

TOBUSA YC-SW2881-2

TOBUSA Solar Outdoor Motion Sensor Flood Lights (Model YC-SW2881-2) Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your TOBUSA Solar Outdoor Motion Sensor Flood Lights, Model YC-SW2881-2. Please read this manual thoroughly before use to ensure proper function and longevity of the product.

2. SAFETY INFORMATION

- Ensure the solar panel is installed in a location that receives direct sunlight for optimal charging.
- Do not attempt to disassemble or modify the product. This may void the warranty and pose safety risks.
- Keep the product away from open flames or extreme heat sources.
- Handle the product with care during installation to prevent damage.
- Dispose of batteries and electronic components according to local regulations.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Solar Lights (2 units)
- Solar Panels (2 units)
- Remote Controls (2 units)
- Instruction Manual (this document)
- Mounting Screws and Anchors

4. PRODUCT FEATURES

- **Solar-Powered & Dusk to Dawn Motion Sensor:** Equipped with a polycrystalline silicon solar panel (5.5in x 3.3in) with up to 22% energy conversion rate. Charges in 4-6 hours, providing 8-10 hours of illumination

from an 1800mAh battery. Features an automatic dusk-to-dawn sensor and a motion sensor with a 3-7 meter sensing distance.

- **Super Bright LED Beads & Wide Lighting Area:** Each light unit contains 292 high-brightness LED beads, delivering 4000 lumens of 6500K cool white light. The 120-degree sensor angle provides approximately 30 square meters of lighting coverage.
- **3 Lighting Modes & Remote Control:** Offers three distinct lighting modes selectable via button or remote control.
- **Separated Solar Panel & Flexible Use:** The solar panel can be installed independently from the light unit, connected by a 16.4ft (5m) cable, allowing for optimal sun exposure.
- **IP65 Waterproof:** Constructed from high-quality ABS and PC materials, ensuring durability and resistance to various weather conditions including rain, snow, and heat.

5. COMPONENTS OVERVIEW

The TOBUSA Solar Outdoor Motion Sensor Flood Light system consists of the following main components:

- **Light Unit:** Contains 292 LED beads, motion sensor, and internal battery. Dimensions: 7.8"L x 3.8"W x 1.6"H.
- **Solar Panel:** Polycrystalline silicon panel for charging the light unit. Connected via a 16.4ft cable. Dimensions: 5.5"L x 3.3"W.
- **Remote Control:** Used to select lighting modes and power the light on/off.
- **Mounting Hardware:** Screws and anchors for secure installation.



Image: Overview of the TOBUSA Solar Outdoor Motion Sensor Flood Lights, showing two light units, two solar panels with 5-meter cables, and two remote controls.



Image: Illustration of the separate design, highlighting the 16.4ft cable for flexible placement of the solar panel and light. It also shows the 180-degree rotatable heads for both the light and solar panel, along with options for button and remote control.

6. INSTALLATION

Follow these steps for proper installation:

1. **Activate the Light:** Before installation, locate the power button on the back of the light unit and press it to turn on the light.
2. **Install Mounting Plates:** Choose suitable locations for both the solar panel and the light unit. Use the provided screws and anchors to securely install the mounting plates.
3. **Install Brackets:** Attach the brackets to the light unit and solar panel using the included screws.
4. **Mount Solar Panel:** Insert the solar panel onto its installed mounting plate. Adjust its angle to face direct sunlight.
5. **Mount Solar Light:** Insert the solar light unit onto its installed mounting plate. Adjust its angle to cover the desired lighting area.
6. **Connect Cable:** Connect the 16.4ft (5m) cable from the solar panel to the light unit. Ensure a secure connection.
7. **Select Mode:** Once installed, use the remote control or the button on the light to select your preferred

operating mode.

