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SECUROAD HBT-1606

SECUROAD HBT-1606 Super Bright Solar LED Motion Sensor Light Instruction Manual

Model: HBT-1606 | Brand: SECUROAD

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your SECUROAD HBT-1606 Super Bright Solar LED Motion Sensor Light. Designed for outdoor use, this light features an anodized aluminum housing, IP65 waterproofing, and multiple lighting modes to enhance security and convenience around your property.

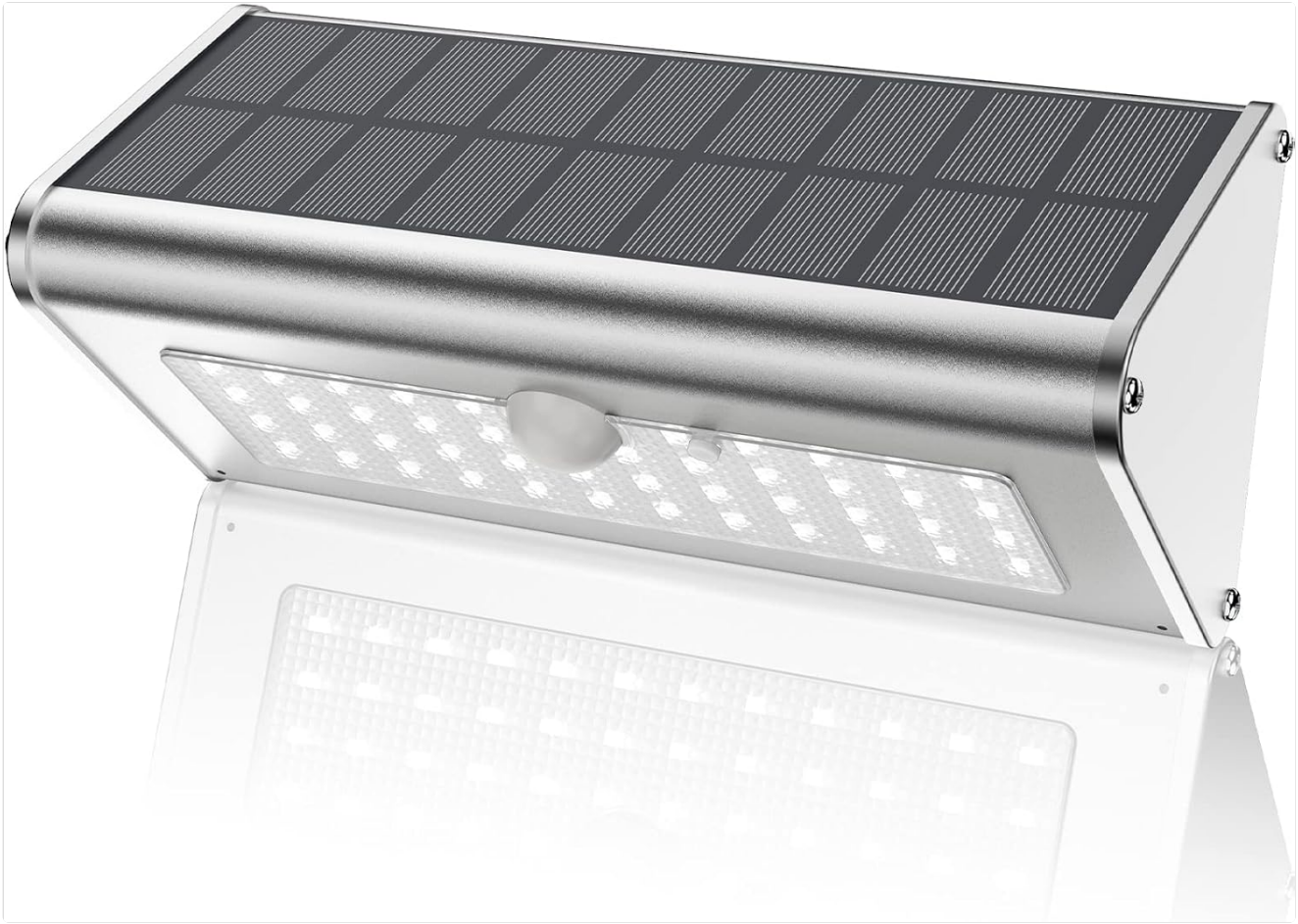


Figure 1: SECUROAD HBT-1606 Solar LED Motion Sensor Light

2. Package Contents

Verify that all items are present in the package:

