HAARAY AY-2406

HAARAY 2-in-1 Solar Motion Lights Instruction Manual

Model: AY-2406

1. Product Overview

The HAARAY 2-in-1 Solar Motion Lights are innovatively designed outdoor lighting solutions that combine the functionality of a solar motion sensor light with decorative fence lighting. These lights feature 54 white LEDs for bright security illumination and 4 warm LEDs for ambient lighting, offering 270° wide-angle illumination. They are equipped with a motion sensor and operate from dusk to dawn, providing versatile lighting for yards, pathways, steps, and fences.



Image 1: Overview of the HAARAY 2-in-1 Solar Motion Light, showcasing its hexagonal design and multiple LED arrays.



Image 2: Detailed view of the light's upgraded 2-in-1 design, highlighting the white light for motion sensing and warm light for home ambiance, along with its 270° illumination angle, 120° detection angle, and 26ft detection distance.

2. Features

- **2-in-1 Innovative Design:** Functions as both a solar motion light and a solar fence light for decorative and security lighting.
- **Three Lighting Modes:** Offers two motion-activated modes (bright white light) and one stay-on mode (warm light).
- **Rechargeable and Energy Saving:** Automatically charges during the day via its solar panel and illuminates at night.
- **Long-Lasting Battery:** Provides over 120 motion activations in modes 1 & 2, or over 8 hours of continuous light in mode 3, on a full charge.
- **IP64 Waterproof:** Constructed with high-quality ABS material, ensuring reliable performance in various weather conditions, including rain and dust.

- **Wide Illumination and Detection:** Features a 270° illumination angle and a 120° motion detection angle with a range of up to 26 feet.

3. Setup and Installation

For optimal performance, ensure the solar panel receives direct sunlight for at least 6-8 hours daily. Avoid placing the light in shaded areas or near other strong light sources that might interfere with the dusk-to-dawn sensor.

Installation Steps:

1. **Choose Location:** Select a location that receives ample direct sunlight throughout the day and where the light's illumination is desired.
2. **Mark Drilling Points:** Use the light's mounting holes as a template to mark the drilling points on the desired surface (wall, fence, step).
3. **Drill Holes:** Drill holes at the marked points. Insert wall anchors if installing on masonry or concrete.
4. **Mount the Light:** Align the light with the drilled holes and secure it using the provided mounting hardware (screws).
5. **Activate:** Press the power button on the light to activate it. The light will automatically enter its selected mode at dusk.



Image 3: Example of the solar light installed on an outdoor wall, demonstrating its discreet profile and effective illumination.

4. Operating Instructions

The HAARAY Solar Motion Light features a single button to cycle through its three distinct lighting modes. The light automatically turns on at dusk and off at dawn.

Lighting Modes:

- **Mode 1 (Motion-Activated Bright):** The light remains off until motion is detected. Upon detection, it illuminates brightly (white light) for approximately 25 seconds, then turns off. Ideal for security.
- **Mode 2 (Dim-to-Bright Motion-Activated):** The light stays dimly lit (warm light) at night. When motion is detected, it switches to bright illumination (white light) for approximately 25 seconds, then returns to dim. Suitable for ambient lighting with security boost.
- **Mode 3 (Stay On All Night):** The light stays continuously lit at a dim level (warm light) throughout the night, from dusk until dawn. Best for constant decorative or ambient lighting.

To cycle through modes, press the power button located on the front of the light. Each press will advance to the next mode. The light will remember the last selected mode.



Image 4: Visual representation of the three lighting modes, showing how the light behaves with and without motion detection.



Image 5: Illustration of the light's motion detection capabilities (up to 120 times in modes 1 & 2) and the long-lasting duration of 8-12 hours in Mode 3 (Dusk to Dawn).

5. Maintenance

To ensure the longevity and optimal performance of your HAARAY Solar Motion Lights, follow these simple maintenance guidelines:

- **Clean Solar Panel:** Regularly wipe the solar panel with a soft, damp cloth to remove dust, dirt, leaves, or snow. A clean panel ensures efficient charging.
- **Clear Obstructions:** Ensure no trees, bushes, or structures are blocking direct sunlight from reaching the solar panel.
- **Check Placement:** Periodically verify that the light is securely mounted and has not shifted due to weather or other factors.
- **Weather Resistance:** While IP64 waterproof, extreme weather conditions (heavy snow, prolonged freezing

temperatures) may temporarily affect performance. Allow the light to recover in normal conditions.



Image 6: Depiction of the light's robust design, indicating its resistance to various weather conditions, including rain, and its operating temperature range of -15°F to 150°F.



Image 7: Close-up of the monocrystalline silicon solar panels, emphasizing their high conversion rate, energy-saving capabilities, and zero electricity cost.

6. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient solar charge.	Ensure the solar panel is in direct sunlight for 6-8 hours daily. Clean the solar panel.
Light flickers or has short illumination time.	Low battery charge.	Allow the light to charge for 1-2 full sunny days.
Motion sensor not working.	Interference from other light sources (streetlights, porch lights).	Relocate the light away from other strong light sources. Ensure the area is dark for the sensor to activate.

Problem	Possible Cause	Solution
Light stays on constantly (not motion-activated).	Incorrect mode selected.	Press the power button to cycle to Mode 1 or Mode 2.

7. Specifications

Feature	Detail
Brand	HAARAY
Model Number	AY-2406
Color	Black
Shape	Rectangular
Material	Acrylonitrile Butadiene Styrene (ABS)
Finish Type	Painted
Light Source Type	LED
Power Source	Solar Powered
Number of Batteries	1 A batteries required (included)
Style	Modern
Mounting Type	Wall Mount
Product Dimensions	5"L x 2.2"W x 4.2"H
Item Weight	13.1 ounces
Item Package Quantity	2
Included Components	Mounting Hardware
Special Features	Energy Efficient, Lightweight, Motion Sensor
Switch Style	Push Button
Waterproof Rating	IP64

8. Warranty and Support

Specific warranty information and detailed customer support contacts were not provided in the product data. Please refer to the product packaging or the manufacturer's official website for the most up-to-date warranty details and

customer service options.
For general inquiries or assistance, you may visit the HAARAY store on Amazon:HAARAY Amazon Store.

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