Xanlite PRS900D

Xanlite PRS900D Solar LED Projector with Motion Detector User Manual

Model: PRS900D

1. Introduction

Thank you for choosing the Xanlite PRS900D Solar LED Projector. This device is designed to provide efficient and reliable outdoor lighting, utilizing solar energy and featuring a motion detection system for enhanced security and convenience. This manual provides essential information for the correct installation, operation, and maintenance of your projector. Please read these instructions carefully before use and retain them for future reference.

2. Safety Instructions

- Ensure all installation steps are performed by a qualified individual or with proper safety precautions.
- Do not attempt to modify or disassemble the product. This may void the warranty and pose safety risks.
- Keep the product away from flammable materials.
- The light source of this product is classified as Group 0, indicating no risk to the eyes regardless of the observation time. However, avoid staring directly into the light for extended periods.
- Dispose of the product and its components responsibly according to local recycling regulations.

3. Package Contents

Verify that all components are present and in good condition:

- 1 x Xanlite PRS900D Solar LED Projector Unit
- 1 x Remote Solar Panel with connecting cable
- Mounting hardware (screws, wall anchors)
- User Manual (this document)

4. Product Overview

The Xanlite PRS900D consists of an LED projector unit with an integrated motion sensor and a separate solar panel. The solar panel charges the internal battery during the day, allowing the projector to operate at

night.

A top-down perspective of the projector and solar panel, clearly showing the connecting cable that links the two components.

Key Features:

- **Solar Powered:** Charges during the day using the remote solar panel.
- **Motion Detection:** Automatically illuminates when motion is detected within its range.
- **Dusk-to-Dawn Sensor:** Activates lighting functions only when ambient light levels are low.
- **Durable Construction:** Made from aluminum, designed for outdoor use and resistance to various weather conditions.

This image highlights the product's durability, showing a sprinkler watering grass (representing rain resistance) and frosted plants (representing cold resistance), indicating suitability for various outdoor conditions.

5. Setup and Installation

Follow these steps for optimal performance:

5.1 Choosing a Location:

- **Projector Unit:** Mount the projector in the desired area for illumination, ensuring the motion sensor has a clear field of view.
- **Solar Panel:** The solar panel should be installed in a location that receives direct sunlight for at least 6-8 hours daily to ensure maximum charging efficiency. The remote panel allows for flexible placement.

5.2 Mounting:

1. Mark the desired mounting points for both the projector unit and the solar panel.
2. Drill pilot holes if necessary and insert wall anchors.
3. Securely attach the projector unit and solar panel using the provided screws.

This image shows the Xanlite PRS900D solar LED projector mounted on a wall, with its separate solar panel positioned below it, connected by a cable, illustrating a typical outdoor installation.

5.3 Connecting the Solar Panel:

Connect the cable from the solar panel to the input port on the projector unit. Ensure the connection is secure and watertight.

6. Operating Instructions

The Xanlite PRS900D is designed for automatic operation. During daylight hours, the solar panel charges the internal battery. At dusk, the integrated light sensor activates the motion detection function.

6.1 Automatic Operation:

- The projector will automatically turn on when motion is detected within its range during nighttime.
- The light will remain on for a set duration after motion ceases, then turn off to conserve energy.

An illustration of the motion detection feature, where the projector automatically illuminates a pathway as two individuals walk past a house, providing security and convenience.

This image depicts the automatic dusk-to-dawn functionality, with the projector providing ambient lighting in a garden as the sun sets.

6.2 Adjusting Settings:

The projector typically includes adjustable controls for:

- **SENS (Sensitivity):** Adjusts the detection range of the motion sensor.
- **TIME:** Sets the duration the light remains on after motion is detected.
- **LUX (Light Sensitivity):** Determines the ambient light level at which the motion sensor becomes active (e.g., only at night).

Refer to the labels on the projector unit for specific control locations and functions. Some advanced models may also offer control via a dedicated application.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your projector:

- **Cleaning the Solar Panel:** Periodically wipe the solar panel with a soft, damp cloth to remove dust, dirt, or debris that may hinder charging efficiency.
- **Cleaning the LED Lens:** Keep the LED lens clean to ensure maximum light output.

- **Battery Care:** The internal battery is designed for long-term use. Avoid prolonged periods of storage without charging.
- **Recycling:** This product is recyclable. Please take your used projector and its components to an authorized recycling center or collection point.

