

NAOEVO SM-124INCH

NAOEVO 12-Inch LED Light Bar and 4-Inch Pod Lights with 3-Lead Harness Instruction Manual

Model: SM-124INCH

1. INTRODUCTION

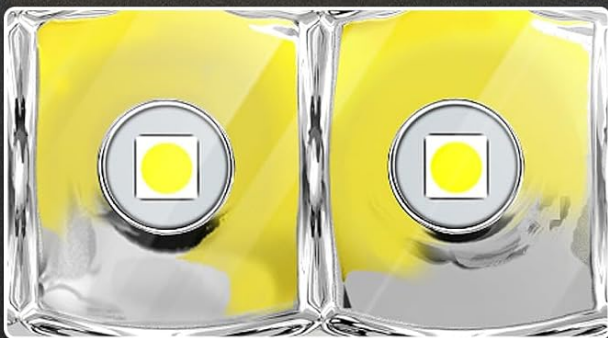
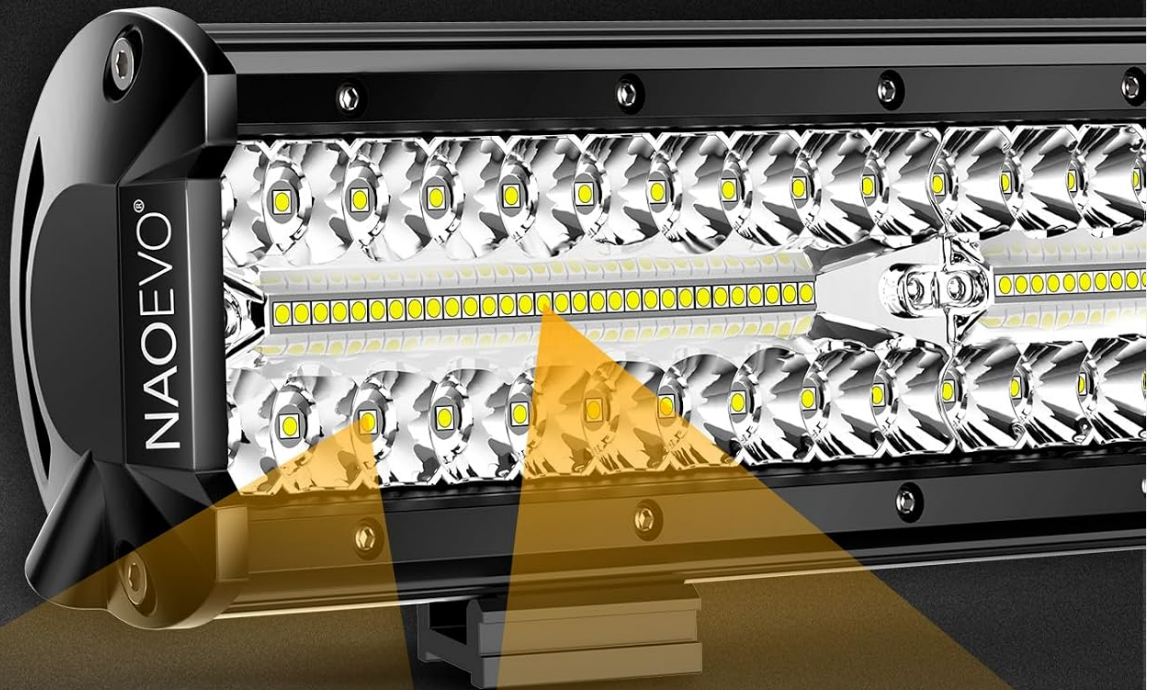
This manual provides detailed instructions for the installation, operation, and maintenance of your NAOEVO 12-inch LED Light Bar and two 4-inch LED Pod Lights with a 3-Lead Wiring Harness. Please read this manual thoroughly before installation and use to ensure proper function and safety. This lighting system is designed for various vehicles including trucks, ATVs, boats, and other off-road applications, providing powerful and reliable illumination.

