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> TECKNET 4200Lm 416 LED Solar Lights Outdoor Waterproof User Manual

TECKNET TK-SL003

TECKNET 4200Lm 416 LED Solar Lights Outdoor User Manual

Model: TK-SL003 | Brand: TECKNET

INTRODUCTION

Thank you for choosing TECKNET 4200Lm 416 LED Solar Lights. These outdoor lights are designed to provide efficient, bright, and reliable illumination for your outdoor spaces, utilizing solar energy and advanced motion sensing technology. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your solar lights.



Image: Two TECKNET 416 LED Solar Lights, showcasing their design and LED array.

PRODUCT FEATURES

- **Efficient Solar Energy Conversion:** Harnesses sunlight with an impressive 27% conversion rate, providing 10-12 hours of illumination after a full day's charge.
- **416 LEDs Enhanced Brightness:** Features 416 LED beads and an innovative reflective light structure for brighter, wider lighting coverage, illuminating areas up to 376 FT².
- **3 Lighting Modes:** Offers continuous medium-light, dim-to-bright light transition, and sensor motion mode (no light to high light) to suit various needs.
- **IP66 Waterproof:** Fully sealed bead construction and durable ABS material provide IP66 waterproof, frostproof, and heatproof protection, ensuring resilience in extreme weather.
- **Advanced PIR Sensor:** Detects movement within 13-20ft and a 120° angle, activating the light for security and convenience.
- **300° Wide Lighting Angle:** Provides expansive coverage, wider than the market average, ensuring comprehensive

illumination of your outdoor space.

- **Multiple Installation Methods:** Easy to install with screws, double-sided tape, or rope hanging, allowing flexible placement in various outdoor locations.

PACKAGE CONTENTS

- 2 x TECKNET Solar Lights
- Screws and Anchors (for mounting)
- 3M Tapes (for alternative mounting)

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your solar lights. Follow these steps for setup:

Initial Charge:

Upon arrival, the lights may have depleted power due to extended shipping. It is recommended to charge the solar lights for at least 6 hours in direct sunlight before initial use. After charging, test them in a dark area to ensure functionality.

Choosing a Location:

Select a location that receives ample direct sunlight throughout the day to ensure the solar panel can efficiently convert sunlight into electricity. Avoid shaded areas or locations under artificial night lighting, which may interfere with the light sensor.



Image: Illustration of the solar light's charging process during the day and automatic illumination at night, highlighting its 27% solar conversion efficiency.

Mounting Options:

The TECKNET solar lights offer multiple installation methods for your convenience:

- **Screw Mounting:** For a secure and permanent installation, use the provided screws and anchors to fix the light to a wall or fence.
- **Double-sided Adhesive:** For a less permanent solution, the included 3M tapes can be used to adhere the light to a clean, flat surface.
- **Rope Hanging:** The light can also be hung using a rope through its designated hanging points, offering flexibility for temporary or specific placements.



Image: Visual guide demonstrating the three primary installation methods: screw mounting, double-sided adhesive, and rope hanging.

Activating the Light:

Locate the on/off button on the back of the unit. Press the button to cycle through the operating modes and activate the light. Ensure the light is in the desired mode before final installation.

OPERATING MODES

Your TECKNET solar light features three distinct lighting modes to adapt to different needs and environments. Cycle through these modes by pressing the power button on the back of the unit.

1. Mode 1: Always On Mode (Continuous Medium Brightness)

The light will turn on at dusk and maintain a continuous medium brightness throughout the night, turning off automatically at dawn. This mode is suitable for constant ambient lighting.

2. Mode 2: Dim Light Sensor Mode

The light stays at a dim brightness (30% light) at night. When motion is detected, it brightens to full intensity (100%

light) for a set period, then returns to dim light after motion ceases. This mode balances constant illumination with energy saving.

3. Mode 3: Strong Light Sensor Mode

The light remains off (0% light) at night. When motion is detected, it illuminates at full intensity (100% light) for a set period, then turns off completely after motion ceases. This mode is ideal for security and maximizing battery life.

