intelamp 12b

Intelamp Solar Outdoor Flood Lights (Model 12b) - Instruction Manual

Model: 12b

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Intelamp Solar Outdoor Flood Lights, Model 12b. These lights are designed to provide efficient and reliable outdoor illumination using solar power and motion sensing technology. Please read this manual thoroughly before use to ensure proper function and longevity of your product.

2. Product Overview

The Intelamp Solar Outdoor Flood Lights feature a 3-head design with a separate solar panel for optimal sun exposure. Equipped with dual motion sensors, these lights offer a wide detection range and multiple operating modes controlled by a remote. They are built with IP65 waterproof rating for durability in various outdoor conditions.

Key Features:

- **High-Efficiency Solar Panel:** A large 40 square inch (9.4 x 4.3 inches) solar panel ensures faster charging.
- **Large-Capacity Battery:** A 6000mAh lithium-ion battery provides extended illumination, up to three nights in motion-sensing mode on a full charge.
- **Bright Illumination:** Delivers up to 1200 lumens of bright white light (6500 Kelvin).
- **Dual Motion Sensors:** Two sensors provide a 180-degree detection range, covering a broader area and minimizing blind spots.
- **Remote Control Operation:** Adjust settings such as motion-detected high-brightness duration (20, 30, or 40 seconds) and various lighting modes.
- **Durable and Waterproof:** IP65 rated for resistance against dust and water, suitable for outdoor use.
- **Flexible Installation:** Separate solar panel with a 9-foot cable allows for flexible placement of both the light and the panel.

Image 2.1: Overview of the Intelamp Solar Outdoor Flood Lights, showing two units, their separate solar panels, and remote controls.

