KALAHOL B09T3FMCS4

KALAHOL 90-LED Outdoor Solar Security Light User Manual

Model: B09T3FMCS4

Introduction

Thank you for choosing the KALAHOL 90-LED Outdoor Solar Security Light. This manual provides essential information for the safe and efficient operation of your new solar light. Designed for outdoor use, this light features a motion detector, high-efficiency solar charging, and multiple lighting modes to enhance security and convenience around your home, garden, or garage.

Safety Information

Please read all safety instructions carefully before installation and use. Keep this manual for future reference.

- Ensure the solar panel receives direct sunlight for optimal charging. Avoid shaded areas.
- Do not disassemble, repair, or modify the product yourself. Contact qualified personnel for service.
- Keep the product away from fire and high temperatures.
- Do not immerse the product in water, despite its waterproof rating.
- Dispose of the battery according to local regulations. Do not incinerate.

Product Overview

The KALAHOL 90-LED Solar Security Light is an advanced outdoor lighting solution. Key components include:

- **Solar Panel:** Converts sunlight into electricity to charge the internal battery.
- **LED Array:** 90 high-power LEDs provide bright illumination.
- **PIR Motion Sensor:** Detects movement to activate the light.
- **On/Off Switch & Mode Button:** Controls power and switches between lighting modes.
- **USB Charging Port:** Allows for alternative charging in low-light conditions.
- **Rechargeable Battery:** 2600mAh capacity for extended operation.

