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› [CLY LED Security Lights Motion Sensor Light Outdoor, 60W 5200LM High Bright Flood Light Outdoor 5000K Motion Security Light, IP66 Waterproof LED Outdoor Light 1.5M Cord with Plug for Yard Porch Garage 60.0 Watts User Manual](#)

CLY 60BP-DW21

CLY LED Security Light with Motion Sensor

Model: 60BP-DW21 | Brand: CLY

1. INTRODUCTION

Thank you for choosing the CLY LED Security Light with Motion Sensor. This 60W, 5200LM outdoor flood light is designed to provide bright, energy-efficient illumination and enhanced security for your yard, porch, garage, and other outdoor areas. Featuring an upgraded smart motion sensor and IP66 waterproof rating, this light is built for reliable performance in various environmental conditions. This manual will guide you through the installation, operation, and maintenance of your new security light.



Image 1.1: The CLY LED Security Light with Motion Sensor, showing the main light unit, integrated motion sensor, and power cord with plug.

2. IMPORTANT SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Electrical Safety:** Ensure the power supply is disconnected before installation or maintenance. This product uses a standard plug; do not modify the plug or use it with an ungrounded outlet.
- **Installation Environment:** Install the light in a stable location that can support its weight. Avoid installing near flammable materials or in areas with excessive vibration.
- **Waterproof Rating:** The light unit has an IP66 waterproof rating, and the sensor head is IP65. While designed for outdoor use, ensure all connections are secure and protected from direct water ingress during installation.
- **Temperature:** Do not operate the light outside its specified temperature range.
- **Light Source:** Do not stare directly into the LED light source when it is illuminated, as this may cause

eye strain or damage.

- **Maintenance:** Only perform maintenance when the light is cool and disconnected from power. Do not attempt to disassemble the light unit or sensor beyond what is described in this manual.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- CLY LED Security Light with Motion Sensor (1 unit)
- Mounting Bracket (pre-attached)
- Installation Screws and Wall Anchors (1 set)
- User Manual (this document)

4. SPECIFICATIONS

Feature	Specification
Model Number	60BP-DW21
Wattage	60W
Lumen Output	5200LM
Color Temperature	5000K (Daylight White)
Beam Angle	120°
Motion Sensor Detection Range	0-12 meters
Motion Sensor Detection Angle	180°
Adjustable Lighting Time	10s / 45s / 120s / 600s
Waterproof Rating (Light)	IP66
Waterproof Rating (Sensor)	IP65
Power Source	Corded Electric (1.5M cable with plug)
Material	Plastic-clad aluminum
Product Dimensions	58.42 x 41.91 x 19.05 cm (approx. 17L x 2W x 11H Centimetres for light head)
Weight	750 g
Lifespan	50,000 Hours



Image 4.1: Detailed dimensions of the CLY LED Security Light.

5. SETUP AND INSTALLATION

Follow these steps to properly install your CLY LED Security Light.

1. **Choose Installation Location:** Select a suitable outdoor location, such as a wall, eave, or pole, where the light can provide optimal coverage. The recommended installation height is 5-7 meters (approximately 16-23 feet) for best motion detection and light spread.
2. **Mark Drilling Points:** Hold the pre-attached mounting bracket against the desired surface and mark the positions for drilling holes using a pencil.
3. **Drill Holes:** Use an appropriate drill bit to drill holes at the marked positions. Insert the wall anchors if installing on masonry or concrete.
4. **Mount the Bracket:** Align the mounting bracket with the drilled holes and secure it firmly using the provided screws.
5. **Adjust Light Angle:** The light unit can be adjusted up to 180° on its bracket. Loosen the side screws, tilt the light to the desired angle, and then tighten the screws to secure it.

6. **Adjust Sensor Angle:** The motion sensor head can rotate 360° horizontally and 180° vertically. Adjust its position to cover the desired detection area.
7. **Connect Power:** Plug the 1.5-meter power cord into a standard outdoor electrical outlet. Ensure the outlet is weather-protected.



Image 5.1: Illustration of the 120° beam angle, 180° detection range, and ideal mounting height (5-7M) for optimal performance.



6. OPERATING INSTRUCTIONS

The CLY LED Security Light features an upgraded motion sensor with intuitive button controls for setting lighting duration and sensitivity.