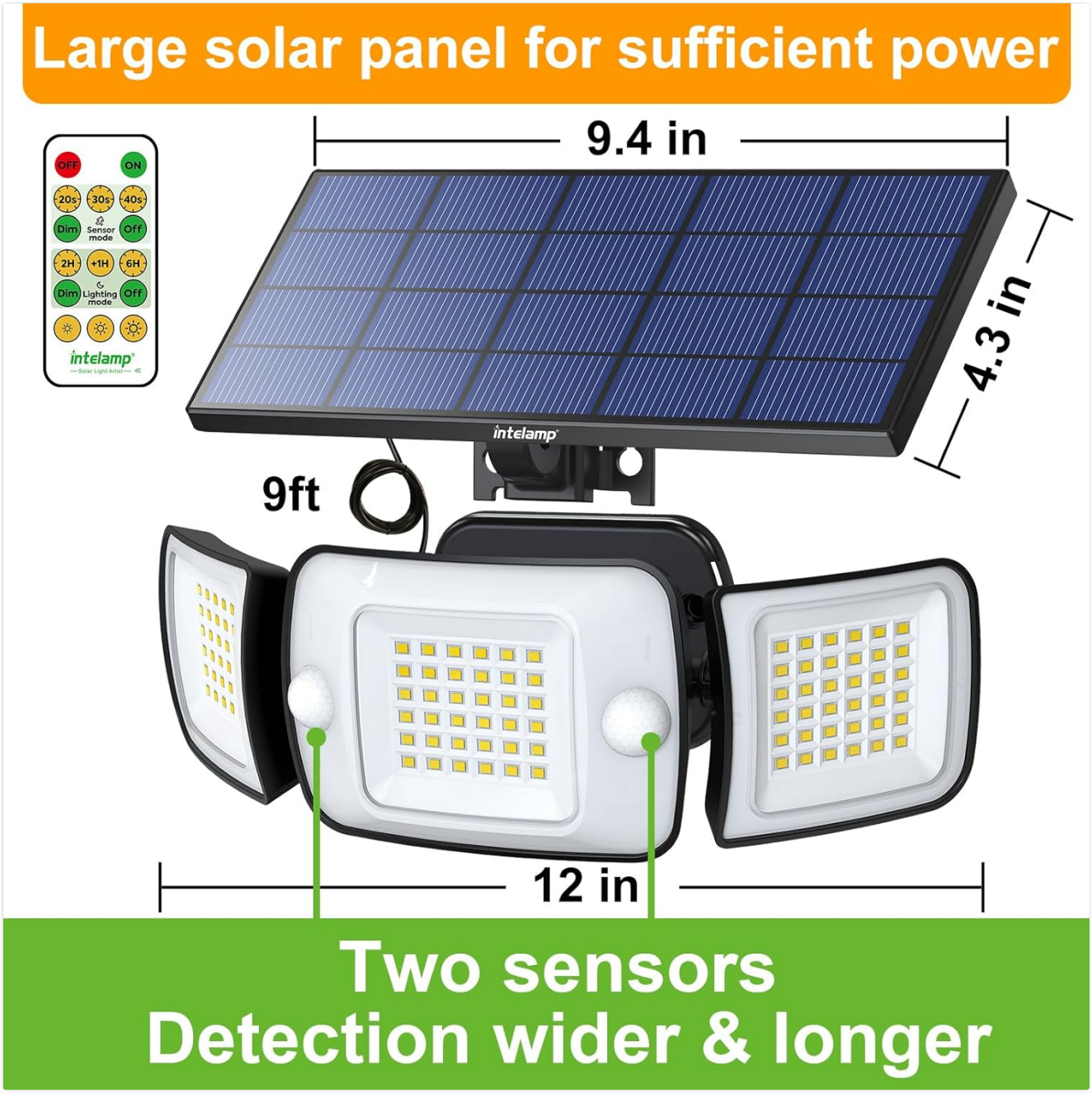

Image 2.2: Detailed view of the solar panel and light unit, illustrating dimensions (9.4 inches for solar panel, 12 inches for light unit), the 9-foot cable, and the two motion sensors.

Image 2.3: Comparison of Intelamp solar lights with standard lights, highlighting Intelamp's larger 40 sq inch solar panel, 6000mAh battery, and 1200 lumen brightness compared to standard 21 sq inch panel, 2000mAh battery, and 600 lumen brightness.

