

KNOG Rider (450I)

KNOG PWR Modular Bike Light - Rider (450I) Instruction Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your KNOG PWR Modular Bike Light, model Rider (450I). This innovative bicycle light features a modular design, integrated device charging capabilities, and programmable LED light modes to enhance your cycling experience.

2. PRODUCT OVERVIEW

The KNOG PWR Modular Bike Light is designed for versatility and performance. Key features include:

- **Built-in Device Charger:** The power bank component features a 2200 mAh battery with a USB rechargeable port, allowing you to charge your phone or cycling computer on the go.
- **Programmable Modes:** Customize your light modes using the Mode Maker app, offering flexibility for various riding conditions.
- **Thermal Management:** Equipped with an automatically regulating light output system for optimal performance and longevity.
- **Full LED Light:** Provides a wide elliptical beam for broader and brighter road coverage, with a maximum output of 450 lumens.
- **Premium Materials:** Constructed with a CNC machined anodized aluminum body and a ridged heat-sink for durability and efficient heat dissipation.



Figure 2.1: The KNOG PWR Modular Bike Light - Rider (450l).

3. SETUP AND ASSEMBLY

Follow these steps to assemble and mount your KNOG PWR Modular Bike Light:

1. **Attach Light Head to Power Bank:** Align the logos on the light head and the power bank. Gently push the light head onto the power bank until it clicks securely into place. Ensure a firm connection for proper operation.
2. **Mounting the Light:** The light comes with a handlebar mount. To attach the light to the mount, align the light with the mount's slot. Push the pin on the mount into one of the two available slots on the light body.
3. **Securing the Mount to Handlebar:** Position the mount on your handlebar. Use the thumbwheel to tighten the mount securely onto the handlebar. The side mount allows for flexible placement, either

directly on top of the bar or underneath your headstem for a more integrated look.



Figure 3.1: Light head and power bank components ready for assembly.

Video 3.1: This video demonstrates the assembly of the light head and power bank, as well as the mounting process on a bicycle handlebar. It also shows how to operate the light modes and utilize the device charging feature.

4. OPERATING INSTRUCTIONS

The KNOG PWR Modular Bike Light features a simple twist mechanism for operation:

- **Power On/Off:** To turn the light on, twist and hold the light head. To turn it off, twist and hold again.
- **Change Modes:** Once the light is on, twist and release the light head to cycle through the available light modes. The Rider (450l) model offers various modes, including Max (450 lumens), Mid, Stamina, Pulse, Strobe, and Eco-flash. Specific lumen outputs for each mode can be customized via the Mode Maker app or found in detailed product specifications.

5. DEVICE CHARGING FUNCTIONALITY

The power bank component of your KNOG PWR light can be used to charge other USB-powered devices:

- Locate the USB-A output port on the power bank.

- Connect your device (e.g., smartphone, GPS unit) to the power bank using a compatible USB cable.
- The power bank will begin charging your device. The LED indicators on the power bank will show the remaining battery level.

6. PROGRAMMABLE MODES

Unlock the full potential of your KNOG PWR light by customizing its modes:

- Download the **Mode Maker app** to your computer.
- Connect your KNOG PWR light to your computer using a USB cable.
- Use the app interface to select different light modes, adjust brightness levels, and set custom runtimes to suit your specific needs and preferences.

7. MAINTENANCE

To ensure the longevity and optimal performance of your KNOG PWR Modular Bike Light, follow these maintenance guidelines:

- **Cleaning:** Wipe the light body and lens with a soft, damp cloth. Avoid using abrasive cleaners or solvents, as these can damage the finish or optical components.
- **Storage:** Store the light in a cool, dry place when not in use. If storing for extended periods, ensure the battery is partially charged (around 50%) to maintain battery health.
- **Charging:** Regularly charge the power bank to ensure it is ready for use, especially if you rely on its device charging feature.

8. TROUBLESHOOTING

If you encounter issues with your KNOG PWR Modular Bike Light, refer to the following common solutions:

- **Light Not Turning On:** Ensure the light head is securely attached to the power bank. Check the battery level indicators; if low, charge the device.
- **Light Flickering or Dim:** This may indicate a low battery. Recharge the power bank. If the issue persists, ensure the light head is clean and free of debris.
- **Mount Instability:** Ensure the thumbwheel on the handlebar mount is tightened sufficiently. If the mount feels loose, re-adjust and tighten. Verify that the light is correctly seated in the mount's slots.
- **Device Not Charging:** Confirm that the USB cable is properly connected to both the power bank and your device. Check if the power bank has sufficient charge.

For further assistance, please contact KNOG customer support.

9. SPECIFICATIONS

Feature	Specification
Brand	KNOG
Model Name	PWR Lights (Rider 450I)
Light Output Maximum	450 Lumens

Power Source	Battery Powered
Water Resistance Level	Waterproof (IP67)
Item Weight	4 ounces
Mounting Type	Handlebar Mount
Product Dimensions	10"L x 8"W x 2"H
Number of Settings	4 (customizable via app)
Material	Multi (CNC machined anodized aluminum)
Color	Black

10. WARRANTY AND SUPPORT

Your KNOG PWR Modular Bike Light - Rider (450l) is covered by a **1-year Manufacturer Warranty**. For warranty claims, technical support, or any product-related inquiries, please refer to the official KNOG website or contact their customer service directly.