

## CLY FLB050

# CLY 50W LED Motion Sensor Security Light Instruction Manual

Model: FLB050

## 1. INTRODUCTION

Thank you for purchasing the CLY 50W LED Motion Sensor Security Light. This manual provides essential information for the safe installation, operation, and maintenance of your new security light. Please read these instructions thoroughly before installation and retain them for future reference.



Image 1.1: CLY 50W LED Motion Sensor Security Light. This image displays the complete security light unit, including the main LED panel, the motion sensor, the attached 1.5-meter power cord with a plug, and mounting screws.

## 2. SAFETY INFORMATION

- Always disconnect power before installation or servicing.
- Installation should be performed by a qualified electrician if you are unsure about electrical wiring.
- Ensure the mounting surface can support the weight of the fixture.
- Do not look directly into the LED light source when illuminated, as it may cause eye strain or damage.
- This product is designed for outdoor use and is IP66 waterproof (IP65 for the sensor). Ensure all connections are secure and protected from moisture.
- Do not modify the product in any way, as this may void the warranty and create safety hazards.

### 3. PACKAGE CONTENTS

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Verify that all components are present before installation:

- CLY 50W LED Motion Sensor Security Light (1 unit)
- Mounting Bracket (pre-attached)
- Mounting Screws and Wall Plugs (typically 3 sets)
- Instruction Manual (this document)

### 4. PRODUCT FEATURES

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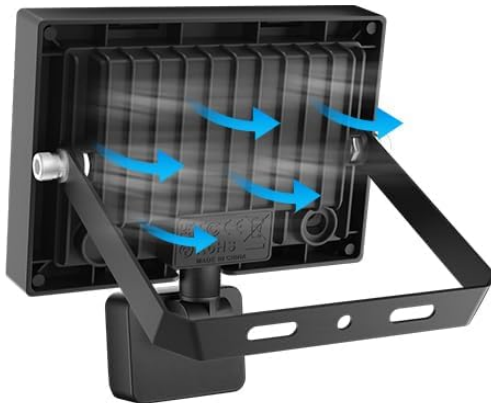
- **Power:** 50W LED
- **Brightness:** 4700 Lumens
- **Color Temperature:** 6500K (Daylight White)
- **Lighting Angle:** 120°
- **Motion Sensor:** Infrared Human Body Induction (PIR)
- **Sensing Distance:** Up to 12 meters
- **Fixed Lighting Time:** 30 seconds per activation
- **Operating Mode:** Night-only operation (fixed, non-adjustable)
- **Waterproof Rating:** IP66 (light fixture), IP65 (sensor)
- **Cable Length:** 1.5 meters with standard plug
- **Material:** Plastic-clad aluminum for enhanced heat dissipation and corrosion resistance
- **Adjustable Bracket:** 180° rotation for flexible installation

# **Good Quality Security Lights**



## ***High-Quality Nanomaterials***

Nanomaterials are stronger, more transparent, have better light penetration, and are brighter



## ***Excellent Heat Dissipation***

Plastic-coated aluminum material, lighter and thinner, better heat dissipation and corrosion resistance



## ***1.5M Cable with Plug***

Image 4.1: Key features of the CLY security light. This image highlights the use of high-quality nanomaterials for light penetration, the excellent heat dissipation design of the plastic-clad aluminum body, and the convenience of the 1.5-meter cable with a plug.

## **5. SETUP AND INSTALLATION**

The CLY 50W LED Motion Sensor Security Light is designed for straightforward installation with its pre-attached bracket and plug-in cord.

### **5.1 Recommended Installation Height**

For optimal motion detection and lighting coverage, the recommended installation height is between 5 to 7 meters

(approximately 16 to 23 feet) from the ground.

## 5.2 Mounting Instructions

1. **Choose Location:** Select a suitable outdoor location that provides the desired lighting coverage and motion detection area. Ensure the location is within reach of a power outlet for the 1.5M cord.
2. **Mark Drilling Points:** Hold the mounting bracket against the desired surface (wall, ceiling, or ground) and mark the positions for the mounting screws.
3. **Drill Holes:** Drill holes at the marked positions. Insert the provided wall plugs if installing into masonry or concrete.
4. **Secure Fixture:** Align the bracket with the drilled holes and secure the light fixture using the provided screws. Ensure it is firmly attached.
5. **Adjust Angle:** Loosen the screws on the side of the bracket to adjust the light's angle (up to 180°) for optimal illumination. Tighten the screws once the desired angle is set.
6. **Connect Power:** Plug the 1.5M power cord into a suitable outdoor electrical outlet.

# **Fixed Lighting Mode**

**NOT Adjustable for Light Time or Night/Day Setting**

**TIME** 30s Lighting Time(Fixed)



30S OFF



**MODE** Only Work at Night(Fixed)



Image 5.1: This image illustrates the product dimensions (16cm width, 18cm height), the 180-degree adjustable bracket, and three common installation methods: ceiling, wall, and ground installation.

