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Nilight 18021F-B

Nilight LED Light Pods User Manual

Brand: Nilight | Model: 18021F-B

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Nilight 4-inch 60W LED Light Pods. Please read this manual thoroughly before installation and use to ensure proper function and safety. Keep this manual for future reference.

2. PRODUCT FEATURES

- **Brightness:** Powerful 60W LED light bar, high-quality LED chips and clear PC lens, this LED pod emits 6000k pure white light, effectively lighting up the dark road during night.
- **Combo Beam:** Appropriate combination of spot beam and flood beam for wide spread and further distance illumination.
- **Sliding Mounting Bracket:** The sturdy bracket can firmly fix the light bar, providing quakeproof stability when passing through rugged terrain.
- **Waterproof Rate:** IP67 rated, with a seamless protective housing and waterproof glue, ensuring great performance in waterproof, dustproof, and quakeproof conditions.
- **Better Heat Dissipation:** Special designed 6063 Aluminum profile with thermal grease can improve the heat dissipation ability.



Figure 2.1: The Nilight LED Light Pods as they appear in their packaging.



Figure 2.2: Detailed dimensions of the Nilight LED Light Pod, showing its compact 4-inch size.



Figure 2.3: Illustration of the brightness features, including high lumen chips, customized reflective cups, and improved PC lens for optimal light output.



Figure 2.4: Diagram showcasing the heat dissipation design, featuring 6063 Aluminum profile and thermal grease for efficient cooling.



Figure 2.5: Breakdown of the IP67 waterproof construction, highlighting the rubber pad, silicone seals, and silicone stopper for robust protection against water and dust.