- 1 x SECUROAD HBT-1606 Solar LED Motion Sensor Light
- 1 x Mounting Kit (screws, wall anchors)
- 1 x Instruction Manual
- 1 x Lithium Metal Battery (type 18650, pre-installed)

3. Features

- **Super Bright Illumination:** 46 high-quality LEDs provide up to 1100 lumens at 100% charge, covering over 600 sq ft.
- **Durable Construction:** Anodized aluminum alloy housing for corrosion resistance and longevity in harsh outdoor environments.
- **Weatherproof Design:** IP65 waterproof rating ensures protection against dust, rain, snow, and storms.
- **Advanced Motion Sensing:** Built-in PIR motion sensor detects motion up to 120 degrees with a 26-foot range.
- **Multiple Operating Modes:** Four distinct working modes (Dim-Bright, Off-Bright, Constant Lighting, Emergency Lighting) to suit various needs.
- **Efficient Solar Charging:** Monocrystalline silicone solar panel with PET lamination offers up to 20% conversion rate for faster charging.
- **Long-Lasting Battery:** Explosion-proof, non-memory 4500mAh lithium metal battery provides up to 12 hours

of continuous lighting.



Figure 2: High Brightness Output



Figure 3: IP65 Waterproof Rating



Figure 4: Daytime Charging and Nighttime Operation

4. Setup and Installation

For optimal performance, install the solar light in a location that receives direct sunlight for at least 6-8 hours daily. Ensure the solar panel faces upwards to maximize charging efficiency.

4.1 Mounting Steps

1. **Choose Location:** Select a suitable outdoor wall, fence, or post.
2. **Mark Holes:** Use the provided paper template to mark the drilling points on the mounting surface.
3. **Drill Holes:** Drill two holes at the marked positions. Insert the wall anchors if mounting into masonry or drywall.
4. **Install Screws:** Drive the screws into the anchors/surface, leaving a small portion of the screw head exposed.
5. **Mount Light:** Align the keyhole slots on the back of the light with the exposed screw heads and slide the light down to secure it. Ensure the light is mounted vertically with the light portion facing downwards to prevent water accumulation.



