

## Larson Electronics HL-85

# Larson Electronics HL-85 Handheld Spotlight User Manual

Model: HL-85-RED-12V-5

## 1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Larson Electronics HL-85-RED-12V-5 Handheld Spotlight. This device is a 100-watt halogen spotlight designed for use with 12-volt or 24-volt DC power sources, featuring a red hunting lens and adjustable spot/flood beam capabilities. Please read this manual thoroughly before using the product.

## 2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product:

- **Power Source:** Connect the spotlight only to a 12-volt or 24-volt DC power source, such as a vehicle's cigarette lighter socket. Ensure the power source can supply the required current for a 100-watt halogen bulb.
- **Heat:** The halogen bulb generates significant heat during operation. Avoid touching the lens or bulb housing immediately after use. Allow the unit to cool down before handling or storing.
- **Eye Protection:** Do not look directly into the light beam. The intense light can cause temporary vision impairment or eye damage.
- **Water Exposure:** This product is not water resistant. Avoid exposure to rain, splashes, or immersion in water to prevent electrical shock or damage.
- **Ventilation:** Ensure adequate ventilation around the spotlight during operation to prevent overheating.
- **Children:** Keep the spotlight out of reach of children.
- **Storage:** Store the spotlight in a cool, dry place when not in use.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Larson Electronics HL-85 Handheld Spotlight with Red Hunting Lens
- 16-foot Coil Cord with Cigarette Plug



Image 3.1: Overview of the Larson Electronics HL-85 Handheld Spotlight with its coiled power cord and cigarette plug.

## 4. PRODUCT FEATURES

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The Larson Electronics HL-85 Handheld Spotlight offers the following features:

- **High Output:** 100-watt halogen bulb provides 1,800 lumens of output, capable of illuminating objects up to 900 feet away.
- **Adjustable Beam:** The lens can be adjusted to change the light beam from a focused spot to a wider flood pattern.
- **Durable Construction:** Features a high-impact nylon handle and lamp housing, with a thick polycarbonate lens for enhanced durability.
- **Red Hunting Lens:** Equipped with a red lens, suitable for specific applications such as hunting, as it preserves night vision.
- **Versatile Power:** Operates on 12-volt or 24-volt DC power, connecting via a 16-foot coil cord with a cigarette plug.
- **Lens Options:** Available with 5-inch or 7-inch lens diameters. The 5-inch lens produces a tighter spot, while the 7-inch lens provides a wider flood.



Image 4.1: Side view of the spotlight, highlighting the ergonomic handle and product identification label.







Image 4.2: Front view of the spotlight, showcasing the red hunting lens.

## 5. SETUP

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Follow these steps to set up your handheld spotlight:

1. **Unpack:** Carefully remove all components from the packaging. Inspect for any signs of damage.
2. **Power Connection:** Locate the 16-foot coil cord with the cigarette plug. Insert the cigarette plug firmly into a compatible 12-volt or 24-volt DC power outlet in your vehicle or power supply. Ensure the connection is secure.
3. **Lens Check:** Confirm that the red hunting lens is securely in place. The spotlight is designed to operate with either a 5-inch or 7-inch lens, which can be interchanged if you have optional sizes.







Image 5.1: Rear view of the spotlight, illustrating the power cable connection point at the base of the handle.



Image 5.2: Detailed view of the 16-foot coiled power cord and its cigarette lighter plug for DC power connection.

## 6. OPERATING INSTRUCTIONS

To operate your Larson Electronics HL-85 Handheld Spotlight:

- Power On/Off:** Once connected to a suitable DC power source, press the power switch located on the handle to turn the spotlight on or off.
- Adjusting Beam (Spot/Flood):** The spotlight features an adjustable lens. To change the beam pattern, gently rotate the front housing or lens assembly. Rotate in one direction for a tighter spot beam and in the opposite direction for a wider flood beam.
- Using the Red Hunting Lens:** The red lens is designed to minimize disturbance to wildlife and preserve human night vision. It is particularly useful in low-light conditions where maintaining natural night adaptation is crucial.

## 7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your spotlight:

- Cleaning:** Clean the lens and housing with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the polycarbonate lens or housing. Ensure the unit is unplugged and cool before cleaning.
- Bulb Replacement:** The 100-watt halogen bulb has an approximate life of 1200 hours. If the bulb burns out or its performance degrades, replace it with a compatible 100-watt halogen bulb. Ensure the spotlight is unplugged and completely cool before attempting bulb replacement. Refer to the bulb manufacturer's instructions for proper handling and installation.
- Cord Inspection:** Periodically inspect the coil cord and cigarette plug for any signs of wear, cuts, or damage. Do not use the spotlight if the cord is damaged.
- Storage:** When not in use, store the spotlight in a dry, protected environment away from extreme temperatures and direct sunlight.