2. PRODUCT FEATURES

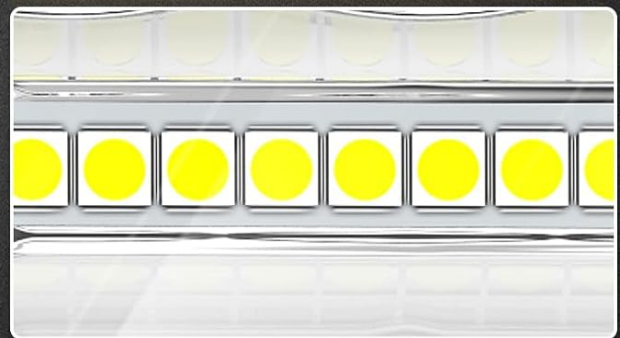
The NAOEVO LED lighting system is engineered with advanced features for superior performance and durability.

- **Ultra Bright Illumination:** The 12-inch LED bar and two 4-inch LED pod lights feature 140 high-quality SMD3030 LED chips, delivering a combined output of 420W and 42000LM with a 6500K white light for clear visibility.
- **Spot & Flood Combo Beam:** Designed with a triple-row and nest reflector cup, offering a 15° spotlight for long-distance focus and a 120° flood beam for wide area coverage.
- **Adjustable Mounting:** Includes a 45° adjustable stand for flexible repositioning and beam direction control.
- **Robust Durability:** Constructed with a die-cast aluminum housing and a sturdy PC lens, ensuring IP68 waterproof rating and resistance to rain, snow, sandstorms, and other harsh conditions.
- **Efficient Heat Dissipation:** Each light features 10 cooling fins on the back to effectively dissipate heat, contributing to a prolonged lifespan of up to 50,000 hours.
- **Comprehensive Wiring Harness:** A 12ft 3-lead wiring harness is included, equipped with a 40A power relay and inline blade fuses for safe and reliable electrical conductivity.

SPOT FLOOD COMBO BEAM



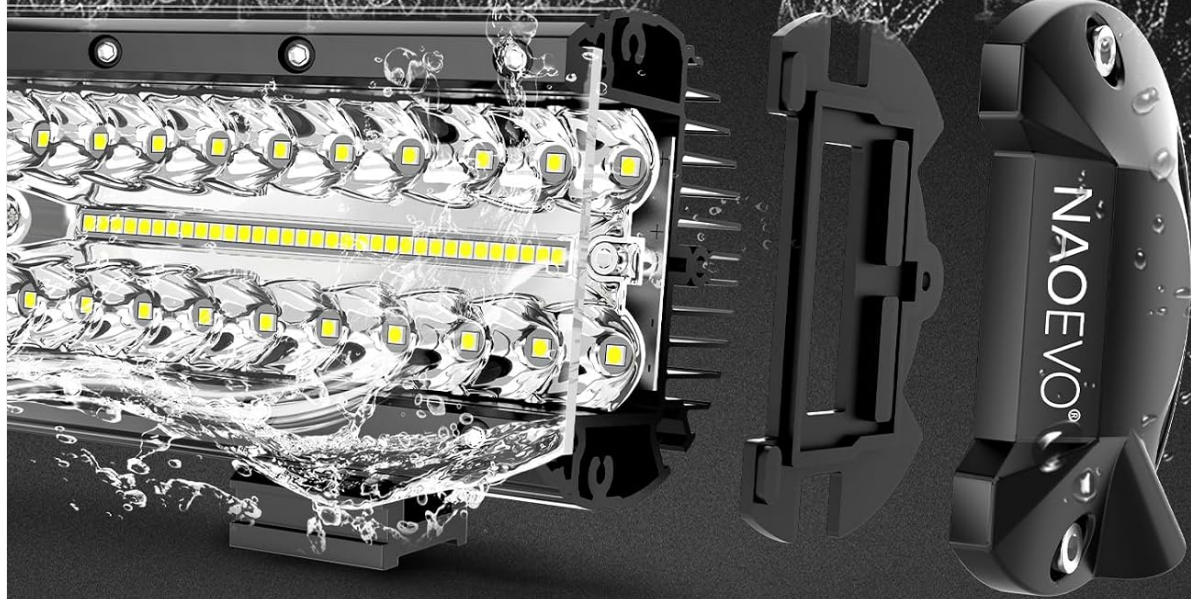
15° Spotlight Achieves High Focus, Long Distance Lighting Effect.



