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› KingHe Solar Street Light User Manual

KingHe

KingHe Solar Street Light User Manual

Model: KH-XBW8-1N

1. INTRODUCTION

Thank you for choosing the KingHe Solar Street Light. This manual provides detailed instructions for the installation, operation, and maintenance of your solar-powered outdoor lighting system. Designed for efficiency and durability, this light features advanced motion sensing and light control for optimal performance in various outdoor environments.



Image 1.1: KingHe Solar Street Light with included remote control.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the solar panel is exposed to direct sunlight for optimal charging.
- Do not disassemble, modify, or attempt to repair the product yourself. Contact qualified personnel for service.
- Keep the product away from flammable materials and extreme heat sources.
- Avoid looking directly into the light source when it is active, as it can cause eye strain or damage.
- Install the light securely to prevent it from falling, especially in windy conditions.
- Turn on the outdoor solar street light switch before installation.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- KingHe Solar Street Light Unit
- Remote Control
- Mounting Arm/Bracket
- Installation Screws and Anchors
- User Manual (This Document)



Image 3.1: Overview of product dimensions and included accessories.

4. PRODUCT FEATURES

- **Ultra Bright Illumination:** Equipped with 160 high-efficiency 5730 SMD lamp beads, providing 10000lm brightness with a 6000K color temperature. Covers a large lighting area of approximately 1076 square feet.
- **240° Wide Angle Lighting:** Features a three-sided wide-angle design for broader and brighter illumination compared to traditional street lights.

Diseño de ángulo más amplio

Gama de iluminación más amplia



Image 4.1: Wide-angle illumination pattern.

Diseño de gran angular de 240°

Gama de iluminación más amplia

240°



Diseño antiguo de 90°

El área de iluminación tiene ciertas limitaciones

90°



Nuevo diseño

VS

Productos más antiguos

Image 4.2: Comparison of 240° wide-angle design vs. older 90° design.

- **High-Efficiency Solar Panels:** Utilizes polycrystalline silicon photovoltaic panels for high photoelectric conversion efficiency.
- **Long-Lasting Battery:** Built-in 12000mAh large-capacity lithium battery, fully charging in 5-6 hours and providing 12-24 hours of working time in bright mode.
- **Intelligent Lighting Modes:**
 - **Dusk to Dawn:** Automatic light dimming; lights on at dusk, off and charging at dawn.
 - **Motion Sensor Mode:** Switches to 100% brightness within 1 second upon motion detection. Returns to 50% power saving mode when no motion is detected.



6-8 horas de carga completa

CHIP SENSOR DE LUZ INTELIGENTE
Funcionamiento automatico sin mantenimiento

Ilumina toda la noche

Image 4.3: Smart light sensor for automatic operation.

— Distancia de detección de radar 32-39 pies —



Image 4.4: Motion sensor functionality.

- **IP65 Waterproof Rating:** Designed to withstand various outdoor environments and weather conditions, including rain and lightning. Operating Temperature: -2°F to 140°F (-18°C to 60°C).

5. SPECIFICATIONS

Attribute	Value
Brand	KingHe
Model Number	KH-XBW8-1N
Light Source	160 x 5730 SMD Lamp Beads
Color Temperature	6000K
Brightness	10000lm

Attribute	Value
Lighting Area	Approx. 1076 sq ft
Battery Capacity	12000mAh Lithium Ion
Charging Time	5-6 hours (full sunlight)
Working Time	12-24 hours (bright mode)
Waterproof Rating	IP65
Operating Temperature	-2°F to 140°F (-18°C to 60°C)
Product Dimensions	25L x 7.5W x 56.5H Centimetres
Weight	2.62 kg
Material	Silicone
Power Source	Solar Powered

6. SETUP AND INSTALLATION

The KingHe Solar Street Light is designed for easy installation on a wall or pole. Follow these steps for optimal performance:

- 1. Choose Location:** Select a location that receives direct, unobstructed sunlight for at least 6-8 hours daily to ensure proper battery charging. Avoid areas under trees, eaves, or other obstructions that may cast shadows on the solar panel.
- 2. Mounting Height:** The suggested installation height is between 13-20 feet (4-6 meters) for optimal light distribution and motion sensor effectiveness.
- 3. Prepare for Installation:** Before mounting, ensure the main power switch on the solar street light unit is turned ON. This switch is typically located near the motion sensor or on the underside of the unit.
- 4. Attach Mounting Arm:** Securely attach the provided mounting arm to the back of the solar street light unit using the included screws.
- 5. Mount the Light:** Using the provided screws and anchors, securely fasten the mounting arm to your chosen wall or pole. Ensure the light is stable and level.
- 6. Adjust Angle:** Once mounted, adjust the angle of the solar panel to face the sun directly for maximum charging efficiency. The light head can also be angled to direct illumination where needed.



Image 6.1: Example of installed solar street light providing wide-angle illumination.

7. OPERATION

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

7.1 Automatic Operation (Dusk to Dawn)

- During the day, the solar panel converts sunlight into electricity and stores it in the built-in battery. The light remains off.
- At dusk, the light sensor detects low ambient light, and the street light automatically turns on in a power-saving mode (typically 30% brightness).
- At dawn, the light sensor detects sufficient ambient light, and the street light automatically turns off and begins charging.

7.2 Motion Sensor Functionality

- When motion is detected within the sensor's range (approximately 32-39 feet), the light will instantly switch to 100% brightness

for enhanced security and visibility.

- After approximately 15-30 seconds of no motion detection, the light will revert to its power-saving mode (50% brightness, as per feature bullets, or 30% as per description - I'll use 50% as it's more recent in the feature bullets).

7.3 Remote Control Functions

The included remote control allows for additional control over the light's operation:

- **ON/OFF:** Manually turn the light on or off.
- **Brightness Adjustment:** Adjust the light intensity (e.g., 100%, 75%, 50%, 25%).
- **Timing Modes:** Set the light to stay on for a specific duration (e.g., 2H, 4H, 6H).
- **Motion Sensor Mode:** Activate or deactivate the motion sensor.
- **Auto Mode:** Revert to the default dusk-to-dawn and motion-sensing operation.

8. MAINTENANCE

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

- **Clean Solar Panel:** Periodically wipe the solar panel surface with a soft, damp cloth to remove dust, dirt, leaves, or snow. A clean panel ensures maximum sunlight absorption and charging efficiency.
- **Inspect Fixture:** Check the light fixture and mounting hardware regularly for any signs of damage, corrosion, or looseness. Tighten any loose screws.
- **Clear Obstructions:** Ensure no new obstructions (e.g., growing tree branches) are blocking sunlight from reaching the solar panel.
- **Battery Care:** While the battery is designed for long life, prolonged periods of low sunlight or extreme temperatures can affect its performance. Ensure the light gets adequate sunlight.

9. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Light does not turn on at night.	Main switch is OFF. Insufficient sunlight for charging. Solar panel is dirty or obstructed. Battery charge is too low.	Ensure the main switch is ON. Relocate the light to an area with direct sunlight. Clean the solar panel and remove any obstructions. Allow 1-2 sunny days for the battery to fully charge.
Light flickers or has low brightness.	Insufficient battery charge. Solar panel is dirty. Extreme cold weather affecting battery performance.	Ensure adequate sunlight exposure for charging. Clean the solar panel. Performance may be reduced in very low temperatures.
Motion sensor not working or too sensitive.	Sensor obstructed or dirty. Incorrect remote control setting. Interference from other light sources.	Clean the sensor lens. Use the remote control to adjust sensor settings or reset to Auto mode. Ensure no other lights are interfering with the sensor.

10. WARRANTY AND SUPPORT

KingHe provides a **1-Year Warranty Policy** for this solar street light from the date of purchase. This warranty covers manufacturing defects and material flaws under normal use.

If you have any questions, concerns, or require technical assistance, please do not hesitate to contact our customer support team.

We are committed to providing a satisfactory shopping experience and will respond to your inquiries within 24 hours.

For support, please refer to the contact information provided on your purchase receipt or the KingHe official website.