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ROCKBROS 400 Lumens

ROCKBROS 400 Lumens Rechargeable Bicycle Headlight User Manual

Model: 400 Lumens

1. Introduction

This manual provides detailed instructions for the proper use, installation, and maintenance of your ROCKBROS 400 Lumens Rechargeable Bicycle Headlight. Please read this manual thoroughly before operating the device to ensure optimal performance and safety.

Key Features:

- **Brightness:** 400 lumens output, illuminating up to 200 meters with an 85° wide angle.
- **Mounting:** Hanging-style mount compatible with bike out-front mounts, bike computer mounts, and GPS mounts, including GoPro interfaces.
- **Battery Life:** Integrated 2000mAh battery providing up to 6.8 hours of continuous lighting (in 180LM mode).
- **Smart Functions:** Intelligent gear memory and temperature control system for enhanced safety and battery longevity.
- **Durability:** IPX6 waterproof rating and high-quality aluminum alloy construction.



Figure 1: ROCKBROS 400 Lumens Bicycle Headlight mounted on a bike, showcasing its compact design and integration with a bike computer mount.

2. Setup

2.1 Package Contents

Verify that all components are present:

- ROCKBROS 400 Lumens Bicycle Headlight

- Mounting Bracket (GoPro compatible)
- USB Type-C Charging Cable
- User Manual (this document)

2.2 Charging the Headlight

Before first use, fully charge the headlight. The device features a 2000mAh rechargeable battery.

1. Locate the USB Type-C charging port on the headlight.
2. Connect the provided USB Type-C cable to the headlight and a compatible USB power source (e.g., computer, wall adapter).
3. The charging indicator light will illuminate. A full charge typically takes approximately 3.5 hours.
4. Once fully charged, disconnect the cable.