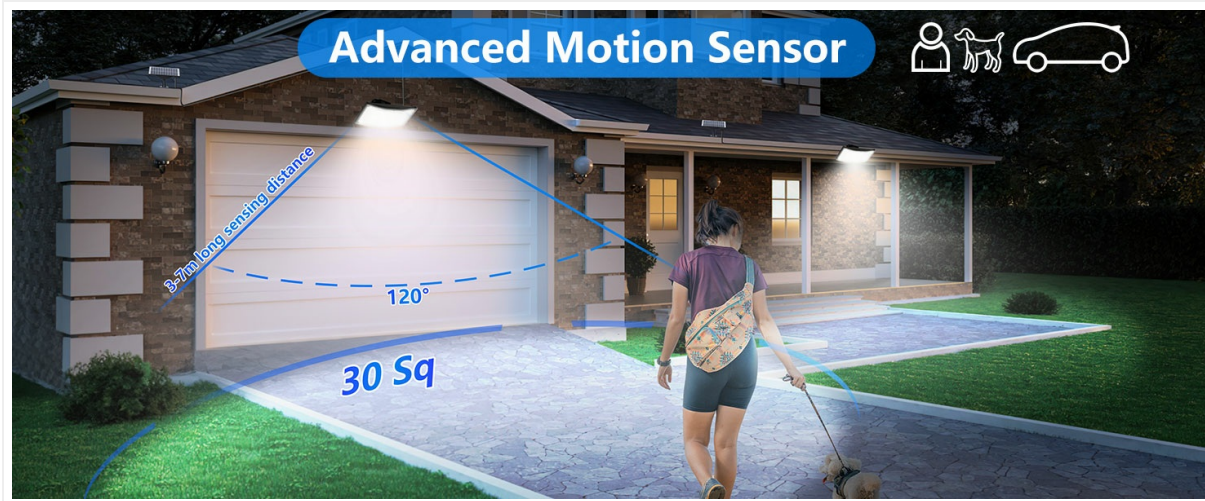


Image: Visual guide demonstrating the six steps for installing the solar light system, from pressing the power button to connecting the cable and completing the setup.

7. OPERATION

The TOBUSA Solar Outdoor Motion Sensor Flood Lights offer three distinct operating modes, controllable via the included remote or the button on the light unit.

7.1. Lighting Modes

- **Mode 1 (Strong Light Mode):** The light remains OFF until motion is detected. Upon detection, it illuminates at 100% brightness for 20 seconds, then turns OFF if no further motion is detected.
- **Mode 2 (Dim Light Mode):** The light stays ON at 10% brightness. When motion is detected, it brightens to 100% for 20 seconds, then returns to 10% brightness if no further motion is detected.
- **Mode 3 (Stay On Mode):** The light remains ON continuously at 30% brightness throughout the night, without motion sensor activation.



Image: Diagram illustrating the behavior of the light in each of the three available operating modes, showing brightness levels and motion sensor interaction.

7.2. Remote Control

The included remote control allows you to easily switch between modes and power the light. Ensure the light unit's main power button is pressed before using the remote.



Image: Close-up view of the physical button located on the back of the solar light unit, which must be pressed to activate the light before remote control functionality is available.

8. CHARGING

The solar panel charges the internal battery during daylight hours. For optimal performance, ensure the solar panel is placed in a location that receives maximum direct sunlight.

- **Charging Time:** Approximately 4-6 hours of direct sunlight for a full charge.
- **Operating Time:** A full charge can provide 8-10 hours of illumination, depending on the selected mode and motion detection frequency.
- **Charge Indicator:** A red light indicates charging, and a green light indicates a full charge.



Image: Visual explanation of the solar charging process, showing the solar panel absorbing sunlight during the day and the light unit automatically activating at night, powered by its rechargeable battery.

9. MAINTENANCE

- **Cleaning:** Regularly wipe the solar panel with a soft, damp cloth to remove dust, dirt, or debris that may obstruct sunlight and reduce charging efficiency.
- **Inspection:** Periodically check the cable connections and mounting hardware to ensure they remain secure.
- **Battery:** The internal battery is designed for long-term use. Do not attempt to replace it yourself.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient solar charge; Light not activated; Sensor obstructed.	Ensure solar panel receives direct sunlight for 4-6 hours. Press the power button on the light unit. Clear any obstructions from the light sensor.

Problem	Possible Cause	Solution
Light stays dim or turns off quickly.	Low battery charge; Incorrect mode selected.	Allow more time for solar charging. Select a different mode using the remote or button.
Motion sensor not working.	Light in Mode 3; Sensor obstructed; Sensing distance too far.	Switch to Mode 1 or Mode 2. Clear obstructions from the sensor. Ensure motion occurs within 3-7 meters.
Remote control not responding.	Light not activated; Remote battery low.	Press the power button on the light unit first. Replace remote control batteries if necessary.

11. SPECIFICATIONS

Feature	Specification
Brand	TOBUSA
Model Name	YC-SW2881-2
Light Source Type	LED (292 beads)
Brightness	4000 Lumens
Color Temperature	6500 Kelvin (Cool White)
Power Source	Solar Powered
Battery Capacity	1800mAh (included)
Solar Panel Efficiency	Up to 22% conversion rate
Motion Sensor Range	3-7 meters
Motion Sensor Angle	120 degrees
Lighting Area	Approx. 30 sq meters
Cable Length (Solar Panel to Light)	16.4 ft (5 meters)
Water Resistance Level	IP65 Waterproof
Material	ABS and PC
Product Dimensions (Light Unit)	7.8"L x 3.8"W x 1.6"H
Item Weight	2.59 pounds (per unit)
Included Components	Solar Lights, Instruction Manual, Solar Panel, Remote

12. WARRANTY AND SUPPORT

This product comes with a Limited Warranty. For specific warranty details or technical support, please refer to the TOBUSA brand store or contact customer service.

Visit the official TOBUSA store for more information: [TOBUSA Store](#)