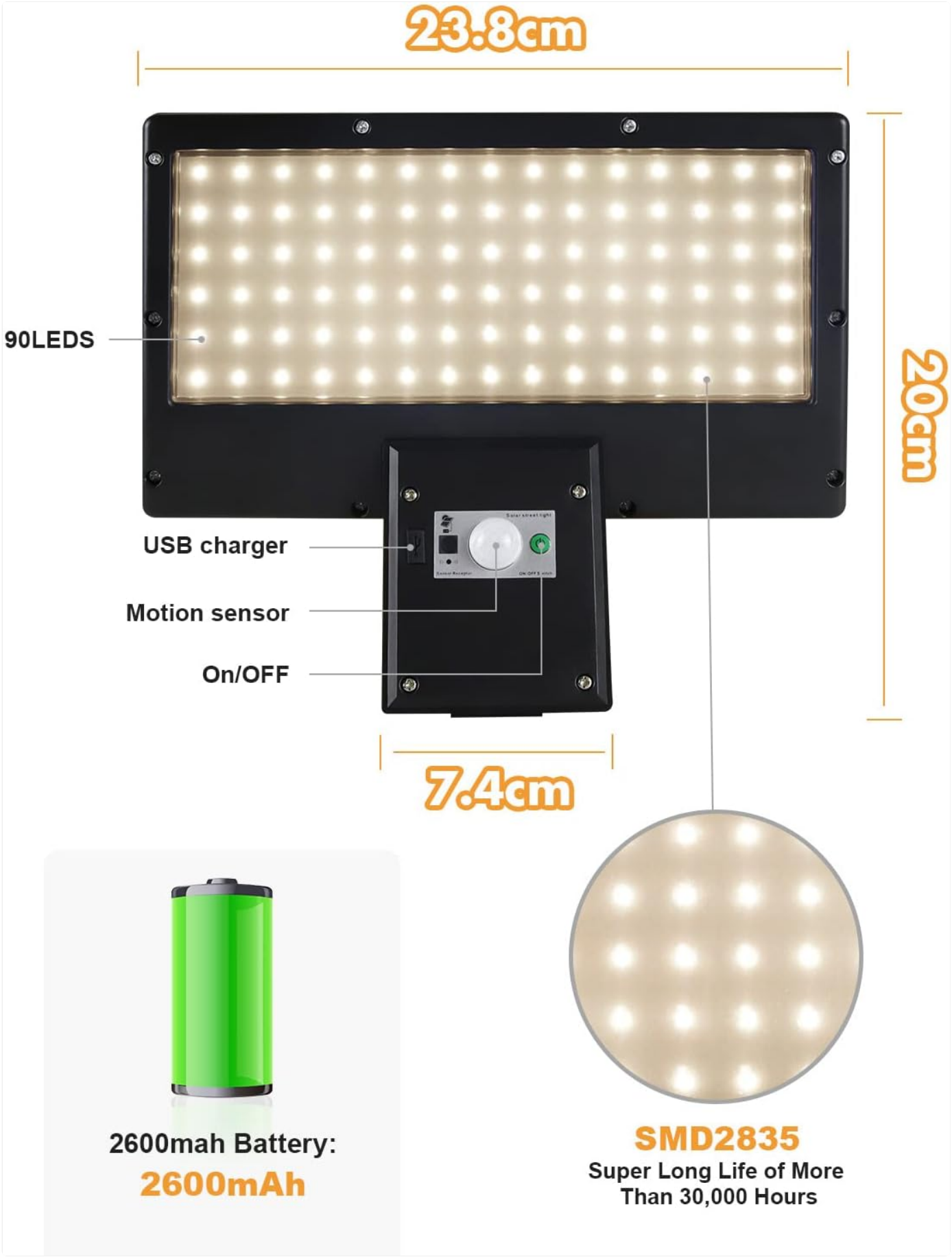


Figure 1: Product Components. This image displays the KALAHOL 90-LED Solar Security Light from the front, highlighting its key components such as the 90 LEDs, USB charger port, motion sensor, and On/Off switch. Dimensions are also indicated, showing the light's overall size and the 2600mAh battery capacity.



Figure 2: Overall Product View. This image shows the KALAHOL 90-LED Solar Security Light from an angled perspective, with an inset close-up of the solar panel, emphasizing its design and solar charging capability.

Setup and Installation

Follow these steps for proper installation:

1. **Choose Location:** Select a location that receives ample direct sunlight throughout the day for optimal solar charging. Ensure the area is clear of obstructions that might block the solar panel or the motion sensor's detection range.
2. **Mounting Height:** For best performance, install the light at an optimal height of 8 to 12 feet (approximately 2.4 to 3.6 meters) from the ground. This height allows for a wide detection and illumination angle.
3. **Secure Mounting:** Use the provided screws and accessories to securely mount the light to a wall or fence. Ensure the mounting surface is stable.
4. **Initial Charge:** Before first use, allow the light to charge in direct sunlight for at least 6-8 hours to ensure the battery is sufficiently charged.

