

iMaihom BDD100G-3

iMaihom 100W Motion Sensor LED Security Floodlight (Model BDD100G-3) Instruction Manual

Model: BDD100G-3

1. INTRODUCTION

Thank you for choosing the iMaihom 100W Motion Sensor LED Security Floodlight. This product is designed to provide bright, energy-efficient outdoor lighting with advanced motion detection capabilities. Please read this manual thoroughly before installation and use to ensure proper operation and safety.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power at the fuse or circuit breaker before installation or servicing.

- Ensure the power supply is turned off before beginning installation.
- Installation should be performed by a qualified electrician or a person with electrical experience.
- Do not connect to a dimmer switch.
- This product is designed for outdoor use and is rated IP65 waterproof. However, avoid submerging the unit in water.
- Do not look directly into the LED light source when illuminated, as it may cause eye damage.
- Ensure the mounting surface can support the weight of the fixture.

3. PACKAGE CONTENTS

Verify that all components are present before installation:

- iMaihom 100W Motion Sensor LED Security Floodlight
- Mounting Hardware (screws, wire nuts)
- Instruction Manual

4. PRODUCT FEATURES

- **High Brightness & Energy Efficiency:** 100W power, 9000 Lumens, 6500K Daylight White LED

illumination.

- **Sensitive Motion Detection:** Up to 65.6 ft (20m) sensing distance with a 180° detection angle.
- **Adjustable Lighting Heads:** Three independently adjustable light heads for broad coverage up to 270°.
- **Durable Construction:** Made from die-cast aluminum for efficient heat dissipation and extended lifespan.
- **Weather Resistant:** IP65 waterproof rating ensures reliable operation in various weather conditions.



Image 4.1: The iMaihom floodlight providing 9000 lumens of bright, wide-area illumination.

Sensitive Motion Detector

Flexible motion options



Image 4.2: Illustration of the motion sensor's 180° detection angle and up to 65.6 ft range.

270° Broad Lighting Range

Brings you wider and larger area lighting



Image 4.3: The adjustable heads allow for a broad 270° lighting coverage.

IP65 Waterproof

Not bothered by bad weather



Image 4.4: The IP65 waterproof design ensures functionality in various weather conditions.

Full Metal Design

Durable and stable for long time use



Image 4.5: Internal view highlighting the die-cast aluminum construction for durability and heat management.

5. SPECIFICATIONS

Feature	Specification
Model Number	BDD100G-3
Power	100 Watts
Brightness	9000 Lumens
Color Temperature	6500 Kelvin (Daylight White)
Voltage	120 Volts
Material	Aluminum, Plastic
Water Resistance Rating	IP65
Motion Sensor Detection Angle	180°
Motion Sensor Detection Distance	Up to 65.6 ft (20m)

Feature	Specification
Adjustable Lighting Time	10 seconds to 7 minutes
Product Dimensions (L x W x H)	17.91" x 8.31" x 4.65"
Item Weight	3.01 pounds



Image 5.1: Product dimensions and range of motion for the adjustable light heads.

6. SETUP AND INSTALLATION

This floodlight is designed for hardwired installation. Ensure power is disconnected before proceeding.

6.1 Mounting Options

The fixture can be mounted on a wall, eave, or soffit.



Image 6.1: Examples of wall mount and eave mount installations.

6.2 Wiring Instructions

1. **Turn off Power:** Locate the circuit breaker controlling the light fixture and turn it OFF.
2. **Prepare Mounting Surface:** Ensure the mounting surface is clean and flat. The fixture is designed to fit a standard 4-inch (10cm) junction box.
3. **Attach Mounting Plate:** Secure the mounting plate to the junction box using the provided screws.
4. **Connect Wires:** Connect the household wiring to the fixture's wiring using the provided wire nuts:
 - Connect the **black** (Live) wire from the fixture to the **black** (Live) wire from the household supply.
 - Connect the **white** (Neutral) wire from the fixture to the **white** (Neutral) wire from the household supply.
 - Connect the **green/yellow** (Ground) wire from the fixture to the **green/bare copper** (Ground) wire from the household supply.
5. **Secure Fixture:** Carefully tuck the wires into the junction box and attach the fixture to the mounting plate, ensuring a tight seal.
6. **Adjust Light Heads:** Loosen the screws on the side of each light head to adjust their angle and direction. Tighten the screws once the desired position is achieved.
7. **Restore Power:** Turn the power back ON at the circuit breaker.



