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KALAHOL 50W floodlight FR

KALAHOL 50W Security Light User Manual

Model: 50W floodlight FR

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your KALAHOL 50W Security Light. This outdoor LED floodlight features a motion detector (PIR sensor) and an infrared remote control, offering 5000 lumens of cool white light (6500K). It is designed for outdoor use with an IP66 waterproof rating, suitable for gardens, backyards, driveways, and other outdoor areas.
Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Product Features

- **High Brightness & Energy Efficiency:** 50W LED provides 5000 lumens, equivalent to a 150W traditional bulb, saving over 85% energy.
- **Advanced PIR Motion Detector:** Features a PIR sensor with adjustable angle (180° horizontal, 90° vertical) and settings for time (10s/1min/5min), detection mode (DAY/NIGHT), and sensitivity (50%/100%).
- **Continuous Mode:** Option for 1-hour or 3-hour continuous illumination, after which it automatically switches to PIR motion detection mode.
- **IP66 Waterproof & Durable:** Constructed from high-quality aluminum alloy and tempered glass, resistant to heat, cold, and extreme weather conditions. Rated for up to 50,000 hours of operation.
- **Enhanced Wireless Remote Control:** Allows easy control of power, brightness, sensor mode, sensitivity, and timer settings without manual adjustment on the unit.
- **Efficient Heat Dissipation:** Equipped with graphite-coated heat sinks for rapid heat dissipation, ensuring safe operation even in high temperatures.