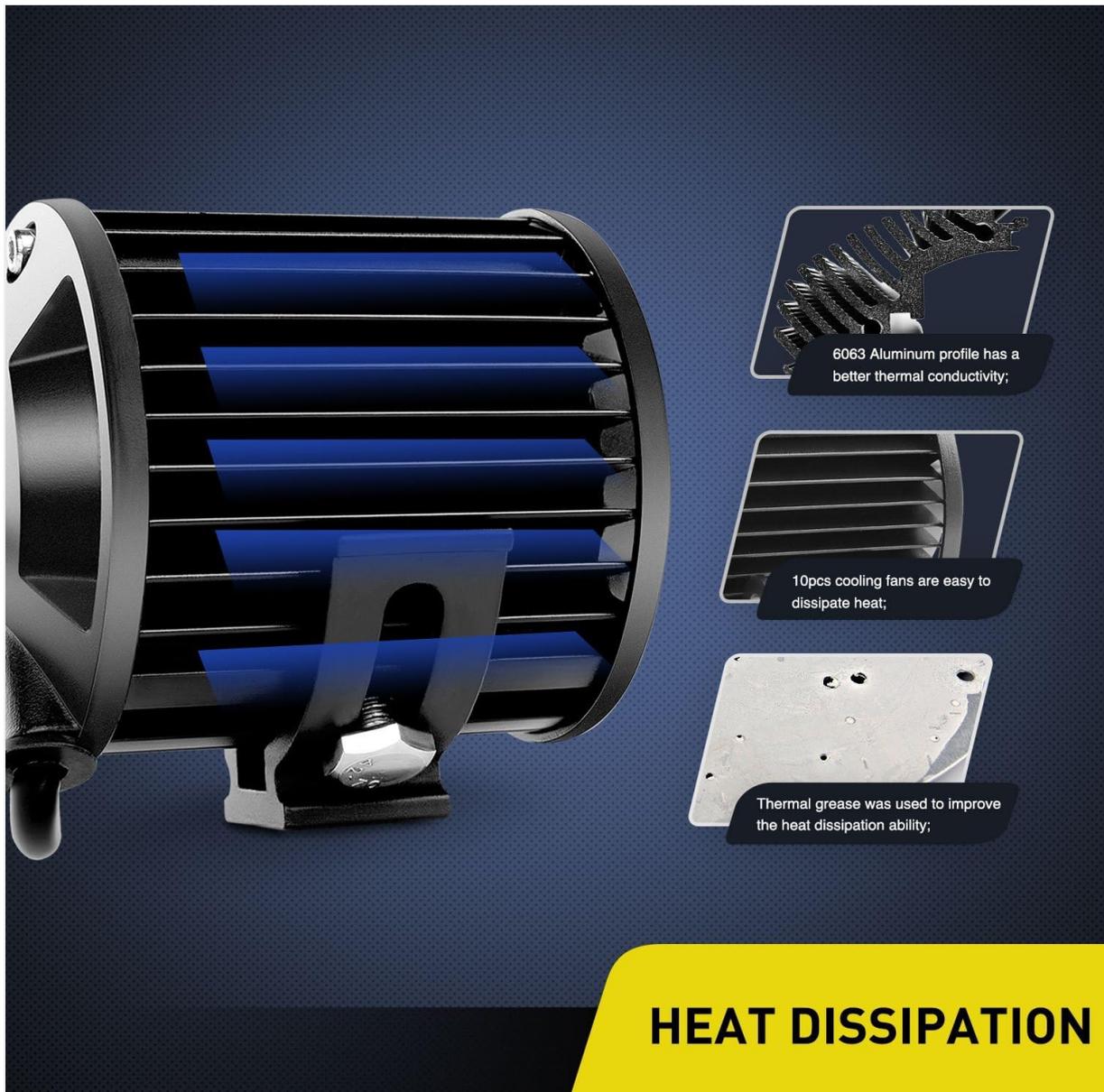


Figure 2.6: Demonstrates the 45-degree adjustable angle of the light pod and the durable die-cast aluminum housing.