## 8. TROUBLESHOOTING

If you encounter issues with your spotlight, refer to the following table:

Problem	Possible Cause	Solution
Spotlight does not turn on.	No power to the cigarette plug. Loose connection. Blown bulb.	Check vehicle's power outlet (e.g., fuse). Ensure cigarette plug is fully inserted. Replace the halogen bulb.
Light is dim or flickers.	Insufficient power from source. Aging or faulty bulb. Poor connection.	Verify power source voltage and current capacity. Replace the halogen bulb. Check and secure all connections.
Cannot adjust beam from spot to flood.	Mechanism obstruction. Improper rotation.	Inspect for debris or damage around the lens assembly. Ensure you are rotating the correct part of the housing.

## 9. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model Number	HL-85-RED-12V-5 (Part Number) / 1111OP86G3G (Item Model Number)
Light Source Type	Halogen
Wattage	100 Watts
Brightness	1800 Lumens
Beam Distance	Up to 900 feet (spot mode)
Power Source	12V / 24V DC (Plug-in Electric)
Material	Nylon, Polycarbonate
Special Feature	Durable, Adjustable Spot/Flood Beam
Water Resistance Level	Not Water Resistant
Item Weight	2 pounds
Product Dimensions	9 x 9 x 9 inches

## 10. WARRANTY AND SUPPORT

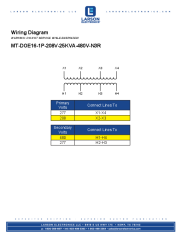

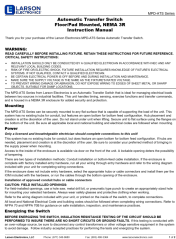
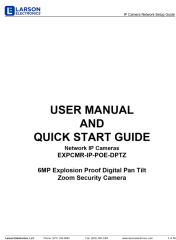
The Larson Electronics HL-85 Handheld Spotlight is backed by a **3-year warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or inquiries regarding replacement parts, please contact Larson Electronics customer service. Refer to the product packaging or the official Larson Electronics website for current contact information.

### Related Documents - HL-85

	<p><a href="#">GAU-12-IPS-LED-UVA LED Strip Light: Installation and Features</a></p> <p>Detailed installation and maintenance guide for the Larson Electronics GAU-12-IPS-LED-UVA LED Strip Light, designed for industrial locations. Features 12-24V DC operation and high durability.</p>
	<p><a href="#">EXPCMR-ALG-OZ-IC-1080P-1227 HD-TVI Motorized Bullet Camera Quick Installation and User Guide</a></p> <p>This document provides a quick installation and user guide for the Larson Electronics EXPCMR-ALG-OZ-IC-1080P-1227 HD-TVI Motorized Auto-focus Infrared Bullet Camera. It covers features, mounting, wiring instructions, camera adjustments using the OSD, cleaning, troubleshooting, and detailed specifications.</p>



	<p><a href="#">Larson Electronics MT-DOE16-1P-208V-25KVA-480V-N3R Wiring Diagram</a></p> <p>Detailed wiring diagram and connection guide for the Larson Electronics MT-DOE16-1P-208V-25KVA-480V-N3R transformer, including primary and secondary voltage connections.</p>
	<p><a href="#">Larson Electronics PDU-MTS-3P-30A-480V Manual Transfer Switch - Product Overview</a></p> <p>Detailed information on the Larson Electronics PDU-MTS-3P-30A-480V Manual Transfer Switch, a 30-amp, 3-pole, non-fusible disconnect switch designed for industrial applications with 600V AC/DC rating and NEMA 3R enclosure.</p>
	<p><a href="#">Larson Electronics MPD-ATS Series Automatic Transfer Switch: Installation &amp; Safety Manual</a></p> <p>Comprehensive instruction manual for the Larson Electronics MPD-ATS Series Automatic Transfer Switch (NEMA 3R, Floor/Pad Mounted). Details installation, wiring, safety precautions, and operational guidance for industrial use.</p>
	<p><a href="#">Larson Electronics EXPCMR-IP-POE-DPTZ IP Camera Network Setup Guide and User Manual</a></p> <p>Comprehensive guide for installing and configuring the Larson Electronics EXPCMR-IP-POE-DPTZ 6MP Explosion Proof Digital Pan Tilt Zoom Security Camera, including network setup, SADP Tool usage, and basic operation.</p>