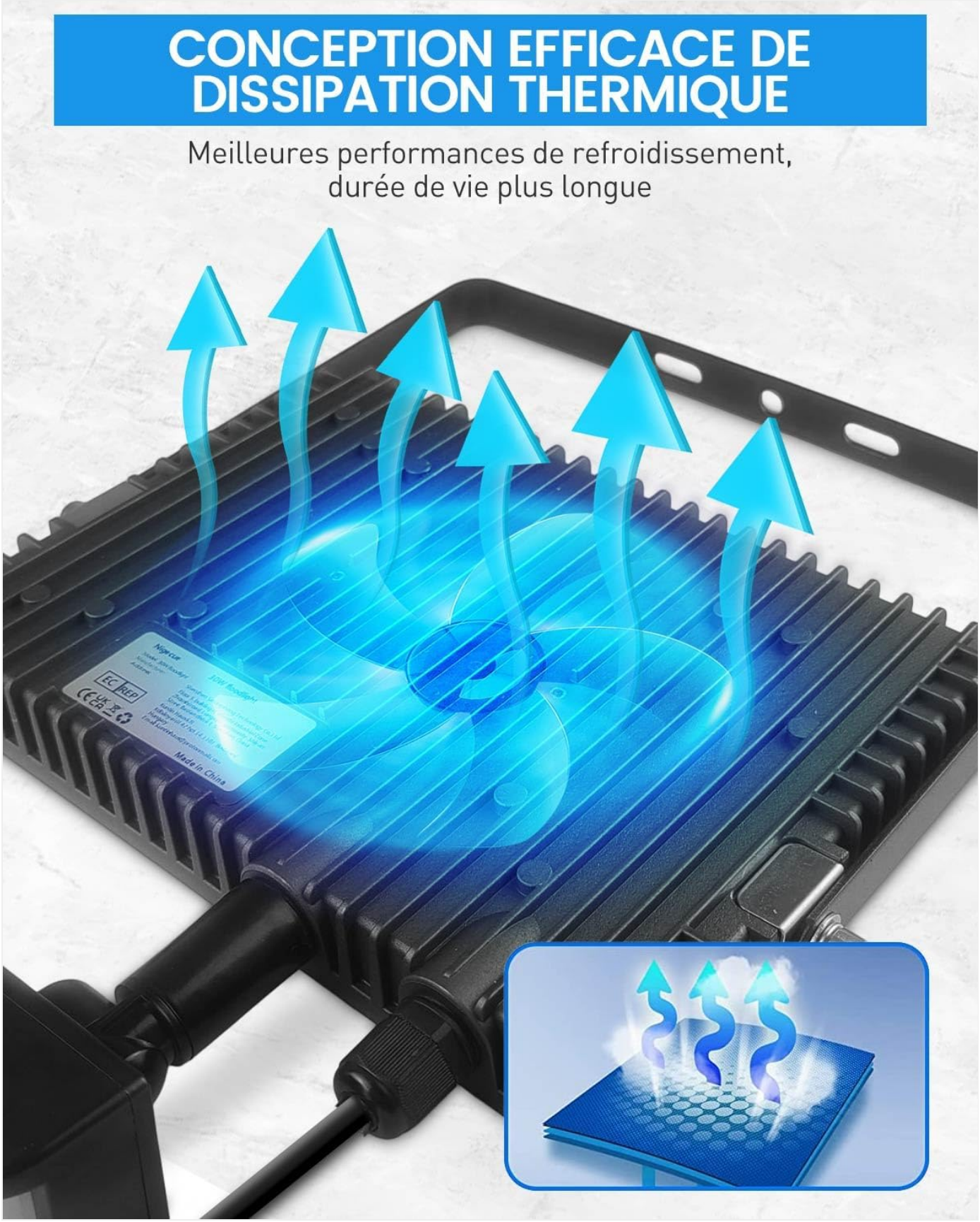


Image: Illustration of the efficient heat dissipation design, highlighting the graphite-coated heat sinks that allow for rapid cooling and extended product lifespan.

