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› OREiN Dual-Power Solar & Electricity Flood Light User Manual

## OREiN OS5600184

# OREiN Dual-Power Solar & Electricity Flood Light

User Manual

### PRODUCT OVERVIEW

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The OREiN Dual-Power Solar & Electricity Flood Light is an advanced outdoor lighting solution designed for enhanced security and convenience. It features a unique dual power supply system, allowing it to operate seamlessly on solar energy or hardwired electricity. With a powerful 3500LM output, a wide 240°/50FT motion sensor, and customizable RGB night light functions, this IP65 waterproof light is suitable for various outdoor applications such as garages, gates, and yards. Smart control is available via a dedicated mobile application.



Figure 1: OREiN Dual-Power Solar & Electricity Flood Light. This image shows the main floodlight unit with two adjustable LED heads and a motion sensor, alongside a separate solar panel, wiring, and a smartphone displaying the control app interface.

## KEY FEATURES

- **Dual Power Supply:** Operates on solar power with a 4400mAh battery or seamlessly switches to AC hardwired electricity when solar power is low.
- **High Brightness:** Delivers up to 3500 lumens, equivalent to a 200W halogen light, illuminating up to 2500 sq.ft.
- **Advanced Motion Sensing:** Military-grade motion sensor with 240° wide angle and 50ft detection range.
- **Adjustable Light Heads:** Two LED heads with 350° rotation, and light angles adjustable vertically 330° & horizontally 200°.
- **Smart Control:** Full control via the Aidot APP, including brightness, color temperature (3CCT: 2700K-4000K-5000K), and lighting modes.
- **Decorative RGB Night Light:** Offers 16 million colors for ambient lighting.
- **Durable Design:** IP65 waterproof casing withstands temperatures from -4°F to 122°F.

## PACKAGE CONTENTS

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Ensure all items are present before beginning installation:

- OREiN Dual-Power Flood Light Unit
- Solar Panel
- Mounting Plate
- Screws and Wall Anchors
- Instruction Manual

## SETUP AND INSTALLATION

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The OREiN Dual-Power Flood Light offers two primary installation methods: permanent hardwired connection or cable-free solar operation. Installation typically takes less than 15 minutes with the included bracket and tools.

### 1. Choosing an Installation Location

Select a location that provides optimal sunlight exposure for the solar panel throughout the day if primarily using solar power. For hardwired operation, ensure proximity to an electrical junction box. The light is designed for outdoor use and is IP65 waterproof.