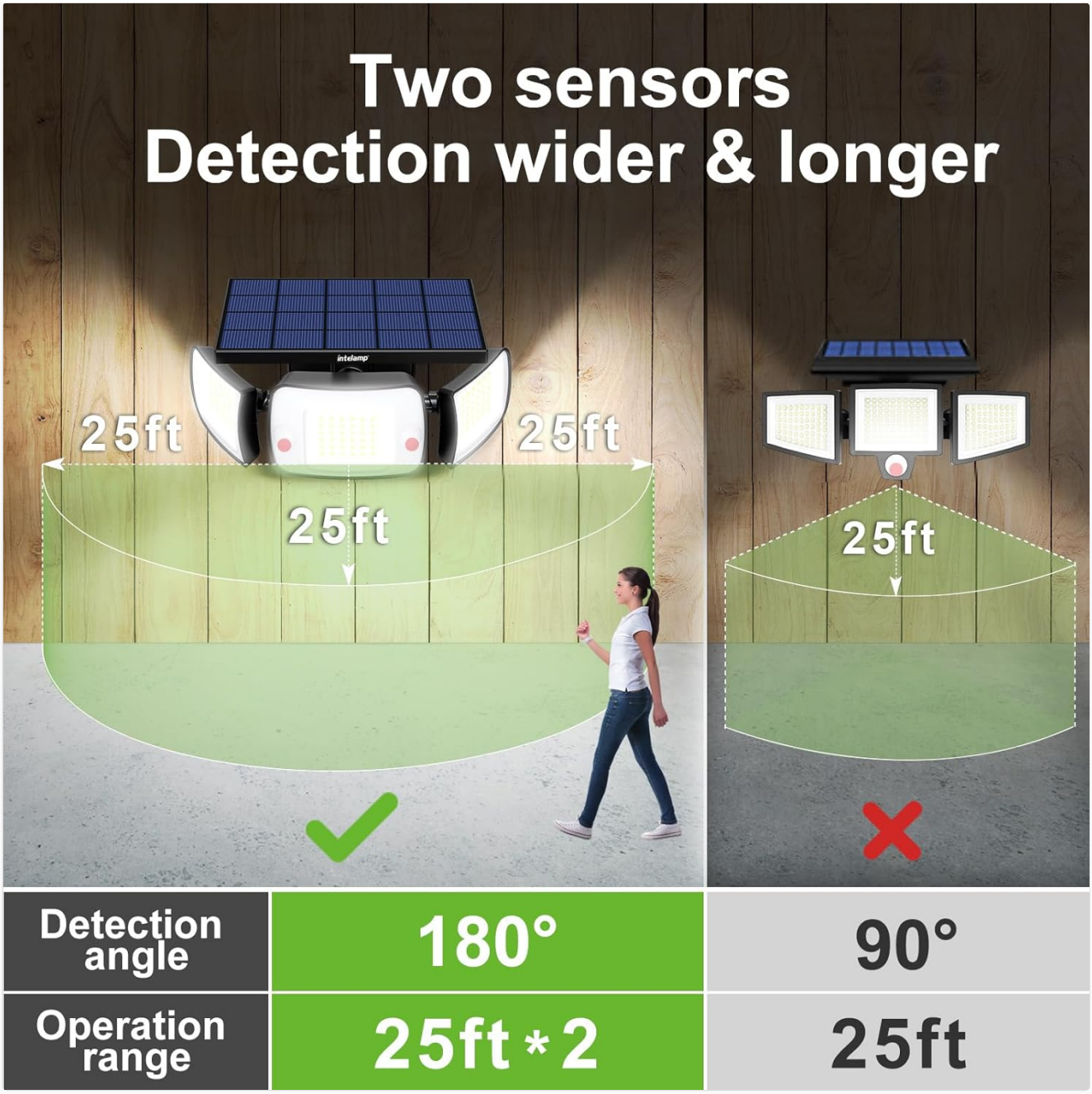

Image 2.4: Illustration demonstrating the superior 180-degree detection angle and 25ft*2 operation range of the dual sensor design, in contrast to a single sensor's 90-degree detection and 25ft range.

3. Package Contents

Verify that all components are present in the package:

- Intelamp Solar Flood Light Unit(s)
- Separate Solar Panel(s) with 9FT Cable
- Remote Control(s)
- Mounting Screws
- Cable Ties
- Instruction Manual (this document)

4. Specifications

Feature	Specification
Brand	intelamp
Model Number	12b
Color	White
Material	Acrylonitrile Butadiene Styrene (ABS)
Light Fixture Form	Floodlight
Product Dimensions	9.84"L x 4.65"W x 5.31"H
Indoor/Outdoor Usage	Outdoor
Power Source	Solar Powered
Installation Type	Wall Mount
Special Features	Energy Efficient, Motion Sensor
Control Method	Remote Control
Light Source Type	LED
Number of Light Sources	108
Voltage	3.2 Volts
Light Color	White
Wattage	4 watts
Switch Type	Motion Sensor
Water Resistance Level	IP65 Waterproof
Brightness	1200 Lumen
Color Temperature	6500 Kelvin
Battery	1 Lithium Ion (6000mAh)

5. Setup and Installation

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

5.1 Choose an Installation Location

- **For the Solar Panel:** Select a location that receives direct sunlight for at least 6-8 hours daily. Avoid areas shaded by trees, buildings, or eaves, as this will significantly reduce charging efficiency. The 9-foot cable allows flexibility in placing the solar panel away from the light unit to maximize sun exposure.
- **For the Light Unit:** Choose a location where the light can effectively illuminate the desired area and where the motion sensors have an unobstructed view of the detection zone. Common locations include walls, fences, garage door frames, or posts.