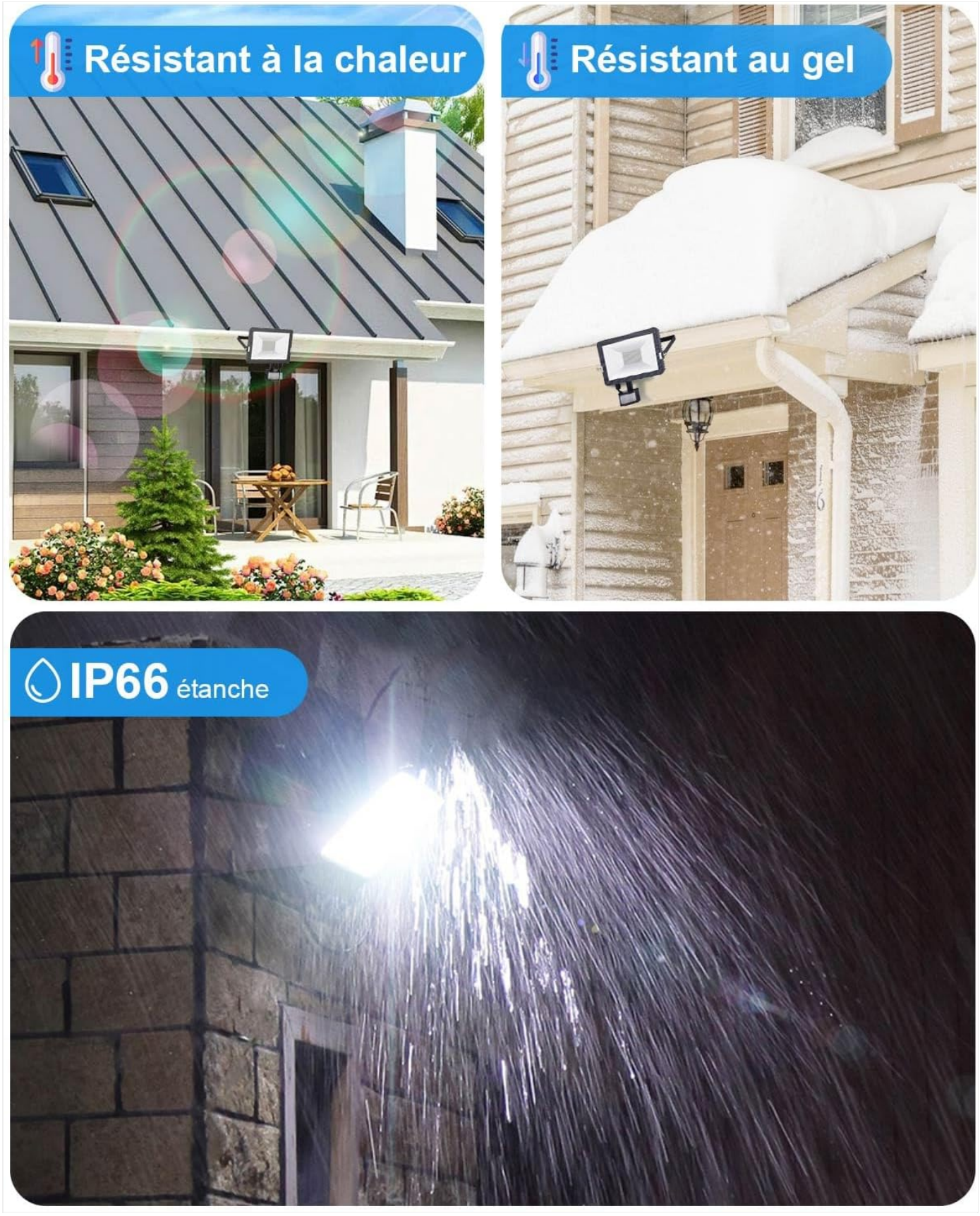


Image: Visual representation of the product's durability, demonstrating its resistance to high temperatures, freezing conditions, and heavy rain, confirming its IP66 waterproof rating.

3. Package Contents

Please check the package contents upon receipt. If any items are missing or damaged, contact customer support.

- KALAHOL 50W Security Light with PIR Sensor

- IR Remote Control
- Mounting Screws
- User Manual (this document)



Image: The KALAHOL 50W Security Light, showing the main floodlight unit, the integrated PIR motion sensor, the remote control, and the power cable with exposed wires for connection.

4. Safety Information

WARNING: Failure to follow these safety instructions may result in fire, electric shock, injury, or damage to the product.

- Always disconnect power before installation, maintenance, or cleaning.
- Installation should be performed by a qualified electrician or in accordance with local electrical codes.

- Ensure the mounting surface is strong enough to 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.
- Keep the product away from flammable materials.
- Do not attempt to modify or repair the product yourself. Contact customer support for assistance.
- Ensure all connections are secure and properly insulated to prevent electric shock.

5. Setup and Installation

5.1. Pre-Installation Checklist

- Verify that all package contents are present.
- Ensure the power supply is turned off at the circuit breaker before starting installation.
- Gather necessary tools: screwdriver, drill, wire strippers, electrical tape, ladder (if needed).

5.2. Mounting the Light Fixture

1. Choose a suitable mounting location on a wall, eave, or pole that provides the desired illumination area and allows for optimal motion detection.
2. Mark the drilling points for the mounting bracket.
3. Drill holes at the marked positions and insert wall anchors if necessary.
4. Secure the mounting bracket to the surface using the provided screws.
5. Attach the light fixture to the mounting bracket and adjust the angle as desired. The PIR sensor angle can be manually adjusted 180° horizontally and 90° vertically.

5.3. Electrical Connection

The security light comes with a 5.9-foot (approximately 1.8m) power cable.

- Connect the wires from the light fixture to your main power supply:
  - **Blue wire:** Neutral (N)
  - **Brown wire:** Live (L)
  - **Yellow/Green wire:** Earth/Ground (E)
- Ensure all connections are tight and insulated with electrical tape or appropriate connectors.
- Once connections are complete, restore power at the circuit breaker.



Image: Technical diagram illustrating the physical dimensions of the KALAHOL 50W Security Light and the color-coded wiring for electrical connection: blue for neutral, brown for live, and yellow/green for earth.

6. Operating Instructions

The KALAHOL Security Light is operated using the included IR remote control.

