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> [iMaihom 50W Motion Sensor Outdoor Light \(Model IM-50P-3SH\) Instruction Manual](#)

iMaihom IM-50P-3SH

iMaihom 50W Motion Sensor Outdoor Light

MODEL: IM-50P-3SH

Introduction

Thank you for choosing the iMaihom 50W Motion Sensor Outdoor Light. This hardwired LED floodlight provides 5000 lumens of 6500K daylight white light, enhancing security and visibility for your outdoor spaces. Featuring advanced motion detection and a dusk-to-dawn function, this IP65 waterproof light is designed for reliable performance in various weather conditions. Please read this manual thoroughly before installation and operation to ensure proper use and safety.

Safety Information

- Always turn off power at the circuit breaker before installing, servicing, or cleaning the fixture.
- Consult a qualified electrician if you are unsure about the installation process.
- Ensure all electrical connections are made according to local codes and ordinances.
- Do not look directly into the LED light source when illuminated, as it may cause eye damage.
- This product is designed for outdoor use and is IP65 waterproof. However, ensure proper sealing during installation to maintain water resistance.
- Do not attempt to disassemble or modify the fixture, as this will void the warranty and may pose a safety risk.

Package Contents

Verify that all components are present before beginning installation:

- iMaihom 50W Motion Sensor Outdoor Light (1 unit)
- Mounting Bracket (1 unit)
- Wire Nuts (2 units)
- Screws and Expansion Rubber Plugs (various quantities for mounting)

- Gasket (1 unit)
- Instruction Manual (this document)



Figure 1: Included Parts List

Product Features

- **Bright Illumination:** Emits 5000 lumens of 6500K daylight white light for extensive coverage.
- **Advanced Motion Detection:** Features a 180-degree detection angle and a 19–72 ft range, with adjustable lighting duration from 1–10 minutes.
- **Dusk to Dawn Function:** Built-in light sensor automatically turns the floodlight ON at dusk and OFF at dawn.
- **IP65 Waterproof:** Designed to withstand harsh weather conditions, ensuring year-round reliability.
- **Easy Installation:** Simple 3-step hardwired installation process.
- **Adjustable Heads:** Three light heads are 360° adjustable to direct light where needed.

Setup and Installation

Before installation, ensure the power supply is turned off at the circuit breaker to prevent electrical shock.

1. **Remove Old Fixture (if applicable):** Carefully disconnect and remove any existing light fixture from the junction box.
2. **Install Mounting Bracket:** Secure the provided mounting bracket to the junction box using the appropriate screws. Ensure it is firmly attached.
3. **Connect Wiring:** Connect the wires from the new iMaihom light to the household wiring using the included wire nuts. Match colors: black to black (hot), white to white (neutral), and green to ground (bare copper). Wrap electrical tape around wire nuts for added security.
4. **Mount the Light:** Align the light fixture with the mounting bracket and secure it with the long machine screw provided. Ensure the gasket is properly seated between the fixture and the mounting surface to prevent water intrusion.
5. **Adjust Light Heads:** Loosen the Phillips screw on the main head to adjust its angle. The side LED heads can also be articulated to direct light as desired.



Figure 2: Hardwired Installation Steps

2 Mounting Options



Figure 3: Wall Mounted and Soffit Mounted Options

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Video 1: General Installation Guide (Source: Struggleville, an independent creator)

Operating Instructions

The iMaihom motion sensor light offers multiple operating modes and adjustable settings located on the bottom of the motion sensor unit.

Control Dials:

- **TEST Mode (Left Dial):** Used for initial setup and testing. In this mode, the light will turn on for 5 seconds when motion is detected, regardless of ambient light.
- **TIME (Middle Dial):** Adjusts the duration the light stays on after motion is detected, ranging from 10 seconds to 10 minutes.
- **SENSITIVITY (Right Dial):** Controls the detection range of the motion sensor (L: 19-26.2ft, M: 26.2-39.3ft, H: 39.3-72ft). Adjust this to prevent false triggers from small animals or distant objects.

Operating Modes:

- **Motion Sensor Mode:** The light activates only when motion is detected in dark conditions. The duration and sensitivity are set by the TIME and SENSITIVITY dials.
- **Dusk to Dawn Mode (D2D):** The built-in photocell sensor automatically turns the light ON when ambient light levels fall below a certain threshold (dusk) and OFF when light levels rise (dawn). Motion detection is typically overridden or integrated based on specific settings.

Easy Switching

Sensor Mode

"-": light is triggered at night.
"+": light is triggered at sunset/dusk



D2D Mode

D2D: Auto on at dusk, auto off at dawn
L/M/H: Detection Distance



Test Mode

TEST: Auto on for 5 seconds when motion is detected
Timer: 10s-10Min



Figure 4: Control Dials for Settings



Figure 5: Dusk to Dawn Mode Operation

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Video 2: Overview of iMaihom 50W Motion Sensor Outdoor Light Features

Maintenance

- **Cleaning:** Clean the fixture with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the fixture for any signs of damage, loose connections, or wear.
- **Lens Care:** Keep the motion sensor lens clean and free from obstructions (e.g., dirt, spiderwebs) to ensure optimal performance.

Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on.	No power, incorrect wiring, or sensor settings.	Check circuit breaker. Verify wiring connections. Adjust sensor settings (e.g., ensure not in TEST mode if expecting D2D).
Light stays on constantly.	Continuous motion detected, or D2D mode active during daylight.	Check for obstructions in sensor's field of view. Adjust SENSITIVITY dial. Ensure D2D mode is set correctly for ambient light.
Motion sensor is too sensitive/not sensitive enough.	SENSITIVITY dial setting.	Adjust the SENSITIVITY dial to 'L' for less sensitivity or 'H' for more sensitivity.
Light flickers.	Loose wiring connection.	Turn off power and check all wire connections for tightness.

Specifications

Specification	Detail
Brand	iMaihom
Model Name	IM-50P-3SH
Wattage	50 watts
Brightness	5000 Lumens
Color Temperature	6500K (Daylight White)
Material	Aluminum, Plastic
Power Source	Corded Electric
Voltage	120 Volts (AC)
Indoor/Outdoor Usage	Outdoor
Water Resistance Level	IP65 Waterproof
Motion Detection Angle	180 degrees
Motion Detection Range	19–72 ft
Lighting Duration	1–10 minutes (adjustable)
Product Dimensions	9.48"L x 7"W x 4.6"H
Item Weight	1.54 pounds

Warranty and Support

iMaihom products are designed for quality and reliability. For warranty information, technical support, or any questions regarding your product, please refer to the contact information provided with your purchase or visit the official iMaihom website. Keep your purchase receipt as proof of purchase for warranty claims.