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› KingHe Solar Street Light KH-YT-FB-NS Instruction Manual

KingHe KH-YT-FB-NS

KingHe Solar Street Light Instruction Manual

Model: KH-YT-FB-NS

INTRODUCTION

Thank you for choosing the KingHe Solar Street Light. This manual provides detailed instructions for the installation, operation, and maintenance of your solar street light to ensure optimal performance and longevity. Please read this manual thoroughly before installation and keep it for future reference.

PRODUCT FEATURES

- **High Brightness:** Equipped with efficient lamp beads providing a wide lighting range of approximately 1100-1300 sq ft.
- **Intelligent Light Sensor:** Automatic operation from dusk to dawn, requiring no manual intervention.
- **Motion Sensor:** Features radar sensing with a distance of 32-39 ft, adjusting brightness from 30% to 100% upon detecting movement.
- **Solar Powered:** Charges in 6-8 hours of direct sunlight, providing 12-15 hours of lighting. Features a 26% high conversion rate solar panel and an 11000mAh battery.
- **Durable Design:** IP65 waterproof rating, frost resistance, and lightning protection for reliable outdoor performance in various weather conditions.
- **Versatile Application:** Suitable for gardens, streets, parking lots, yards, and other outdoor areas.
- **Remote Control:** Allows for easy mode selection and timing functions.

High Brightness Lamp Beads

— wider lighting range —



Image: The solar street light provides a wide illumination area, covering approximately 1100-1300 square feet.



6-8 hours full charge

INTELLIGENT LIGHT SENSOR CHIP
Automatic operation without maintenance

Light up the whole night

Image: The intelligent light sensor chip enables automatic operation, charging in 6-8 hours during the day and lighting up throughout the night.

Radar Sensing Distance 32-39ft



Image: The radar motion sensor detects movement within 32-39 feet, activating 100% brightness from a standby 30% brightness.

PACKAGE CONTENTS

Please check the package contents upon receipt to ensure all components are present and undamaged. The standard package includes:

- Solar Street Light Unit (with integrated solar panel)
- Mounting Arm/Bracket
- Remote Control
- Expansion Screws/Bolts (for installation)
- User Manual (this document)