6.1. Remote Control Functions



Image: This image highlights the convenience of the wireless remote control for adjusting settings, contrasting it with the inconvenience of manual button adjustments on traditional security lights.



Image: A detailed view of the remote control, showing buttons for various settings, alongside an illustration of the light's detection range (6.56-39.37 ft) and adjustable angle (90-180 degrees).

- **ON/OFF:** Turns the light on or off.
- **Brightness Adjustment (+/-):** Increases or decreases the light intensity.
- **1H/3H:** Sets the continuous illumination mode for 1 hour or 3 hours. After the set time, the light automatically switches to PIR motion detection mode.
- **PIR:** Activates the motion detection mode.

- **TIME (10s/1min/5min):** Sets the duration the light stays on after motion is detected (10 seconds, 1 minute, or 5 minutes).
- **DAY/LUX/NIGHT:** Sets the ambient light threshold for motion detection.
    - **DAY:** Motion detection functions throughout the day, regardless of ambient light.
    - **LUX:** (Not explicitly defined, but typically auto-adjusts based on ambient light).
    - **NIGHT:** Motion detection functions only when ambient light is low (at night).
- **SENS (50%/100%):** Adjusts the sensitivity of the PIR motion sensor (50% for lower sensitivity, 100% for higher sensitivity).

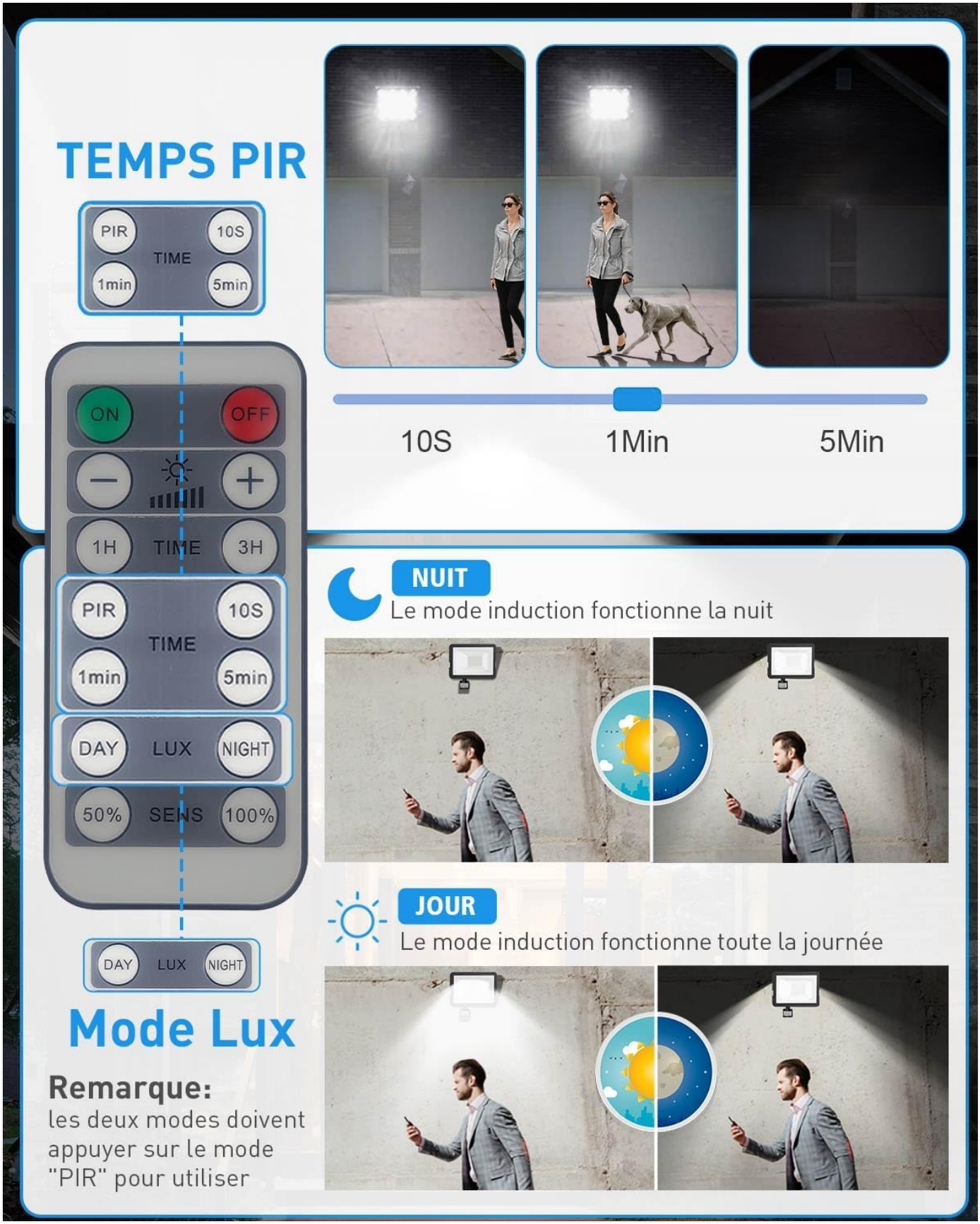


Image: This image illustrates the remote control options for setting the PIR detection duration (10 seconds, 1 minute, 5 minutes) and selecting between Day and Night modes for the motion sensor.

6.2. Operating Modes

- **Constant Light Mode:** Press "ON" to turn on the light continuously. Use "1H" or "3H" to set a timer for continuous illumination.
- **Sensor Mode:** Press "PIR" to activate motion detection. Adjust TIME, DAY/LUX/NIGHT, and SENS settings as needed.

7. Maintenance

- **Cleaning:** Periodically clean the light fixture and PIR sensor lens with a soft, damp cloth to remove dust and debris. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the power cable and connections for any signs of damage or wear.