120° Floodlight Enables a Wide Field of Vision While Driving.

Image: Internal components of the LED light bar, showing high-intensity SMD3030 chips and advanced reflector cups for optimal light efficiency.

IP68 WATERPROOF



① Waterproof silica gel strip

② Potting glue sealed wire

③ Rubber pad

NAOEVO®

Other



VS



Image: Illustration of the spot and flood combo beam, detailing the 15-degree spotlight for long distance and 120-degree floodlight for wide area coverage.



**ADJUSTABLE &
DURABLE**



Military Aluminum shell and
Sturdy Brackets avoid accidents

vs



Jerry-built shell and **fragile**
bracket die soon

Image: Exploded view showing the IP68 waterproof design elements, such as the waterproof silica gel strip, potting glue sealed wire, and rubber pad.

LONG-LASTING BRIGHTNESS



LIFESPAN
50,000+ Hour

NAOEVO®



OTHER



Day 7



Day 180



Day 365



Image: The 45-degree adjustable bracket and military-grade aluminum shell, highlighting the durable and flexible design.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 Pc 12-inch LED Light Bar
- 2 Pcs 4-inch LED Pod Lights
- 1 Pc 3-Lead Wiring Harness
- 1 Set Mounting Accessories (brackets, screws, nuts)



Image: Product dimensions and a visual representation of the package contents, including the light bar, pod lights, wiring harness, and mounting accessories.

4. SPECIFICATIONS

Model Number	SM-124INCH
Product Dimensions	22 x 17.2 x 16 cm; 1.88 kg
Brand	NAOEVO
Light Source Type	LED
Wattage	420 watts
Voltage	12 volts
Special Features	Dustproof, Shockproof, Waterproof (IP68)

Lens Material	Polycarbonate
Compatible Vehicle Types	ATV, Boat, Car, Motorcycle, Snowmobile, Tractor, Truck, UTV, Van (Universal Fit)
Auto Part Position	Front, Outside
Country of Origin	China

5. INSTALLATION GUIDE

Careful installation is crucial for optimal performance and safety. It is recommended that installation be performed by a qualified professional if you are unfamiliar with automotive electrical systems.

5.1 Wiring Harness Overview

The included 3-lead wiring harness is designed to connect all three lights (one 12-inch light bar and two 4-inch pod lights) to your vehicle's 12V power source. It includes a relay, fuse, and an on/off switch for convenient control.

PRODUCT DIMENSION

The diagram illustrates the dimensions of the LED lighting components. The main 12-inch LED light bar is shown with a height of 3.15 inches. Below it, two 4-inch LED pods are shown with a height of 4.6 inches. A separate mounting bracket is shown with a width of 2.6 inches and a height of 3.1 inches. To the right, the wiring harness is shown, which includes a relay, fuse, and an on/off switch.

Package List

- 2 Pcs 4Inch LED Pods
- 1 Pc 3-Lead Wiring Harness
- 1 Pc 12Inch LED Light Bar
- 1 Set Mounting Accessories

Image: Simplified wiring diagram illustrating the connection of the light bar and pod lights to the vehicle's power source using the provided harness.



Image: Detailed wiring diagram specifying cable lengths and connections for the battery, switch, and each light unit.