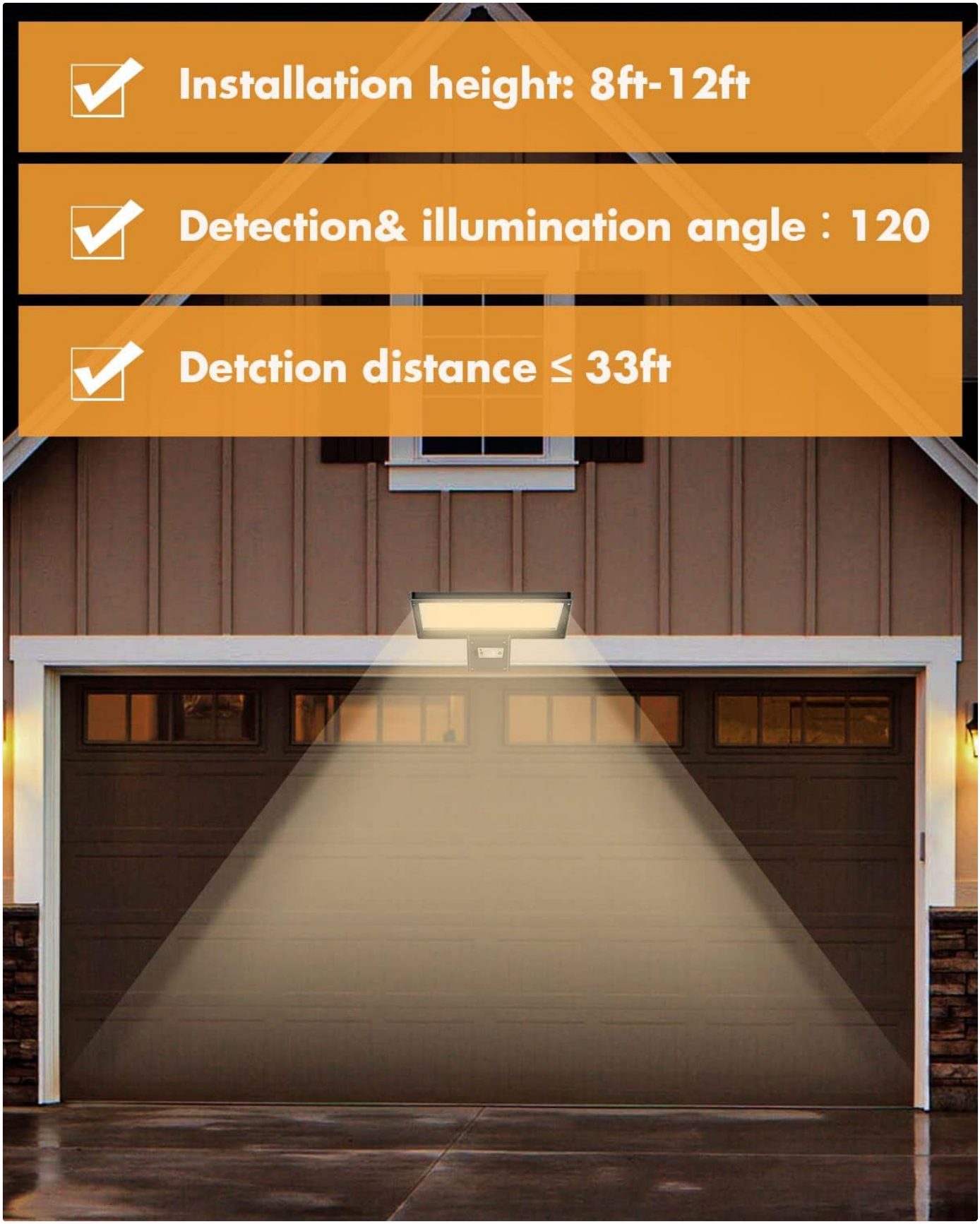


Figure 3: Installation Guidelines. This diagram illustrates the recommended installation height (8ft-12ft), detection and illumination angle (120 degrees), and detection distance (up to 33ft) for the solar security light, shown mounted above a garage door.



Figure 4: Automatic Light Control. This image visually represents the light's automatic function: charging during the day from sunlight and automatically activating to work at night.

Operating Instructions

The light features three adjustable modes. Press the mode button to cycle through them:

Mode 1: Sensor Mode

The light remains off when no motion is detected. It illuminates at 100% brightness when motion is detected, then turns off after approximately 15-30 seconds of no motion.

Mode 2: Sensor & Dim Mode

The light stays on at a dim brightness (e.g., 20%) when no motion is detected. It switches to 100% brightness when motion is detected, then returns to dim mode after approximately 15-30 seconds of no motion.

Mode 3: Dim Mode (Always On)

The light stays on at a constant dim brightness. The infrared sensor stops working in this mode. This mode provides continuous ambient lighting throughout the night.

