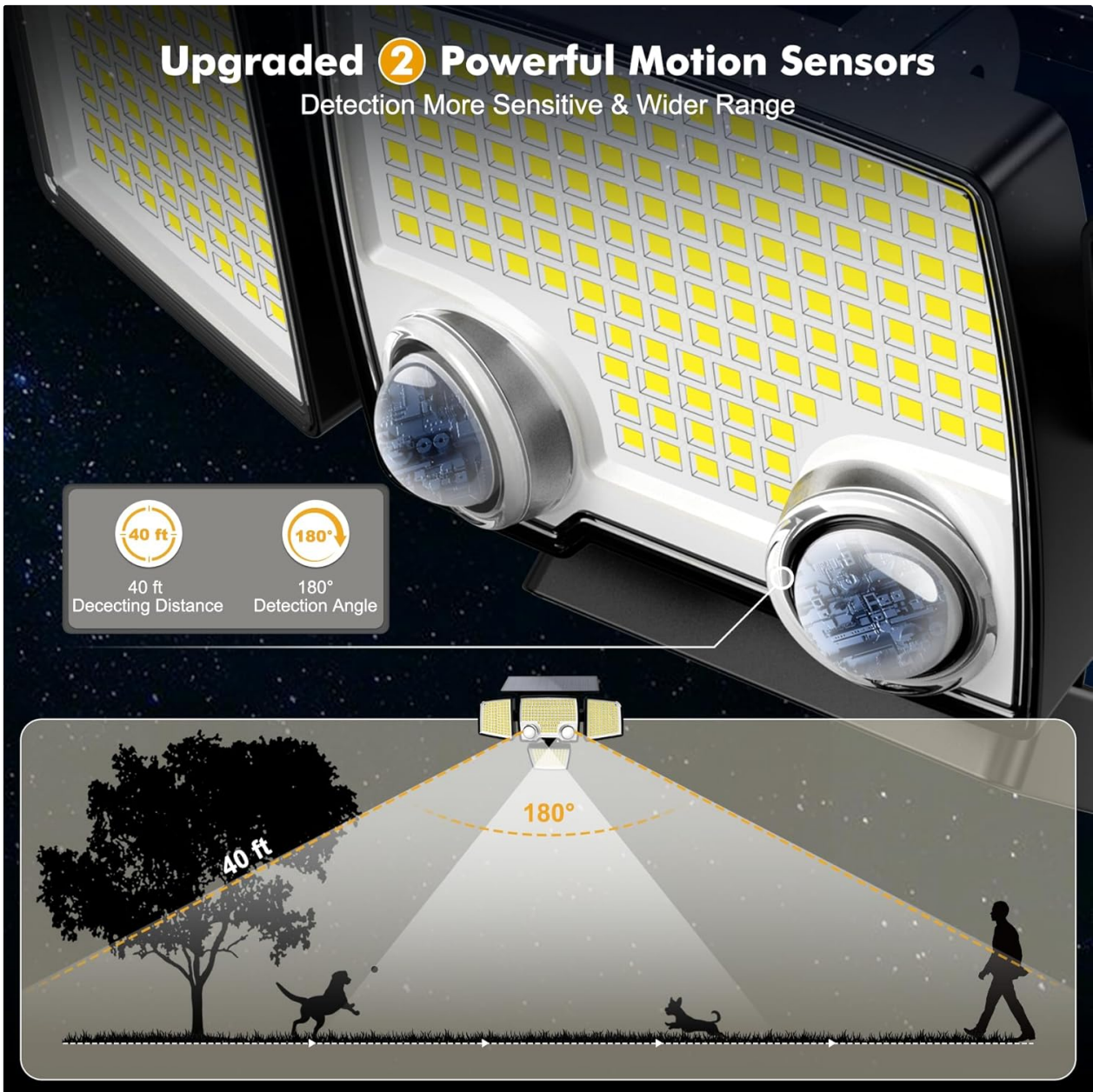


Image: Illustration of the two upgraded PIR motion sensors, highlighting their 40ft detection distance and 180° detection angle.



