

## SOLLA GV007A00

# SOLLA GV007A00 Solar Outdoor Light User Manual

2000LM IP65 Solar Outdoor Light with Motion Detector

## 1. PRODUCT OVERVIEW

Thank you for choosing the SOLLA GV007A00 Solar Outdoor Light. This advanced security light features three adjustable LED heads, a sensitive motion detector, and a dual power system (solar and battery) to ensure reliable illumination for your outdoor spaces. Its IP65 waterproof rating makes it suitable for various weather conditions.

- **Dual Power Source:** Operates on solar power with a rechargeable 18650 battery (included) and can switch to 2 D-type batteries (not included) during prolonged low sunlight periods.
- **Adjustable Design:** Three rotatable light heads and a 360° adjustable solar panel for optimal light coverage and sun exposure.
- **High Brightness & Motion Detection:** Up to 2000 lumens with 3 adjustable brightness levels. Activates upon motion detection with adjustable sensitivity and timer settings.
- **Durable & Easy Installation:** IP65 waterproof rating for outdoor use. Wireless design allows for quick installation on walls, ceilings, or eaves.

## 2. SAFETY INSTRUCTIONS

Please read all instructions carefully before installation and use. Keep this manual for future reference.

- Do not disassemble, repair, or modify the product. This may cause electric shock or damage.
- Ensure the mounting surface is stable and can support the weight of the light fixture.
- Avoid direct eye exposure to the LED light, as it can be very bright.
- Keep the product away from flammable materials.
- Dispose of batteries according to local regulations. Do not mix old and new batteries, or different types of batteries.
- Keep out of reach of children.

### 3. PACKAGE CONTENTS

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Verify that all components are present:

- SOLLA Solar Outdoor Light Unit (with 3 LED heads and motion sensor)
- Separate Solar Panel with connecting cable
- Mounting Hardware (screws, wall anchors)
- 1x 18650 Rechargeable Battery (pre-installed or separate)
- User Manual



This image displays the complete SOLLA solar outdoor light system, featuring the main light unit with three adjustable LED heads and a separate solar panel for optimal sun exposure. The light unit is white, and the solar panel is black with a white frame, connected by a cable.

### 4. PRODUCT DIAGRAM

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Familiarize yourself with the components of your SOLLA Solar Outdoor Light.



This diagram illustrates the adjustable features of the Solla solar light. It shows that the three light heads can be adjusted 90 degrees up and down, and 90 degrees left and right. The motion sensor itself can be rotated 180 degrees left and right, allowing for precise targeting of both light and detection areas.



This diagram highlights the sensitive motion sensor capabilities of the SOLLA solar light. It shows a maximum 180-degree sensing angle and a 33ft/10m sensing distance. The recommended mounting height is 6-10ft. An inset image shows the battery compartment located at the back of the light unit.

## 5. INSTALLATION

Follow these steps for proper installation:

1. **Choose a Location:** Select a mounting location for the light unit that provides the desired illumination coverage. For the solar panel, choose a spot that receives direct sunlight for at least 6-8 hours daily to ensure optimal charging. The recommended mounting height for the light is 6-10 feet (1.8-3 meters).
2. **Mark and Drill:** Hold the light unit and solar panel brackets against the chosen surfaces and mark the drilling points. Drill holes using an appropriate drill bit size for the provided wall anchors.
3. **Insert Anchors:** Insert the plastic wall anchors into the drilled holes.
4. **Mount Brackets:** Secure the light unit and solar panel brackets to the wall using the provided screws.
5. **Attach Light and Panel:** Attach the light unit and solar panel to their respective mounted brackets.
6. **Connect Solar Panel:** Connect the cable from the solar panel to the input port on the light unit. Ensure a secure connection.



7. **Adjust Angles:** Adjust the solar panel to face the sun for maximum exposure. Adjust the three light heads and the motion sensor to cover your desired detection and illumination areas.

This image shows two examples of the SOLLA solar light installed on a house. The top image shows the light mounted under the eaves of a roof, providing overhead illumination. The bottom image shows the light mounted on a wall above a garage door, demonstrating its versatility for various outdoor placements.

## 6. OPERATION AND SETTINGS

The SOLLA solar light features adjustable settings for sensitivity, detection, brightness, and timer. These are controlled via dials on the unit.

### Test Mode

Help to quickly test the light before installation. The fixture will light up for 5S when motion is detected.

### Auto On Mode

The light will light up for 10S and 20S when motion is detected after choosing the DIST & DETECT & DIM button.



#### ① DIST (Sensitivity)

The motion sensor detection range is can be set to 33ft/17ft/10ft.

#### ② DETECT

Choose environmental luminosity detection. It will be triggered when the detection area is M/L/D position. ( Moderate Light(sunset, 20-30lux)/Low Light(Dim, 10-20lux)/Dark (0-10lux) )

#### ③ TIME

The fixture will light up for 20S/10S/5S(under TEST mode) when motion is detected.

#### ④ DIM(Brightness)

The fixture is Dimmable. In Solar-Powered Mode: M/L/D (2000lm,1000lm,500lm)

A detailed view of the control panel on the SOLLA solar light. It features four adjustable dials: 'DIST' for motion sensitivity range (10ft/17ft/33ft), 'DETECT' for environmental luminosity detection (Moderate Light, Low Light, Dark), 'DIM' for brightness levels (500lm, 1000lm, 2000lm), and 'TIME' for setting the illumination duration after motion detection (10S/20S). A 'TEST' mode is also indicated.