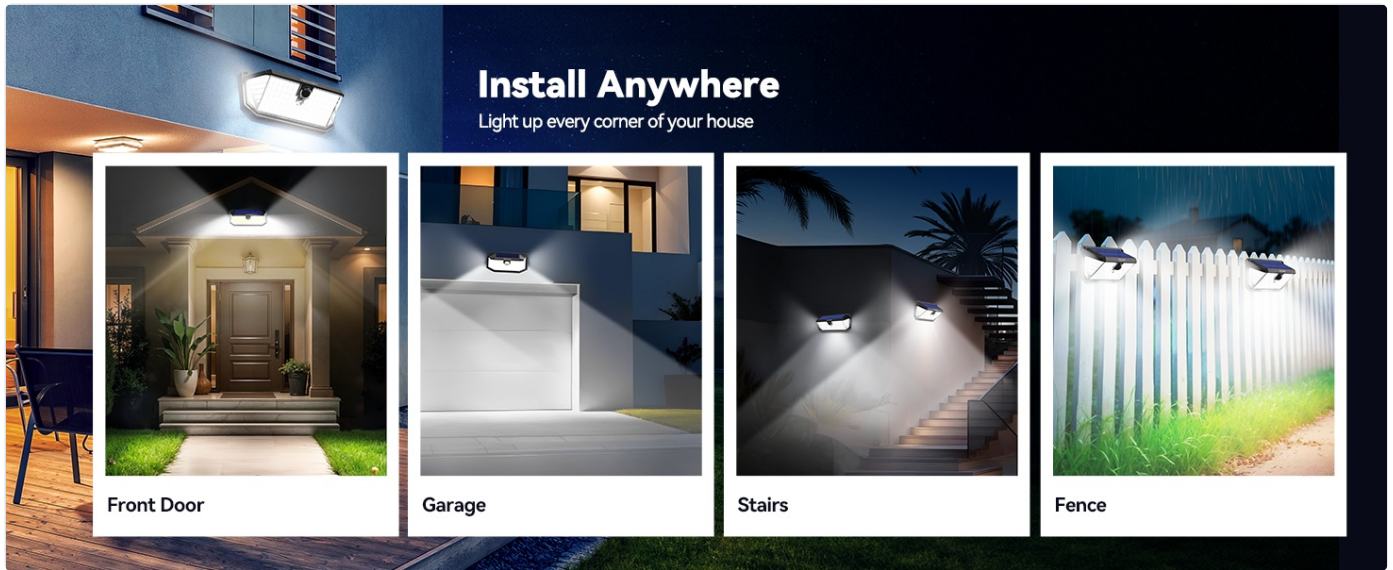


Image: Visual representation of the three operational modes, showing light behavior in different scenarios.

Motion Sensor Functionality:

The advanced PIR motion sensor detects movement within a 13-20ft range and a 120° angle. This ensures that the light activates promptly when people, animals, or vehicles enter its detection zone, enhancing safety and convenience.



Image: Diagram illustrating the motion sensor's detection range and angle, showing how it covers a wide area.

MAINTENANCE

To ensure the long-term performance and efficiency of your TECKNET solar 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.
- **Check for Obstructions:** Ensure no trees, bushes, or structures are growing to block direct sunlight from reaching the solar panel, especially during different seasons.

- **Inspect for Damage:** Regularly check the light for any physical damage, such as cracks in the casing or loose components. The IP66 waterproof rating protects against weather, but physical impact can compromise it.
- **Battery Longevity:** The integrated 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 beforehand.

