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› Willpower 50W LED Floodlight with Motion Sensor User Manual

Willpower YY-FL-XPG50-ZB-RTGY-CA

Willpower 50W LED Floodlight with Motion Sensor User Manual

Model: YY-FL-XPG50-ZB-RTGY-CA

1. INTRODUCTION

Thank you for choosing the Willpower 50W LED Floodlight with Motion Sensor. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new floodlight. Please read this manual thoroughly before installation and retain it for future reference.



Image 1: Front view of the Willpower 50W LED Floodlight with Motion Sensor, showcasing its compact design and integrated motion sensor.

2. SAFETY INFORMATION

- Always disconnect power before installing or servicing the floodlight.
- Installation should be performed by a qualified electrician in accordance with local electrical codes.
- Ensure the power supply voltage matches the product's specified voltage (85V-140V).
- 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 rated for water and dust resistance. However, do not submerge it in water.
- Keep flammable materials away from the floodlight during operation.

3. PRODUCT OVERVIEW

3.1. Components

The Willpower 50W LED Floodlight consists of the main LED light unit, an integrated motion sensor, and an adjustable

mounting bracket.

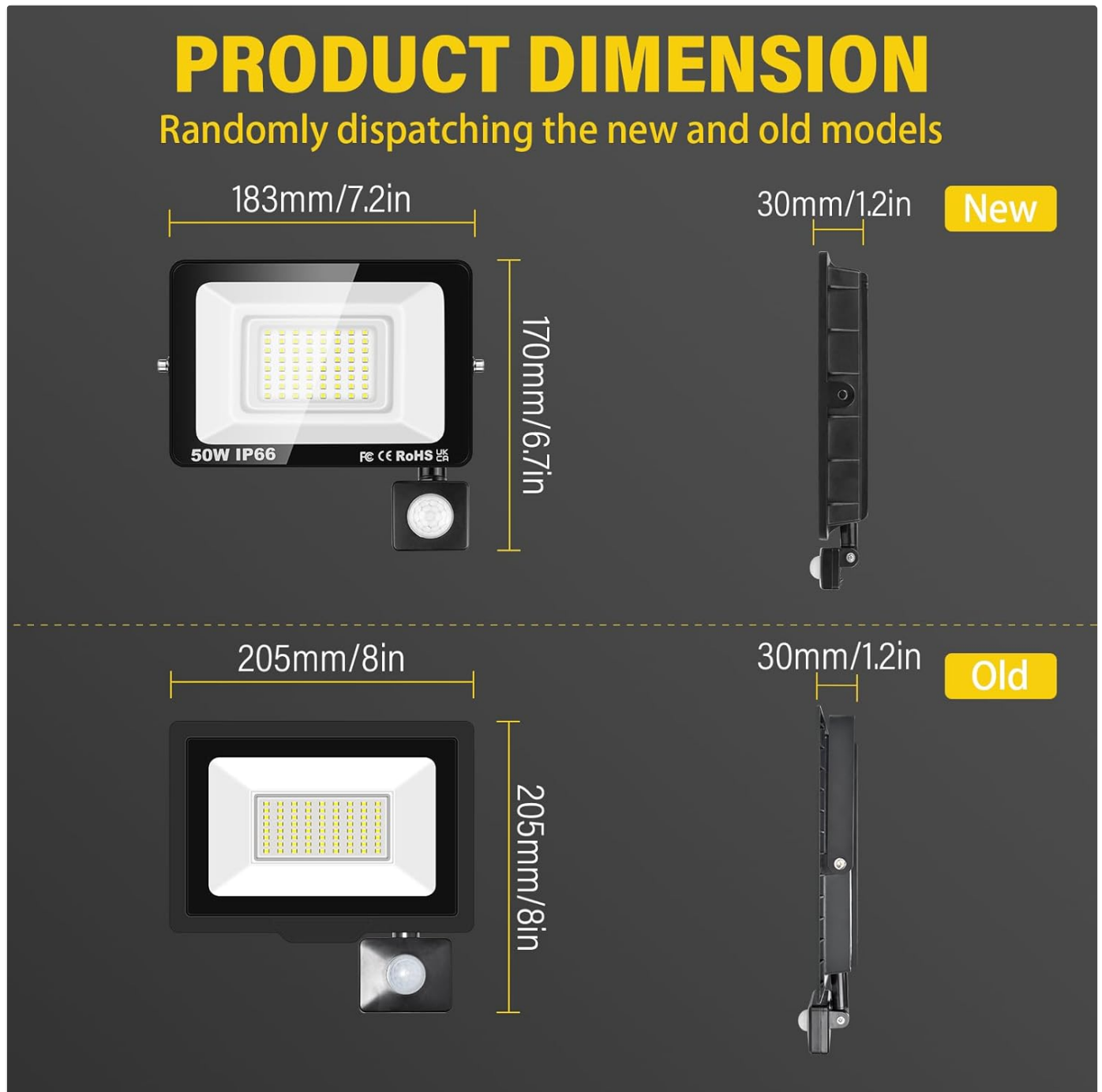


Image 2: Product dimensions for both new and old models, showing approximate sizes of 7.2x6.7 inches (new) and 8x8 inches (old) with a thickness of 1.2 inches.

