ropelux XHY-2208

ropelux Solar Outdoor Lights Instruction Manual

Model: XHY-2208

Brand: ropelux

1. Introduction

Thank you for choosing the ropelux Solar Outdoor Light. This high-brightness, motion-sensing floodlight is designed for outdoor use, providing reliable illumination and enhanced security for your garden, patio, street, garage, and other outdoor areas. Featuring double solar panels, IP65 waterproofing, and multiple lighting modes, this light is built for efficiency and durability in various weather conditions.

2. Product Features

- **High Brightness & Efficiency:** Equipped with 218 LEDs and two large solar panels (82.5 sq. inches) with a 22% conversion rate, providing 6000 lumens of bright, cool white light.
- **Intelligent PIR Motion Sensor:** Detects motion within a 26-foot range and a 120° detection angle, ensuring responsive lighting when needed.
- **Longer Work Time:** Built-in 4400mAh Lithium Polymer battery ensures extended illumination throughout the night.
- **Durable & Weatherproof:** Constructed from durable ABS material with an IP65 waterproof rating, designed to withstand snow, storm, rain, and frost.
- **Adjustable Angle:** Features a 4x180° adjustable arm and light panels for optimal positioning and wider illuminated area.

Figure 2.1: Overview of the ropelux Solar Outdoor Light.

Figure 2.2: Comparison highlighting 218 LEDs, double panels, and 270° adjustable beam angle versus typical alternatives.

Figure 2.3: The ropelux light features larger solar panels (82.5 sq. inches) for superior energy absorption and conversion (22% efficiency).

Figure 2.4: The IP65 waterproof design ensures reliable operation in various weather conditions, including frost and heat.

Figure 2.5: Ideal for illuminating front doors, yards, garages, and barns, enhancing security and visibility.

Figure 2.6: The light offers 4x180° adjustable angles for flexible positioning and wider light coverage.

3. Setup and Installation

The ropelux Solar Outdoor Light is designed for easy flush mount installation. No complex assembly is required. Follow these steps for optimal performance:

1. **Choose a Location:** Select an outdoor location that receives direct sunlight for at least 8 hours a day to ensure the solar panels can fully charge the battery. The adjustable arm allows for flexible placement to maximize sun exposure and light coverage.
2. **Drill Holes:** Use a drill to create holes in the desired mounting surface according to the mounting bracket's dimensions.

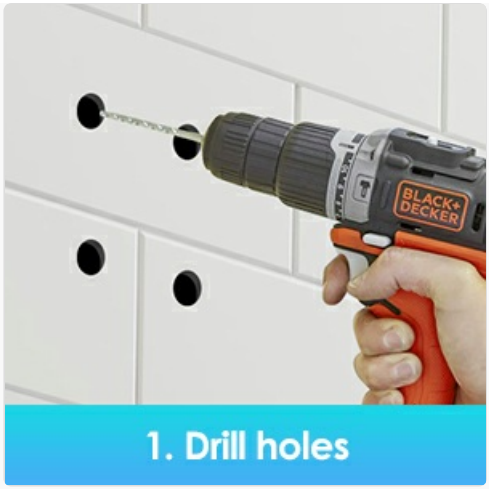

Figure 3.1: Prepare the mounting surface by drilling holes for the bracket.

3. **Activate and Select Mode:** Before mounting, press the power button on the light to turn it on and select your desired lighting mode. The light will flash to indicate the selected mode number.

Figure 3.2: Turn on the light and select the operating mode using the mode button.

4. **Mount the Light:** Secure the mounting bracket to the wall using the provided screws and anchors. Then, attach the light unit to the bracket and tighten the joints to fix its position.

Figure 3.3: Secure the light by screwing the bracket to the wall and tightening all joints.

5. **Adjust Panels:** Adjust the solar panels to face the sun for maximum charging efficiency throughout the day.

