

JWT TL-166-2

JWT Solar Street Lights Outdoor Waterproof 100000LM (Model TL-166-2)

Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your JWT Solar Street Lights. Please read these instructions thoroughly before use and retain them for future reference.

2. SAFETY INFORMATION

- Ensure all components are securely fastened during installation to prevent falling.
- Do not attempt to disassemble or modify the product. This may void the warranty and pose safety risks.
- Keep the solar panel clean to ensure optimal charging efficiency.
- Avoid direct eye exposure to the LED light source when illuminated.
- The product is designed for outdoor use and is waterproof (IP65 rated). However, avoid submerging it in water.
- Operate within the specified temperature range of -5°C to 70°C.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 2 x Solar Street Light units
- 2 x Remote Control units
- 1 x User Manual (this document)
- 2 x Mounting Hardware Sets (for pole and wall installation)



Figure 3.1: Included components for the JWT Solar Street Lights.

4. PRODUCT FEATURES

- **Ultra-Bright Illumination:** Equipped with 480 high-intensity 5730 LED beads, delivering up to 100,000 lumens of 6500K daylight white light.
- **Wide Coverage:** Effectively illuminates areas up to 500-650 sq ft.
- **High-Efficiency Solar Charging:** Features a monocrystalline solar panel with 30% conversion efficiency and a 10,000mAh battery. Fully charges in 6-8 hours of direct sunlight.
- **Long Operation Time:** Provides 8-20+ hours of continuous illumination on a full charge.
- **All-Weather Durability:** Constructed with a waterproof ABS housing and die-cast aluminum bracket, designed to withstand rain, snow, and temperatures from -5°C to 70°C .
- **Smart Control:** Includes a remote control for selecting various operating modes.
- **Flexible Installation:** Supports both pole and wall mounting.

NEW Upgraded High Brightness Bead Design

Simulates natural morning light more comfortable and natural lighting experience



Figure 4.1: High brightness LED bead design.



Figure 4.2: Solar panel efficiency and LED bead count.

Large Solar Street Lights Outdoor

Withstand All
Weather Condition

360°



Waterproof



Heat-Resistance



Frozen-Proof

Install Height
12FT

Lighting Range Up to
500-650 sq.ft

Figure 4.3: All-weather durability of the solar street light.

5. SETUP & INSTALLATION

5.1 Pre-Installation

- Before initial use, ensure the solar light is charged under direct sunlight for at least 6-8 hours. This activates the battery and ensures optimal performance.
- Choose an installation location that receives maximum direct sunlight throughout the day for efficient charging. Avoid areas shaded by trees, buildings, or other obstructions.

5.2 Mounting Options

The JWT Solar Street Light can be installed on a pole or mounted directly to a wall. Both mounting hardware sets are included.

Product Detail

Remote Mounting Set

15.75inch

8inch

Remote *2

Mounting Set *2

The main image shows a large, rectangular solar street light with a grid of LED chips. It is mounted on a wall. Two callouts show a black remote control and a mounting set consisting of a bracket, four screws, and four spacers.

Large Bright Ultra Solar Street Lights

Wall Mounted

Pole Mounted

The left image shows the light mounted on a wall, and the right image shows it mounted on a pole. Both images show the light from a low angle, highlighting its size and the grid of LEDs.

Figure 5.1: Product dimensions and included mounting hardware.



Ultra-Bright & Suitable for Multiple Place



Figure 5.2: Examples of installation locations.

5.2.1 Pole Mounting

1. Attach the pole mounting bracket to the back of the solar light using the provided screws.
2. Secure the light assembly to a suitable pole (not included) using the U-shaped bolts and nuts from the mounting hardware set. Ensure the solar panel faces upwards towards the sun.
3. Adjust the angle of the light to achieve desired illumination coverage.

5.2.2 Wall Mounting

1. Mark the desired drilling points on the wall using the wall mounting bracket as a template.
2. Drill holes and insert wall anchors if necessary.
3. Attach the wall mounting bracket to the wall using the provided screws.
4. Secure the solar light unit to the wall mounting bracket. Ensure the solar panel is positioned to receive maximum sunlight.
5. Adjust the light angle for optimal coverage.