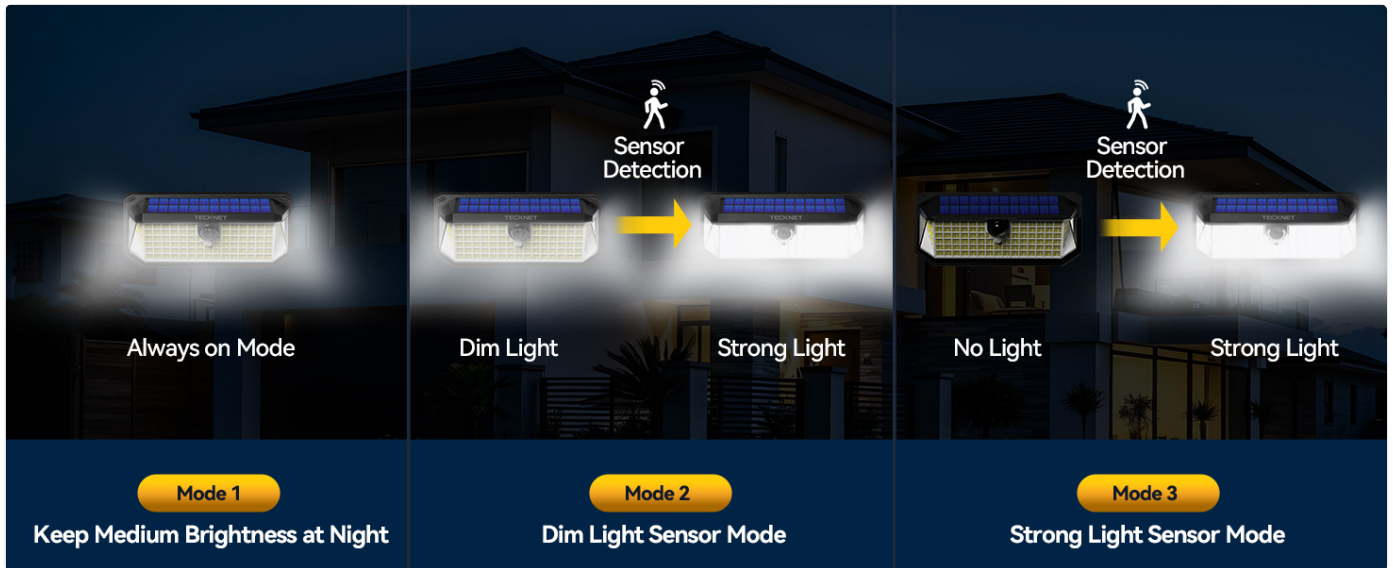


Image: The solar light shown in various weather conditions (rain, snow, intense sun), emphasizing its IP66 waterproof and weather-resistant design.

TROUBLESHOOTING

If your TECKNET solar light is not functioning as expected, please refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Light does not turn on at night.	<ul style="list-style-type: none"> • Insufficient sunlight exposure during the day. • Light is not activated (OFF mode). • Solar panel is dirty or obstructed. • Ambient light is too bright (e.g., street light). 	<ul style="list-style-type: none"> • Ensure the light is placed in a location receiving 6-8 hours of direct sunlight daily. • Press the power button on the back to cycle through modes and ensure it's ON. • Clean the solar panel regularly. • Relocate the light to an area with less ambient light at night.
Light is dim or only stays on for a short period.	<ul style="list-style-type: none"> • Battery not fully charged. • Frequent motion activation in sensor modes. • Cold weather affecting battery performance. 	<ul style="list-style-type: none"> • Allow the light to charge for a full day in direct sunlight. • Consider using Mode 1 (Always On) or Mode 2 (Dim Light Sensor) if constant motion is expected. • Solar lights may have reduced performance in extreme cold; this is normal.
Motion sensor is not detecting movement.	<ul style="list-style-type: none"> • Sensor is obstructed or dirty. • Movement is outside the detection range/angle. • Light is in Mode 1 (Always On) where motion detection is not applicable. 	<ul style="list-style-type: none"> • Clean the sensor lens. • Adjust the light's position to ensure the sensor covers the desired area (13-20ft, 120°). • Switch to Mode 2 or Mode 3 for motion-activated lighting.

SPECIFICATIONS

Feature	Detail
Brand	TECKNET
Model Name	TK-SL003
Light Source Type	LED (416 LEDs)
Brightness	4200 Lumen
Light Color	Cool White
Material	Acrylonitrile Butadiene Styrene (ABS)
Water Resistance Level	IP66 Waterproof
Power Source	Solar Powered
Solar Conversion Rate	Up to 27%
Lighting Angle	300°
Motion Sensor Detection Range	13-20 ft
Motion Sensor Detection Angle	120°
Product Dimensions	3.8"L x 2.8"W x 8.62"H
Item Weight	3.2 ounces
Included Components	2pcs Solar Light, 3M Tapes, Screws and Anchors

WARRANTY AND SUPPORT

TECKNET products come with a Limited Warranty. For specific details regarding your warranty coverage, please refer to the warranty information provided with your purchase or visit the official TECKNET website.

If you encounter any issues or have questions about your TECKNET 4200Lm 416 LED Solar Lights, please contact TECKNET customer support. Have your model number (TK-SL003) and purchase details ready for faster assistance. You can often find support contact information on the product packaging, the TECKNET brand store on Amazon, or their official website.