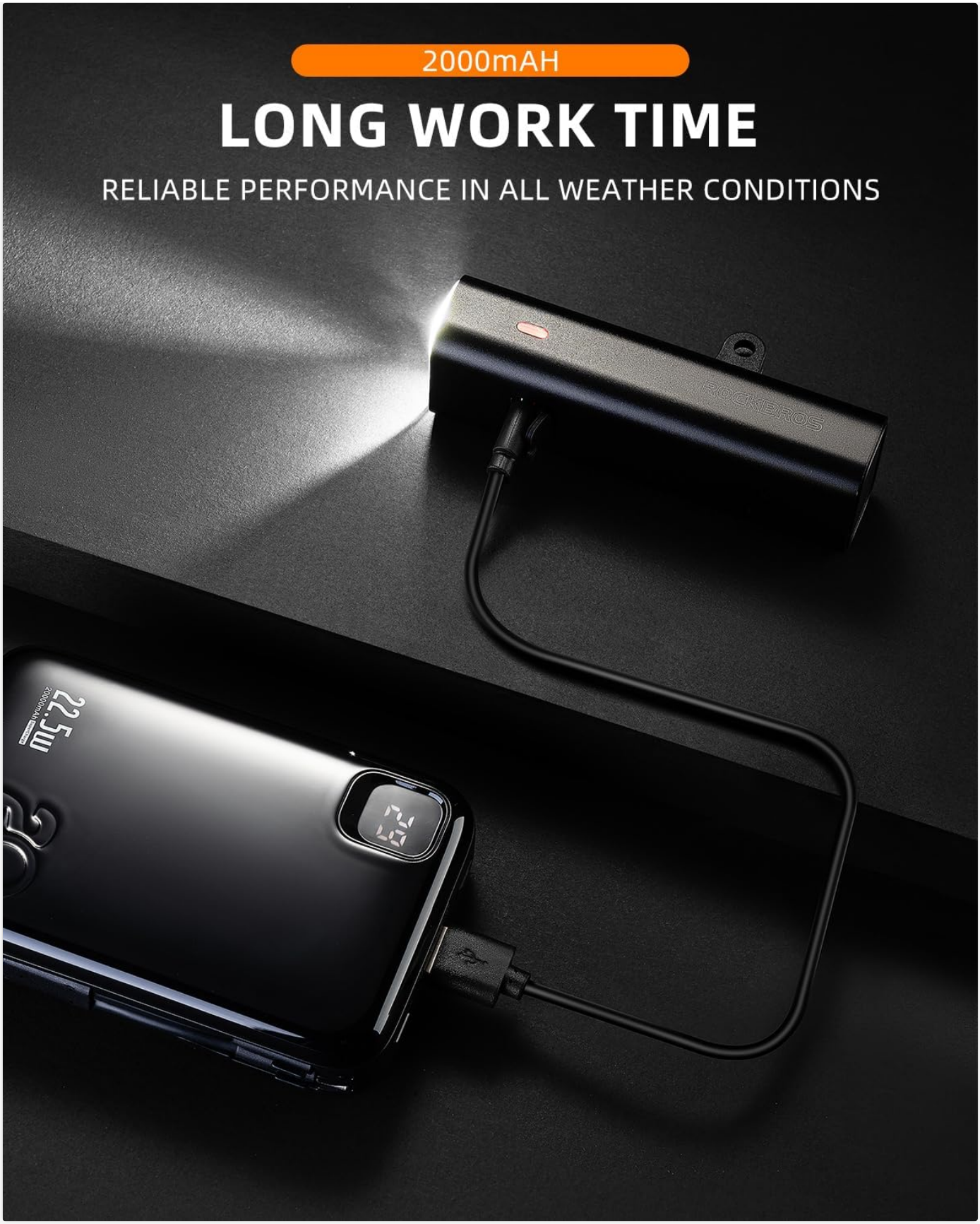


Figure 2: The ROCKBROS headlight connected to a power bank for charging via its USB-C port.

2.3 Mounting the Headlight

The ROCKBROS headlight features a hanging-style mount designed for integration with existing bike out-front mounts, bike computer mounts, or GPS mounts that support a GoPro-style interface.

1. Ensure your bike has a compatible out-front mount with a GoPro-style attachment point.
2. Align the headlight's mounting bracket with the GoPro interface on your bike mount.

3. Secure the headlight using the provided screw and nut, ensuring it is firmly attached and does not wobble.
4. Adjust the angle of the headlight to ensure optimal illumination of the path ahead without dazzling oncoming traffic.



Figure 3: The headlight mounted in a hanging style beneath a bike computer, demonstrating a clean handlebar setup.



Figure 4: Different perspectives of the headlight securely mounted, showing its integration with various bike setups.

3. Operating Instructions

3.1 Power On/Off and Mode Selection

The headlight features a single button for power control and mode cycling.

- **Power On:** Press and hold the power button for approximately 1-2 seconds.
- **Cycle Modes:** Once powered on, short press the power button to cycle through the available lighting modes.
- **Power Off:** Press and hold the power button for approximately 1-2 seconds.

The headlight has an intelligent gear memory function that remembers the last used mode when powered off and on again.

3.2 Lighting Modes and Endurance

The ROCKBROS 400 Lumens headlight offers four distinct lighting modes:

Mode	Lumens	Approximate Endurance
A: High	400	2.5 hours
B: Medium	280	4 hours
C: Low	180	6.5 hours
D: Flash Mode	—	8 hours

Note: Endurance times are approximate and may vary based on environmental conditions and battery age.