6. OPERATING INSTRUCTIONS

The solar street light operates automatically from dusk to dawn and can be controlled using the included remote.

6.1 Initial Activation

After installation and initial charging, the light will automatically turn on at dusk and turn off at dawn. Use the remote control to select specific modes.



Figure 6.1: Automatic Dusk-to-Dawn operation.

6.2 Remote Control Functions

The remote control allows you to customize the light's operation:

- **Dusk-to-Dawn Mode:** The light automatically turns on at dusk and off at dawn. Brightness can be adjusted from 25% to 100%.
- **Smart Motion Sensing Mode 1:** The light stays at 30% brightness and boosts to 100% when motion is detected.
- **Smart Motion Sensing Mode 2:** The light remains off and instantly illuminates to 100% brightness when motion is detected.
- **Timer Function:** Set the light to operate for 3, 4, or 5 hours after activation.
- **Brightness Adjustment:** Manually adjust brightness levels (25%, 50%, 75%, 100%).

Motion Sensor & Intelligent Energy

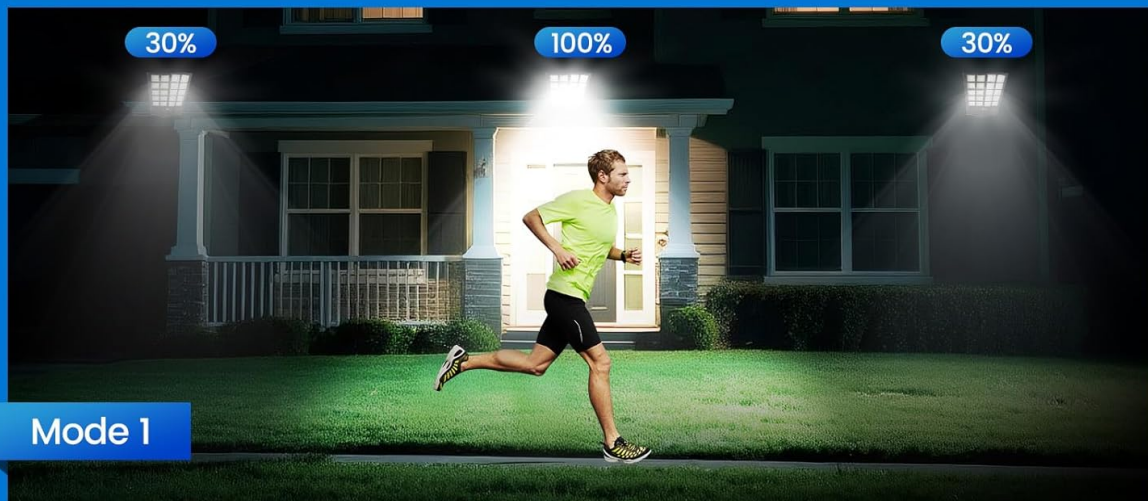
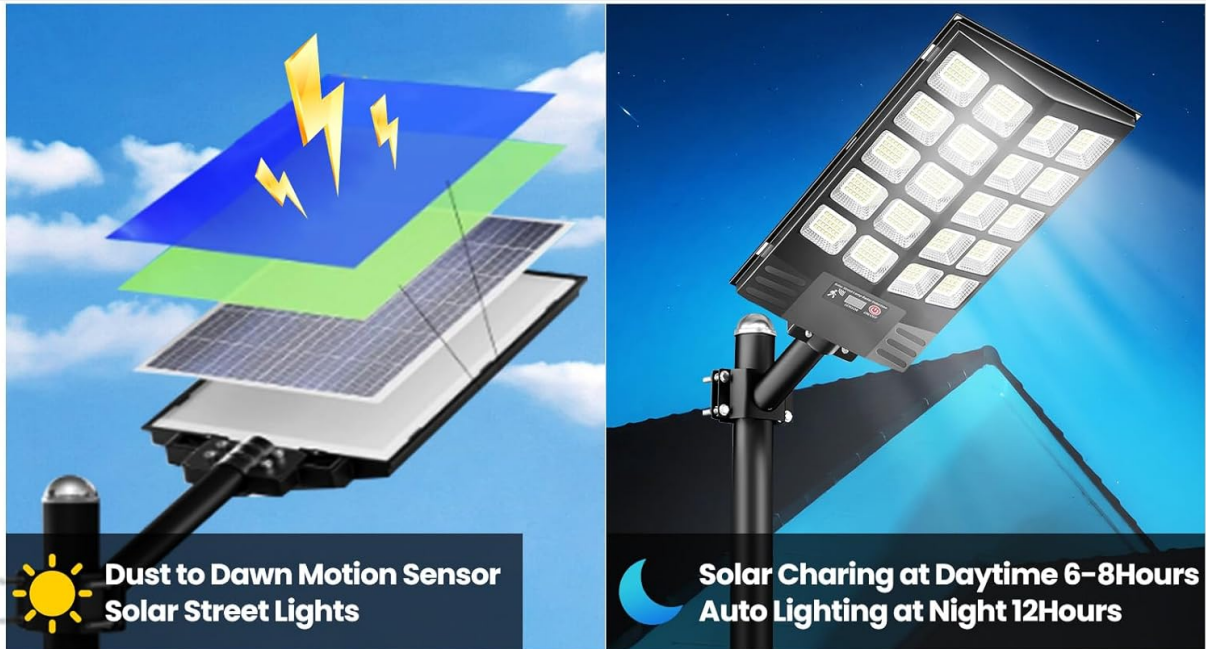