- **Bulb Replacement:** The LED light source is integrated and not user-replaceable. The product has a long lifespan of up to 50,000 hours.

8. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on.	No power supply. Loose wiring connection. Remote control battery depleted.	Check circuit breaker and power source. Verify all wiring connections are secure. Replace remote control battery.
Light stays on continuously.	Set to continuous mode (ON, 1H, or 3H). PIR sensor constantly detecting motion.	Press "PIR" button on remote to activate motion detection mode. Adjust PIR sensor angle or sensitivity (SENS) to avoid unwanted detection.
Light does not detect motion.	PIR sensor blocked or misaligned. Sensitivity (SENS) set too low. DAY/NIGHT mode incorrect.	Ensure PIR sensor is clear and facing the desired detection area. Adjust its angle. Increase sensitivity to 100%. Set to "DAY" for all-day detection or "NIGHT" for night-only detection.
Light flashes or flickers.	Unstable power supply. Faulty wiring.	Consult a qualified electrician to check power stability. Re-check wiring connections.
Remote control not working.	Battery depleted. Obstruction between remote and light.	Replace remote control battery. Ensure clear line of sight to the light's sensor.

9. Specifications

Brand	KALAHOL
Model Number	50W floodlight FR
Power	50 Watts
Luminous Flux	5000 Lumens
Color Temperature	6500 Kelvin (Cool White)
Color Rendering Index (CRI)	80
Voltage	240 Volts
Material	Metal, Aluminum, Tempered Glass
Waterproof Rating	IP66
Special Features	Motion Detector (PIR), Remote Control, Dimmable, Programmable, Energy Saving
Control Method	Remote Control

Product Dimensions (L x W x H)	15.3 x 2.6 x 20 cm (approx. 6.0 x 1.0 x 7.9 inches)
Item Weight	1.07 Kilograms (approx. 2.36 lbs)
Cable Length	Approx. 5.9 feet (1.8 meters)

10. Warranty and Support

For warranty information or technical support, please contact KALAHOL customer service through your purchase platform or the contact details provided with your product packaging. Please have your model number (50W floodlight FR) and purchase date available when contacting support.

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