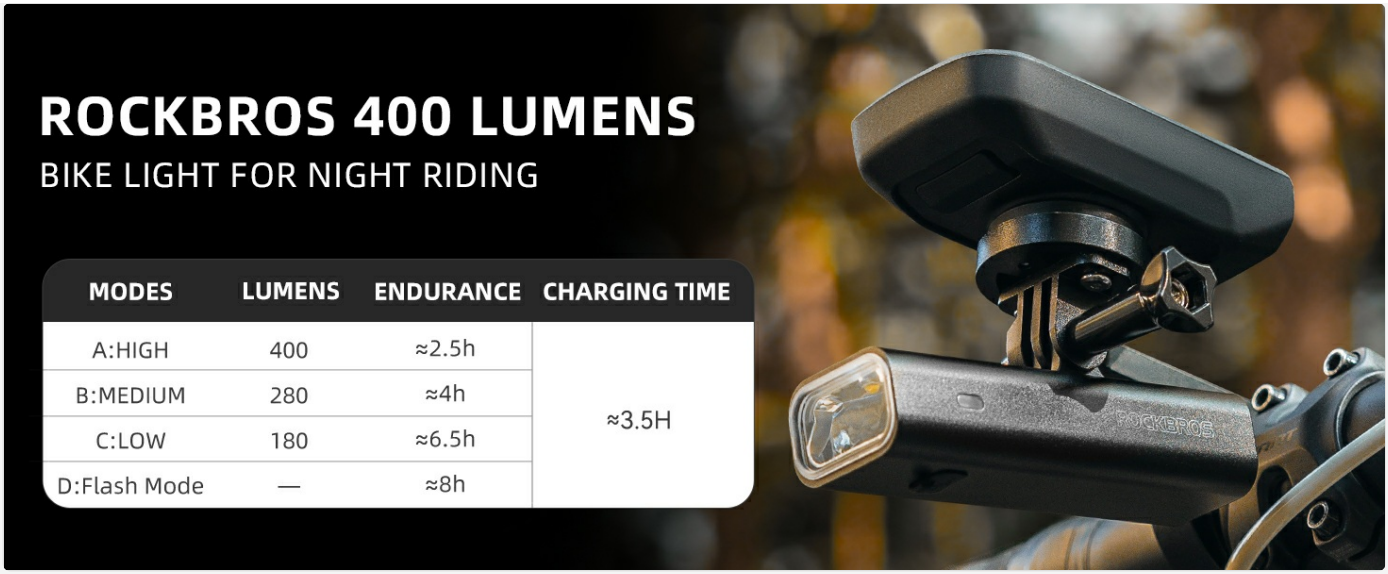


Figure 5: Overview of the headlight's modes, brightness levels, and battery endurance.

3.3 Beam Pattern and Usage Tips

The headlight provides a wide and far-reaching beam pattern for optimal visibility.

