

KingHe KINGHE-BBG61

KingHe Solar Street Light KINGHE-BBG61 User Manual

Model: KINGHE-BBG61

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your KingHe Solar Street Light, model KINGHE-BBG61. This outdoor lighting solution features a high-efficiency solar panel, motion sensor, and remote control for convenient and energy-efficient illumination.

2. SAFETY INFORMATION

- Ensure all mounting hardware is securely fastened to prevent the light from falling.
- Do not attempt to disassemble or modify the product, as this may void the warranty and pose safety risks.
- Keep the solar panel clean and free from obstructions to ensure optimal charging efficiency.
- Avoid direct eye exposure to the LED light source when illuminated.
- Handle the lithium-ion battery with care. Do not expose it to extreme temperatures or puncture it.

3. PACKAGE CONTENTS

Verify that all components are present in your package:

- KingHe Solar Street Light Unit
- Mounting Hardware (screws, anchors, bracket)
- Remote Control
- Batteries for Remote Control (if included)



Figure 3.1: Exploded view showing the main light unit with its dimensions, the separate solar panel, a remote control with batteries, a mounting bracket, and installation hardware.

4. PRODUCT FEATURES

- **Ultra Brightness:** Equipped with 160 high-efficiency 5730 SMD LED lamp beads, providing 10000 lumens of 6500K cool white light, illuminating up to 1076 sq. ft.
- **180° Wide Angle Lighting:** Designed with three-sided multi-array LEDs for a broader and brighter illumination range compared to traditional street lights.
- **High-Efficiency Solar Panels:** Utilizes polycrystalline silicon photovoltaic panels for superior photoelectric conversion. Features a built-in 12000mAh lithium battery, fully charging in 5-6 hours and providing 12-24 hours of operation in bright mode.
- **Dusk to Dawn & Motion Sensor:** Automatic light control turns the light on at dusk and off at dawn for charging. The motion sensor activates 100% brightness for 1 second upon detection, reverting to 50% energy-saving mode when no motion is detected.
- **IP65 Waterproof Rating:** Constructed with IP65-rated materials for resistance against water and lightning, ensuring durability in various outdoor weather conditions. Operating temperature range: -2°F to 140°F.

- **Easy Installation:** Designed for straightforward mounting on a wall or pole (suggested height 13-20 ft), reducing installation and maintenance costs.



Figure 4.1: Side-by-side comparison highlighting the expanded 240-degree lighting coverage of the KingHe light compared to a standard 90-degree light, indicating a wider illumination area.

Radar Sensing Distance 32-39ft



Figure 4.2: Two panels illustrating the light's intelligent sensor chip: the top panel shows the solar panel charging under sunlight, and the bottom panel shows the LEDs illuminating at night.

5. SETUP AND INSTALLATION

Before installation, ensure the solar street light switch is turned ON. The light can be mounted on a wall or a pole.

5.1 Recommended Installation Height

For optimal performance and lighting coverage, install the solar street light at a height between 13 to 20 feet (approximately 4 to 6 meters).

5.2 Mounting Instructions

1. **Choose Location:** Select a location that receives direct sunlight for at least 5-6 hours daily to ensure proper charging of the solar panel. Avoid areas shaded by trees, buildings, or other obstructions.
2. **Prepare Mounting Surface:** For pole mounting, ensure the pole is sturdy and capable of supporting the light's weight. For wall mounting, identify a suitable wall section.

3. **Attach Bracket:** Use the provided mounting hardware (screws and anchors) to securely attach the mounting bracket to the chosen surface (wall or pole).
4. **Mount Light Unit:** Carefully attach the solar street light unit to the installed mounting bracket. Ensure it is firmly secured and angled appropriately for desired light distribution.
5. **Verify Switch:** Double-check that the main power switch on the light unit is in the 'ON' position.



Figure 5.1: A visual guide demonstrating two installation methods: mounting the solar light directly onto a wall and mounting it onto a pole using the provided bracket and hardware.



Figure 5.2: A solar street light mounted on a pole, casting a wide, bright light across a residential yard, demonstrating its 240-degree coverage.

6. OPERATING INSTRUCTIONS

The KingHe Solar Street Light operates automatically based on light conditions and motion detection. It also includes a remote control for manual adjustments.