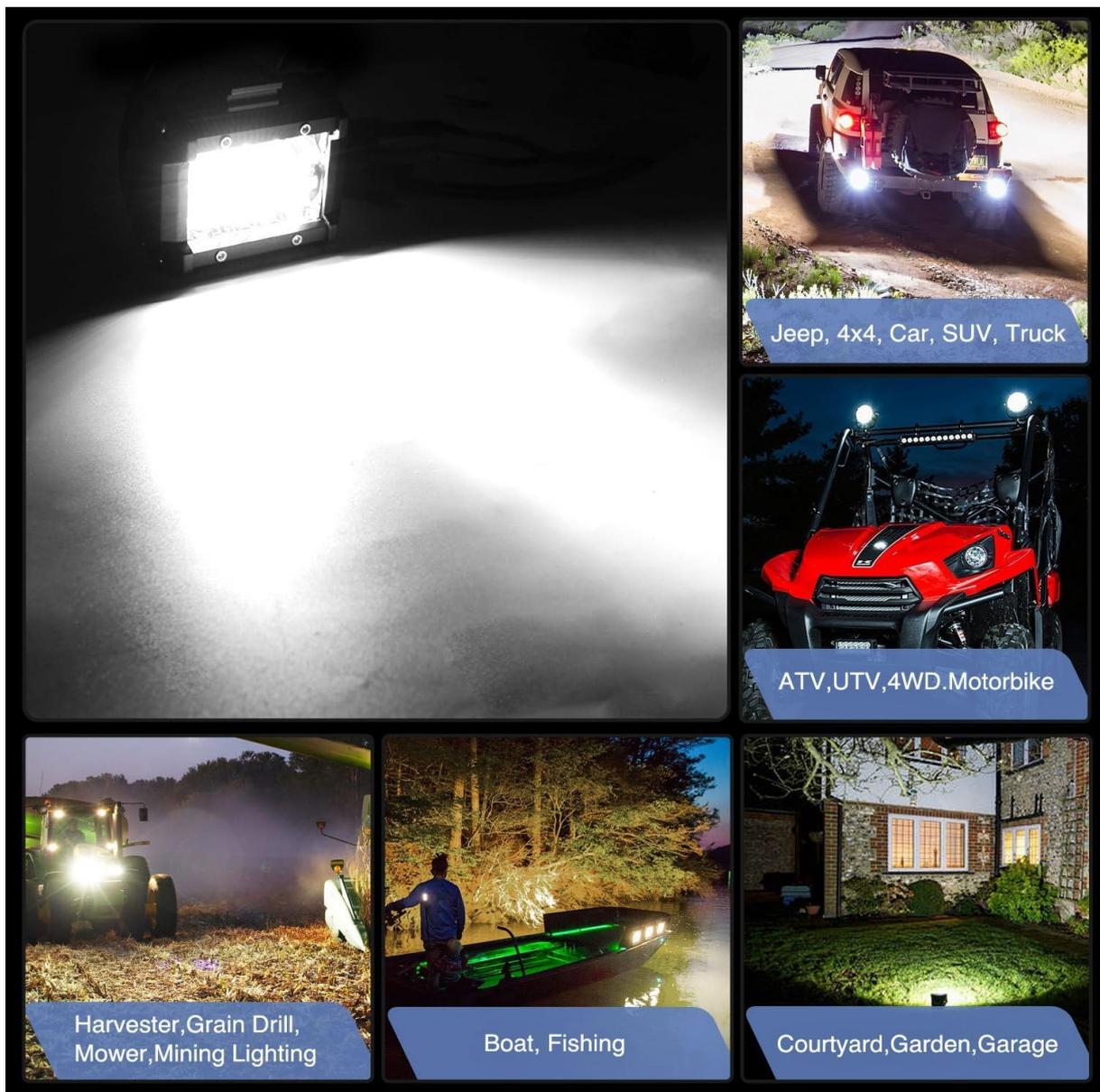


Figure 2.7: Examples of various applications for the LED light pods, including off-road vehicles, ATVs, boats, and agricultural machinery.

3. WHAT'S IN THE BOX

- 2 x 4-Inch LED Light Pods

4. SPECIFICATIONS

Attribute	Detail
Model Number	18021F-B
Power	60 Watts
Brightness	6000 Lumens
Color Temperature	6500 Kelvin
Voltage	12 Volts

Amperage	15 Amps
Waterproof Rating	IP67
Material	6063 Aluminum Alloy Profile, High quality LED Chips, PC Lens
Item Weight	1 Pound
Product Dimensions	0.39 x 0.39 x 0.39 inches
Mounting Type	Pole Mount, Handlebar Mount, Panel Mount, Picatinny Mount, Car Mount

5. SETUP

5.1. Pre-Installation Check

- Ensure all components listed in 'What's in the Box' are present.
- Verify that your vehicle's electrical system is compatible with 12 Volts.
- Disconnect the vehicle's battery before starting any electrical work.

5.2. Mounting the Light Pods

1. Identify a suitable mounting location on your vehicle (e.g., roof, bumper, A-pillar). The sliding mounting bracket allows for flexible positioning.
2. Secure the mounting brackets to the desired location using appropriate hardware. Ensure the surface is strong enough to support the light pods and withstand vibrations.
3. Attach the LED light pods to the mounting brackets. The 45-degree adjustable angle allows you to direct the light beam as needed. Tighten all bolts securely to prevent movement.

5.3. Wiring Connection

1. Connect the positive (+) wire of the light pod to a fused 12V power source (e.g., battery, auxiliary fuse box). It is highly recommended to use a wiring harness with a relay and fuse for protection.
2. Connect the negative (-) wire of the light pod to a reliable ground point on the vehicle chassis.
3. If using a switch, connect it according to the wiring harness instructions.
4. Ensure all connections are secure and insulated to prevent short circuits and corrosion.

6. OPERATING INSTRUCTIONS

Once properly installed and wired, operating your Nilight LED Light Pods is straightforward:

1. Reconnect the vehicle's battery.
2. Activate the light pods using the installed switch.
3. Adjust the angle of the light pods as necessary to achieve the desired illumination pattern (combination of spot and flood).