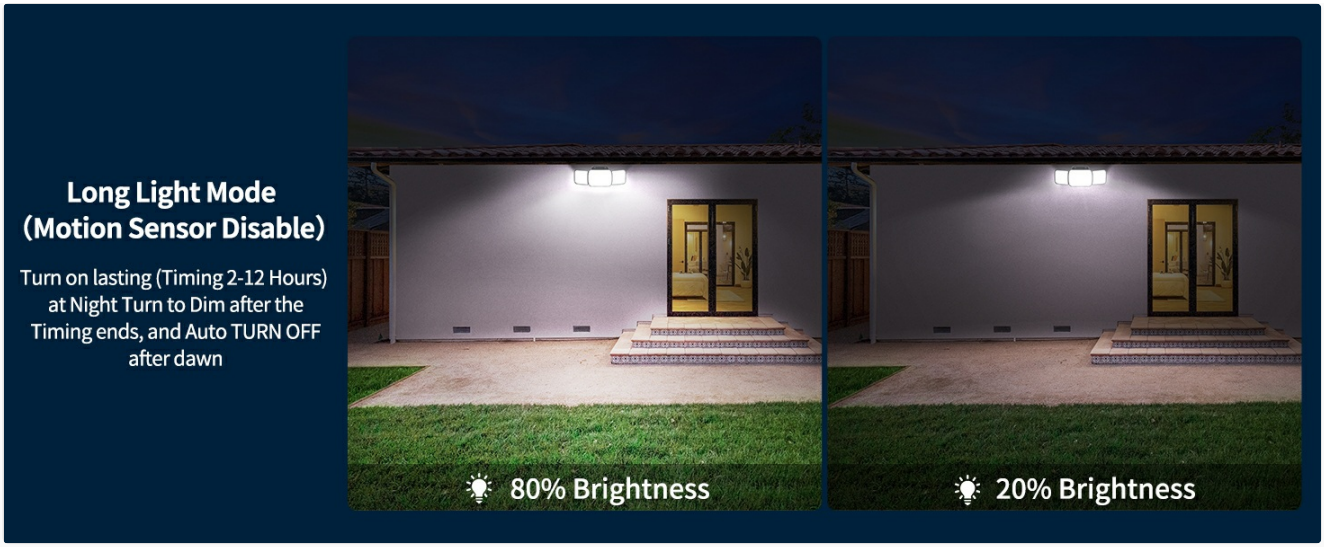

Image 5.1: The solar panel should be installed in a location with sufficient direct sunlight to ensure proper battery charging.

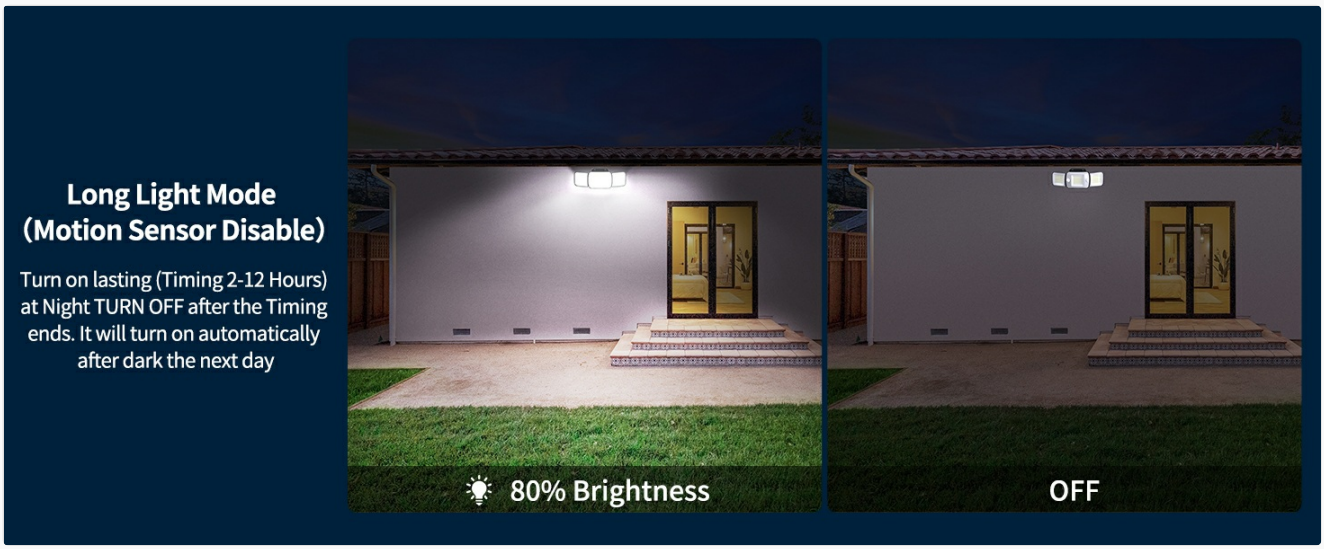

Image 5.2: Proper installation ensures the solar panel is not covered by eaves or other obstructions, allowing full sun exposure.

5.2 Mounting the Light and Solar Panel

The light unit and solar panel can be mounted using the included screws or cable ties.

- **Wall Installation (Screws):**
    1. Mark the desired mounting points for both the light unit and the solar panel. The light unit has hole spacing of 2.1 inches (top) and 3.5 inches (bottom).
    2. Drill pilot holes if necessary.
    3. Rotate the solar panels on the light unit from side to side and the central lamp vertically up and down to provide space for screw installation.
    4. Secure the light unit and solar panel brackets to the surface using the provided screws.
- **Cable Tie Installation (for poles, trees, fences):**
    1. Insert the cable ties through the mounting holes on the light unit and solar panel brackets.
    2. Wrap the cable ties around the pole, tree trunk, or fence, and secure them tightly.