Image: Comparison illustrating the wider and longer detection capabilities achieved with two motion sensors compared to a single sensor.

3. PACKAGE CONTENTS

Please check the package contents upon receipt:

- 2 x Tuffenough Solar Outdoor Motion Sensor Lights
- Mounting Hardware (screws, wall anchors)
- User Manual

4. SAFETY INFORMATION

To ensure safe operation and prevent damage, please observe the following safety guidelines:

- Read all instructions before installing and operating the lights.
- Do not attempt to disassemble or modify the product. This may void the warranty and cause damage.
- Keep the product away from open flames or extreme heat sources.
- Ensure the installation surface is sturdy enough to support the light fixture.
- Avoid looking directly into the LED lights when they are active, as the brightness may cause temporary discomfort.
- Dispose of the product and its components responsibly according to local regulations at the end of its lifespan.

5. SETUP AND INSTALLATION

Follow these steps for optimal performance and easy installation:

1. **Choose an Installation Location:** Select an outdoor location that receives direct sunlight for at least 6-8 hours daily to ensure maximum charging efficiency. Avoid areas under eaves, trees, or other obstructions that might block sunlight. The recommended installation height is 6.5 to 8 feet (approximately 2 to 2.4 meters) from the ground for optimal motion detection and light coverage.
2. **Select Operating Mode:** **Before mounting the light**, locate the mode selection switch on the back of the solar light. Press the button to cycle through the 3 available modes (1, 2, 3) or turn it OFF. Refer to Section 6 for detailed descriptions of each mode.
3. **Mount the Bracket:** Using the provided mounting hardware (screws and wall anchors), securely attach the mounting bracket to your chosen wall or surface. Ensure the bracket is level and firmly fixed.
4. **Attach the Light Fixture:** Slide the solar light fixture onto the mounted bracket until it clicks securely into place.
5. **Adjust Light Heads:** Once installed, adjust the 4 rotatable light heads to direct illumination to your desired areas.