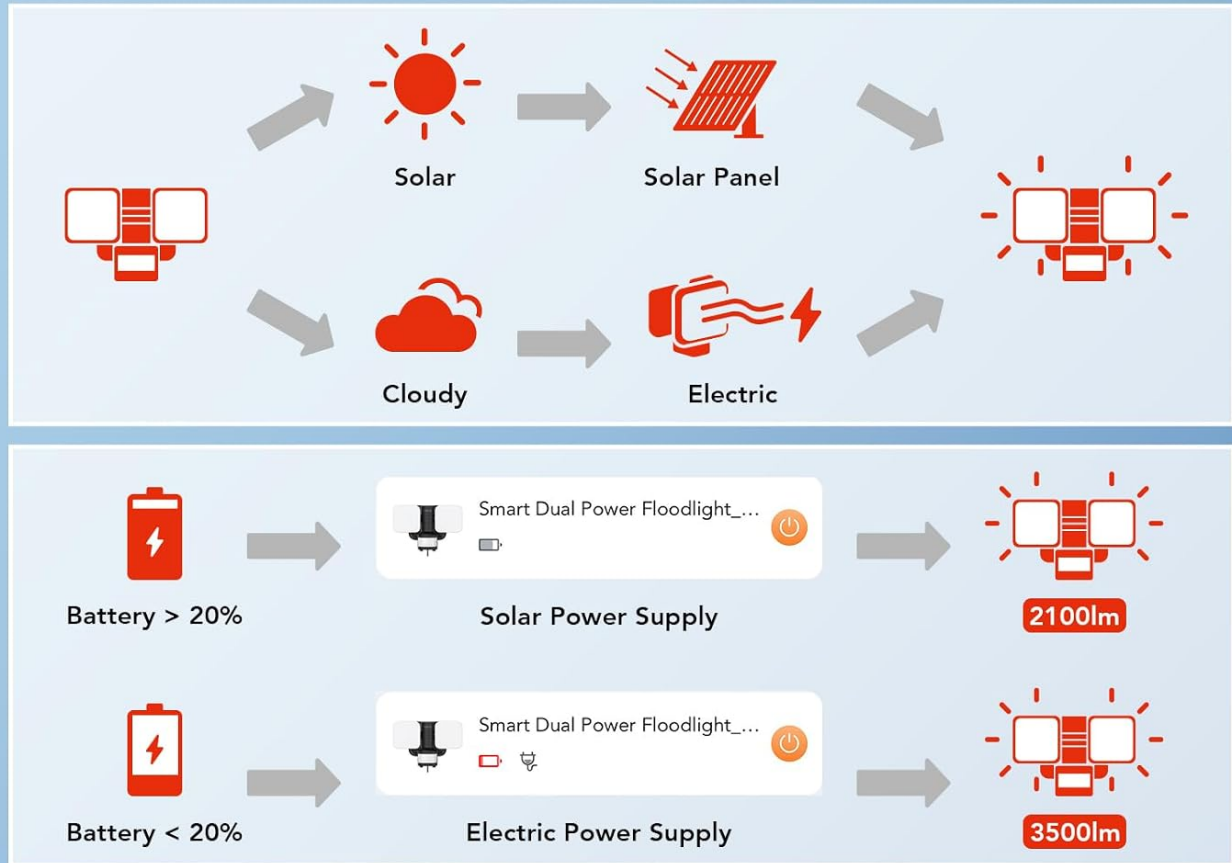
### 2. Mounting the Unit

1. Attach the mounting plate to the desired surface using the provided screws and wall anchors.
2. Secure the flood light unit to the mounted plate.
3. Mount the solar panel in a location that receives direct sunlight. The solar panel comes with a reasonably long cable (approximately 15ft) to allow flexible placement.

### 3. Wiring (for Hardwired Operation)

For continuous power and maximum brightness (3500LM), connect the flood light to your electrical system. Consult a qualified electrician if you are unsure about electrical wiring procedures.

# Electrical Diagram of Dual-power Smart Light



## Note:

In the case of solar power supply priority, when the battery power  $>40\%$  again, the power supply will automatically switch from electrical to solar.

Figure 2: Electrical Diagram of Dual-power Smart Light. This diagram illustrates the dual power supply system, showing how the light prioritizes solar power and switches to electric power when the battery level drops below 20%, and back to solar when it recharges above 40%.

The light uses solar energy first. If the battery power drops below 20%, it automatically switches to electric power supply, providing 3500LM. When the battery recharges to over 40% via solar, it switches back to solar power, providing 2100LM.

## OPERATING INSTRUCTIONS

### 1. Initial Power-Up and Solar Charging

Upon installation, the solar panel will begin charging the internal 4400mAh batteries during daylight hours. A full charge typically takes 5-8 hours of direct sunlight. The light will automatically turn on at night and off at dusk when in Dusk to Dawn mode.