3.2. Key Features

- **Sensitive Motion Sensor:** The PIR detector offers adjustable settings for lighting time (TIME), motion distance (SENS), and day/night operation (LUX). Motion detection range up to 10 meters, with lighting time adjustable from 5 seconds to 5 minutes.
- **Super Bright Illumination:** Provides up to 5000 lumens of 6000K white light, suitable for illuminating driveways, front doors, backyards, and more. Designed for energy efficiency, saving over 85% on electricity bills.
- **IP66 Waterproof Rating:** Constructed with a durable die-cast aluminum casing and tempered glass, ensuring protection against dust and powerful water jets. Ideal for various outdoor environments including gardens, courtyards, plazas, and piers.
- **Versatile and Easy Installation:** Compact dimensions (approximately 8 x 6 x 1.4 inches) with a 10-inch cable. Features a 180° adjustable bracket for flexible mounting on ceilings, walls, or positioned on the ground.

- **Wide Application:** Suitable for both commercial and residential properties, providing extensive coverage for areas such as garages, villas, parks, billboards, roofs, buildings, streets, and squares.

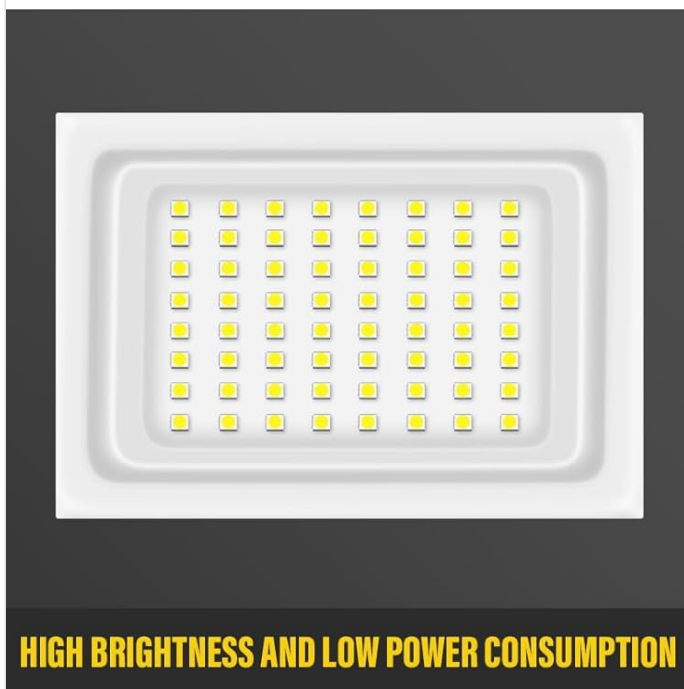
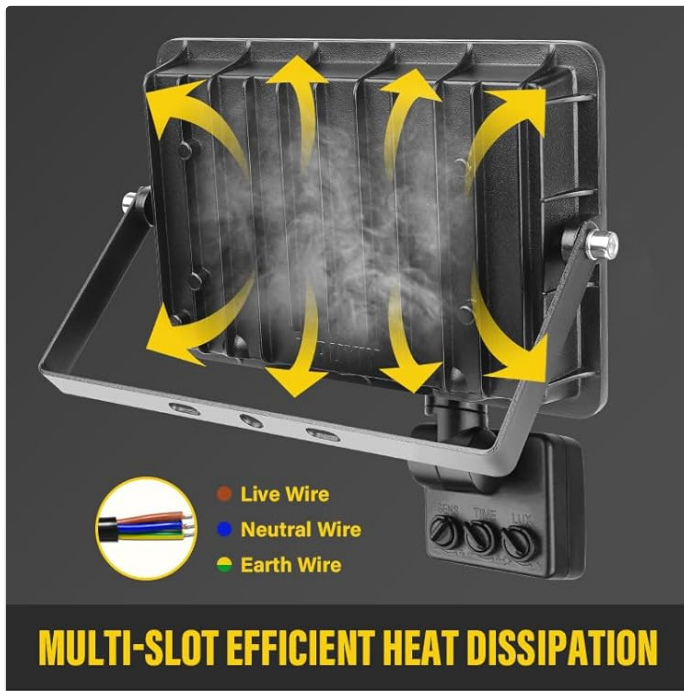



Image 3: Visual representation of key features including multi-slot efficient heat dissipation, 180° adjustable stand, high brightness and low power consumption, and fine-grained tempered glass.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of your floodlight:

1. **Choose Location:** Select a suitable outdoor location for mounting, considering the desired illumination area and motion detection range. The 180° adjustable bracket allows for ceiling, wall, or ground installation.
2. **Mounting:** Securely attach the floodlight using the adjustable bracket to a stable surface. Ensure the mounting is firm to prevent movement.
3. **Wiring:** Connect the floodlight to your electrical system. The cable includes Live (brown), Neutral (blue), and Earth (yellow/green) wires. Ensure correct polarity and a secure earth connection.