Image 5.3: Instructions for wall mounting using screws and alternative installation using cable ties for poles or trees.

5.3 Initial Charging

Before first use, allow the solar panel to charge in direct sunlight for at least 6-8 hours to ensure the battery is sufficiently charged.

6. Operating Instructions

Your Intelamp Solar Flood Lights are controlled by the included remote. Familiarize yourself with the remote's functions to select the desired operating mode.

6.1 Remote Control Functions

- **ON/OFF:** Turns the light on or off.
- **20s/30s/40s:** Sets the duration for high brightness in motion-sensing modes.
- **Dim Sensor Mode:** Activates a mode where the light stays dim and brightens to full intensity upon motion detection.
- **2H/4H/6H:** Sets a timed duration for continuous lighting in 'Dim Lighting Mode'.
- **Dim Lighting Mode:** Activates a mode where the light stays on continuously at a dim level.
- **Brightness Adjustment:** Buttons with sun icons (e.g., 60%, 80%, 100%) adjust the brightness level.

Image 6.1: The remote control allows adjustment of brightness levels (e.g., 60%, 80%, 100%) for the motion sensor mode.

6.2 Lighting Modes

The Intelamp solar lights offer several operating modes to suit your needs:

- **Mode 1: Dim to Strong Motion Sensor Mode**
  The light remains at a low brightness (e.g., 20%) constantly. When motion is detected, it brightens to full intensity (100%) for the set duration (20s/30s/40s), then returns to dim.

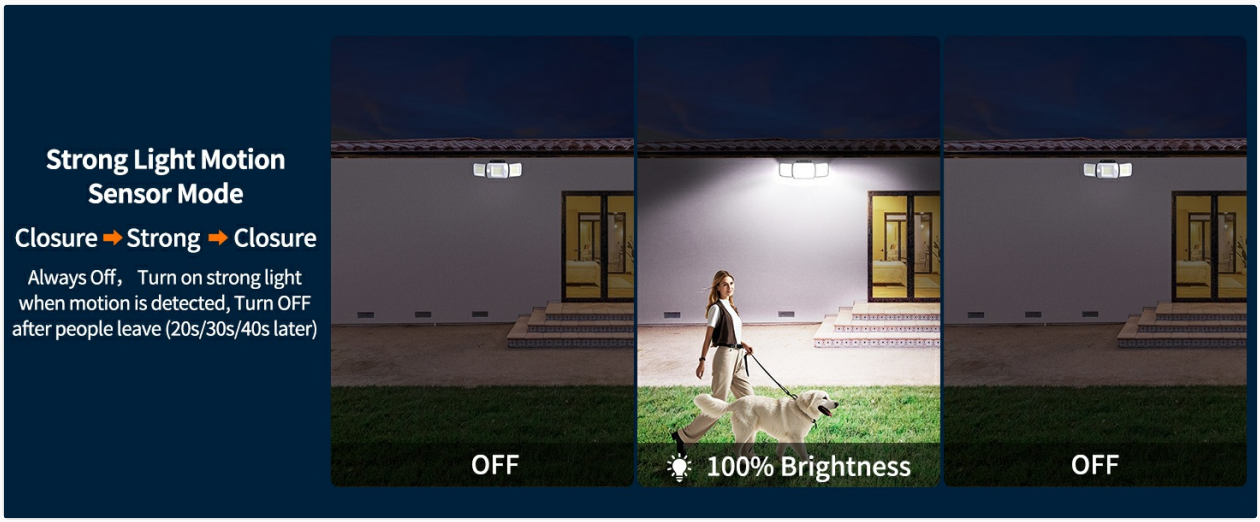

Image 6.2: In Dim to Strong Motion Sensor Mode, the light maintains 20% brightness, increases to 100% upon motion detection, and then returns to 20% after 20/30/40 seconds.

- **Mode 2: Off to Strong Motion Sensor Mode**
  The light remains off. When motion is detected, it turns on at full intensity (100%) for the set duration (20s/30s/40s), then turns off.

