

## Nilight ZH003

# Nilight ZH003 Series LED Light Bar & Pods Instruction Manual

Model: ZH003

## 1. INTRODUCTION

Thank you for choosing the Nilight ZH003 Series LED Light Bar and LED Pods. This product is engineered to provide powerful and reliable illumination for your off-road adventures, work vehicles, and marine applications. Please read this manual thoroughly before installation and operation to ensure proper use and maximize product lifespan.

## 2. PRODUCT FEATURES

- **Super Bright Beam:** High intensity 3W LED chips and clear PC lens provide super bright white light, dispelling darkness for enhanced safety.
- **Combo Beam:** Appropriate combination of spot beam and flood beam for wide spread and long-distance illumination.
- **Adjustable Mounting Bracket:** The light bar and pods can be adjusted up to 45 degrees, allowing for easy direction changes of the light beam.
- **Better Heat Dissipation:** Special designed die-cast aluminum alloy cooling fins effectively extend the lifespan to over 30,000 hours.
- **Long Lifespan:** Products have over 50,000 hours working lifespan under normal use.
- **IP67 Waterproof:** Designed with a rubber pad and EVA strip to prevent gaps, ensuring excellent waterproof ability.
- **Sturdy Construction:** Made from military-grade aluminum for exceptional strength and durability.
- **Customized High Lumens Chips:** Provides long-time high intensity and stable lighting.

## 3. PACKAGE CONTENTS

The package includes the following components:

- 1 x 126W Combo LED Light Bar
- 4 x 18W Spot LED Light Pods
- Mounting Brackets and Hardware



Image: Complete Nilight ZH003 LED Light Bar and Pods Kit with packaging.

## 4. SPECIFICATIONS

Attribute	Value
Brand	Nilight
Model	ZH003
Item Dimensions (L x W x H)	22 x 4 x 4 inches
Color	126w Light + 4pcs 18w LED Pods
Form Factor	Bar
Auto Part Position	Front
Item Weight	6 Pounds
Material	Aluminum
Remote Control Included?	No
Number of Pieces	4
Wattage (per pod)	18 watts
LED Color Temperature	6000K-6500K

Input Voltage

9-30V DC



Image: Dimensions of the 20-inch LED Light Bar.

## DIMENSION



Image: Dimensions of the 4-inch LED Pods.

## 5. SETUP & INSTALLATION

Proper installation is crucial for optimal performance and safety. Follow these general guidelines, and refer to the provided videos for specific vehicle types.

### 5.1. Pre-Installation Checklist

- Ensure all components listed in Section 3 are present.
- Gather necessary tools (drills, wrenches, wire strippers, etc.).
- Disconnect the vehicle's battery before starting any electrical work.

### 5.2. Mounting the Lights

The light bar and pods come with adjustable mounting brackets. Determine the desired location on your vehicle (e.g., bumper, roof rack, ATV rack) and secure the brackets using the provided hardware. The brackets allow for a 45-degree adjustment to direct the light beam.



**ADJUSTABLE & DURABLE**

*45 degree adjustable* angel is easy to change the direction



**Nilight**



**Sturdy Construction** Military aluminum for exceptional strength

**VS**

**Other**



**Jerry-built** Junky metalwork vulnerable to rust and corrosion

Image: The adjustable mounting bracket allows for precise light direction.

**5.3. Wiring Instructions**

Connect the lights to your vehicle's 9-30V DC power source. Ensure all connections are secure and properly insulated. It is recommended to use a relay and fuse for protection. The lights are designed to be grounded through their body, but ensure a solid ground connection to the vehicle's chassis.

**5.4. Installation Videos**

Watch these official Nilight videos for detailed installation guides on specific vehicle types:

**Installation on a Tractor**

Video: This video demonstrates the process of updating and installing Nilight LED light bars on a tractor, replacing older accessories. It covers removing old lights, preparing the mounting surface, and wiring the new LED lights for optimal performance.

**Installation on an ATV**

Video: This video provides a step-by-step guide for installing a Nilight LED light bar on an ATV. It includes details on mounting the light bar, routing the wiring, and connecting it to the ATV's power system.

## 6. OPERATING INSTRUCTIONS

Once properly installed and wired, operate your Nilight LED lights using the connected switch. The combo beam design provides both a focused spot beam for long-distance visibility and a wide flood beam for broad area illumination. Adjust the light's angle using the mounting brackets to suit your specific needs.



Image: Illustration of the spot and flood beam patterns from the light bar.

### Nighttime Performance on a Lawnmower

Video: This video showcases the effective nighttime performance of the Nilight 126W light bar when installed on a lawnmower, highlighting its ability to illuminate a wide area.

### Testing 18W LED Pod Light

Video: This video demonstrates the light output and performance of the Nilight 18W LED Pods, showing their brightness and beam pattern in various conditions.

## 7. MAINTENANCE

- **Cleaning:** Regularly clean the PC lens with a soft cloth and mild soap to maintain optimal light output. Avoid

abrasive cleaners.

- **Connection Check:** Periodically inspect all wiring connections to ensure they are tight and free from corrosion.
- **Heat Dissipation:** Ensure the cooling fins on the back of the light bar and pods are free from dirt and debris to allow for efficient heat dissipation.
- **Waterproof Integrity:** While IP67 rated, avoid prolonged submersion and ensure seals are intact after any adjustments or impacts.



## HEAT DISSIPATION

*All aluminum alloy streamline design, reducing wind resistance, faster heat dissipation*

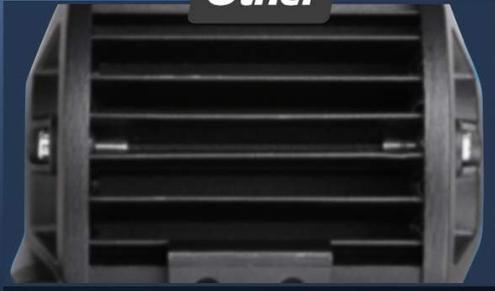
**Nilight**



Die-cast Alu Housing with Thermal Grease increase the heat dissipation ability  
**9PCS** Cooling Fins Fast Heat Dissipation;

**VS**

**Other**



**Only 6pcs** Thin Cooling Fins Slower Cooling Speed; None Thermal Grease Increase the Pressure of the Cooling Fins.

Image: Close-up of the heat dissipation fins on the Nilight LED light bar.



Image: Diagram illustrating the IP67 waterproof design of the Nilight LED light bar.

## 8. TROUBLESHOOTING

- **Lights Not Turning On:**
  - Check all wiring connections for looseness or corrosion.
  - Verify the power source (battery voltage) is within the 9-30V DC range.
  - Inspect the fuse for any breaks and replace if necessary.
  - Ensure the switch is functioning correctly.
- **Lights Are Dim or Flickering:**
  - Check for loose or corroded connections, especially ground wires.
  - Ensure adequate voltage supply; low voltage can cause dimming.
  - Inspect the wiring for any damage or shorts.

## 9. WARRANTY

This Nilight product comes with a **2-Year Warranty** from the date of purchase. The warranty covers defects in

materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

## 10. SUPPORT

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For further assistance, technical support, or warranty inquiries, please visit the official Nilight website or contact their customer service department. You can find more information and products at the [Nilight Store on Amazon](#).