4. Operating Modes

The ropelux Solar Outdoor Light offers 5 distinct lighting modes to suit various needs. Cycle through the modes by pressing the mode button on the unit. The number of flashes indicates the current mode.

1. **Mode 1 (Smart Brightness Control):** When motion is detected, the light turns on at 100% brightness. After 15 seconds of no motion, it will auto-dim to a lower brightness level.
2. **Mode 2 (Security Mode):** When motion is detected, the light turns on at 100% brightness. After 15 seconds of no motion, it will auto-off completely.
3. **Mode 3 (Dusk to Dawn Mode):** The light stays on at 15% brightness all night. This mode does not utilize the motion sensor.
4. **Mode 4 (1 Hour Always On):** The light turns on at 100% brightness for 1 hour, then automatically turns off. This cycle repeats the next day.
5. **Mode 5 (AUTO Mode):** The light is always on at 70% brightness. When the battery level drops to 50% or below, it automatically switches to Mode 2 (Security Mode) and cycles accordingly the next day.

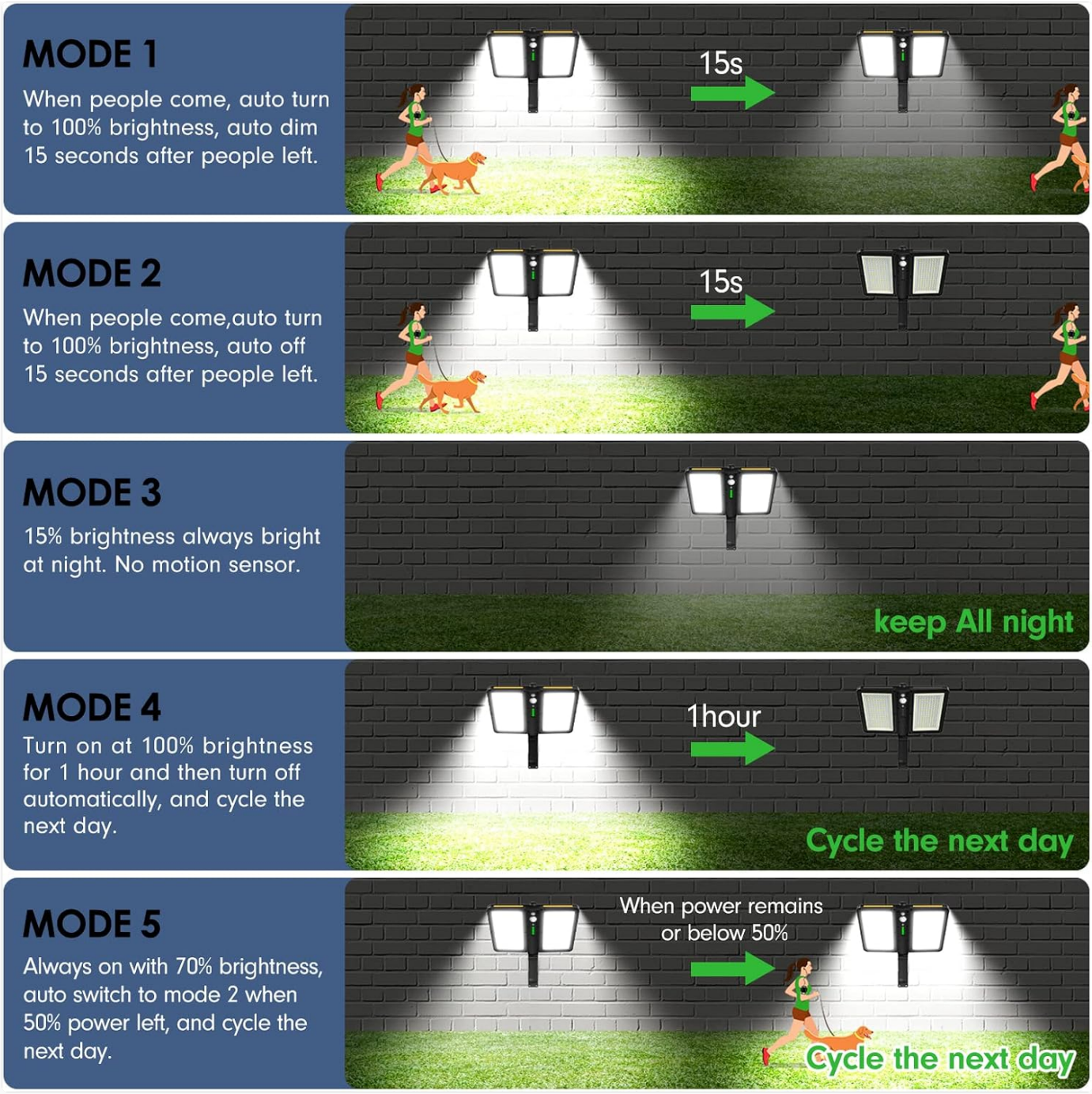

Figure 4.1: Visual representation of the five distinct lighting modes.

Demonstration Videos:

Video 4.1: Demonstration of the motion sensor functionality and brightness levels of the ropelux Solar Outdoor Light.

Video 4.2: Detailed explanation and visual examples of each of the 5 operating modes.

5. Maintenance

To ensure the longevity and optimal performance of your ropelux Solar Outdoor Light, follow these simple maintenance guidelines:

- **Clean Solar Panels:** Periodically wipe the solar panels with a soft, damp cloth to remove dust, dirt, or debris that may accumulate and hinder charging efficiency.
- **Inspect for Damage:** Regularly check the unit for any physical damage, loose connections, or signs of wear.

- **Clear Obstructions:** Ensure no new obstructions (e.g., growing branches, new structures) are blocking direct sunlight to the solar panels.

6. Troubleshooting

If your ropelux Solar Outdoor Light is not functioning as expected, consider the following common issues and solutions:

- **Light Not Turning On at Night:**
  - Ensure the light is switched ON and in the correct operating mode.
  - Verify the solar panels are receiving sufficient direct sunlight (at least 8 hours) during the day.
  - Check for any light sources nearby that might be triggering the ambient light sensor, preventing the light from activating.
- **Motion Sensor Not Responding:**
  - Confirm the light is in a motion-sensing mode (Mode 1, 2, or 5).
  - Ensure the motion sensor is not obstructed or dirty.
  - Test the detection range (up to 26 feet) and angle (120°) by walking directly towards and across the sensor.
- **Short Illumination Time:**
  - The battery may not be fully charged. Ensure solar panels are clean and receiving maximum direct sunlight.
  - Consider the selected mode; some modes consume more power than others.
  - Extreme weather conditions (very cloudy days, prolonged rain) can affect charging efficiency.

7. Specifications

Feature	Specification
Brand	ropelux
Model Number	XHY-2208
Light Source	218 LEDs
Brightness	6000 Lumens
Color Temperature	6500 Kelvin (Cool White)
Solar Panel Size	82.5 Sq. Inches (Double Panels)
Solar Conversion Efficiency	22%
Battery Capacity	4400mAh Lithium Polymer
PIR Motion Sensor Range	Up to 26 feet

Feature	Specification
PIR Motion Sensor Angle	120°
Waterproof Rating	IP65
Material	ABS (Acrylonitrile Butadiene Styrene)
Product Dimensions (L x W x H)	9.37" x 9" x 2.56"
Item Weight	2 pounds
Installation Type	Flush Mount
Average Life	50,000 Hours

8. Warranty and Support

For warranty information, technical support, or any inquiries regarding your ropelux Solar Outdoor Light, please refer to the documentation included in your product packaging or visit the official ropelux website. Keep your purchase receipt for warranty claims.

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Model number, symptoms, what you tried, or the section of the manual you are using.

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