5.2 Connection Steps

1. **Disconnect Battery:** Before starting, disconnect the negative terminal of your vehicle's battery to prevent electrical shorts.
2. **Mount Lights:** Securely mount the 12-inch light bar and two 4-inch pod lights to your desired locations using the provided mounting accessories. Ensure they are stable and the beam direction can be adjusted as needed.
3. **Connect Wiring Harness:**
 - Connect the red wire from the harness (with the ring terminal) to the positive (+) terminal of your vehicle's battery.
 - Connect the black wire from the harness (with the ring terminal) to the negative (-) terminal of your vehicle's battery or a suitable ground point on the chassis.
 - Route the wiring harness to the desired location for the switch.
 - Connect the output leads from the harness to the corresponding connectors on the 12-inch light bar and two 4-inch pod lights. Ensure connections are firm and secure.
4. **Secure Wiring:** Use zip ties or other fasteners to secure all wiring, keeping it away from moving parts, hot surfaces, and sharp edges.
5. **Reconnect Battery:** Reconnect the negative terminal of your vehicle's battery.
6. **Test Functionality:** Turn on the lights using the switch to ensure they are working correctly. Adjust the light bar and pod lights to achieve the desired beam angle.

The wiring harness includes a safeguard relay, a reliable water-resistant fuse holder, and extra blade fuses for multiple safety protections. Spare male connectors are also provided for firm connections and stable conductivity.

6. OPERATION

Operating your NAOEVO LED lights is straightforward using the included switch.

- **Power On/Off:** Use the flexible button switch to turn the lights on or off. The switch typically features indicator lights (e.g., red for off, green for on) to show the power status.
- **Beam Adjustment:** The mounting brackets allow for a 45° adjustment. Loosen the mounting bolts slightly, adjust the angle of the light bar or pod lights to direct the beam as needed, and then securely tighten the bolts.

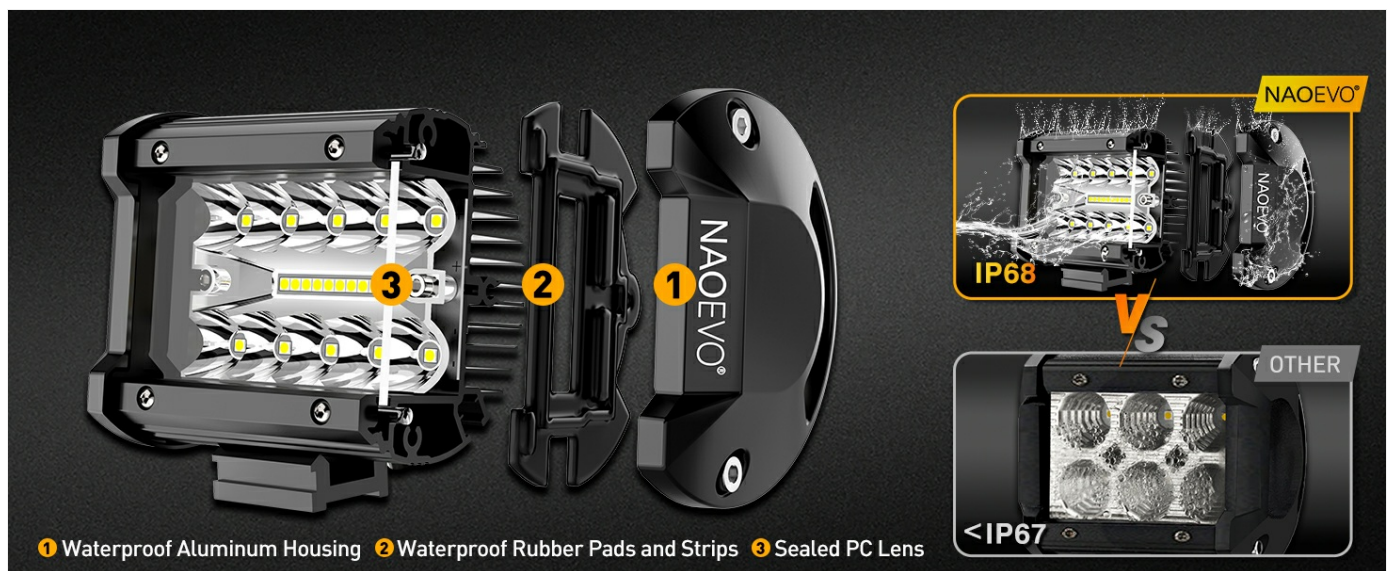


Image: A vehicle driving at night, demonstrating the powerful and wide illumination provided by the LED light bar.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your NAOEVO LED lights.