8. Troubleshooting

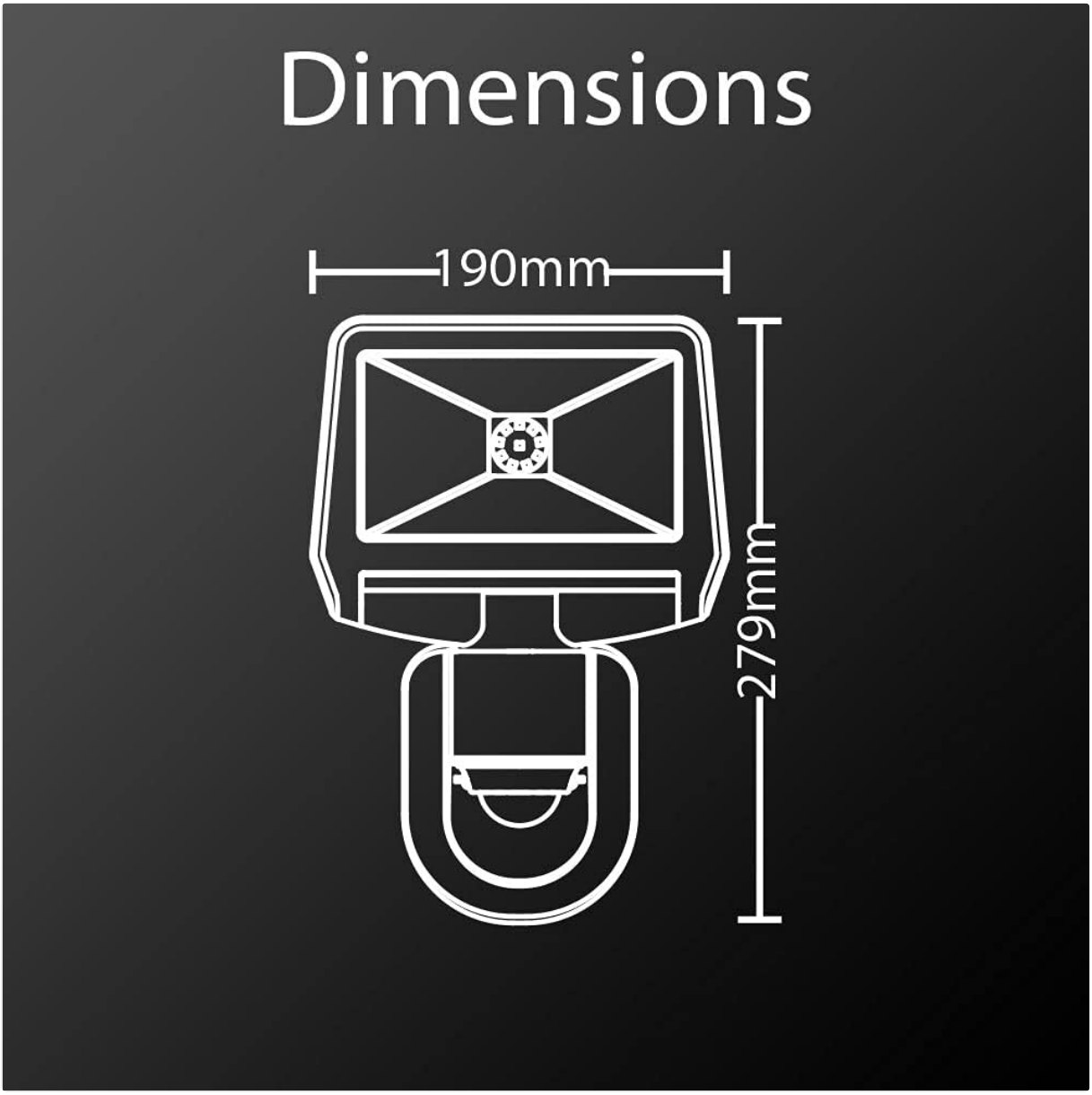
If you encounter issues with your Xanlite PRS900D, refer to the following common problems and solutions:

- **Light does not turn on at night:**
  - Ensure the solar panel is receiving adequate direct sunlight for charging.
  - Check the connection between the solar panel and the projector unit.
  - Verify that the LUX setting is not set too high, preventing activation in low light.
  - Allow the battery to charge for at least 24-48 hours in direct sunlight before first use.
- **Light is dim or only stays on for a short time:**
  - The battery may not be fully charged. Ensure the solar panel is clean and receiving sufficient sunlight.
  - Reduce the TIME setting to conserve battery power.
- **Motion sensor is not detecting movement:**
  - Adjust the SENS (sensitivity) setting to a higher level.
  - Ensure there are no obstructions blocking the sensor's field of view.
  - Confirm the LUX setting allows the sensor to activate at the desired ambient light level.
- **Light stays on continuously:**
  - Check the TIME setting; it might be set to a very long duration.
  - Ensure the motion sensor is not continuously triggered by moving objects (e.g., tree branches, pets).

9. Specifications

Brand	Xanlite
Model	PRS900D
Power Consumption	11.5 Watts
Luminous Flux	850 Lumens
Light Color Temperature	4000 K (Natural/Neutral White)
Beam Angle	150°
Lifespan	15,000 hours / 30,000 ON/OFF cycles
Material	Aluminum
Special Features	Motion Detector, Solar Powered, Remote Solar Panel
Energy Efficiency Class	A++

Usage Environment	Outdoor
Product Dimensions (Projector)	190 mm (Width) x 279 mm (Height)
Weight	1.15 Kilograms
Control Method	Motion Sensor (adjustable), Application (if supported by specific model variant)



A technical drawing indicating the physical dimensions of the projector unit, with measurements of 190mm width and 279mm height.

10. Warranty and Support

10.1 Warranty:

The Xanlite PRS900D Solar LED Projector comes with a 5-year warranty from the date of purchase. This warranty covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims.

10.2 Customer Support:

For technical assistance, warranty claims, or any questions regarding your product, please contact Xanlite customer support through their official website or the retailer where the product was purchased. Provide your model number (PRS900D) and a detailed description of the issue for efficient service.