1 PACK PACKAGE INCLUDES

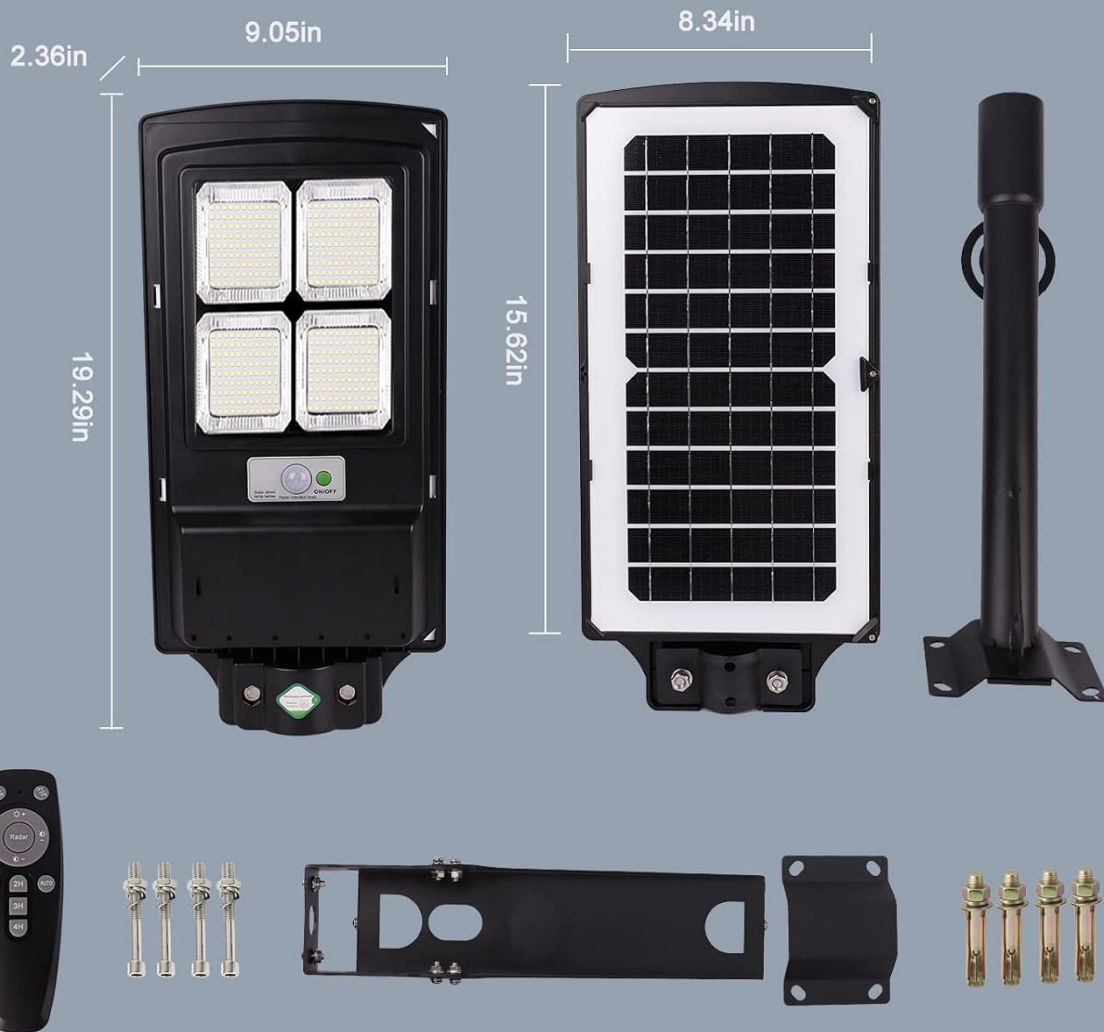


Image: Detailed view of the package contents, including the solar light, solar panel, mounting bracket, remote, and hardware.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your solar street light. Follow these steps carefully:

1. **Choose Location:** Select a location that receives direct sunlight for at least 6-8 hours daily. Avoid areas shaded by trees, buildings, or other obstructions. The solar panel must be exposed to maximum sunlight.
2. **Mounting Height:** For optimal lighting coverage, install the light at a height of approximately 13-20 feet (4-6 meters).
3. **Assemble Mounting Arm:** Attach the mounting arm to the solar street light unit using the provided screws. Ensure it is securely fastened.
4. **Secure to Surface:** Using the expansion screws/bolts, securely mount the assembled light unit to a wall, pole, or other stable surface. Ensure the mounting is firm and can withstand wind and other environmental factors.
5. **Adjust Angle:** Position the solar panel to face the sun for maximum exposure. The light head should be angled to illuminate the desired area.
6. **Initial Charge:** Allow the solar light to charge for a full day (6-8 hours) in direct sunlight before its first use to ensure the battery is fully charged.



Image: Examples of suitable installation locations, including gardens, streets, parking lots, and yards.

OPERATING INSTRUCTIONS

The KingHe Solar Street Light operates automatically based on light conditions and motion detection. Use the remote control to select desired modes.

Remote Control Functions:

- **ON/OFF:** Power the light on or off.
- **Mode 1 (Motion Sensor Mode):** The light stays at 30% brightness and switches to 100% brightness when motion is detected within 32-39 ft. It returns to 30% after motion ceases.
- **Mode 2 (Dusk to Dawn Mode):** The light automatically turns on at dusk at a constant brightness and turns off at dawn.
- **Mode 3 (Timing Mode):** Allows setting the light to operate for a specific duration (e.g., 2, 3, or 4 hours) after activation.
- **Brightness Adjustment:** Adjust the overall brightness level (if available on your remote model).

Note: The remote control requires line-of-sight to the light sensor for effective operation.

