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SECUROAD HBT-1619

SECUROAD HBT-1619 Solar LED Motion Sensor Light Instruction Manual

Model: HBT-1619

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your SECUROAD HBT-1619 Solar LED Motion Sensor Light. Please read this manual thoroughly before use to ensure proper function and longevity of your product.



Image 1.1: SECUROAD HBT-1619 Solar LED Motion Sensor Light

2. What's in the Box

Verify that all components are present before proceeding with installation:

- SECUROAD HBT-1619 Solar LED Motion Sensor Light (with pre-installed 32650 Lithium Metal battery)
- Mounting Kit (screws and wall anchors)
- Instruction Manual



Image 2.1: Product components and dimensions. Includes solar panels, on/off switch, infrared sensor, and 48 LED beads.

3. Product Features

- **High Brightness:** Equipped with 48 high-quality LED beads, providing 900 lumens of illumination, covering over 600 square feet.
- **Efficient Solar Charging:** Features a 4500mAh lithium-ion phosphate battery and a polycrystalline silicone solar panel with IP65 structure and PET lamination for faster charging and up to 12 hours of continuous lighting.
- **Durable Construction:** Made from industrial rubber alloy material for corrosion resistance and a UV-resistant, anti-yellowing, heat-resistant PVC lampshade, suitable for harsh outdoor environments.
- **Adjustable Mounting:** The adjustable bracket allows for optimal positioning of the solar panel for maximum sunlight exposure and flexible light direction.
- **Advanced Motion Sensing:** Built-in PIR motion sensor detects movement up to a 120-degree angle and an extended range of 26 feet.

- **Multiple Lighting Modes:** Offers 4 distinct working modes to suit various lighting needs.
- **Weather Resistance:** IP65 waterproof rating ensures reliable operation in various weather conditions.

4. Setup and Installation

4.1 Initial Charge

Before first use, ensure the solar light is fully charged. Place the light in direct sunlight for at least 5 hours. The light will automatically begin charging when exposed to sunlight.



Image 4.1: Solar panel charging during the day for dusk to dawn operation.

4.2 Mounting Location Selection

Choose a location that receives ample direct sunlight throughout the day for optimal charging. Ensure the area where light is desired is within the motion sensor's detection range.

4.3 Installation Steps

1. Mark the desired mounting position on the wall.
2. Drill holes at the marked positions. Insert wall anchors if necessary.
3. Secure the mounting bracket to the wall using the provided screws.
4. Attach the solar light to the bracket. Adjust the angle of the light and solar panel for optimal coverage and sunlight exposure. Do not overtighten the screws on the adjustable bracket to allow for future adjustments.



Image 4.2: Visual guide for mounting the solar light.



Image 4.3: The adjustable bracket allows for flexible positioning of the light.

5. Operating Modes

The SECUROAD HBT-1619 features 4 distinct lighting modes, selectable via a single button on the unit. Press the button to cycle through the modes.