- **Cleaning:** Periodically clean the lenses with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the PC lens.
- **Inspect Wiring:** Regularly check the wiring harness for any signs of wear, fraying, or loose connections. Ensure all connections remain secure and free from corrosion.
- **Mounting Security:** Verify that all mounting bolts and brackets are tight and secure, especially after off-road use or exposure to vibrations.
- **Waterproof Integrity:** While the lights are IP68 rated, avoid directing high-pressure water jets directly at the seals for extended periods.

ALL IN ONE SET TO USE

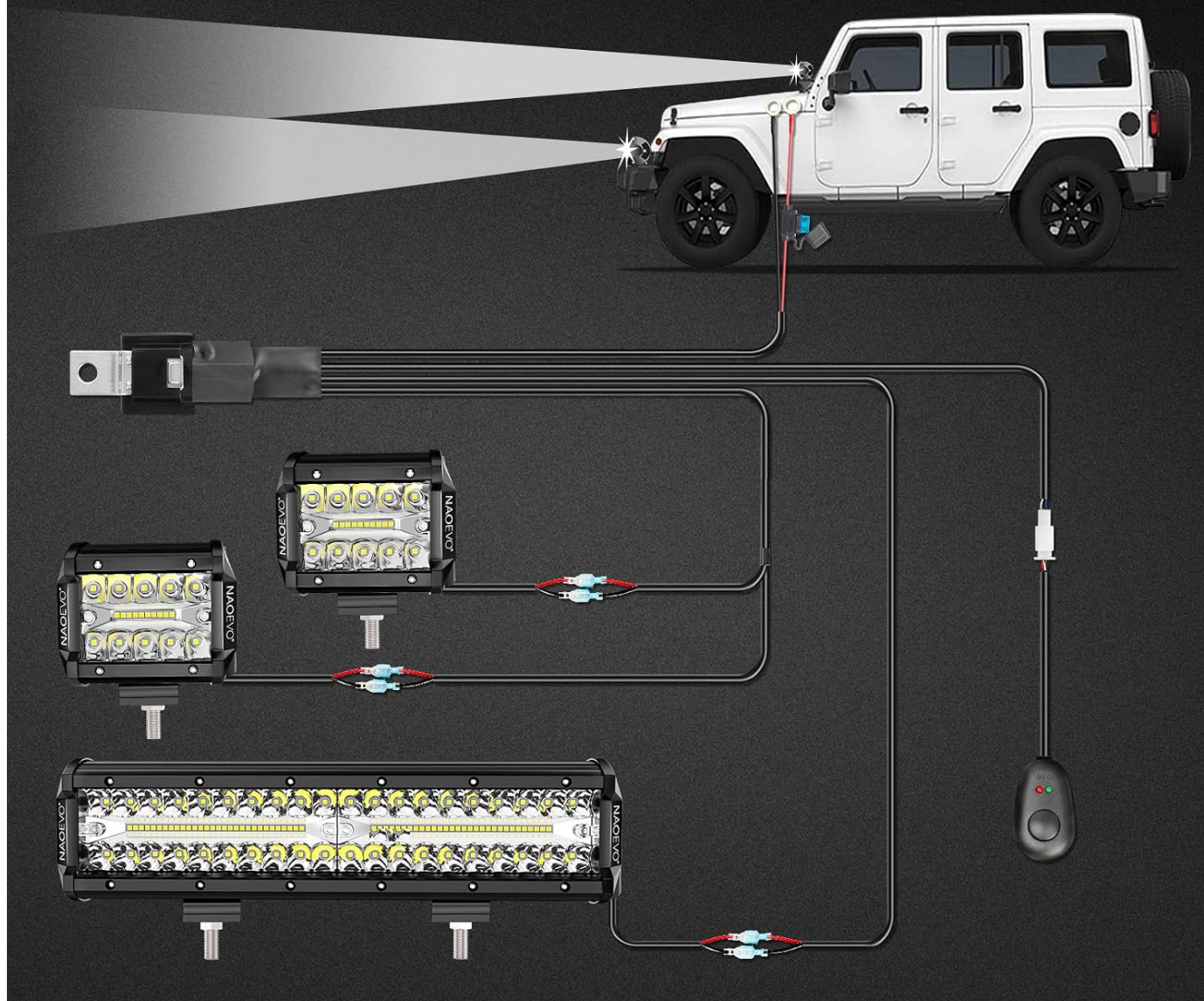


Image: Visual representation of the long-lasting brightness and durability of NAOEVO LED lights over time, indicating a lifespan of 50,000+ hours.

8. TROUBLESHOOTING

If you encounter issues with your NAOEVO LED lights, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights do not turn on	• Loose wiring connection • Blown fuse • Faulty switch • Insufficient power supply	• Check all wiring connections, especially to the battery and lights. • Inspect the inline fuse in the wiring harness and replace if blown. • Test the switch for functionality. • Ensure the vehicle's battery has sufficient charge.

Lights are dim or flickering	• Poor electrical connection • Low voltage • Damaged wiring	• Check and tighten all electrical connections. • Verify the vehicle's voltage output. • Inspect the wiring harness for any damage.
Moisture inside the lens	• Seal compromise • Extreme temperature changes	• Ensure all seals are intact and mounting is secure. • Small amounts of condensation may dissipate naturally. If persistent, contact support.

If these steps do not resolve the issue, please contact NAOEVO customer support for further assistance.

9. APPLICATIONS

The NAOEVO LED light bar and pod lights are versatile and suitable for a wide range of applications, enhancing visibility and safety in various environments.

- **Off-Road Vehicles:** Ideal for Jeeps, ATVs, UTVs, and other off-road vehicles for trail illumination and enhanced visibility in challenging terrain.
