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MEIHUA MH-FLB100

MEIHUA 100W LED Motion Sensor Outdoor Light

Model: MH-FLB100

Brand: MEIHUA

1. INTRODUCTION

Thank you for choosing the MEIHUA 100W LED Motion Sensor Outdoor Light. This high-performance floodlight is designed to provide super bright, energy-efficient illumination for various outdoor areas, enhancing security and convenience. Featuring a sensitive motion sensor and durable, waterproof construction, it is built to withstand diverse weather conditions and offer reliable operation.



Image 1: Overview of the MEIHUA 100W LED Motion Sensor Outdoor Light highlighting 160 LED beads, 9000LM, 6500K cold white light, IP66 waterproof rating, PIR sensor, and easy installation.

2. SAFETY INFORMATION

- Always turn off the power at the circuit breaker before installing, servicing, or cleaning the fixture.
- Ensure proper grounding to avoid electrical shock.
- Consult a qualified electrician if you are unsure about the installation process.
- Do not look directly into the LED light source when illuminated, as it may cause eye damage.

- Keep children away from the installation area and electrical components.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before installation:

- MEIHUA 100W LED Motion Sensor Outdoor Light (MH-FLB100)
- Mounting screw accessories
- Instruction Manual

4. PRODUCT FEATURES

- **Super Bright & Energy Saving:** Equipped with 160 high-efficiency lamp beads, providing 9000LM light output and a 6500K color temperature. Replaces 200W traditional incandescent bulbs, saving over 85% electricity.
- **Fixed Lighting Time & Night-Only Operation:** Features a fixed lighting time of 30 seconds and operates only at night. Motion detection distance up to 12 meters.
- **IP66 Waterproof:** Designed to completely prevent the intrusion of foreign objects and dust, capable of withstanding violent waves or strong water spray. Suitable for all extreme weather conditions.
- **Easy Installation:** Comes with mounting screw accessories and a widened, thickened 180° adjustable metal bracket for versatile installation on ceilings or walls.
- **Wide Application:** Ideal for outdoor lighting in garages, gardens, doorways, yards, docks, fences, parking lots, and hallways.



Image 2: Illustration of the LED Flood Light's specifications including a 120° beam angle, recommended mounting height of 6-8 meters, and a lighting range of 7-9 meters.

Working Modes



Image 3: Details on the product's construction, highlighting excellent heat dissipation, a 1.5m cable, and durable nano material.

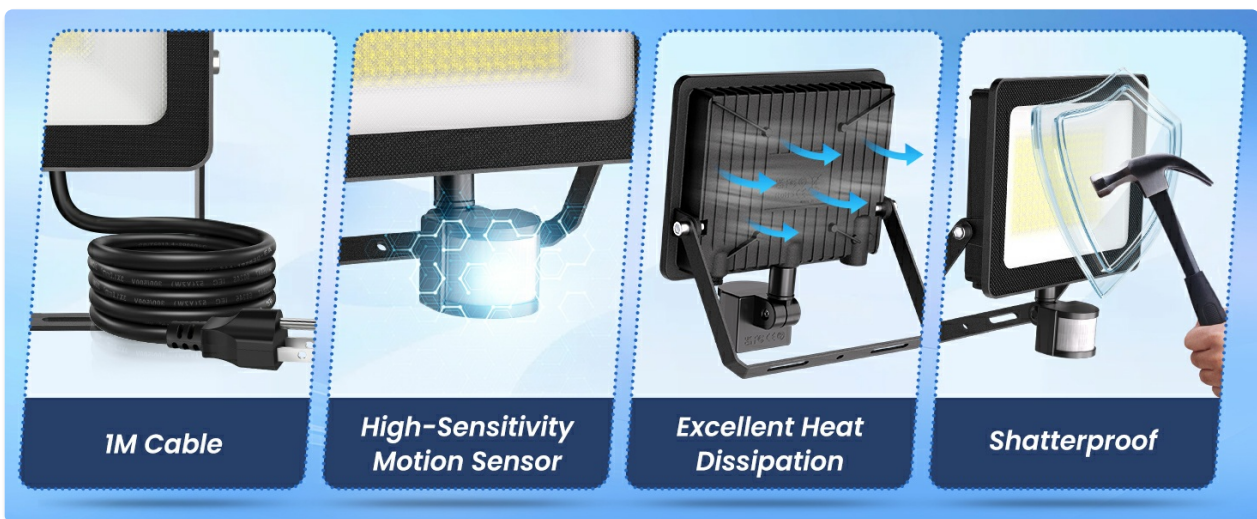


Image 4: Demonstrates the IP66 waterproof rating and resistance to both heat and frost, ensuring durability in various climates.