# Dual-power Supply for Any Weather

More Energy-efficient, Longer-lasting Lighting



**Why choose us ??**

- Power Source: Solar power+ Hardwired Electric Supply
- Temperature: -4°F-122°F(-20°C-50°C)
- Lighting: All night lighting
- Weather: For any weather

**Outdoor Solar Light**

Power Source: Solar Power  
Temperature: 14°F-104°F (-10°C~40°C)  
Charge: 8-12 Hours (3 days)  
Lighting: 1-2 hours  
Weather: Not for Cloudy/ rainy day

**Hardwired Motion Light**

Power Source: Hardwired Electric Supply  
Temperature: 4°F-122°F (-20°C-50°C)  
For Environment: Not energy-efficient  
Spend: High electricity bills

Figure 3: Dual-power Supply for Any Weather. This image highlights the benefits of the dual power system, comparing it to traditional outdoor solar lights and hardwired motion lights, emphasizing all-night lighting and energy efficiency.

## 2. Aidot APP Control

For full functionality and customization, download the Aidot APP from your smartphone's app store. An account is required to use the app.

- **Brightness Adjustment:** Adjust light intensity from 1% to 100%.
- **Color Temperature (3CCT):** Select between 2700K (warm white), 4000K (neutral white), and 5000K (cool white).
- **RGB Night Light:** Choose from 16 million colors for decorative lighting. Note: The RGB night light is primarily APP-controlled and not via a physical button.
- **Scheduling:** Set custom schedules for light operation.

# Powerful APP Control



Figure 4: Powerful APP Control. This image displays the various settings available within the Aidot smartphone application, including power type, schedule, brightness, 3CCT color temperature, and RGB night light options.

## 3. Lighting Modes

The light features three distinct operating modes, configurable via the APP or physical button:

- **Dusk to Dawn Mode:** The light automatically turns on at night and turns off during the day.
- **Motion Mode:** The light automatically turns on at night when motion is detected and stays on for a set duration (15s-120s).
- **Security Mode:** The light flashes for 2 minutes after detecting motion to warn intruders, and an APP warning message is received.