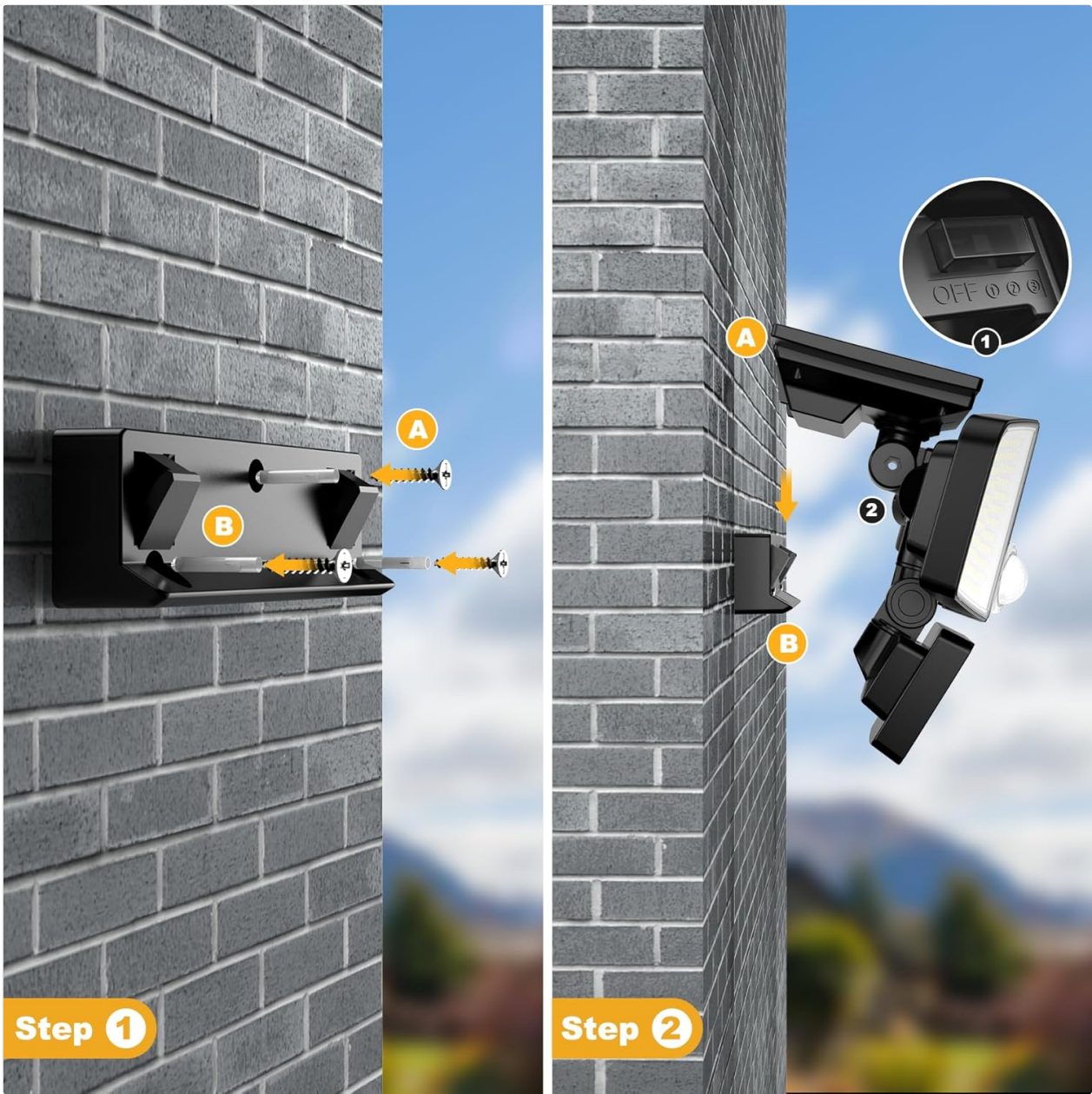


Image: Step-by-step guide showing how to mount the bracket and attach the solar light fixture to a wall.



Image: Diagram illustrating the location of the mode switch on the back of the light and the recommended installation height of 6.5-8 feet.

6. OPERATING MODES

The Tuffenough Solar Outdoor Lights offer three distinct operating modes, selectable via the button switch on the back of the unit. Press the button repeatedly to cycle through the modes.

Mode 1: Sensor Mode

In darkness, the light remains OFF. When motion is detected, the light turns on at **strong brightness**. It will turn OFF approximately 25-30 seconds after motion ceases.

Mode 2: Always On Mode

In darkness, the light turns on and stays at **10% brightness** continuously for 8 hours, regardless of motion. After 8 hours, the light will turn off.

Mode 3: DIM Mode

In darkness, the light stays on at **dim brightness**. When motion is detected, the light switches to **strong brightness**. It returns to dim brightness after motion ceases.