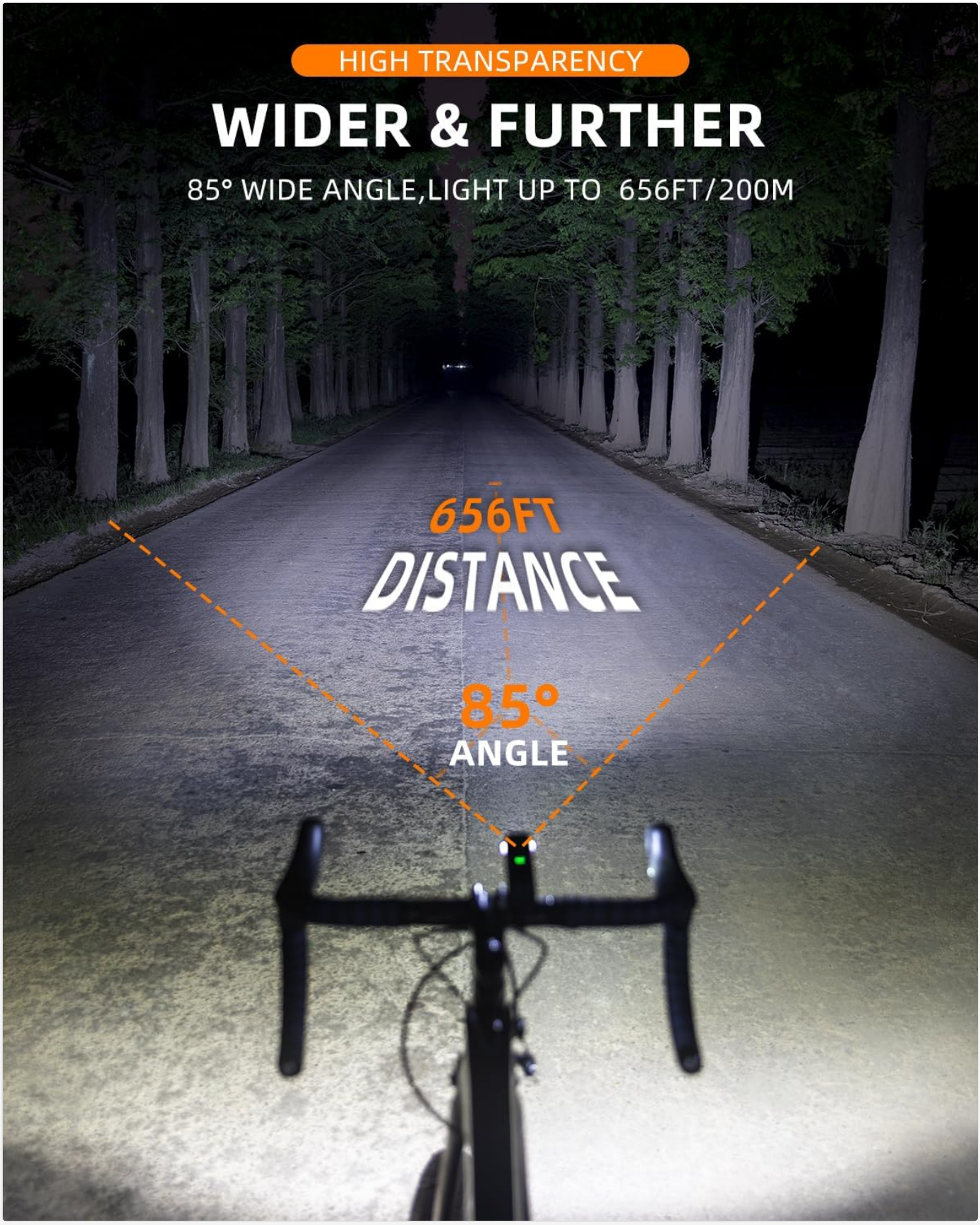


Figure 6: Illustration of the headlight's wide 85-degree beam angle and effective illumination distance of up to 200 meters.

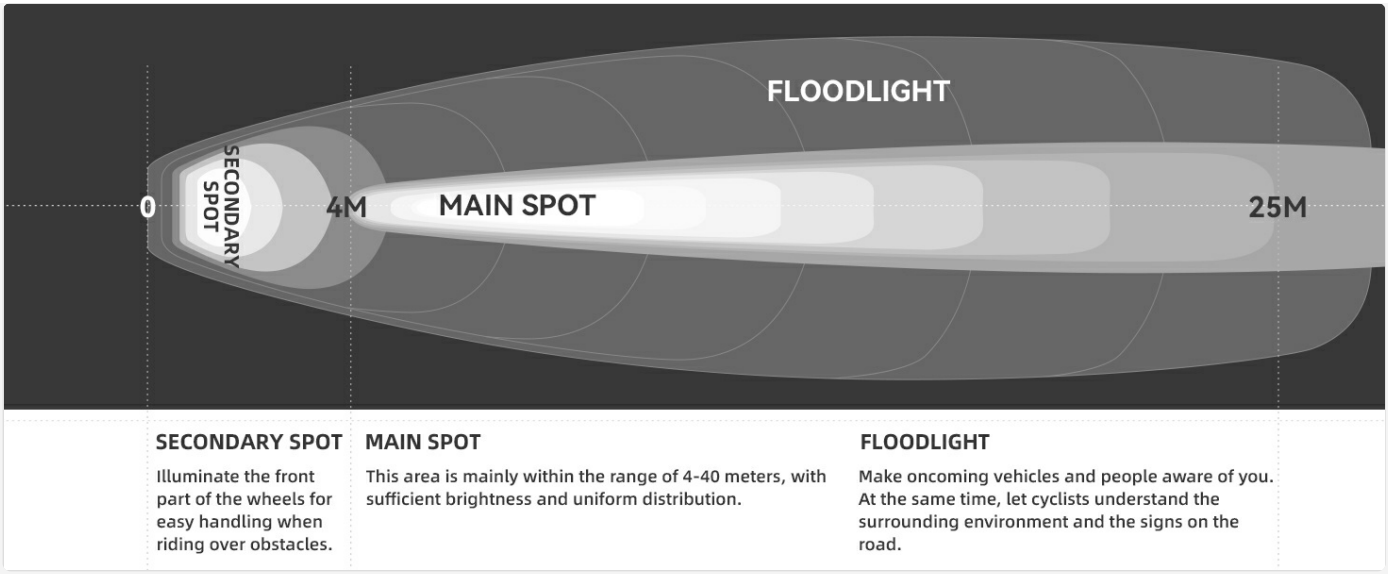


Figure 7: Detailed breakdown of the light's beam pattern, including main spot, secondary spot, and floodlight areas for comprehensive visibility.