# 3 Modes with APP/Button Control

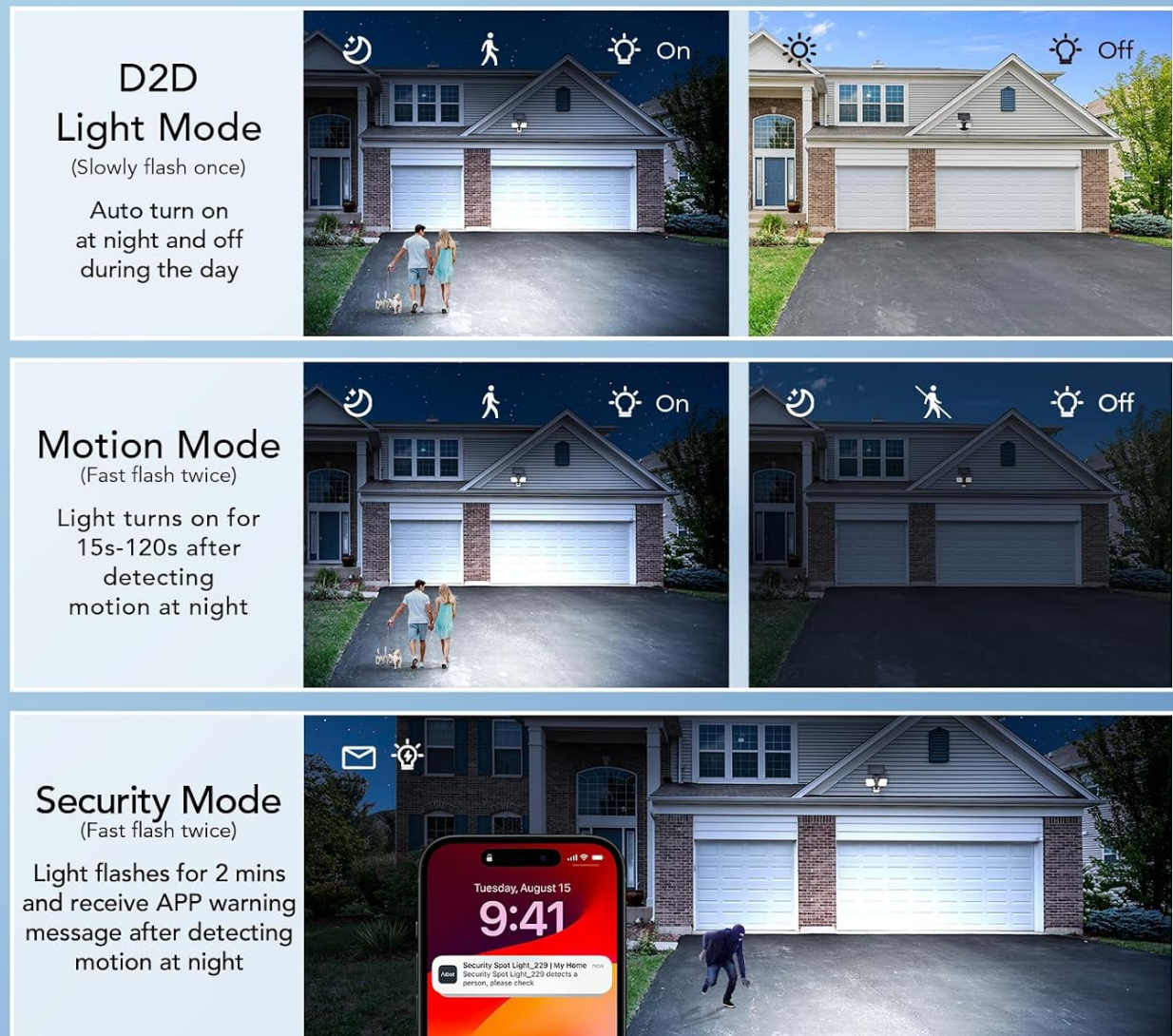


Figure 5: 3 Modes with APP/Button Control. This image visually demonstrates the three operational modes: Dusk to Dawn, Motion, and Security, showing how the light behaves in each scenario.

# Decorative RGB Night Light

## Note:

1. The RGB night light can only be controlled by APP and NOT controlled by the button of the light.
2. The RGB night light cannot be used for ceiling installation.
3. It is normal for some colors of RGB lights to have halos in projection.

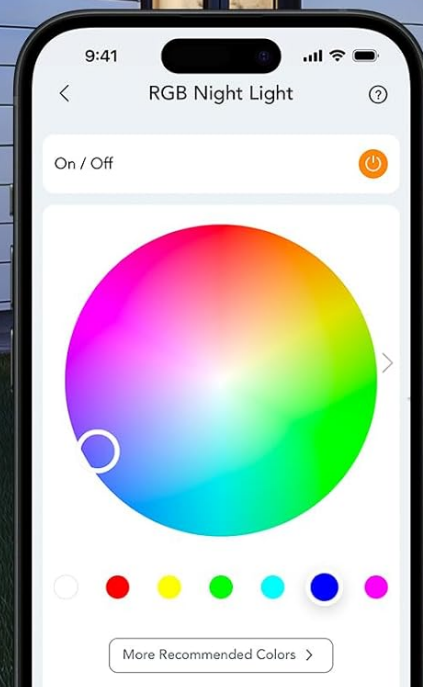


Figure 6: Decorative RGB Night Light. This image shows the floodlight illuminating a wall with colored light, demonstrating the RGB night light feature and the color selection interface within the Aidot app.

## 4. Adjusting Sensor and Light Heads

The motion sensor and light heads are adjustable to optimize coverage and illumination. The sensor covers 240° x 50ft. Light heads can be rotated 350° and adjusted vertically 330° and horizontally 200° for multi-directional security.

## MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your OREiN flood light.

- **Cleaning:** Periodically wipe the solar panel and light lenses with a soft, damp cloth to remove dust, dirt, or debris that may obstruct light output or solar charging efficiency. Avoid abrasive cleaners.
- **Battery Replacement:** The unit features replaceable 18650 2200mAh 3.7V batteries. If you notice a significant decrease in battery life or performance over time, the batteries can be replaced. Refer to the detailed instructions in the full user manual for battery access.