Motion Sensor & Dusk to Dawn

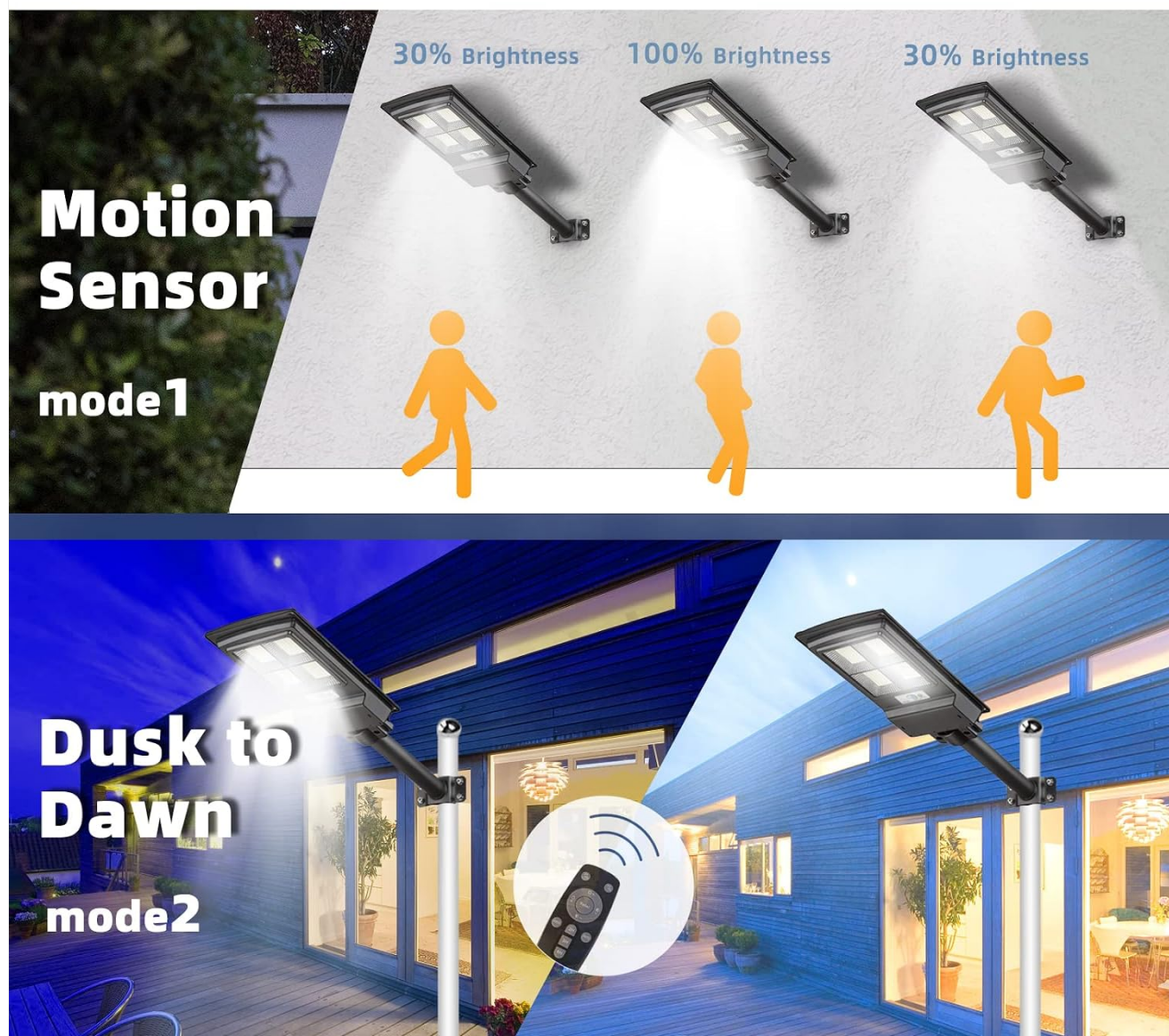


Image: Visual representation of Motion Sensor (Mode 1) and Dusk to Dawn (Mode 2) operation.

Motion Sensor & Dusk to Dawn



Image: Overview of the three primary operating modes: Motion Sensor, Dusk to Dawn, and Timing Mode.

MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your 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.
- **Check for Obstructions:** Ensure no new obstructions (e.g., growing tree branches) are blocking sunlight from reaching the solar panel.
- **Inspect Mounting:** Regularly check that the mounting arm and light unit are securely fastened and show no signs of loosening or damage.
- **Battery Care:** The integrated battery is designed for long-term use. Avoid prolonged storage in a completely discharged state.

TROUBLESHOOTING

If your solar street light is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Light does not turn on at night.	◦ Insufficient sunlight exposure during the day. ◦ Solar panel is dirty or obstructed. ◦ Battery is not fully charged. ◦ Light sensor is faulty or covered.	◦ Relocate the light to an area with more direct sunlight. ◦ Clean the solar panel. ◦ Allow 1-2 full days of charging in direct sunlight. ◦ Ensure the light sensor is clean and unobstructed.

Problem	Possible Cause	Solution
Light duration is shorter than expected.	◦ Insufficient charging time. ◦ Battery degradation (after extended use). ◦ Operating in a high-brightness mode constantly.	◦ Ensure the solar panel receives 6-8 hours of direct sunlight. ◦ Consider replacing the battery if it's old and performance has significantly decreased. ◦ Switch to motion sensor mode (Mode 1) for longer duration.
Motion sensor is not working.	◦ Sensor is obstructed or dirty. ◦ Light is not in motion sensor mode. ◦ Distance is outside the detection range.	◦ Clean the sensor lens. ◦ Ensure Mode 1 is selected via the remote control. ◦ Test within the 32-39 ft detection range.
Remote control is unresponsive.	◦ Remote battery is dead. ◦ No line-of-sight to the light's receiver.	◦ Replace the remote control battery. ◦ Point the remote directly at the light's sensor/receiver.

SPECIFICATIONS

Feature	Detail
Model Number	KH-YT-FB-NS
Brand	KingHe
LED Type	2835
Lumen Output	12000 lm
Waterproof Rating	IP65
Motion Sensor Range	32-39 ft (Radar Sensing)
Lighting Coverage	Approx. 1100-1300 sq ft (up to 1615 sq ft in some configurations)
Solar Charging Time	6-8 hours (direct sunlight)
Lighting Time	12-15 hours (fully charged)
Battery Capacity	11000mAh
Solar Conversion Rate	26%

IP65 Waterproof & Durable



IP65 Waterproof



Frost Resistance



Lighting Protection

Image: The light's robust design ensures durability against water, frost, and lightning.

SAFETY INFORMATION

- Do not look directly into the light source when it is active, as it can cause eye strain.
- Ensure all mounting hardware is securely tightened to prevent the light from falling.
- Do not attempt to disassemble or modify the light unit, as this may void the warranty and pose safety risks.
- Keep the solar panel clean to maintain charging efficiency.
- Dispose of batteries according to local regulations.

WARRANTY AND SUPPORT

For any questions, technical support, or warranty claims, please contact KingHe customer service. Refer to your purchase documentation for specific warranty terms and contact details.