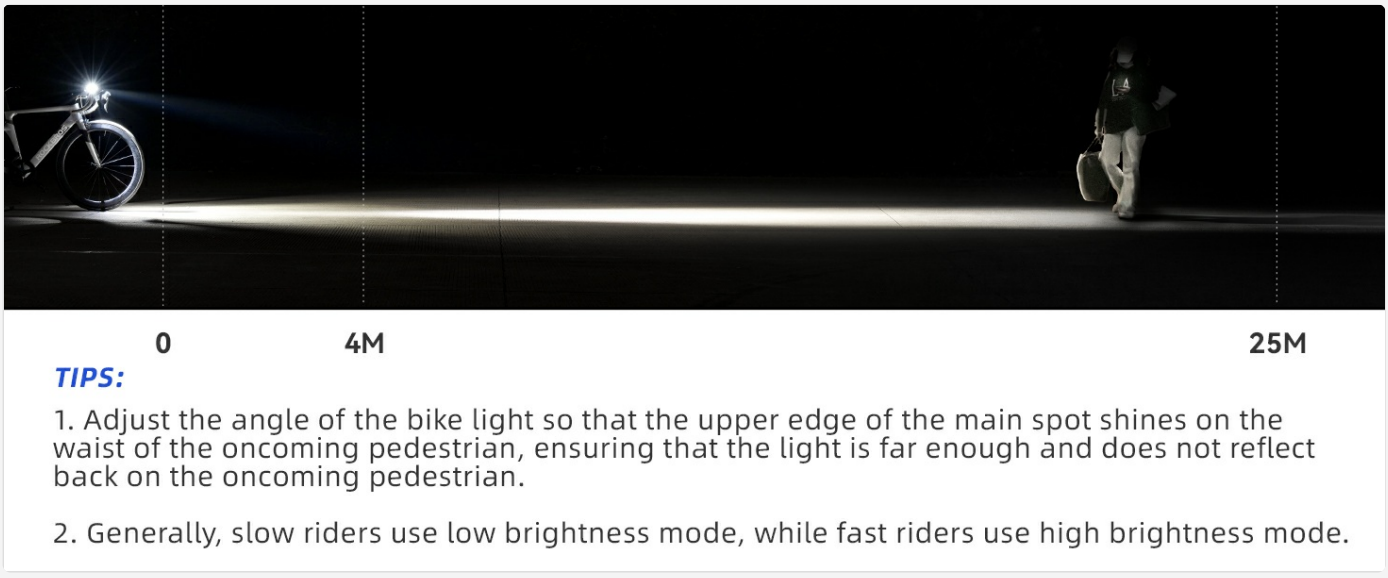


Figure 8: Visual guide and tips for adjusting the bike light angle to avoid dazzling pedestrians and selecting appropriate brightness modes.

Beam Adjustment Tips:

1. Adjust the angle of the bike light so that the upper edge of the main spot shines on the waist of an oncoming pedestrian. This ensures sufficient illumination distance without reflecting light back into their eyes.
2. For slower riding speeds, use a low brightness mode. For faster riding or darker conditions, a high brightness mode is recommended.

4. Maintenance

4.1 Cleaning

- Wipe the headlight body with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- Ensure the lens is clean for optimal light output.

4.2 Battery Care

- To prolong battery life, avoid fully discharging the battery frequently.

- If storing the light for an extended period, charge it to approximately 50-70% every 3-6 months.
- The intelligent low power protection function will automatically downshift or power off the light to protect the battery when charge is critically low.

4.3 Storage

- Store the headlight in a cool, dry place away from direct sunlight and extreme temperatures.
- Ensure the charging port cover is securely closed to maintain IPX6 water resistance.

5. Troubleshooting

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

Problem	Possible Cause	Solution
Light does not turn on.	Battery is depleted.	Charge the headlight fully using the provided USB Type-C cable.
Light turns off unexpectedly or dims.	Low battery or overheating protection activated.	Recharge the battery. If overheating, allow the light to cool down. The intelligent temperature control system will automatically downshift or power off to prevent damage.
Shortened battery run time.	Battery degradation over time or frequent use of high brightness modes.	Ensure the light is fully charged before each ride. Consider using lower brightness modes when maximum output is not required. Battery capacity naturally decreases over its lifespan.
Light flickers or behaves erratically.	Loose connection or internal fault.	Ensure the charging port is clean and dry. If the issue persists after charging, contact customer support.

6. Specifications

Feature	Detail
Model	400 Lumens
Brand	ROCKBROS
Brightness	400 Lumens (Max)
Battery Capacity	2000mAh
Charging Time	Approx. 3.5 hours (USB Type-C)
Water Resistance	IPX6 (Waterproof)
Material	Aluminum Alloy
Item Weight	150 Grams
Product Dimensions	4.4 x 1.2 x 1.2 inches (11 x 3 x 3 cm)
Mounting Type	Hanging-style, GoPro compatible (for out-front, computer, GPS mounts)

Feature	Detail
Number of Modes	4 (High, Medium, Low, Flash)



Figure 9: Visual summary of the ROCKBROS 400 Lumens headlight's main features and technical specifications.

7. Warranty and Support

Specific warranty details for the ROCKBROS 400 Lumens Rechargeable Bicycle Headlight are not provided in this manual. For warranty claims, technical support, or further inquiries, please refer to the official ROCKBROS website or contact your retailer directly.
You can visit the official ROCKBROS store for more information:ROCKBROS Store

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