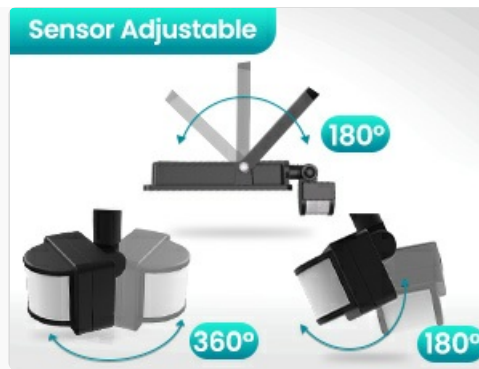


Image 5.2: This image demonstrates the adjustability of the motion sensor, showing its ability to tilt 180 degrees and rotate 360 degrees for precise detection area coverage.

## 6. OPERATING INSTRUCTIONS

The CLY 50W LED Motion Sensor Security Light features a simplified, fixed operating mode for ease of use and energy efficiency.

### 6.1 Automatic Operation

- **Night-Only Activation:** The motion sensor is designed to operate exclusively at night. It will not activate during daylight hours.
- **Fixed Lighting Duration:** Upon detecting motion, the light will illuminate for a fixed duration of 30 seconds. This duration is not adjustable.
- **No Manual Adjustment:** There are no buttons or settings to adjust the lighting time or the day/night sensor. The unit is designed for immediate use after installation.



# 30S Lighting Time 50W Super Bright Security Light

Bring Brightness and Safety to your Family

63 LED  
Super Bright

50W=  
400W

6500K  
Cold White

4700LM

Only Work at  
Night (Fixed)

30S Lighting  
Time (Fixed)

Detection Range: 180°

Lighting Range: 120°

0-12M sensing distance (Not Adjustable)

Recommended Installation Height: 5M-7M

Optimal Lighting Area: >8\*8M²

Image 6.1: This image demonstrates the fixed operating mode. It shows the light activating for 30 seconds upon motion detection at night and remaining off during the day, emphasizing the non-adjustable nature of these settings.

## 6.2 Motion Sensor Sensitivity

The PIR (Passive Infrared) motion sensor is sensitive and designed to detect human body movement up to 12 meters away within a 180° detection range. Ensure the sensor is not obstructed by objects or foliage for optimal performance.

## 7. MAINTENANCE



The CLY 50W LED Motion Sensor Security Light requires minimal maintenance.

- **Cleaning:** Periodically clean the light fixture and sensor lens with a soft, damp cloth to remove dust, dirt, or debris. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the power cord and plug for any signs of damage. Ensure the mounting screws remain tight.
- **Obstructions:** Keep the area around the motion sensor clear of any obstructions that might block its detection range.

## 8. TROUBLESHOOTING

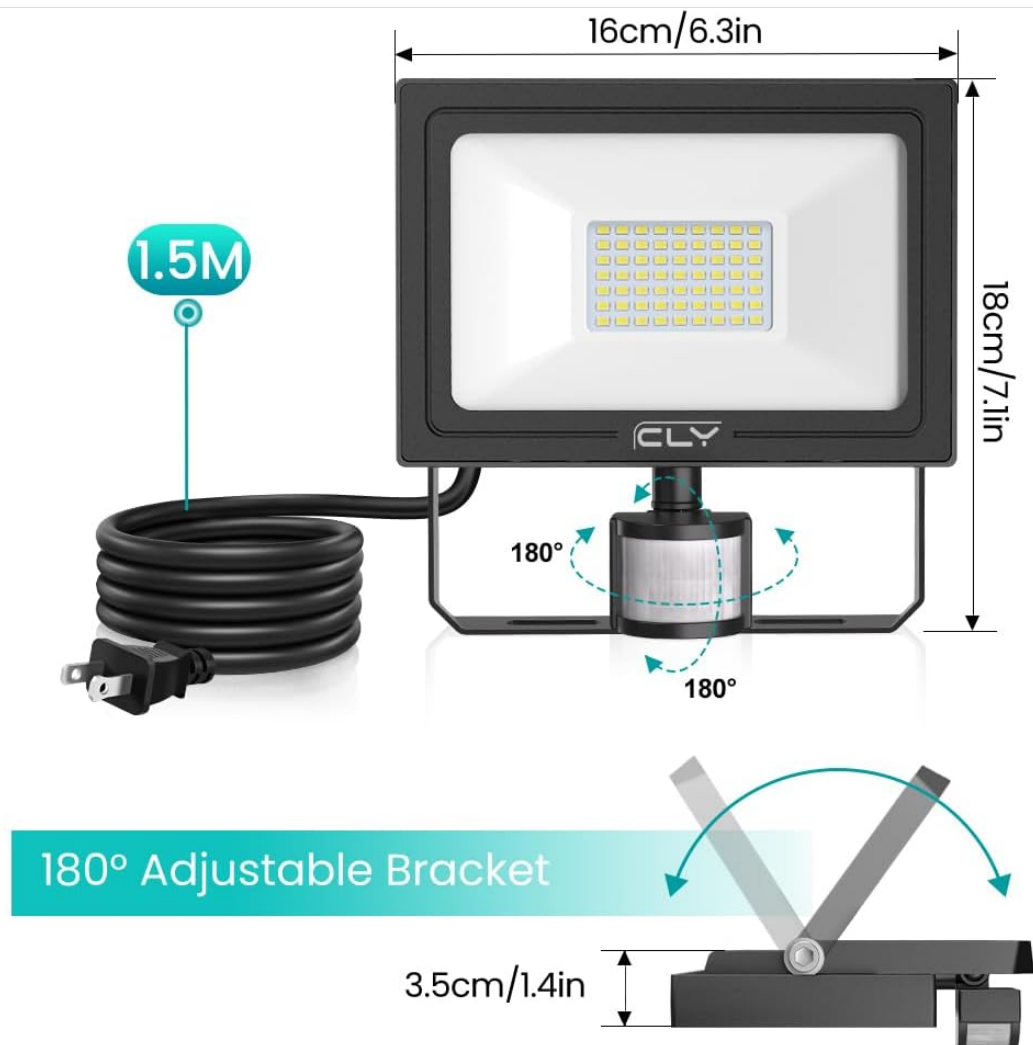
If you encounter issues with your CLY security light, refer to the following common solutions:

Problem	Possible Cause	Solution
Light does not turn on at night.	No power; sensor obstructed; faulty unit.	Check power connection. Ensure sensor is clear. Test in a dark environment. If issues persist, contact support.
Light stays on continuously.	Constant motion detected; sensor malfunction.	Ensure no continuous motion in the detection zone (e.g., swaying branches). If the problem persists, the sensor may be faulty.
Light turns on during the day.	This model is designed for night-only operation. If it activates during the day, there might be a sensor malfunction.	Verify ambient light conditions. If it consistently activates in bright daylight, contact support.
Motion detection range is poor.	Sensor obstructed; incorrect installation height/angle; environmental factors.	Clear any obstructions. Adjust the sensor angle. Ensure installation is within the recommended 5-7M height.

## 9. SPECIFICATIONS

Feature	Detail
Model Number	FLB050
Power	50W
Luminous Flux	4700 Lumens
Color Temperature	6500K (Daylight White)
LED Beads	63 SMD LEDs
Lighting Angle	120°
Motion Sensor Type	PIR (Passive Infrared)
Motion Detection Range	0-12 meters
Motion Sensor Angle	180°

Feature	Detail
Fixed Lighting Time	30 seconds
Operating Mode	Night-only (fixed)
Waterproof Rating	IP66 (light), IP65 (sensor)
Power Source	Corded Electric
Cable Length	1.5 meters
Material	Plastic-clad aluminum
Product Dimensions	17.02 x 5.84 x 18.54 cm (6.7 x 2.3 x 7.3 inches)
Weight	640 g (1.41 lbs)
Manufacturer	Shenzhen Oumeike Lighting Technology Co., Ltd
Country of Origin	China



## Multiple Installation Methods



**Ceiling Installation**



**Wall Installation**




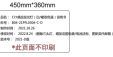

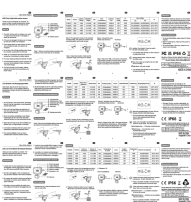


**Ground Installation**

Image 9.1: This image highlights the durability features of the CLY security light, including its IP66 waterproof rating, and resistance to both heat and cold, making it suitable for various outdoor weather conditions.

## 10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact the retailer where the product was acquired. Keep your proof of purchase for warranty claims.

Related Documents - FLB050

	<a href="#">CLY LED Floodlights and Spotlights - Product Overview and Specifications</a> 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.
	<a href="#">CLY 30W Solar LED Floodlight with Motion Sensor - B04-21PFL0304-C-D   Outdoor IP66 Lighting</a> 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.
	<a href="#">CLY High Voltage Remote Control Induction Floodlight Manual</a> 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.
	<a href="#">Oumeike B04-25FLB-P003-B LED Flood Light with Motion Sensor - Manual &amp; Specs</a> User manual and technical specifications for the Oumeike B04-25FLB-P003-B LED Flood Light with Motion Sensor. Features include installation guide, component details, parameter table, and maintenance tips.
	<a href="#">CLY LED Floodlights and Spotlights - Product Overview and Specifications</a> 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.
	<a href="#">CLY 30W Solar LED Floodlight with Motion Sensor - B04-21PFL0304-C-D   Outdoor IP66 Lighting</a> 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.

Documents - CLY – FLB050



[CLY High Voltage Remote Control Induction Floodlight Manual](#)

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