Figure 5: Visual Guide for Mounting

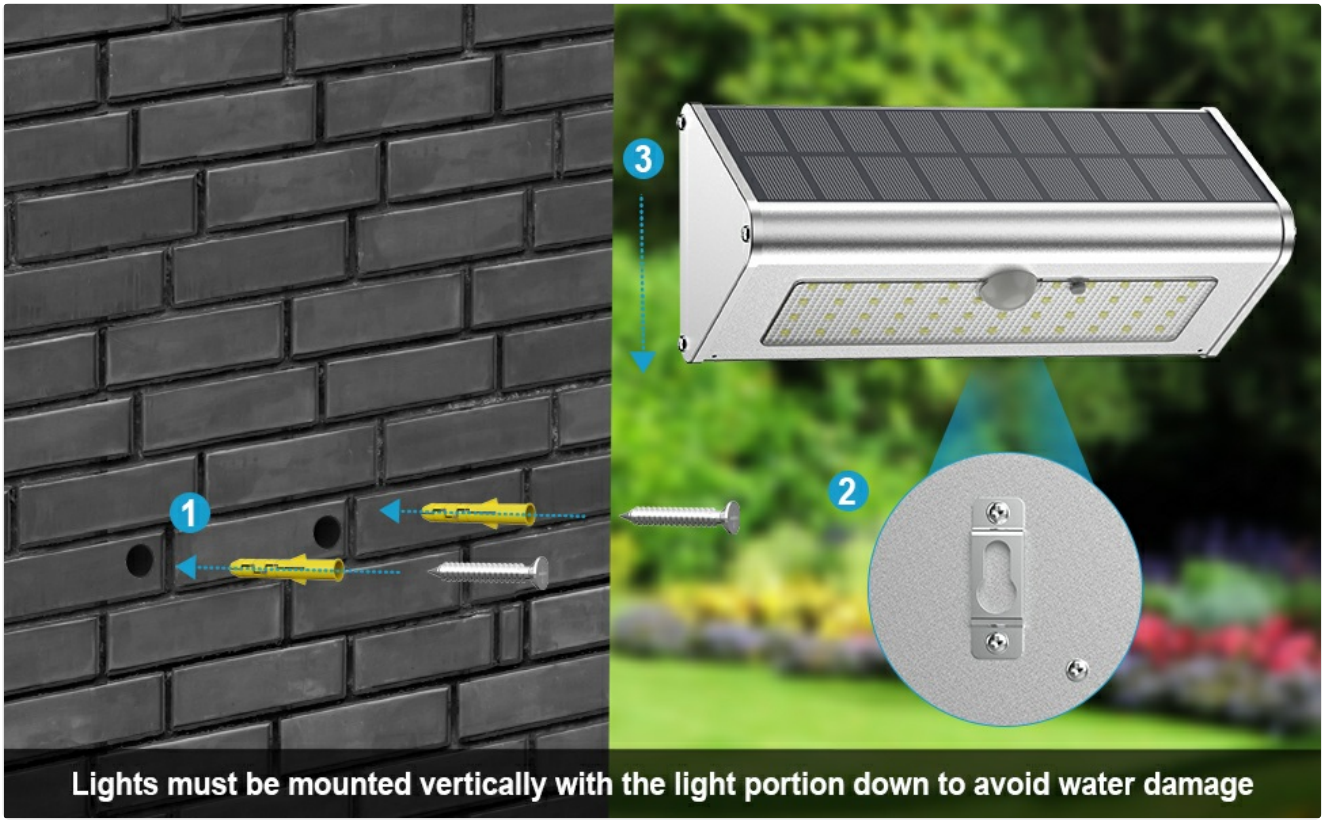


Figure 6: Detailed Mounting Diagram

4.2 Installation Video

Watch this video for a visual guide on the installation process:

Your browser does not support the video tag.

Video 1: Installation and Features of the SECUROAD Solar Light by HerrysHome

This video demonstrates the physical installation of the solar light, including marking drill points and securing the unit. It also highlights key features such as the aluminum housing and motion sensor functionality.

5. Operating Instructions

The SECUROAD HBT-1606 features a single button for power and mode selection. The light will not operate during daylight hours due to its integrated light sensor.

5.1 Power On/Off

To power on the light, press and hold the button for 5 seconds in a dark environment. To power off, cycle through all modes until the light turns off.

5.2 Switching Modes

Once powered on, short press the button to cycle through the four available lighting modes:

1. **Mode 1: Dim-Bright Mode**
   The light stays dim at night and turns to full brightness when motion is detected. It returns to dim after approximately 15-30 seconds of no motion.
2. **Mode 2: Off-Bright Mode**
   The light remains off at night and turns to full brightness when motion is detected. It turns off completely after approximately 15-30 seconds of no motion.
3. **Mode 3: Constant Lighting Mode**

The light stays on constantly at a dim level throughout the night, without motion sensor functionality.

4. **Mode 4: Emergency Lighting Mode**
   The light turns on at full brightness for 30 minutes, then turns off. This mode is typically used for specific temporary lighting needs.