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your LED light pods:

- **Cleaning:** Periodically clean the lens and housing with a soft cloth and mild soap solution. Avoid abrasive cleaners or harsh chemicals that could damage the lens or finish.

- **Inspection:** Regularly check all mounting hardware and electrical connections for tightness and signs of wear or corrosion. Tighten any loose fasteners.
- **Lens Condition:** Inspect the PC lens for any cracks or damage. While durable, severe impacts can compromise its integrity.

8. TROUBLESHOOTING

If you encounter issues with your Nilight LED Light Pods, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light pods do not turn on	No power, loose connection, blown fuse, faulty switch	Check power supply to the light pods. Inspect all wiring connections for tightness. Check and replace any blown fuses. Test the switch for proper function.
Light is dim or flickering	Insufficient power, poor ground connection, damaged wiring	Ensure adequate voltage supply. Verify the ground connection is clean and secure. Inspect wiring for cuts or damage.
Moisture inside the lens	Seal compromise	While IP67 rated, extreme conditions or improper installation can lead to moisture. Ensure all seals are intact and mounting is secure. If persistent, contact support.

Durability Demonstration Video

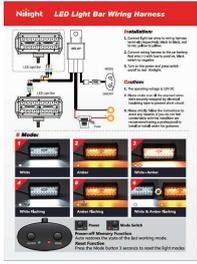
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Video 8.1: This video demonstrates the robust durability of Nilight LED light bars under various stress tests, including impacts, extreme temperatures, and water submersion. (Duration: 2:39)

9. WARRANTY AND SUPPORT

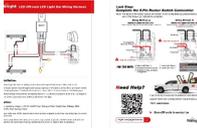
Nilight LED Light Pods are backed by a **2-Year Warranty**, ensuring quality and reliability. For warranty claims, technical assistance, or any other inquiries, please contact Nilight customer support.

You can also refer to the official PDF user manual for additional information [Download User Manual \(PDF\)](#)



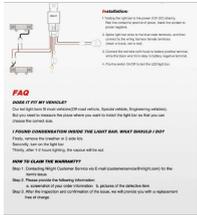
[Nilight LED Light Bar Wiring Harness Installation Guide](#)

Detailed installation and operation guide for the Nilight LED Light Bar Wiring Harness, covering wiring, modes, and safety precautions. Features a 12V DC system with power-off memory function.



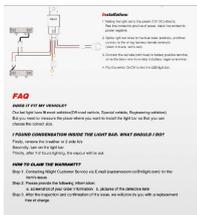
[Nilight LED Off-road Light Bar Wiring Harness Installation Guide](#)

Comprehensive guide for installing the Nilight LED Off-road Light Bar Wiring Harness, including wiring methods, specifications, and safety precautions.



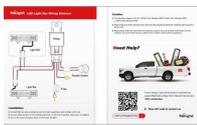
[Nilight LED Light Bar Installation and FAQ - ZH303 Model](#)

Learn how to install your Nilight ZH303 LED light bar, troubleshoot common issues like condensation, and understand the warranty claim process. Includes wiring diagram explanation.



[Nilight LED Light Bar Installation Guide & Troubleshooting](#)

Comprehensive guide for installing your Nilight LED light bar, including wiring instructions, troubleshooting common issues like condensation, and warranty claim procedures. Includes a detailed description of the wiring diagram.



[Nilight LED Light Bar Wiring Harness Installation Guide](#)

Step-by-step instructions and safety precautions for installing a Nilight LED Light Bar Wiring Harness. Includes wiring diagram explanation and support contact information.



[Nilight Spiral RGB LED Whip Light \(12V\) - Installation & Operation Guide](#)

Comprehensive guide for the Nilight Spiral RGB LED Whip Light (12V), covering mounting, electrical hook-up, remote control operation, features like brightness and color adjustment, and troubleshooting tips. Includes 2-year warranty information.