4. **Motion Sensor Adjustment:** The motion sensor has three adjustable knobs:
- **LUX (Day/Night Setting):** Rotate towards the moon icon for night-only operation. Rotate towards the sun icon for day and night operation, or in poorly lit indoor areas.
 - **TIME (Lighting Duration):** Adjusts how long the light stays on after motion is detected. Rotate towards "-" for shorter duration (minimum 5 seconds). Rotate towards "+" for longer duration (maximum 10 minutes).
 - **SENS (Sensing Distance):** Controls the motion detection range (4m-10m). Rotate towards "-" to shorten the sensing distance. Rotate towards "+" to increase the sensing distance.
5. **Sensor Orientation:** The motion sensor itself is 360° rotatable horizontally and 180° rotatable vertically, allowing precise aiming for optimal detection.



LUX: Night - Day

Night: Rotating in the direction of the moon icon, the light lights up at night and not during the day, for outdoor.

Day: Rotating in the direction of the sun picture, the light lights up during the day and at night, for indoor or poorly lit places.

TIME: Waiting time (3s - 8 min)

When a person or animal is sensed, the light will turn on.

Rotate in the "-" direction, the light will be on for a shorter period of time, the shortest being 5 seconds.

Rotate in the "+" direction, the light will be on for a longer time, the longest time is 10 minutes.

Can be adjusted according to the needs of their own.

SENS: Sensing distance: 4m- 10m

Rotate towards "-" direction, the sensing distance will be shortened

Rotate in the "+" direction, the sensing distance will increase



Image 4: Detailed view of the motion sensor with labels for LUX (light sensitivity), TIME (duration), and SENS (sensitivity/distance) controls.



Image 5: Illustration demonstrating the 360-degree horizontal and 180-degree vertical rotation capabilities of the motion sensor for precise aiming.

5. OPERATING INSTRUCTIONS

Once installed and configured, the floodlight operates automatically based on the motion sensor settings:

- The light will turn on when motion is detected within the set sensing distance and under the specified light conditions (LUX setting).
- Continuous movement within the detection range will keep the light illuminated.
- After motion ceases, the light will remain on for the duration set by the TIME knob, then automatically turn off.



Image 6: Diagram illustrating the 120° irradiation range and 4-10m induction distance, showing how continuous movement keeps the light on and how it turns off after a set time when motion stops.

5.1. Official Product Video

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Video 1: An official product video from Willpower US demonstrating the features and applications of the LED Floodlight with Motion Sensor, including its brightness, waterproof design, and motion detection capabilities.

6. MAINTENANCE

- **Cleaning:** Periodically clean the floodlight and motion sensor lens with a soft, damp cloth to ensure optimal performance. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the power cable and housing for any signs of damage. If damage is found, disconnect power and have it repaired by a qualified professional.
- **IP66 Rating:** The IP66 rating ensures protection against dust and strong water jets. While robust, avoid direct high-

pressure water sprays on the unit.



Image 7: The floodlight shown in a rainy environment, highlighting its IP66 waterproof rating, suitable for various weather conditions.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power supply; LUX setting too low (daylight); Sensor not detecting motion; Faulty wiring.	Check power connection and circuit breaker. Adjust LUX setting towards the moon icon for night operation. Verify motion sensor is aimed correctly and SENS is adequate. Inspect wiring for secure connections.
Light stays on continuously.	Continuous motion in detection area; TIME setting too long; Sensor malfunction.	Ensure no constant motion sources (e.g., swaying branches) are in the detection zone. Adjust TIME setting to a shorter duration. If problem persists, contact support.

Problem	Possible Cause	Solution
Light turns on/off randomly.	Interference from heat sources (e.g., exhaust vents); Sensor too sensitive (SENS setting); Environmental factors (e.g., strong wind).	Relocate the floodlight away from heat sources. Reduce SENS setting. Consider environmental factors and adjust sensor angle if necessary.

8. SPECIFICATIONS

Attribute	Value
Brand	Willpower
Model Name	YY-FL-XPG50-ZB-RTGY-CA
Wattage	50 watts
Brightness	5000 Lumen
Color Temperature	6000 Kelvin (White)
Voltage	85V-140V (AC)
Material	Aluminum, Polyacrylate
Product Dimensions	Approx. 8.3"L x 8.3"W x 1.4"H
Item Weight	2.2 pounds (1 Kilogram)
IP Rating	IP66
Average Life	20000 Hours
Installation Type	Flush Mount
Control Method	Motion Sensor (Adjustable LUX, TIME, SENS)
Included Components	Bulb (integrated LED)

9. WARRANTY AND SUPPORT

Willpower products are manufactured to high-quality standards. For any questions, technical assistance, or warranty claims, please refer to the contact information provided with your purchase or visit the official Willpower website. Please retain your proof of purchase for warranty purposes.