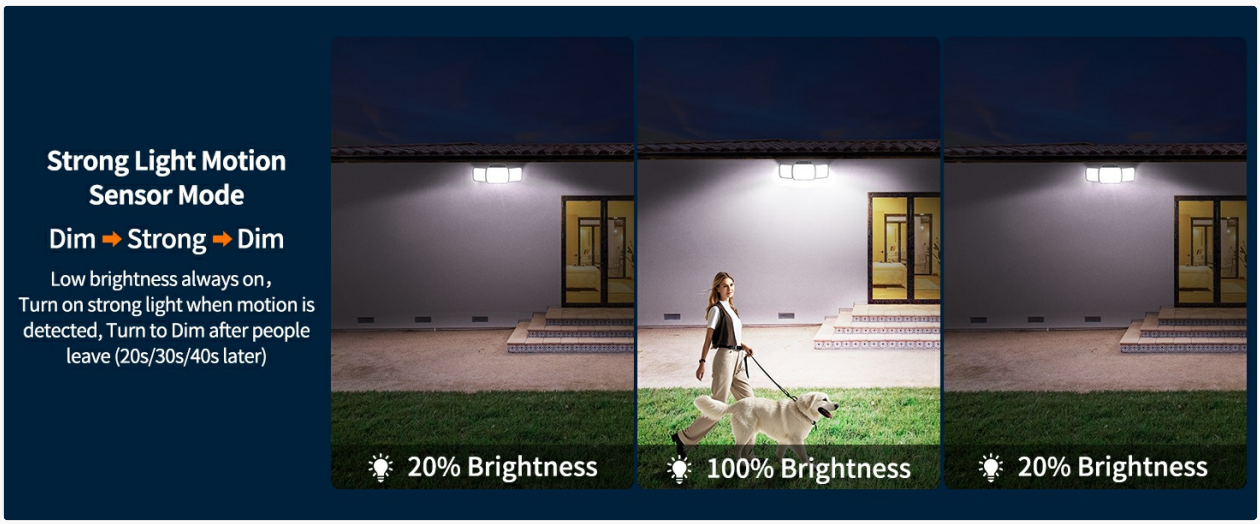

Image 6.3: In Off to Strong Motion Sensor Mode, the light remains off, activates to 100% brightness upon motion detection, and then turns off after 20/30/40 seconds.

- **Mode 3: Long Light Mode (Motion Sensor Disabled)**
  The light turns on at night and stays on continuously at a set brightness (e.g., 80% or 20%) for a timed duration (2H/4H/6H). After the timing ends, it can either dim or turn off until the next day.

Image 6.4: Long Light Mode (Motion Sensor Disabled) showing the light staying on at 80% brightness and then dimming to 20% after the set timing, remaining dim until dawn.

Image 6.5: Long Light Mode (Motion Sensor Disabled) showing the light staying on at 80% brightness and then turning completely off after the set timing, remaining off until the next dark period.

7. Maintenance

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

- **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 Connections:** Ensure all cable connections between the solar panel and the light unit are secure and free from damage.
- **Clear Obstructions:** Regularly check that no new obstructions (e.g., growing branches, new structures) are blocking sunlight from reaching the solar panel or interfering with the motion sensors.
- **Battery Care:** The integrated lithium-ion battery is designed for long life. Avoid prolonged storage of the light in a completely discharged state. If storing for an extended period, ensure the battery is fully charged first.

8. Troubleshooting

If you encounter issues with your Intelamp Solar Flood Lights, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient solar panel charging.	Ensure the solar panel is in direct sunlight for 6-8 hours daily. Clean the solar panel surface.
	Light is in 'OFF' mode.	Use the remote control to turn the light 'ON' or select a different operating mode.
	Battery is depleted or faulty.	Allow several days of full charging. If the problem persists, contact customer support.
Motion sensor is not detecting movement.	Sensor is obstructed or dirty.	Clear any obstructions from the sensor lenses. Wipe sensors clean.
	Incorrect mode selected.	Ensure a motion-sensing mode (Mode 1 or Mode 2) is selected via the remote.
Light duration is shorter than expected.	Insufficient charging.	Verify solar panel placement and cleanliness. Ensure it receives maximum direct sunlight.
	Frequent activation in motion-sensing modes.	Reduce the sensitivity or adjust the light's position to minimize unnecessary activations.

9. Customer Support

For further assistance, technical support, or inquiries regarding your Intelamp Solar Outdoor Flood Lights, please contact Intelamp customer service through the retailer's platform or the official Intelamp website.