6.1 Automatic Operation (Dusk to Dawn)

The light features an integrated light sensor. It will automatically turn on at dusk and turn off at dawn to begin charging. No manual intervention is required for this basic function.

6.2 Motion Sensor Mode

When the light is operating in its standard mode (after dusk), the motion sensor will detect movement within its range (approximately 32-39 ft). Upon detecting motion, the light will increase to 100% brightness for a short period. If no motion is detected, it will revert to a 50% energy-saving brightness level.



Figure 6.1: An image depicting the motion sensor feature, where the light increases from 30% brightness to 100% brightness upon detecting movement within a 32-39 ft range.

6.3 Remote Control Functions

The included remote control allows for additional control over the light's operation. Refer to the remote control's specific buttons for functions such as:

- Power ON/OFF
- Adjusting Brightness Levels
- Setting Timer Modes (if available on remote)
- Activating/Deactivating Motion Sensor (if available on remote)

7. MAINTENANCE

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

- **Solar Panel Cleaning:** Periodically clean the surface of 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.

- **Inspect Mounting:** Annually check the mounting hardware to ensure it remains secure and free from corrosion. Tighten any loose screws.
- **Clear Obstructions:** Ensure no new obstructions (e.g., growing tree branches) are blocking sunlight from reaching the solar panel.

8. TROUBLESHOOTING

If you encounter issues with your KingHe Solar Street Light, refer to the following common solutions:

Problem	Possible Cause	Solution
Light does not turn on at night.	<ol style="list-style-type: none">1. Main switch is OFF.2. Insufficient solar charging.3. Solar panel is dirty or obstructed.4. Battery low or faulty.	<ol style="list-style-type: none">1. Ensure the main switch is ON.2. Relocate the light to an area with more direct sunlight.3. Clean the solar panel surface. Remove any obstructions.4. Allow several days of full sunlight charging. If problem persists, contact support.
Light is dim or only stays on for a short period.	<ol style="list-style-type: none">1. Insufficient solar charging.2. Solar panel is dirty.3. Battery capacity reduced.	<ol style="list-style-type: none">1. Ensure the light receives 5-6 hours of direct sunlight daily.2. Clean the solar panel.3. Allow several days of full sunlight charging. Battery performance may decrease over time.
Motion sensor not working or too sensitive.	<ol style="list-style-type: none">1. Sensor obstructed.2. Incorrect mode selected via remote.	<ol style="list-style-type: none">1. Ensure the sensor lens is clean and clear of obstructions.2. Use the remote control to adjust sensor settings or reset to default mode.
Remote control not responding.	<ol style="list-style-type: none">1. Remote batteries are dead.2. Remote not pointed at sensor.	<ol style="list-style-type: none">1. Replace batteries in the remote control.2. Ensure the remote is pointed directly at the light's sensor.

9. SPECIFICATIONS

Feature	Specification
Brand	KingHe
Model Number	KINGHE-BBG61
Light Source Type	LED (160 pcs 5730 SMD lamp beads)
Brightness	10000 Lumens

Feature	Specification
Color Temperature	6500K (Cool White)
Lighting Area	Approx. 1076 sq. ft (100 m ²)
Power Source	Solar Powered
Battery	12000mAh Lithium Ion (included)
Charging Time	5-6 hours (full direct sunlight)
Working Time	12-24 hours (bright mode, after full charge)
Motion Sensor Range	32-39 ft (approx. 10-12 meters)
Control Method	Remote Control, Motion Sensor, Dusk to Dawn
Water Resistance Level	IP65 Waterproof
Material	Acrylonitrile Butadiene Styrene (ABS)
Product Dimensions	7.7"L x 13.4"W x 3.2"H (19.5cm x 34cm x 8cm)
Item Weight	3 Pounds (1.36 kg)
Installation Type	Wall Mount, Pole Mount
Operating Temperature	-2°F to 140°F (-19°C to 60°C)

10. WARRANTY AND SUPPORT

The KingHe Solar Street Light comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and material faults under normal use.

For any questions, technical assistance, or warranty claims, please contact KingHe customer service. You can typically find contact information on the product packaging or through the retailer where the product was purchased.

Manufacturer: KINGHE

Seller: Kinghe Lighting