### 6.1. Control Dials

- **DIST (Sensitivity):** Adjusts the motion detection range.  
Options: **D** (10ft), **M** (17ft), **L** (33ft).
- **DETECT (Luminosity):** Sets the ambient light level at which the motion sensor becomes active.  
Options: **TEST** (for quick setup), **Light Bulb Icon** (Dark, activates only in low light), **Sun Icon** (Moderate Light, activates in dusk/dark).
- **DIM (Brightness):** Selects the desired brightness output when motion is detected.  
Options: **500lm**, **1000lm**, **2000lm**.
- **TIME (Duration):** Determines how long the light stays on after motion is detected.  
Options: **10S** (10 seconds), **20S** (20 seconds).

## 6.2. Test Mode

Set the DETECT dial to 'TEST'. The light will illuminate for 5 seconds when motion is detected, regardless of ambient light. This mode is useful for verifying sensor functionality and coverage during installation.

## 6.3. Auto On Mode

After setting DIST, DETECT, DIM, and TIME, the light will activate for the selected duration (10S or 20S) when motion is detected, according to your chosen luminosity and brightness settings.



This image visually compares the three adjustable brightness levels of the SOLLA solar light: 500 lumens, 1000 lumens, and 2000 lumens. It demonstrates how the light illuminates an outdoor area at different intensity settings, from subtle to

super bright.

## 7. POWER MODES

The SOLLA GV007A00 light is designed for continuous operation through its intelligent dual power system.

- **Solar Power Priority:** The primary power source is the solar panel, which charges the included 18650 rechargeable battery during the day.
- **Battery Backup:** If the solar battery's charge is insufficient (e.g., during prolonged cloudy weather or winter), the light will automatically switch to use two D-type batteries (not included) as a backup power source.
- **Automatic Switch-back:** Once the solar battery has sufficiently recharged, the system will automatically revert to solar power, conserving the D-type batteries.

This system ensures reliable operation even when solar charging conditions are not ideal.

## 8. MAINTENANCE

- **Cleaning:** Regularly clean the solar panel and the light heads with a soft, damp cloth to remove dust, dirt, or debris. This ensures optimal charging efficiency and light output. Do not use abrasive cleaners or solvents.
- **Battery Replacement:**
  - **18650 Rechargeable Battery:** This battery is designed for long life. If you notice a significant decrease in performance over time, it may need replacement. Refer to the battery compartment for instructions on accessing and replacing the 18650 battery.
  - **D-type Batteries:** If using D-type batteries as backup, replace them when the light's performance is consistently low despite adequate solar charging. Ensure correct polarity when inserting new batteries.
- **Inspection:** Periodically check all mounting screws and connections to ensure they are secure.

## 9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient solar charge.	Ensure solar panel receives 6-8 hours of direct sunlight daily. Clean the solar panel.
	D-type backup batteries are depleted or not installed.	Install or replace D-type batteries.
	DETECT setting is incorrect.	Adjust DETECT dial to the 'Dark' or 'Moderate Light' setting.
Motion sensor not detecting.	DIST (Sensitivity) setting is too low.	Increase DIST setting (M or L).
	Sensor angle is incorrect.	Adjust the motion sensor's angle to cover the desired area.

Problem	Possible Cause	Solution
Light stays on constantly.	Continuous motion in detection area.	Adjust sensor angle or DIST setting to reduce unwanted triggers.
	Faulty sensor.	Contact customer support.
Light is dim.	DIM (Brightness) setting is too low.	Increase DIM setting.
	Low battery charge.	Ensure adequate solar charging or replace D-type batteries.

## 10. SPECIFICATIONS

Feature	Detail
Brand	SOLLA
Model Number	GV007A00
Product Dimensions (L x W x H)	20 x 18 x 21 cm (7.87 x 7.09 x 8.27 inches)
Item Weight	1 Kilogram (2.2 lbs)
IP Rating	IP65
Style	Modern
Color	White
Material	Plastic
Number of Bulbs	1 (integrated LED unit with multiple chips)
Voltage	12 Volts (DC)
Specific Uses	Garden, Garage, Patio, Driveway, Porch, Yard
Special Features	Rechargeable, Motion Sensor, Dimmable, Adjustable Heads
Power Source	Battery Powered (Solar rechargeable with D-type backup)
Installation Type	Ceiling installation, Wall installation
Battery(ies) Included	1 C-type (18650)
Battery(ies) Required	No (for basic solar operation), Yes (2 D-type for backup)
Bulb Type	LED
Luminous Flux	2000 lm (max)
Wattage	18 Watts
Color Rendering Index (CRI)	85.00



# 11. WARRANTY AND SUPPORT

SOLLA provides the following support for this product:





- **30-Day Refund or Exchange Service:** If you are not satisfied with your purchase within 30 days, you may be eligible for a refund or exchange.
- **2-Year Repair Service:** The product is covered by a 2-year repair service from the date of purchase.

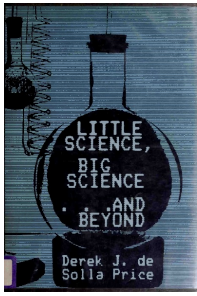
For any issues, questions, or warranty claims, please do not hesitate to contact us directly via email:

[vip@solla.us](mailto:vip@solla.us)

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## Related Documents - GV007A00

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