- **Environmental Durability:** The IP65 waterproof casing is designed to withstand various outdoor weather conditions, including temperatures from -4°F to 122°F. No special weather-related maintenance is typically required beyond regular cleaning.

## TROUBLESHOOTING

| Problem                               | Possible Cause                                                                        | Solution                                                                                                                                                                                   |
|---------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Light does not turn on at night.      | Insufficient solar charge; Dusk to Dawn mode not active; Motion sensor not triggered. | Ensure solar panel receives direct sunlight for 5-8 hours daily. Check APP settings for Dusk to Dawn mode. Verify motion sensor is clear of obstructions and sensitivity is set correctly. |
| Light is dim or flickers.             | Low battery charge; Dirty solar panel; Faulty wiring (if hardwired).                  | Allow more time for solar charging. Clean the solar panel. Check hardwired connections or consult an electrician.                                                                          |
| Motion sensor not detecting movement. | Sensor obstructed; Incorrect sensitivity settings; Sensor angle incorrect.            | Clear any obstructions from the sensor. Adjust sensitivity settings in the Aidot APP. Reposition the sensor for optimal coverage.                                                          |
| Cannot connect to Aidot APP.          | Bluetooth disabled; App requires update; Incorrect pairing procedure.                 | Ensure Bluetooth is enabled on your device. Update the Aidot APP to the latest version. Follow the in-app pairing instructions carefully.                                                  |
| RGB night light not working.          | Not enabled in APP; Specific colors may have halos in projection.                     | Ensure RGB night light is enabled and configured in the Aidot APP. Note that some color halos are normal.                                                                                  |

If issues persist, please refer to the Warranty and Support section for contact information.

## SPECIFICATIONS

| Attribute          | Detail                                              |
|--------------------|-----------------------------------------------------|
| Brand              | OREiN                                               |
| Model Name         | Dual-Power Solar & Electricity Flood Lights Outdoor |
| Model Number       | OS5600184                                           |
| Color              | Black                                               |
| Material           | Acrylonitrile Butadiene Styrene                     |
| Light Fixture Form | Floodlight                                          |
| Power Source       | Solar Power + Hardwired (AC)                        |
| Luminous Flux      | Up to 3500LM                                        |

| Attribute               | Detail                                                               |
|-------------------------|----------------------------------------------------------------------|
| Motion Sensor Range     | 240° / 50FT                                                          |
| Color Temperature (CCT) | 2700K-4000K-5000K                                                    |
| Battery Capacity        | 4400mAh (2x 18650 2200mAh 3.7V)                                      |
| Waterproof Rating       | IP65                                                                 |
| Operating Temperature   | -4°F to 122°F (-20°C to 50°C)                                        |
| Product Dimensions      | 9"L x 9"W x 6"H                                                      |
| Item Weight             | 2.95 pounds                                                          |
| Included Components     | Flood Light, Instruction Manual, Mounting Plate, Screws, Solar Panel |

## OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video: Dual-power Solar & Hardwire Hybrid LED Security Light 3CCT. This video provides a visual demonstration of the OREiN flood light's features, including its dual power capabilities, motion sensing, and smart control options.

## WARRANTY AND SUPPORT

The OREiN Dual-Power Solar & Electricity Flood Light comes with a **1-year warranty**. OREiN also provides **lifetime technical support** for this product. For any questions regarding product operation, installation, or troubleshooting, please feel free to contact OREiN customer support. We commit to responding to all inquiries within 24 hours. For further assistance, you may also refer to the official User Manual (PDF) available at: <https://manuals.plus/m/1836396f346f3e1f632fd919231ffc79833f28b3049973739f4a4b99753e059b>

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Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for

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### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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