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NEWBOLER LIG013 (200 Lumen)

NEWBOLER LIG013 Bicycle Headlight User Manual

Model: LIG013 (200 Lumen)

1. Product Overview

The NEWBOLER LIG013 Bicycle Headlight is a high-performance, USB rechargeable light designed for enhanced visibility and safety during night riding. It features a bright 200 lumen output, a digital display for real-time battery and mode information, and a robust IPX5 waterproof aluminum alloy construction. This headlight is suitable for a wide range of vehicles, including mountain bikes, road bikes, e-bikes, scooters, and even helmets.



Image: The NEWBOLER LIG013 Bicycle Headlight installed on a bike, demonstrating its waterproof capability in rainy conditions.



Image: Detail of the headlight's military-grade aluminum alloy construction, highlighting its durability and heat dissipation properties.

2. Package Contents

Upon opening the package, please verify that all components are present and undamaged. The standard package includes:

- 1 x NEWBOLER Bicycle Headlight (LIG013)
- 1 x Bicycle Rear Light
- 2 x Aluminum Brackets for Headlight Mounting
- 1 x Silicone Anti-slip Mat
- 1 x Tail Light Bracket
- 1 x Plastic Spacer for Bracket
- 1 x Rubber Gasket for Bracket

- 2 x USB Charging Cables (Type-C)
- 2 x Screws
- 1 x Screw Plate Handle
- 1 x User Manual (this document)



Image: A visual representation of all items included in the NEWBOLER Bicycle Headlight package.

3. Setup and Installation

Follow these steps to properly install your NEWBOLER Bicycle Headlight on your handlebars:

1. **Choose Mounting Location:** Select a suitable position on your bicycle handlebars. Ensure the chosen spot allows for clear light projection and does not obstruct your view or other controls. The compatible handlebar diameter size is 20-30 mm.
2. **Attach Brackets:** Place the two aluminum brackets around the handlebar at your desired location. Use the silicone anti-slip mat and rubber gasket to ensure a secure fit and prevent scratching.
3. **Secure Brackets:** Insert the screws through the brackets and tighten them using the provided screw plate handle. Ensure the brackets are firmly attached and do not rotate freely.
4. **Mount Headlight:** Slide the NEWBOLER headlight onto the secured aluminum brackets. The double nut construction of the bracket ensures a solid connection.
5. **Adjust Angle:** Once mounted, adjust the angle of the headlight to ensure optimal illumination of the path ahead without blinding oncoming traffic.
6. **Install Tail Light:** Attach the rear tail light to your seat post or another suitable rear location using its rubber band or bracket for 360° safety.



Image: An exploded view illustrating the double aluminum alloy brackets, aluminum shell, screws, and Type-C charging port, essential for secure mounting.

4. Operating Instructions

The NEWBOLER LIG013 headlight is designed for ease of use with intuitive controls and a clear digital display.

4.1 Powering On/Off

- **To Power On:** Press and hold the power button (located on the top of the unit) for approximately 2 seconds. The digital display will illuminate.
- **To Power Off:** Press and hold the power button again for approximately 2 seconds.

4.2 Lighting Modes

The headlight features 4 distinct lighting modes. Briefly press the power button to cycle through the modes:

1. **Floodlight Mode:** Provides a wide beam for broad area illumination.
2. **Spotlight Mode:** Focuses the beam for longer distance visibility.
3. **High Light Mode:** Combines floodlight and spotlight for maximum brightness.
4. **Flash Mode:** A flashing light for increased visibility to others.



Image: Visual representation of the four lighting modes and their corresponding battery life estimates on the digital display.

4.3 Digital Display Function

The integrated digital display provides crucial information at a glance:

- **Battery Level:** Shows the remaining battery percentage (1%-100%).
- **Power Level/Usage Time:** Indicates the estimated remaining usage time for the current lighting mode.
- **Charging Status:** Displays charging progress when connected to a power source.



Image: A detailed view of the digital display, showing battery percentage and estimated runtimes for different light modes.

4.4 Brightness and Range

The 200 lumen model features high-performance P9 LED beads, offering a range of 200-500 meters in high beam mode. Its anti-glare design prevents dazzling oncoming pedestrians or vehicles while providing consistent brightness.