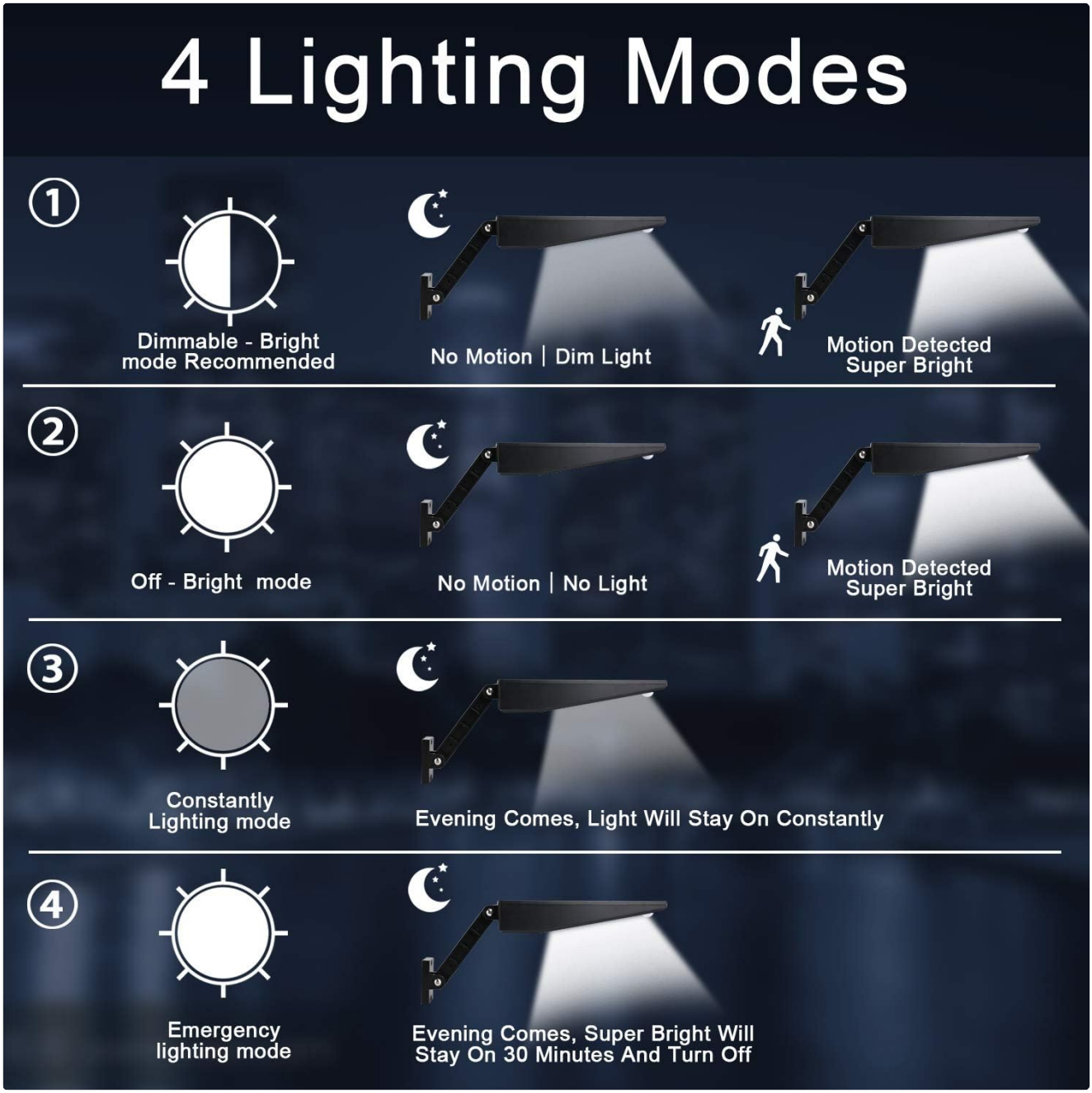


Image 5.1: Illustration of the four available lighting modes.

- **Mode 1: Dim-Bright Mode (Recommended)**
  The light stays dim at night and brightens to full intensity when motion is detected. It returns to dim after approximately 15-30 seconds of no motion.
- **Mode 2: Off-Bright Mode**
  The light remains off at night and turns on to full intensity when motion is detected. It turns off after approximately 15-30 seconds of no motion.
- **Mode 3: Constant Lighting Mode**
  The light stays on at a constant, moderate brightness throughout the night, regardless of motion.
- **Mode 4: Emergency Lighting Mode**
  The light activates at full brightness for 30 minutes when evening comes, then turns off automatically.



Image 5.2: The mode selection button is located on the front of the unit.

6. Maintenance

- **Cleaning:** Regularly clean the solar panel surface with a soft, damp cloth to remove dust, dirt, or debris. This ensures maximum sunlight absorption and charging efficiency.
- **Battery:** The integrated lithium-ion phosphate battery is designed for long life. If the light's performance significantly degrades after several years, the battery may need replacement. Contact customer support for guidance.
- **Environmental Factors:** Ensure no obstructions (e.g., tree branches, eaves) block direct sunlight from reaching the solar panel.

7. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient solar charge.	Ensure the solar panel is in direct sunlight for at least 5 hours during the day. Clean the solar panel.
Light is dim or flickers.	Low battery charge or dirty solar panel.	Allow for a full day's charge. Clean the solar panel.
Motion sensor not detecting.	Sensor obstructed or incorrect mode.	Ensure the sensor is clear of obstructions. Cycle through modes to confirm correct setting.
Light turns off too quickly.	Motion sensor timeout setting.	This is normal behavior for motion-activated modes (Mode 1 & 2). If constant light is desired, select Mode 3.

8. Specifications

Feature	Detail
Brand	SECUROAD
Model Number	HBT-1619
Light Source Type	LED (48 beads)

Feature	Detail
Brightness	900 Lumens
Color Temperature	6000 Kelvin (Cool White)
Power Source	Solar Powered
Battery	1 x 4500mAh Lithium Metal (Type 32650)
Material	Industrial rubber alloy (PC+ABS), PVC lampshade
Product Dimensions	10.6"L x 3.9"W x 1.8"H
Item Weight	1.17 pounds
Water Resistance Level	IP65 Waterproof
Motion Sensor Detection Angle	120 degrees
Motion Sensor Detection Range	Up to 26 feet
Control Method	Push Button
Installation Type	Flush Mount / Side-mount
Recommended Use	Outdoor use for Fence, House, Porch, Patio, Yard, Deck, Driveway, Garden, Garage
Certification	FCC
UPC	632088659223

9. Warranty and Support

The SECUROAD HBT-1619 Solar LED Motion Sensor Light comes with a 60-day money-back guarantee and a 2-year warranty. Lifetime product support is also provided.
For warranty claims, technical assistance, or any questions regarding your product, please contact SECUROAD customer service. Refer to your purchase documentation for specific contact details.

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