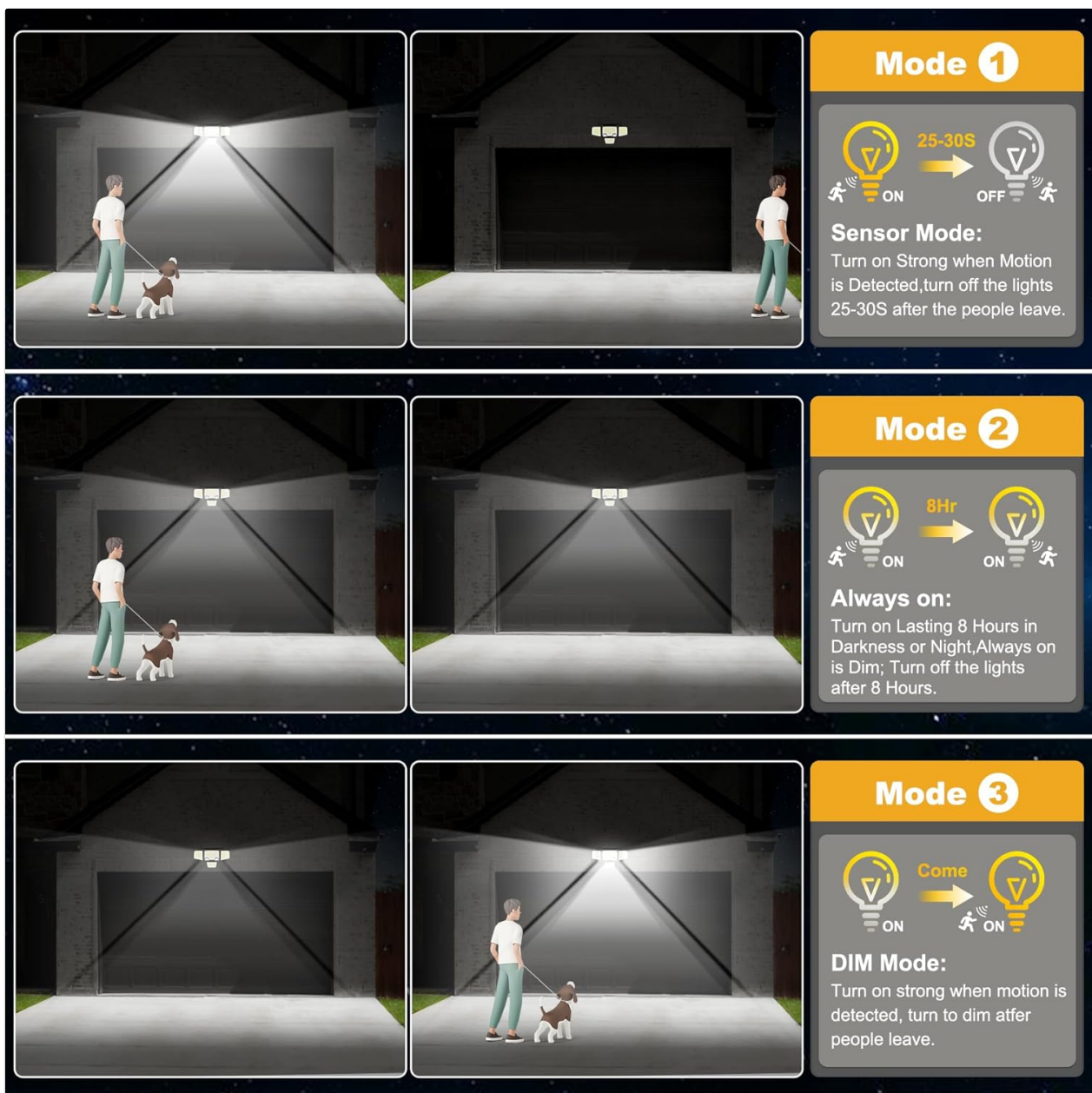


Image: Visual representation of the three distinct operating modes: Sensor Mode, Always On Mode, and DIM Mode, showing light behavior with and without motion detection.