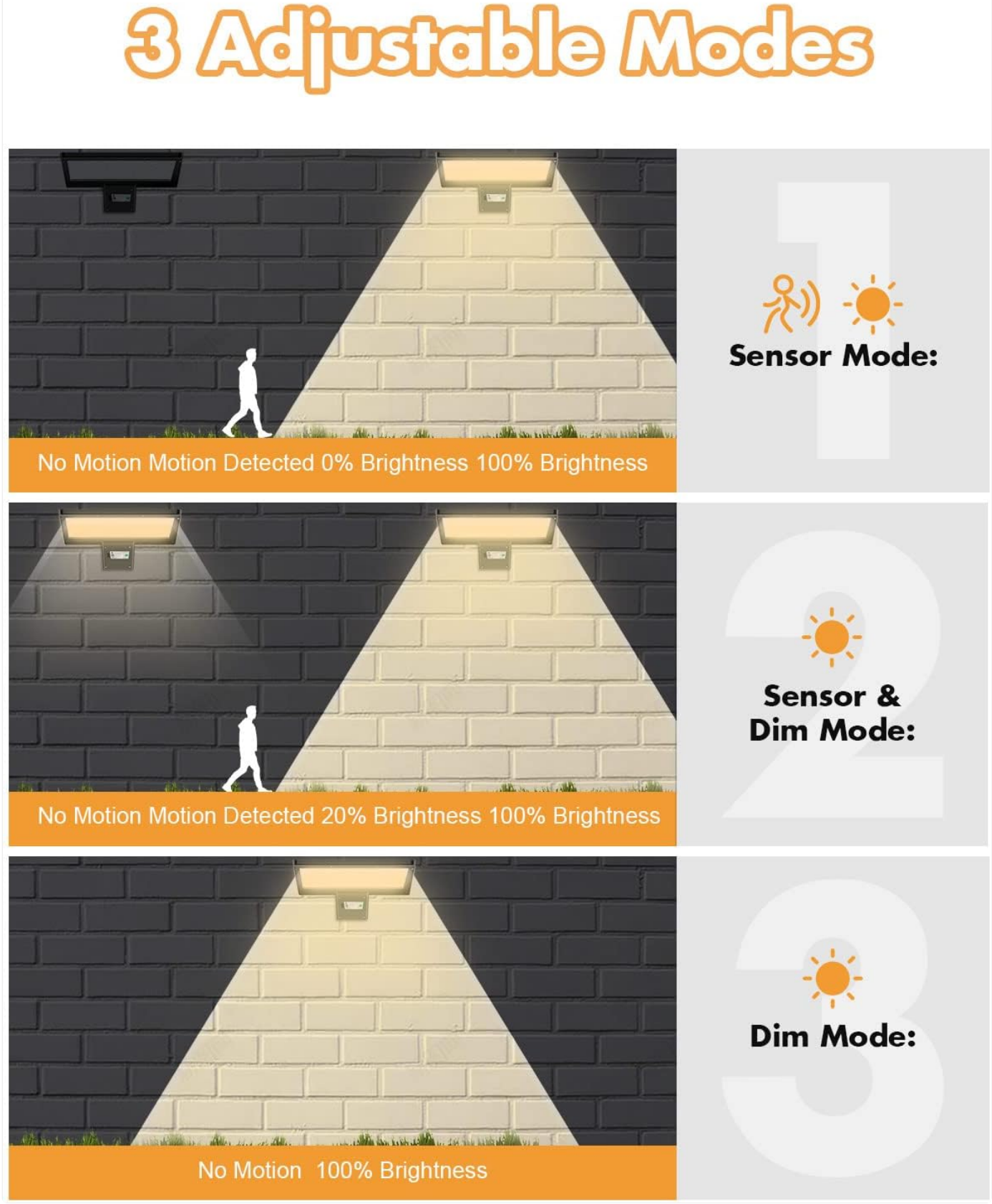


Figure 5: Three Adjustable Modes. This graphic illustrates the three operational modes: Sensor Mode (off then 100% bright), Sensor & Dim Mode (dim then 100% bright), and Dim Mode (constant 100% bright, or constant dim based on product behavior).

USB Charging: In prolonged periods of low sunlight or for emergency use, the light can be charged via its USB port. Connect a standard USB charger (not included) to the light's USB port. A full charge via USB takes approximately 1.5 hours and can provide illumination for up to 6 rainy nights.



Figure 6: Charging Information. This image details the solar charging process, indicating full charge within 4-5 hours of daylight, and USB charging capabilities, which can fully charge in 1.5 hours for use during rainy nights. It also includes a warning about avoiding blocked sunlight.

Maintenance

To ensure the longevity and optimal performance of your solar light:

- **Clean Solar Panel:** 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.
- **Check for Obstructions:** Periodically check that no new obstructions (e.g., growing branches, accumulated snow) are blocking the solar panel or the motion sensor.
- **Battery Care:** While the battery is designed for long life, prolonged periods of non-use or consistent low charge can affect its capacity. If storing the light for an extended period, ensure it is fully charged beforehand.

Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient solar charge. Light switch is off. Sensor malfunction.	Ensure solar panel receives direct sunlight for 6-8 hours. Turn the light on using the On/Off switch. Test different modes. If issue persists, contact support.
Light is dim or only stays on for a short time.	Battery not fully charged. Solar panel is dirty or obstructed. Old battery.	Allow more charging time in direct sunlight. Use USB charging if needed. Clean the solar panel. Remove any obstructions. Battery replacement may be needed after extended use (contact support).
Motion sensor not detecting.	Incorrect mode selected. Sensor obstructed. Installation height too low/high.	Ensure Mode 1 or Mode 2 is selected. Clear any debris or objects blocking the sensor. Adjust installation height to 8-12 feet.