Image: A visual comparison demonstrating the brightness and beam pattern of the 200 Lumen Bicycle Headlight against a typical car headlight, highlighting its effectiveness.

4.5 Estimated Working Times

The 200 Lumen model, equipped with a 2000mAh battery, provides the following approximate runtimes:

Mode	Approximate Runtime (200 Lumen)
Floodlight	2.5 hours
Spotlight	2 hours
High Light (All Bright)	1.5 hours
Flash	3 hours

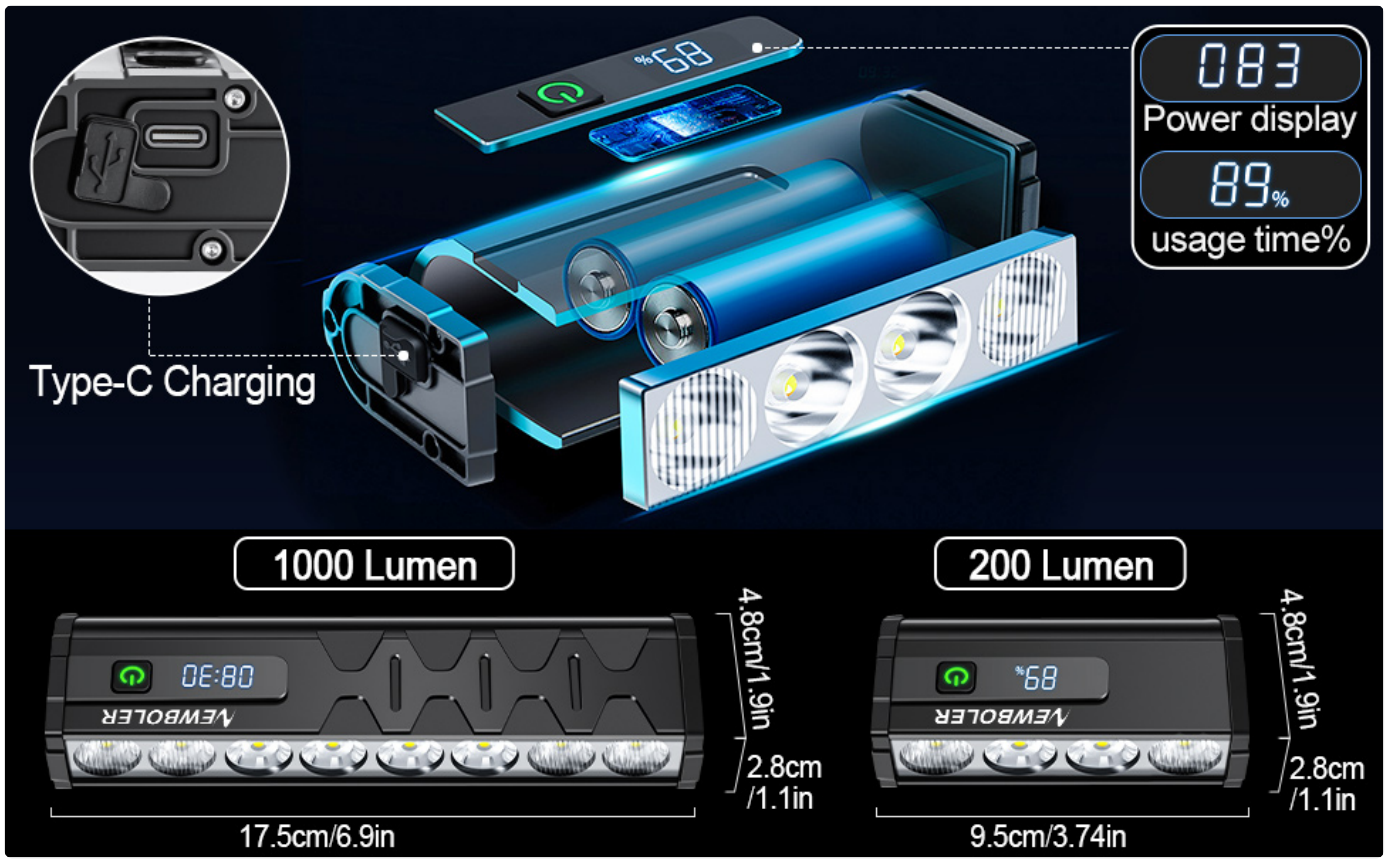


Image: A comprehensive table detailing the estimated working times for both 200 Lumen and 1000 Lumen models across various light modes.