Image 6.2: Wiring diagram for connecting the floodlight to your electrical system.

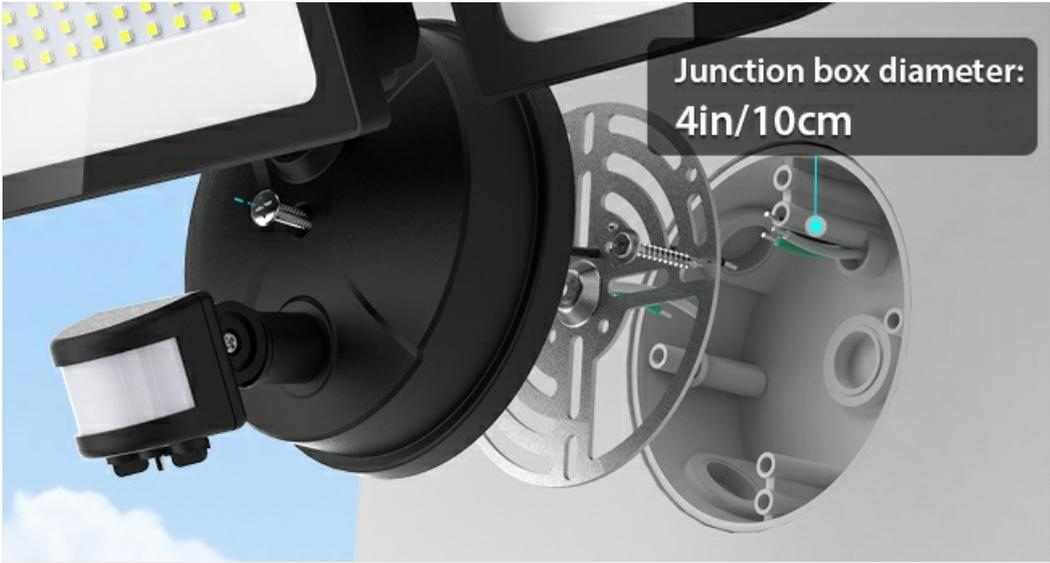


Image 6.3: Detail of the mounting base and junction box compatibility.

7. OPERATING INSTRUCTIONS

The motion sensor has three adjustable dials to customize its operation:

1. **TIME (Lighting Time):** Adjusts how long the light stays on after motion is detected. Range: 10 seconds to 7 minutes.
2. **LUX (Dusk/Night Mode):** Sets the ambient light level at which the sensor becomes active. Turn towards the sun icon for day and night operation, or towards the moon icon for night-only operation.
3. **SENS (Detection Distance):** Controls the sensitivity of the motion sensor, affecting the detection range. Adjust to prevent unwanted triggers.



Image 7.1: Motion sensor adjustment dials for Time, Lux, and Sensitivity.

7.1 Product Overview Video

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Video 7.1: A brief overview demonstrating the features and functionality of the iMaihom 100W Motion Sensor LED Security Floodlight.

8. MAINTENANCE

To ensure optimal performance and longevity of your floodlight:

- **Cleaning:** Periodically clean the light heads and motion sensor lens with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check for any signs of damage to the wiring or housing. If damage is found, disconnect power and consult a qualified electrician.
- **No User-Serviceable Parts:** The LED light source is integrated and not replaceable. Do not attempt to open or repair the fixture.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power; incorrect wiring; LUX setting too high (daylight); faulty sensor.	Check circuit breaker; verify wiring connections; adjust LUX dial; test sensor.
Light stays on continuously.	Constant motion in detection area; TIME setting too long; faulty sensor.	Clear detection area; adjust TIME dial; reposition fixture; test sensor.
Light turns on during the day.	LUX setting too low (towards moon icon).	Adjust LUX dial towards the sun icon.
Motion sensor not detecting.	SENS setting too low; obstruction; incorrect angle; faulty sensor.	Adjust SENS dial; clear obstructions; adjust sensor angle; ensure proper installation height.

10. WARRANTY AND SUPPORT

iMaihom products are manufactured to high-quality standards. For warranty information, technical support, or customer service inquiries, please refer to the contact information provided at the point of purchase or visit the official iMaihom website.