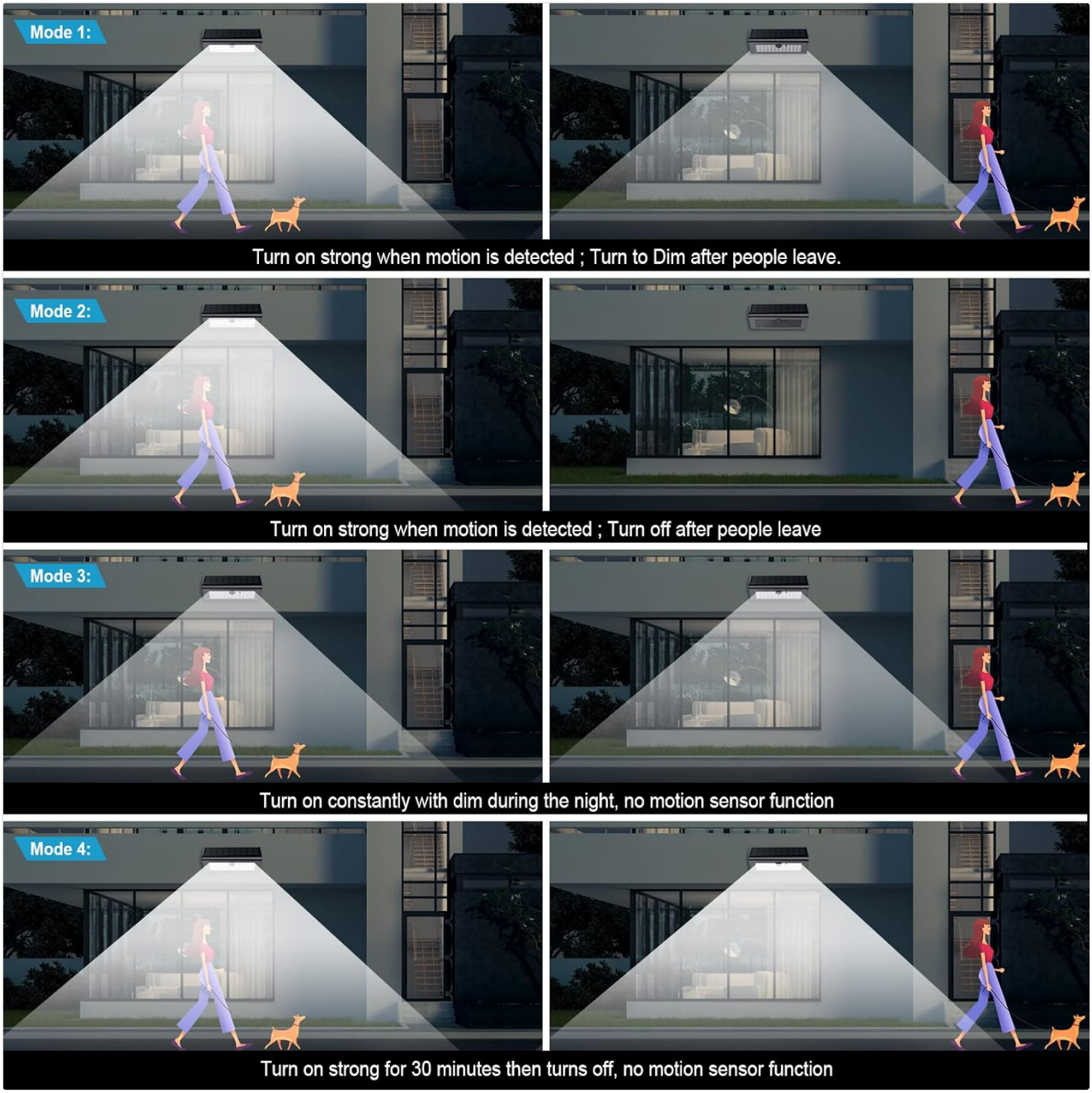


Figure 7: Illustration of the 4 Operating Modes

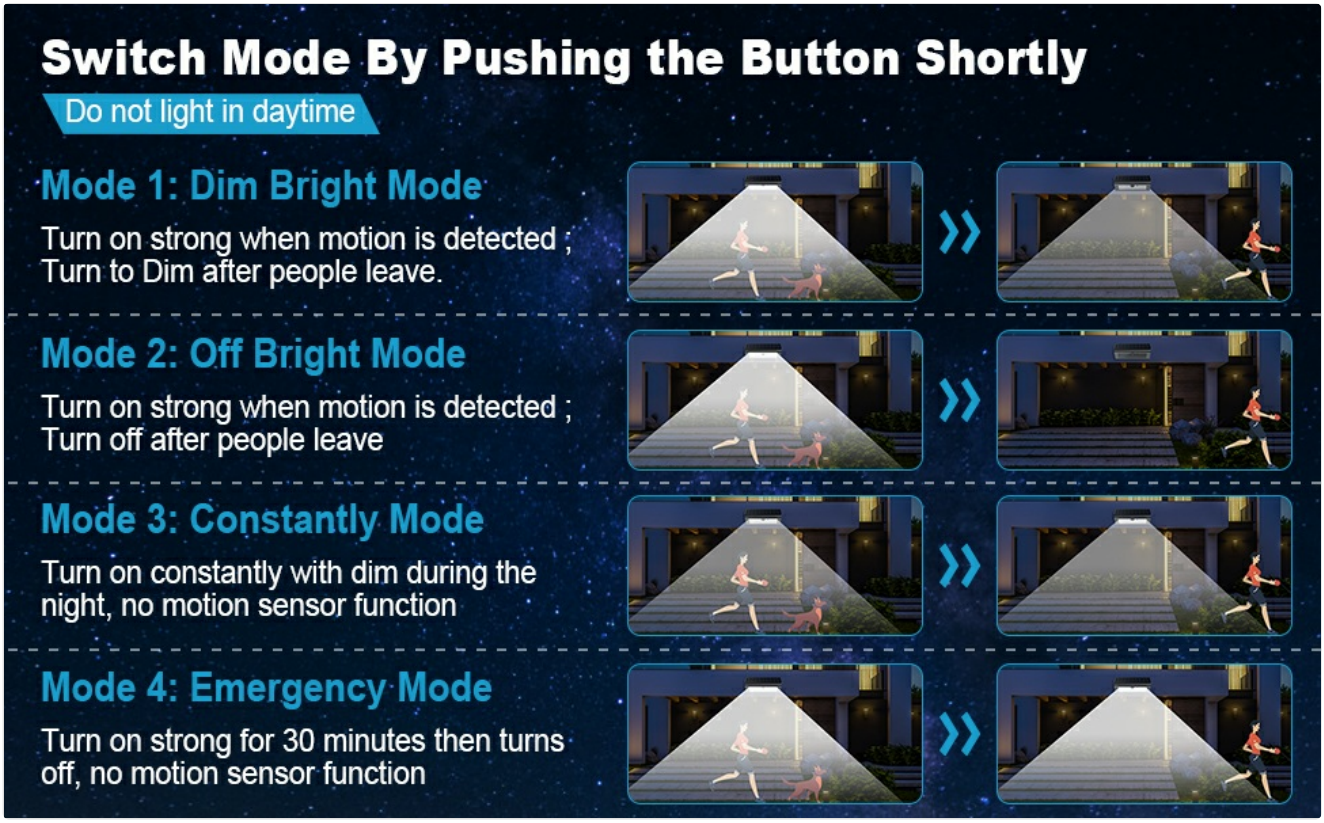


Figure 8: How to Switch Between Modes

6. Maintenance

To ensure the longevity and optimal performance of your solar light, follow these maintenance guidelines:

- **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.
- **Clear Obstructions:** Ensure no trees, bushes, or other objects are blocking direct sunlight from reaching the solar panel.
- **Check Mounting:** Periodically inspect the mounting screws and ensure the light remains securely attached to the surface.
- **Battery Care:** The pre-installed lithium metal battery is designed for long life (over 5 years) and does not require replacement under normal conditions. Avoid extreme temperatures that could affect battery performance.

7. Troubleshooting

If you encounter issues with your SECUROAD HBT-1606 solar light, refer to the following common solutions:

- **Light Does Not Turn On at Night:**
  - Ensure the light is switched ON and in the desired operating mode.
  - Verify the solar panel is receiving sufficient direct sunlight during the day (6-8 hours recommended).
  - Check for any light sources nearby that might be triggering the light sensor, preventing it from activating at night.
- **Motion Sensor Not Responding:**
  - Ensure the light is in Mode 1 (Dim-Bright) or Mode 2 (Off-Bright) for motion detection.