5. Charging the Device

The NEWBOLER LIG013 headlight is equipped with a high-quality 2000mAh USB-C rechargeable lithium battery.

- **Charging Port:** Locate the USB-C charging port on the device.
- **Connect Cable:** Insert the provided USB-C charging cable into the headlight's port and connect the other end to a compatible USB power source (e.g., computer, wall adapter, power bank).
- **Charging Indicator:** The digital display will show the charging status and battery percentage.
- **Charging Protection:** The built-in smart chip provides charging protection and high-temperature protection.

Note: While the light can be removed for charging, it is designed to be charged directly on the bike if a suitable USB power source is available nearby.



Image: An internal diagram illustrating the 2000mAh 18650 battery, emphasizing its high endurance and long battery life.



Image: A detailed view of the Type-C charging port and the internal structure of the headlight, including battery and LED components.

6. Care and Maintenance

Proper care will extend the lifespan of your NEWBOLER Bicycle Headlight.

- **Cleaning:** Wipe the light body and lens with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the finish or lens.
- **Water Resistance:** The headlight has an IPX5 waterproof rating, meaning it is protected against low-pressure water jets from any direction. It is safe for use in rain and snow, but should not be submerged in water. Ensure the USB port rubber ring is securely closed when not charging to maintain water resistance.
- **Storage:** Store the headlight in a cool, dry place when not in use. If storing for an extended period, charge the battery to approximately 50% every 3-6 months to maintain battery health.
- **Impact:** While made of durable aluminum alloy, avoid dropping the light or subjecting it to severe impacts, which could damage internal components.



Image: The headlight in a rainy environment, illustrating its IPX5 waterproof and dustproof capabilities, reinforced by its one-piece die-casting process and highly sealed USB port.

7. Troubleshooting

If you encounter issues with your NEWBOLER Bicycle Headlight, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on.	Battery is depleted.	Charge the headlight using the provided USB-C cable.
Light turns off unexpectedly.	Low battery.	Check the digital display for battery level and recharge if necessary.

Problem	Possible Cause	Solution
Digital display is not working.	Device is off or battery is critically low.	Ensure the device is powered on. If not, charge the battery.
Light output seems dim.	Low battery or incorrect mode.	Recharge the battery. Cycle through modes to select a brighter setting.
Light is loose on handlebars.	Brackets not tightened sufficiently.	Re-tighten the aluminum brackets using the screw plate handle. Ensure silicone mat is in place.

If the problem persists after trying these solutions, please contact NEWBOLER customer support for assistance.

8. Technical Specifications

Detailed specifications for the NEWBOLER LIG013 Bicycle Headlight (200 Lumen model):

Feature	Specification
Model Name	LIG013
Brightness	200 Lumen
Battery Capacity	2000mAh
Power Source	Battery Powered (USB Rechargeable)
Material	Aluminum Alloy
Water Resistance Level	IPX5 (Waterproof)
Product Dimensions	6.9"L x 1.9"W x 1.1"H (17.5cm L x 4.8cm W x 2.8cm H)
Item Weight	0.29 Kilograms
Mounting Type	Handlebar Mount
Compatible Handlebar Diameter	20-30 mm
Number of Settings	4 Lighting Modes
Color	Black
Certifications	CE, ROHS



Image: A diagram illustrating the dimensions of both the 1000 Lumen and 200 Lumen models, along with details on Type-C charging and internal battery structure.

9. Warranty and Support

NEWBOLER is committed to providing high-quality products and excellent customer service.

9.1 Warranty Policy

Your NEWBOLER Bicycle Headlight comes with a **1-year free return and refund policy** from the date of purchase. This warranty covers manufacturing defects and issues arising from normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper maintenance.

9.2 After-Sales Support

NEWBOLER offers **lifetime after-sales support** for this product. If you have any questions, concerns, or require assistance with your headlight, please do not hesitate to contact our support team. We are dedicated to ensuring your satisfaction.

Contact Information:

Please refer to the contact details provided on the product packaging or the official NEWBOLER website for the most up-to-date support information.

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