Specifications

Feature	Detail
Brand	KALAHOL
Model	B09T3FMCS4
Light Source	90 LEDs (SMD2835)
Battery	2600mAh Rechargeable
Power Source	Solar Powered, USB Charging
Material	Acrylonitrile Butadiene Styrene (ABS)
Waterproof Rating	IP65
Special Features	Motion Sensor, Heat Resistant, Frost Resistant
Dimensions (L x W x H)	24 x 19.6 x 5.8 cm (approx. 9.45 x 7.72 x 2.28 inches)
Weight	450 g (approx. 0.99 lbs)

Feature	Detail
Illumination Angle	120 degrees
Detection Distance	Up to 33 feet (10 meters)
Optimal Installation Height	8-12 feet (2.4-3.6 meters)

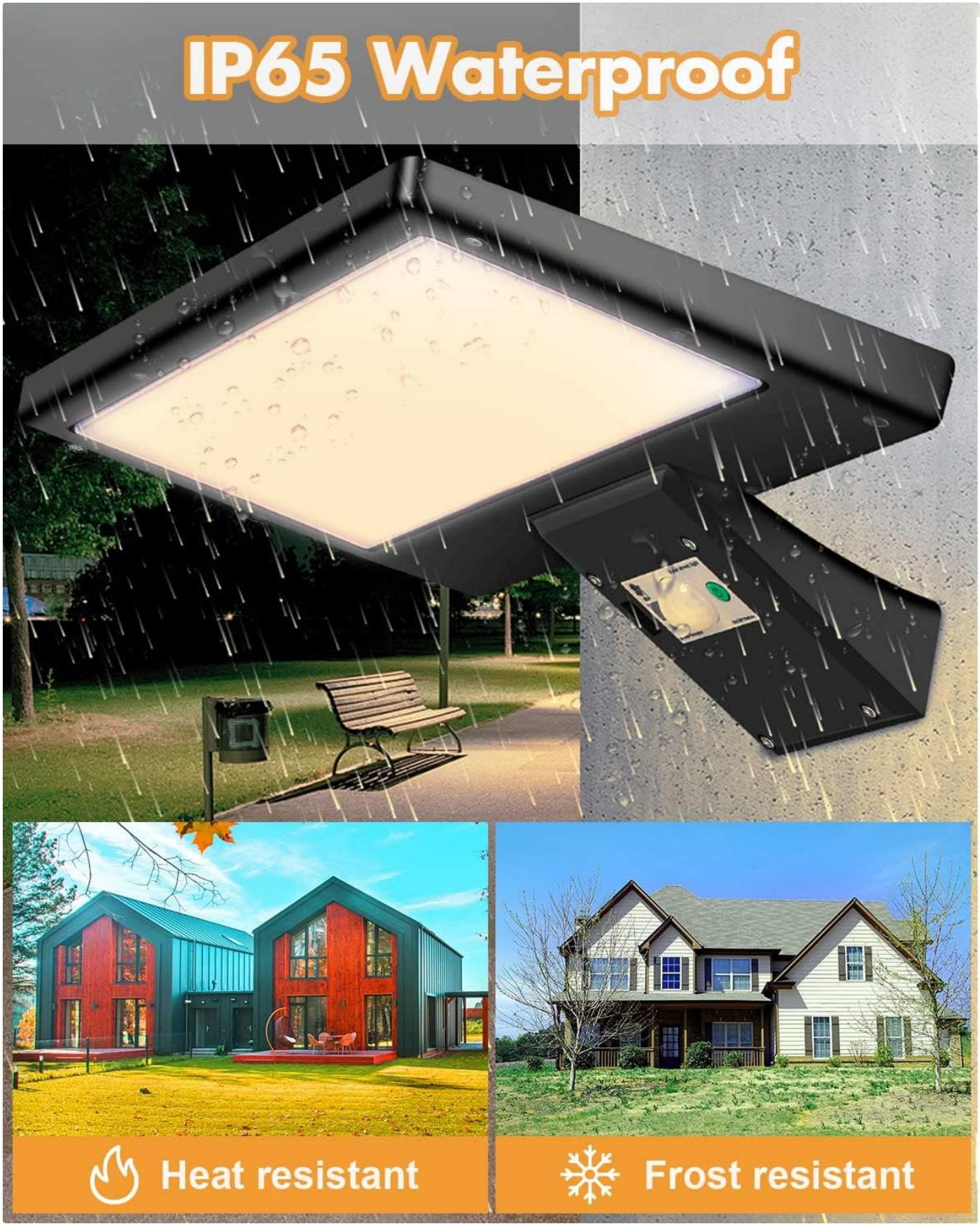


Figure 7: Durability Features. This image highlights the light's IP65 waterproof rating, along with its heat and frost resistance, demonstrating its suitability for various outdoor weather conditions.