- Clean the motion sensor lens to remove any obstructions.
- Confirm the motion is within the 120-degree detection angle and 26-foot range.

- **Light Duration is Short:**
  - The battery may not be fully charged. Ensure the solar panel receives adequate direct sunlight.
  - Extreme cold weather can reduce battery performance.

8. Specifications

Feature	Specification
Brand	SECUROAD
Model Name	HBT-1606
Light Source Type	LED
Number of Light Sources	46
Brightness	1100 Lumens (Max)
Color Temperature	6000 Kelvin (Daylight)
Power Source	Solar Powered
Battery	1 x 4500mAh Lithium Metal (18650 type, included)
Battery Life	Up to 12 hours continuous lighting; >5 years battery lifespan
Material	Aluminum Alloy Housing
Water Resistance Level	IP65 Waterproof
Motion Sensor Range	120 degrees, up to 26 feet
Product Dimensions	3.3"L x 4.1"W x 9.1"H
Item Weight	1.21 pounds
Installation Type	Flush Mount (Wall Mount)
Control Method	Push Button
Certification	FCC
UPC	738920192474



Figure 9: Product Dimensions

9. Warranty and Support

The SECUROAD HBT-1606 Solar LED Motion Sensor Light comes with a**5-year warranty**. Additionally, the product includes **lifetime product support**. For any inquiries or assistance, please refer to the contact information provided in your product packaging or visit the official SECUROAD website.

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Details

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