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› KingHe 2400W Solar Street Light Outdoor Instruction Manual

KingHe KINGHE-BBG6-1

KingHe 2400W Solar Street Light Outdoor Instruction Manual

Model: KINGHE-BBG6-1

1. PRODUCT OVERVIEW

The KingHe 2400W Solar Street Light is an advanced outdoor lighting solution designed for efficiency and convenience. It features high-brightness LED beads, a wide-angle illumination design, and a high-efficiency solar panel for reliable performance. This light is ideal for illuminating patios, paths, parking lots, and other outdoor areas, providing security and visibility without requiring external power.



Image 1.1: KingHe Solar Street Light providing bright illumination for a garden path.

2. KEY FEATURES

- **Ultra Bright Illumination:** Equipped with 160 high-efficiency 5730 SMD lamp beads, providing 10000 lumens of 6000K cool white light, covering an area of up to 1076 square feet.
- **180° Wide-Angle Design:** Enhanced three-sided wide-angle lighting for broader and brighter coverage compared to standard street lights.
- **High-Efficiency Solar Panel:** Utilizes polycrystalline silicon photovoltaic panels for superior photoelectric conversion.
- **Long-Lasting Battery:** Built-in 12000 mAh lithium battery, fully charged in 5-6 hours, providing 12-24 hours of illumination in bright mode.
- **Dusk to Dawn Operation:** Automatically turns on at dusk and off at dawn, initiating charging during daylight hours.
- **Motion Sensor Mode:** Switches to 100% brightness for 1 second upon detecting motion, then returns to 50% energy-saving mode when no motion is detected.
- **Remote Control:** Conveniently adjust settings and modes with the included remote control.
- **Durable and Waterproof:** Designed for outdoor use with waterproof construction.

Luz Sin Electricidad

Ilumina Tu Vida



Image 2.1: Illustration of the wide-angle illumination provided by the KingHe Solar Street Light.



Image 2.2: The solar light's wide-angle design for enhanced coverage.

3. PACKAGE CONTENTS

Please check the package contents upon receipt to ensure all items are present and undamaged.

- KingHe Solar Street Light (1 unit)
- Remote Control (1 unit)
- Light Arm / Mounting Bracket (1 set)
- Expansion Screws and other mounting hardware
- User Manual (this document)



Image 3.1: All components included in the KingHe Solar Street Light package.

4. INSTALLATION INSTRUCTIONS

The KingHe Solar Street Light can be mounted on a pole or a wall. Choose a location that receives direct sunlight for at least 6-8 hours daily to ensure optimal charging.

4.1. Choosing a Location

- Ensure the solar panel is not obstructed by trees, buildings, or other structures that could block sunlight.
- The light should be positioned to illuminate the desired area effectively.

4.2. Mounting Steps (Pole or Wall)

1. **Assemble the Light Arm:** Attach the light arm to the main light unit using the provided screws. Ensure it is securely fastened.
2. **Mark Drilling Points:** Hold the mounting bracket against the desired pole or wall surface. Use a marker to indicate the positions for drilling holes.
3. **Drill Holes:** Use an appropriate drill bit to create holes at the marked positions.
4. **Insert Expansion Screws:** Insert the expansion screws into the drilled holes.
5. **Mount the Bracket:** Secure the mounting bracket to the pole or wall using the expansion screws. Tighten all screws firmly.
6. **Attach the Light:** Slide the assembled solar light unit onto the mounted arm/bracket. Secure it with the remaining screws or locking mechanism.
7. **Adjust Angle:** Adjust the angle of the solar panel to face direct sunlight for maximum charging efficiency.



Image 4.1: Example of wall mount installation for the solar street light.

Your browser does not support the video tag.

Video 4.1: Official KingHe video demonstrating the installation process and product features.

5. OPERATING INSTRUCTIONS

The KingHe Solar Street Light operates automatically but can be controlled manually using the remote.

5.1. Automatic Operation (Dusk to Dawn)

The light is designed to automatically detect ambient light. It will turn on at dusk and turn off at dawn, beginning its charging cycle during daylight hours. Ensure the solar panel is clean and exposed to direct sunlight for optimal performance.