- **Trucks and Commercial Vehicles:** Provides powerful auxiliary lighting for trucks, pickups, and other commercial vehicles, useful for work sites or long-distance travel.
- **Boats and Marine Applications:** Waterproof design makes them suitable for boats, providing reliable lighting for navigation or deck illumination.
- **Agricultural Equipment:** Can be used as work lights on tractors and other farm machinery for improved visibility during nighttime operations.
- **Emergency and Utility Vehicles:** Offers additional lighting for various utility and emergency applications.



Image: A vehicle demonstrating the lights' performance in diverse weather conditions, including fog, rain, snow, and dusty environments.



Image: A truck fitted with NAOEVO LED lights, illustrating their application for heavy-duty and commercial vehicles.

	Safeguard Relay Well in safety protection and conversion circuit		Reliable Fuse Water resistant fuse holder, multiple safety protection
	Extra Blade Fuse Overload and short circuit protection		Spare Male Connectors Firm connection and stable conductivity

Image: A tractor utilizing NAOEVO LED lights, showcasing their effectiveness as work lights in agricultural settings.

10. WARRANTY AND SUPPORT

Your NAOEVO LED Light Bar and Pod Lights are covered by a **1-Year Warranty** from the date of purchase.

This warranty covers manufacturing defects and ensures the product meets its specified performance. It does not cover damage resulting from improper installation, misuse, accidents, or unauthorized modifications.

Customer Support:

For warranty claims, technical assistance, or any questions regarding your product, please contact NAOEVO customer support through the retailer where the product was purchased or visit the official NAOEVO website for contact information.

Please have your purchase receipt and product model number (SM-124INCH) available when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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