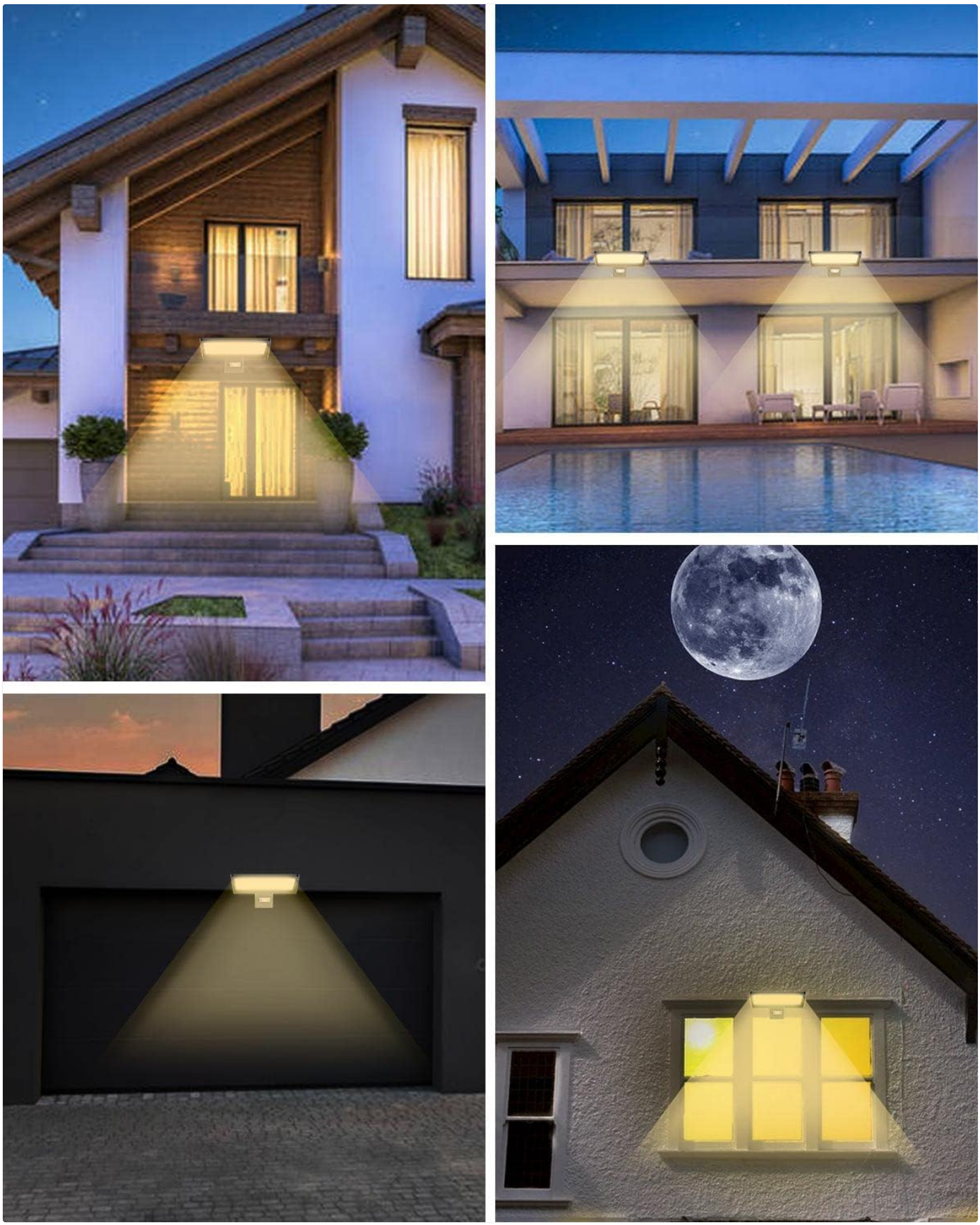


Figure 8: Wide Application. This collage shows the solar light installed in different outdoor environments, including a front entrance, poolside, garage, and garden path, illustrating its versatility.

Warranty and Support

KALAHOL products are designed for durability and performance. For warranty information, technical support, or any questions regarding your product, please refer to the contact information provided with your purchase or visit the official KALAHOL website. Please have your model number (B09T3FMCS4) ready when contacting support.

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