6.1. Sensor Settings

The sensor has two main settings controlled by buttons on the sensor unit:

- **Lighting Time Setting (L Button):** This button controls how long the light stays on after motion is detected and no further motion is sensed. Press the 'L' button to cycle through the available durations:
 - **10s:** Light stays on for 10 seconds.
 - **45s:** Light stays on for 45 seconds.
 - **120s:** Light stays on for 120 seconds (2 minutes).
 - **600s:** Light stays on for 600 seconds (10 minutes).
- **Sensitivity Setting (M Button):** This button controls when the motion sensor is active based on ambient light levels. Press the 'M' button to select:
 - **Moon Icon (Only Night):** The motion sensor will only activate and turn on the light when it is dark (nighttime).
 - **Sun Icon (Day and Night):** The motion sensor will activate and turn on the light regardless of ambient light conditions (works both day and night).



Image 6.1: Close-up of the motion sensor unit showing the 'L' button for lighting time and 'M' button for sensitivity settings.



Image 6.2: Visual comparison of the sensor's operation in 'Only Night' mode versus 'Day and Night' mode.

6.2. Initial Operation

Once plugged in and settings are configured, the light will operate according to the chosen motion sensor settings. When motion is detected within the 0-12 meter, 180° sensing range, the light will illuminate for the set

duration.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your CLY LED Security Light.

- **Cleaning:** Periodically clean the light fixture and sensor lens with a soft, damp cloth. Do not use abrasive cleaners or solvents, as they may damage the finish or sensor. Ensure the light is unplugged before cleaning.
- **Inspection:** Regularly inspect the power cord for any signs of damage, fraying, or wear. Check the mounting screws to ensure they remain tight and secure.
- **Weather Resistance:** The light is designed with IP66 waterproof technology and constructed from plastic-clad aluminum for good heat dissipation and corrosion resistance, ensuring durability in rain, snow, heat, and frost.



Image 7.1: Visual representation of the light's IP66 waterproof rating and resistance to various weather conditions like rain, heat, and snow.

8. TROUBLESHOOTING


If you encounter issues with your CLY LED Security Light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	No power; Sensor sensitivity set to 'Moon' during daytime; Sensor obstructed; Motion outside detection range.	Check power connection; Change sensitivity to 'Sun' for day/night operation; Clear obstructions from sensor; Adjust sensor angle or light placement.
Light stays on continuously.	Continuous motion in detection area; Sensor malfunction.	Ensure no constant motion (e.g., swaying branches, pets) is triggering the sensor; If problem persists, contact customer support.
Light turns on for too short/long a duration.	Incorrect lighting time setting.	Adjust the 'L' button setting on the sensor to the desired duration (10s, 45s, 120s, 600s).
Light flickers or is dim.	Unstable power supply; Damaged light unit.	Check power source stability; If problem persists, contact customer support.
Sensor is too sensitive or not sensitive enough.	Sensor angle or placement.	Adjust the sensor head's angle to narrow or widen the detection area. Ensure it's not pointing at heat sources or reflective surfaces.

9. WARRANTY AND SUPPORT

CLY is committed to providing high-quality products. While specific warranty details are not provided in this manual, if you encounter any problems with your CLY LED Security Light, please do not hesitate to contact our customer support team. We are dedicated to ensuring your satisfaction.

For assistance, please refer to the contact information provided on the product packaging or the retailer's website where you purchased the product.

	CLY LED Floodlights and Spotlights - Product Overview and Specifications Comprehensive overview of CLY LED floodlights and spotlights, including technical specifications, features, and installation guidance. Featuring durable, high-lumen lighting solutions for outdoor and industrial applications.
	CLY 30W Solar LED Floodlight with Motion Sensor - B04-21PFL0304-C-D Outdoor IP66 Lighting Discover the CLY 30W Solar LED Floodlight (Model B04-21PFL0304-C-D). This IP66 waterproof outdoor light features a 2600LM output, motion sensor, and adjustable color temperature for versatile security and area lighting.
	CLY High Voltage Remote Control Induction Floodlight Manual This document provides instructions and specifications for the CLY High Voltage Remote Control Induction Floodlight, model B04-23RFLB-C-A. It covers installation, operation, and technical details for various models.
	Monster ClarityHD Precision Micro Bluetooth Speaker 100 User Guide and Warranty Comprehensive user guide and warranty information for the Monster ClarityHD Precision Micro Bluetooth Speaker 100, detailing features, specifications, setup, pairing, troubleshooting, and warranty terms.
	Monster ClarityHD Precision Micro Bluetooth Speaker 100 User Guide and Warranty Comprehensive user guide and warranty information for the Monster ClarityHD Precision Micro Bluetooth Speaker 100, covering features, specifications, setup, pairing, troubleshooting, and limited warranty details.
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