

intelamp 16A

intelamp Solar Sensor Outdoor Waterproof Light Model 16A User Manual

Model: 16A

1. INTRODUCTION

Thank you for choosing the intelamp Solar Sensor Outdoor Waterproof Light, Model 16A. This product is designed to provide efficient and reliable outdoor illumination using solar power, featuring advanced motion sensing and remote control capabilities. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of your device.

2. SAFETY INFORMATION

- Ensure the product is installed in a location that receives direct sunlight for optimal charging.
- Do not disassemble, repair, or modify the product. This may cause damage and void the warranty.
- Keep the solar panel clean from dust, snow, or debris to maintain charging efficiency.
- Avoid installing near heat sources or flammable materials.
- Ensure the mounting surface is sturdy enough to support the weight of the light.

3. PACKAGE CONTENTS

Please check the package for the following items:

- intelamp Solar Sensor Light (Model 16A)
- Remote Control
- Mounting Accessories (screws, anchors)
- User Manual

4. PRODUCT FEATURES

- **Dual-Sided Illumination:** Provides a wide lighting angle of up to 240 degrees.
- **Advanced Motion Sensors:** Equipped with two sensor heads, offering a detection range of up to 180 degrees and an operating range of 8 meters in two directions.
- **High Capacity Battery:** Features a 12500mAh LiFePO4 battery for extended operation.

- **Efficient Solar Charging:** Utilizes a monocrystalline silicon solar panel (23x34cm) with a photoelectric conversion efficiency of 30%.
- **High Brightness:** Delivers up to 2000 lumens, comparable to a 200W incandescent bulb.
- **Smart Discharge Design:** Extends battery life by 30%. Approximately 6 hours of charging provides all-night illumination.
- **Intelligent Sensor Linkage:** If one intelamp solar light detects motion, other intelamp solar lights within 30 meters will also illuminate simultaneously (requires at least two intelamp lights).
- **Remote Control Operation:** Adjust brightness (60%, 80%, 100%) and switch between sensor and constant lighting modes.
- **Durable and Weatherproof:** Constructed from high-quality ABS and alloy materials, with an IP65 waterproof rating, designed to withstand harsh weather conditions like wind, frost, rain, and snow.
- **Sunshade Design:** Protects the main unit from direct sunlight, effectively reducing degradation of the battery, circuit, and LEDs due to high temperatures, thereby extending product lifespan.

5. SETUP AND INSTALLATION

The intelamp Solar Sensor Light is designed for easy installation without the need for electrical wiring. Follow these steps:

1. **Choose a Location:** Select an outdoor location that receives direct sunlight for at least 6-8 hours daily to ensure optimal charging. Avoid shaded areas.
2. **Mark Drilling Points:** Use the mounting bracket as a template to mark the drilling points on the wall or pole.
3. **Drill Holes:** Drill holes at the marked points and insert the expansion anchors.
4. **Mount the Bracket:** Secure the mounting bracket to the wall using the provided screws.
5. **Attach the Light:** Slide the solar light onto the mounted bracket.
6. **Adjust Solar Panel and Light Head:** The solar panel and light head are adjustable. Angle the solar panel towards the sun for maximum exposure and adjust the light head to cover the desired illumination area.



Image: The intelamp solar light features an adjustable solar panel and light head for optimal sun exposure and illumination angle, unlike fixed designs.



Image: The solar panel can be adjusted to multiple positions (1, 2, 3) to capture maximum sunlight.



Image: The light head can be tilted to adjust the illumination angle, providing flexible lighting coverage.

6. OPERATING INSTRUCTIONS

Use the provided remote control to select different lighting modes and adjust settings.

6.1. Lighting Modes

- **Sensor Mode (High Brightness):** When motion is detected, the light illuminates at full brightness. After the person leaves, the light will dim to a low brightness mode after 30, 45, or 60 seconds (selectable via remote).
- **Sensor Mode (Low Sensitivity):** When motion is detected, the light illuminates at full brightness. After the person leaves, the light will turn off completely after 30, 45, or 60 seconds (selectable via remote).
- **Constant Lighting Mode:** The light automatically turns on at dusk and stays on for a scheduled duration (2-12 hours, selectable via remote). After the set time, it will either dim or turn off automatically.

Note: In winter or during rainy days, to ensure longer lighting duration, it is recommended to select a mode where the light dims or turns off after 30 seconds of no motion. In sunny seasons, you can choose 100% or 80% brightness. In winter, 60% brightness is recommended to extend lighting time.

6.2. Brightness Adjustment

The brightness can be adjusted to 60%, 80%, or 100% using the remote control in any mode.



Image: Illustration of the different operating modes: High Brightness Sensor Mode, Low Sensitivity Sensor Mode, and Long Lighting Mode, all controllable via remote.



Image: Demonstrates the motion sensor in action, with brightness levels adjustable to 60%, 80%, or 100% via remote control.

7. MAINTENANCE

- Regularly clean the solar panel surface with a soft, damp cloth to ensure maximum sunlight absorption.

- Check mounting screws periodically to ensure the light remains securely attached.
- In areas with heavy snow, clear snow from the solar panel to allow for charging.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient solar charge.	Ensure the solar panel is in direct sunlight for 6-8 hours. Clean the solar panel.
Light flickers or has low brightness.	Low battery charge or dirty solar panel.	Allow for a full day of charging. Clean the solar panel.
Motion sensor not detecting.	Sensor obstructed or incorrect mode.	Ensure the sensor is clear of obstructions. Check remote settings to confirm sensor mode is active.
Remote control not working.	Remote battery depleted or out of range.	Replace remote battery. Ensure remote is pointed at the light and within effective range.

If problems persist, please contact intelamp customer support for assistance.

9. SPECIFICATIONS

Feature	Specification
Brand	intelamp
Model Number	16A
Battery Capacity	12500mAh LiFePO4
Lumen Output (Max)	2000 lm (equivalent to 200W incandescent)
Color Temperature	6500 Kelvin (Daylight White)
Lighting Angle	Up to 240 degrees
Motion Sensor Detection Angle	180 degrees
Motion Sensor Detection Range	Up to 8 meters
Waterproof Rating	IP65
Material	ABS, Stainless Steel
Power Source	Solar Powered
Special Features	Timer, Motion Sensor, Remote Control
Mounting Type	Wall Mount

10. WARRANTY AND SUPPORT

intelamp provides reliable after-sales service. Upon receiving your product, please test its functionality. If you encounter any issues, please contact our customer support team immediately. We are committed to ensuring your satisfaction. For support, please refer to the contact information provided with your purchase or visit the official intelamp website.

11. PRODUCT OVERVIEW VIDEO

Watch this video for a visual guide on the intelamp Solar Sensor Outdoor Waterproof Light's features and operation.

Your browser does not support the video tag.

Video: An overview of the intelamp Solar Sensor Outdoor Waterproof Light, demonstrating its design, features, and how it functions in an outdoor setting.

© 2026 intelamp. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

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

Submit question