5. SETUP & INSTALLATION

This floodlight is designed for hardwired installation. Ensure you have basic electrical knowledge or consult a professional for installation.

5.1 Mounting Options

The 180° adjustable metal bracket allows for flexible mounting:

- **On the ceiling:** Mount the bracket to the ceiling and adjust the light downwards.
- **On the wall:** Mount the bracket to a vertical wall surface.
- **On the floor:** Position the light on the ground or a flat surface, adjusting the angle as needed.



Image 5: Visual guide demonstrating various installation methods including ceiling, wall, and floor mounting, along with product dimensions.

5.2 Wiring Instructions

1. Turn off the main power supply at the circuit breaker.
2. Attach the mounting bracket to your desired surface using the provided screws.
3. Connect the electrical wires:
 - Connect the **black wire** (Live) from the fixture to the live wire from your power supply.
 - Connect the **white wire** (Neutral) from the fixture to the neutral wire from your power supply.
 - Connect the **green/yellow wire** (Ground) from the fixture to the ground wire from your power supply.
4. Secure the light fixture to the mounting bracket.
5. Ensure all connections are secure and waterproofed if necessary.
6. Restore power and test the light.

5.3 Video: Easy Installation Guide

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Video 1: A seller-provided video demonstrating the installation process of an outdoor light with a motion sensor. This video illustrates the general steps for mounting and wiring similar floodlights.

6. OPERATING INSTRUCTIONS

The MEIHUA 100W LED Motion Sensor Outdoor Light operates automatically based on motion detection and ambient light conditions.

6.1 Working Mode

The light is designed to work only at night. When motion is detected within its 12-meter range, the light will illuminate for a fixed duration of 30 seconds.



Image 6: Illustrates the working modes, showing that the light only activates at night and has a fixed 30-second lighting time upon motion detection.

6.2 Motion Sensor Functionality

The Passive Infrared (PIR) motion sensor detects movement of heat-emitting objects within its detection zone. Once motion is detected, the light activates. After 30 seconds of no further motion, the light will turn off.

6.3 Video: PIR Motion Detector Explanation

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Video 2: A seller-provided video explaining the functionality of a PIR motion detector, which is similar to the sensor used in this floodlight.

7. MAINTENANCE

- **Cleaning:** Periodically clean the light fixture with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check the wiring and mounting for any signs of wear, damage, or loose connections.
- **Sensor Area:** Ensure the motion sensor lens is clear of obstructions (e.g., dirt, spiderwebs) for optimal performance.

8. TROUBLESHOOTING

- **Light does not turn on:**
 - Check the power supply and circuit breaker.
 - Ensure wiring connections are correct and secure.
 - Verify that the ambient light is dark enough for night-only operation.
 - Test the motion sensor by walking into its detection zone.
- **Light stays on constantly:**
 - Check for continuous motion within the sensor's range (e.g., moving branches, pets).
 - Ensure the sensor is not obstructed or dirty.
- **Light turns on too frequently:**
 - Adjust the sensor's position to avoid detecting unwanted motion sources.

8.1 Video: 100W Motion Sensor Flood Light Functionality

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Video 3: A seller-provided video showcasing the features and operation of a 100W motion sensor floodlight, which can help in understanding its expected behavior.

9. SPECIFICATIONS

Attribute	Value
Brand	MEIHUA
Model Number	MH-FLB100
Wattage	100.0 Watts
Luminous Flux	9000LM
Color Temperature	6500K (Cold White)
Waterproof Rating	IP66
Motion Detection Distance	Up to 12M
Fixed Lighting Time	30 Seconds
Adjustable Bracket	180°
Material	Aluminum
Power Source	Corded Electric
Product Dimensions	21 x 5.5 x 20 cm; 1.04 kg
Indoor/Outdoor Usage	Outdoor

10. WARRANTY & SUPPORT

MEIHUA products are manufactured to high-quality standards. For any questions, concerns, or technical support regarding your 100W LED Motion Sensor Outdoor Light, please contact the seller directly through your purchase platform. They are committed to providing assistance and ensuring customer satisfaction.