7. MAINTENANCE

To ensure the longevity and optimal performance of your Tuffenough Solar Outdoor Lights, regular maintenance is recommended:

- **Clean the Solar Panel:** Periodically wipe the solar panel with a soft, damp cloth to remove dust, dirt, leaves, or snow. A clean panel ensures maximum sunlight absorption and charging efficiency.
- **Clear Motion Sensor Path:** Ensure that the motion sensors are not obstructed by debris, plants, or other objects that could interfere with detection.
- **Check Connections:** Occasionally inspect the mounting and light heads to ensure they remain secure and properly adjusted.
- **Battery Care:** The built-in rechargeable battery is designed for long life. Avoid prolonged storage in a completely discharged state. If storing for an extended period, ensure the light is fully charged before storage and recharge every few months.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient solar charge.	Ensure the solar panel is in a location receiving 6-8 hours of direct sunlight daily. Clean the solar panel.
	Mode switch is OFF or incorrect mode selected.	Check the mode switch on the back of the light and select the desired operating mode (1, 2, or 3).
Motion sensor is not detecting movement or is too sensitive.	Obstruction in sensor's field of view.	Clear any objects (plants, decorations) that might be blocking the sensor.
	Incorrect installation height or angle.	Adjust the light's position or angle to optimize sensor coverage. Recommended height is 6.5-8 feet.
Light is dim or only stays on for a short period.	Insufficient solar charge.	Relocate the light to an area with more direct sunlight. Clean the solar panel.
	Battery degradation over time.	While designed for longevity, battery capacity can decrease over many years. Ensure optimal charging conditions.

9. SPECIFICATIONS

Feature	Detail
Brand	Tuffenough
Model Number	JY2241
Material	Acrylonitrile Butadiene Styrene (ABS+PC)
Power Source	Solar Powered
Light Source Type	LED (423 LEDs)
Brightness	2500 Lumens (LM)
Motion Sensor	2 PIR Sensors
Detection Distance	Up to 40 ft
Detection Angle	180°
Light Heads	4, Rotatable
Operating Modes	3 (Sensor, Always On, DIM)
Water Resistance Level	IP65 Waterproof
Product Dimensions	11 x 8.8 x 5.5 inches
Item Weight	1.58 pounds
Installation Type	Surface Mount (Wall Mount)
Included Components	Mounting Hardware

Upgraded Model	Original Model
+ NEW 2 Sensor / 180°	1 Sensor / 180°
+ NEW 423 LED / 7500K	210 LED / 3500K
+ NEW Super Bright 2500LM	2500LM
+ NEW 4 Adjustable heads (270° Lighting Area)	3 Adjustable heads (270° Lighting Area)

Image: A comparison table highlighting the upgraded features of the Tuffenough solar light, including 2 sensors, 423 LEDs, 2500LM brightness, and 4 adjustable heads.

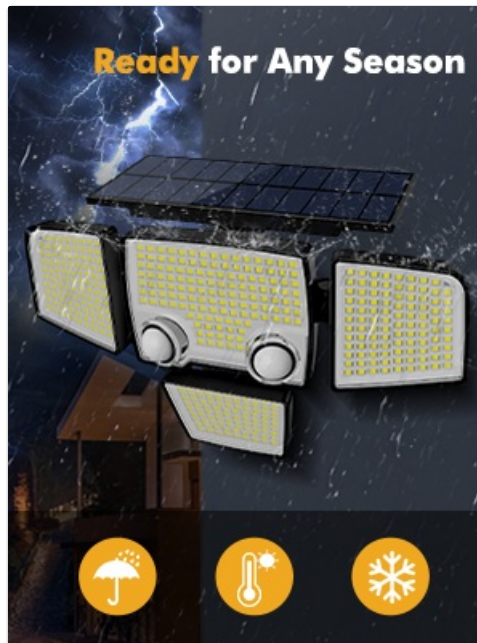


Image: The solar light depicted in various weather conditions (rain, heat, snow), emphasizing its IP65 waterproof and all-season readiness.

10. WARRANTY AND SUPPORT

Tuffenough is committed to providing high-quality products. For any warranty claims, technical assistance, or support inquiries regarding your Solar Outdoor Motion Sensor Lights (Model JY2241), please contact Tuffenough customer service through the retailer where the product was purchased or visit the official Tuffenough website for contact information.

Please have your purchase receipt and product model number (JY2241) available when contacting support.