[Nuevo diseño]
240° Diseño de gran angular

Todo el patio sin rincones oscuros

Image 5.1: The solar light automatically charges during the day and illuminates throughout the night.

5.2. Motion Sensor Mode

In motion sensor mode, the light maintains a 50% brightness level. When motion is detected within its range (approximately 32-39 feet), the light will instantly switch to 100% brightness for a short period (typically 1 second) before returning to 50% brightness if no further motion is detected.



Image 5.2: The motion sensor activates full brightness from a lower standby level.

5.3. Remote Control Functions

The included remote control allows for manual override and selection of various modes.

- **ON/OFF:** Manually turn the light on or off.
- **Brightness Adjustment:** Adjust the light intensity (e.g., 25%, 50%, 75%, 100%).
- **Motion Sensor Mode:** Activate or deactivate the motion sensor function.
- **Timer Settings:** Set the light to stay on for a specific duration (e.g., 3 hours, 5 hours, 8 hours).
- **Dusk to Dawn Mode:** Re-enable automatic dusk to dawn operation.



Image 5.3: The remote control provides various options for managing the solar light's operation.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your KingHe Solar Street Light.

- **Clean 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.
- **Inspect for Obstructions:** Ensure no new obstructions (e.g., growing tree branches) are blocking sunlight from reaching the solar panel.
- **Check Connections:** Occasionally check that all mounting screws and connections are secure.
- **Battery Care:** The built-in lithium battery is designed for long life. Avoid prolonged storage in a completely discharged state. If storing, ensure it is fully charged first.

7. TROUBLESHOOTING

If you encounter issues with your solar street light, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Light does not turn on at night.	<ul style="list-style-type: none"> ◦ Insufficient charging due to lack of direct sunlight. ◦ Solar panel is dirty or obstructed. ◦ Light is in OFF mode via remote. ◦ Battery is completely discharged. 	<ul style="list-style-type: none"> ◦ Relocate the light to an area with more direct sunlight. ◦ Clean the solar panel. Remove any obstructions. ◦ Use the remote control to turn the light ON or activate Dusk to Dawn mode. ◦ Allow 1-2 days of full sunlight charging before expecting full operation.
Light is dim or does not last all night.	<ul style="list-style-type: none"> ◦ Insufficient charging. ◦ Battery capacity reduced due to cold weather or age. ◦ Partial obstruction of solar panel. 	<ul style="list-style-type: none"> ◦ Ensure solar panel receives maximum direct sunlight. ◦ Clean the solar panel. ◦ In colder climates, battery performance may be reduced.

Problem	Possible Cause	Solution
Motion sensor not working correctly.	<ul style="list-style-type: none"> ◦ Sensor is obstructed. ◦ Sensor mode is not activated. ◦ Interference from other light sources. 	<ul style="list-style-type: none"> ◦ Ensure the sensor lens is clean and clear. ◦ Activate motion sensor mode using the remote control. ◦ Relocate the light away from other strong light sources.

8. SPECIFICATIONS

Brand	KingHe
Model Number	KINGHE-BBG6-1
Power (Equivalent)	2400W
Material	Acrylonitrile Butadiene Styrene (ABS), Plastic
Color	Black
Light Color	Cool White (6000K)
Luminous Flux	10000 lm
Voltage	3.2 Volts
Wattage	600 watts (actual power consumption)
Battery Capacity	12000 mAh Lithium Battery
Charging Time	5-6 hours (direct sunlight)
Working Time	12-24 hours (in bright mode after full charge)
Motion Sensor Range	32-39 feet (approx. 10-12 meters)
Water Resistance Level	Waterproof
Dimensions (L x W x H)	34 cm x 19.5 cm x 8 cm (13.4 in x 7.7 in x 3.1 in)
Installation Type	Pole Mount, Wall Mount
Certifications	FCC

9. WARRANTY AND SUPPORT

The KingHe Solar Street Light comes with a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact KingHe customer service.

- **Customer Service:** Refer to the contact information provided on your purchase receipt or the official KingHe website.
- Please have your model number (KINGHE-BBG6-1) and purchase date ready when contacting support.

