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> Nilight 2PCS 3Inch Motorcycle Led Pods 1300LM Built-in EMC Driving Light Super Spotlight Offroad Fog Auxiliary Lamp for Motorbike SUV
ATV Truck Boat Tractor Forklift White User Manual

Nilight W0110

Nilight 2PCS 3Inch Motorcycle Led Pods User Manual

Brand: Nilight | Model: W0110

1. PRODUCT OVERVIEW

The Nilight 2PCS 3Inch Motorcycle LED Pods are designed as auxiliary driving lights, fog lights, or off-road lights for various vehicles including motorcycles, SUVs, ATVs, trucks, boats, tractors, and forklifts. These lights feature a super focused 10° spot beam, Osram LED chips for high lumen output, and a durable, waterproof construction with built-in EMC for EMI/RFI protection.



Image 1.1: Two Nilight 3-inch LED Pods shown with their product packaging, highlighting key features and beam patterns.

2. SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or short circuits.
- Ensure all wiring connections are secure and properly insulated to prevent moisture ingress and electrical hazards.
- Mount the lights securely to prevent them from becoming loose during vehicle operation, which could cause a hazard.
- Verify that the operating voltage of the lights (10-30V DC) matches your vehicle's electrical system.
- Do not look directly into the light beam when the lights are on, as this can cause eye damage.
- Consult local regulations regarding auxiliary lighting installation and usage on public roads.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and undamaged:

- 2 x 3-Inch LED Offroad Auxiliary Light Pods
- 1 x Pack of Mounting Brackets & Hardware (bolts, nuts, washers, Allen key)



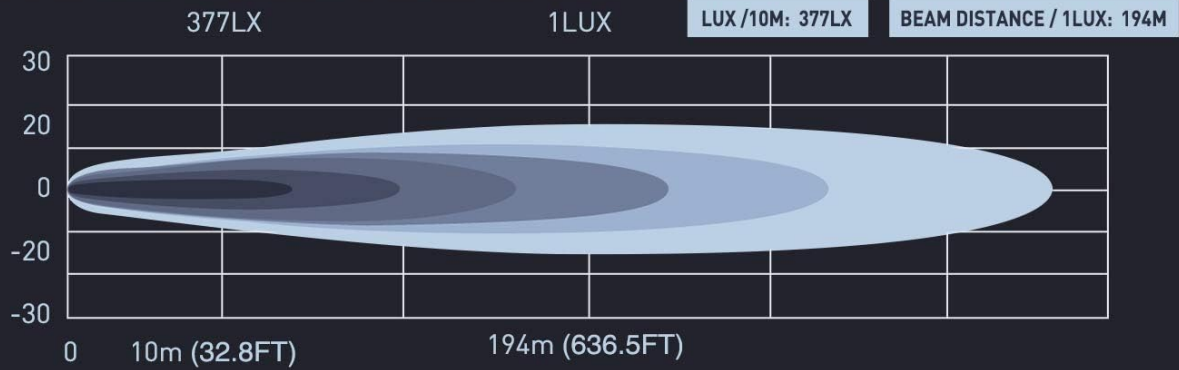
Image 3.1: Detailed view of the two LED light pods, their dimensions, and the included mounting brackets and hardware components.

4. PRODUCT SPECIFICATIONS

Feature	Specification
LED Chips	Osram LED chips
LED Power	10W/PC

Feature	Specification
Raw Lumen	1300LM/PC
Effective Lumen	948LM/PC
Lighting Performance	194 Meter @ 1 LUX, 10 Meter @ 377 LUX
Beam Type	Spot
Beam Angle	10° spot
Operating Voltage	10-30V DC
Color Temperature	5700K
Operating Temperature	-40~85.0 °C
Lifespan	50,000+ Hours
Waterproof Rating	IP67
Material	Aluminum housing, aluminum substrate circuit board, PC lens
Dimensions	Approximately 8"L x 9"W x 2"H (overall package), 3.16"L x 2.2"H x 2"D (individual light)
Weight	1.32 pounds (total item weight)
Special Features	Built-in EMC for EMI/RFI protection

LIGHTING PERFORMANCE



NILIGHT



10°super focused light beam,
shoots further distance at
635Feet



VS

OTHERS



Average 60°or 30° focused,
less brighter, only shoots
about 300feet



Image 4.1: A graph illustrating the lighting performance and beam distance of the Nilight LED pods, showing a focused 10-degree spot beam reaching 194 meters at 1 LUX.

5. SETUP & INSTALLATION

This section provides general guidelines for installing your Nilight LED Pods. Professional installation is recommended if you are unfamiliar with vehicle electrical systems.