Figure 6.2: Motion sensor operating modes.



Adjustable brightness



Figure 6.3: Adjustable brightness levels.



Figure 6.4: Timer and brightness control options.

7. MAINTENANCE

- **Cleaning:** Regularly wipe the solar panel with a soft, damp cloth to remove dust, dirt, and debris. A clean panel ensures maximum sunlight absorption and charging efficiency.
- **Inspection:** Periodically check all mounting hardware to ensure it remains tight and secure.
- **Battery:** The integrated battery is designed for long-term use. Do not attempt to replace the battery yourself. Contact support if you suspect a battery issue.

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. Relocate the light to a sunnier spot.
Light duration is shorter than expected.	Partial charge, cloudy weather, or excessive motion detection.	Allow more charging time. Reduce brightness setting if possible. Ensure no obstructions are blocking the solar panel.
Motion sensor is not working.	Sensor obstructed or incorrect mode selected.	Ensure the sensor lens is clean and unobstructed. Verify the correct motion sensing mode is selected via the remote control.
Remote control is not responding.	Remote battery depleted or signal obstruction.	Replace the remote control battery. Ensure there is a clear line of sight between the remote and the light's receiver.

9. SPECIFICATIONS

Feature	Detail
Model Number	TL-166-2
Light Output	Up to 100,000 Lumens
Color Temperature	6500 Kelvin (Daylight White)
LED Beads	480 x 5730 type
Solar Panel Efficiency	30% conversion rate (Monocrystalline)
Battery Capacity	10,000mAh
Charging Time	6-8 hours (direct sunlight)
Illumination Time	8-20+ hours (on full charge)
Material	Acrylonitrile Butadiene Styrene (ABS), Die-cast Aluminum
Waterproof Rating	IP65
Operating Temperature	-5°C to 70°C
Dimensions (L x W x H)	8"L x 1"W x 15.75"H
Mounting Type	Wall Mount, Pole Mount

10. WARRANTY & SUPPORT

10.1 Manufacturer's Warranty

This JWT Solar Street Light product is covered by a **2-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover:

- Damage caused by improper installation or misuse.
- Damage caused by unauthorized repairs or modifications.
- Damage caused by natural disasters or accidents.

10.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your JWT Solar Street Lights, please contact the retailer where the product was purchased or refer to the contact information provided on the product packaging or the official JWT website.