5.1. Mounting the Lights

1. **Choose a Location:** Select a mounting location on your vehicle that provides optimal light projection and does not obstruct your primary lighting or vehicle sensors. Ensure the location is sturdy enough to support the lights.
2. **Position the Brackets:** Use the provided adjustable mounting brackets. These brackets allow for horizontal or vertical mounting without affecting the light's beam pattern.
3. **Secure the Lights:** Attach the brackets to the desired location using appropriate fasteners (not always included,

depending on vehicle type). Then, secure the LED pods to the brackets using the supplied bolts, nuts, and washers. Tighten all fasteners to ensure the lights are firmly in place.

4. **Adjust Angle:** The brackets allow for angle adjustment. Position the lights to achieve the desired beam direction.



Image 5.1: An illustration demonstrating the adjustable mounting capabilities of the LED pods, allowing for various orientations such as horizontal or vertical mounting on a vehicle.

5.2. Wiring Connections

The lights operate on 10-30V DC. A wiring harness (not included with this specific product variant) is typically used for safe and convenient installation, including a switch and fuse.

1. **Power Source:** Connect the positive wire of the LED pods to a fused 12V or 24V power source (e.g., directly to the battery via a relay and switch, or to an existing auxiliary circuit).
2. **Ground Connection:** Connect the negative wire of the LED pods to a reliable ground point on the vehicle chassis.
3. **Switch Integration:** If using a separate switch, ensure it is rated for the current draw of the lights and properly wired into the circuit.

4. **EMC Protection:** These lights feature built-in EMC (Electromagnetic Compatibility) to minimize radio interference and flickering.



Image 5.2: A visual representation highlighting the built-in EMC feature of the Nilight LED pods, indicating compliance with EN55015 CE standards for EMI/RFI protection.

6. OPERATING INSTRUCTIONS

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

- **Power On/Off:** Activate the lights using the connected switch (if applicable).
- **Beam Pattern:** These lights produce a 10° super spot beam, designed for long-distance illumination.
- **Brightness:** Each light provides 1300 raw lumens, with an effective lumen output of 948LM, ensuring significant brightness for off-road or auxiliary use.

INSANE BRIGHTNESS



WATTAGE
10W/PC

RAW LUMEN
1300LM/PC

EFFECTIVE LUMEN
948LM/PC

NILIGHT



Quality Osram LEDs, wire bonding use **gold wire** for better **anti oxidation**, **electrical conductivity** and **ductility**. Features stable light output & longer lifespan.

VS

OTHERS



Average LED chips, wire bonding use cheap **aluminum alloy wire**, owns poor ductility and electrical conductivity, easy to be oxidized & break, results in dim or dead LED soon.

Day 1



Day 180



Day 270



Day 1



Day 180



Day 270

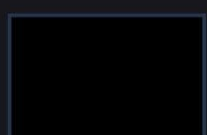


Image 6.1: A comparison illustrating the brightness and longevity of Nilight's Osram LED chips versus generic LEDs, emphasizing stable output and a long lifespan of 50,000+ hours.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your LED pods.

- **Cleaning:** Periodically clean the lens and housing with a soft cloth and mild soap and water. Avoid abrasive cleaners that could scratch the lens.
- **Inspection:** Regularly check mounting hardware for tightness and signs of corrosion. Inspect wiring for any fraying, cracks, or loose connections.
- **Waterproof Integrity:** The lights are IP67 rated. Ensure the seals remain intact. Avoid high-pressure washing directly at close range to the light seals.
- **Heat Dissipation:** The aluminum housing is designed for efficient heat dissipation. Ensure the fins are free from excessive dirt or debris that could impede cooling.



Image 7.1: An internal view of the LED pod's design, illustrating the die-cast aluminum housing and aluminum substrate circuit board engineered for optimal heat dissipation and maintaining operating temperature.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Lights do not turn on.	No power, loose connection, blown fuse, faulty switch.	Check power supply, inspect all wiring connections, replace fuse if blown, test switch functionality.
Lights flicker or dim.	Unstable power, loose connection, voltage drop.	Ensure stable voltage supply (10-30V DC), tighten connections. The built-in EMC helps prevent flickering.

Problem	Possible Cause	Solution
Moisture inside the lens.	Compromised seal, extreme temperature changes.	Ensure proper installation and check for any damage to the housing or seals. Small amounts of condensation may dissipate naturally.
Radio interference (EMI/RFI).	Electrical noise from the lights affecting vehicle electronics.	These lights have built-in EMC to minimize interference. If interference persists, check wiring for proper grounding and shielding.

If the problem persists after attempting these solutions, please contact Nilight customer support for further assistance.

9. PRODUCT VIDEOS

No official product videos from the seller were provided in the product data for embedding in this manual.

10. WARRANTY AND SUPPORT

For specific warranty information and customer support, please refer to the documentation included with your purchase or visit the official Nilight website or their Amazon brand store.

Nilight Brand Store: [Visit Nilight Store on Amazon](#)

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