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› ECOBENE 12V 50W LED Auxiliary Light for Motorcycle, Model ECO-KD168 User Manual

ECOBENE ECO-KD168

ECOBENE 12V 50W LED Auxiliary Light for Motorcycle, Model ECO-KD168 User Manual

Comprehensive instructions for installation, operation, and maintenance.

INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your ECOBENE 12V 50W LED Auxiliary Light set, model ECO-KD168. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the product.

The ECOBENE ECO-KD168 is a pair of CE-approved, black-colored, lenticular LED auxiliary lights designed for motorcycles. They feature a quick and easy 3-wire connection system and include a wireless radio frequency remote control with a USB-C rechargeable internal battery, offering up to 450 days of standby time. A slim relay box, mounting hardware, and screws are provided for installation.

PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 2 x ECOBENE 12V 50W LED Auxiliary Lights (25W each)
- 1 x Wireless Remote Control (USB-C rechargeable)
- 1 x Slim Relay Box
- Mounting Brackets (various types)
- Screws and Fasteners
- Wiring Harness (3-wire connection)



Image: All components included in the ECOBENE ECO-KD168 LED auxiliary light kit, showing the two lights, wiring, relay box, remote control, and various mounting brackets.

SPECIFICATIONS

Feature	Detail
Model	ECO-KD168
Light Type	LED Auxiliary Light (Lenticular)
Power (per light)	25 W
Operating Voltage	12-17 V DC
Luminosity (High/Low Beam)	3000 lm
Lighting Distance	> 380 m

Ingress Protection (IP) Rating	IP67 (Submersible up to 1 meter)
Drop Protection	1 m
Fixing Diameter	22 - 32 mm
Remote Control Battery Life (Standby)	Up to 450 days
Color	Black
Certification	CE Homologated, ANSI/FSC Standard

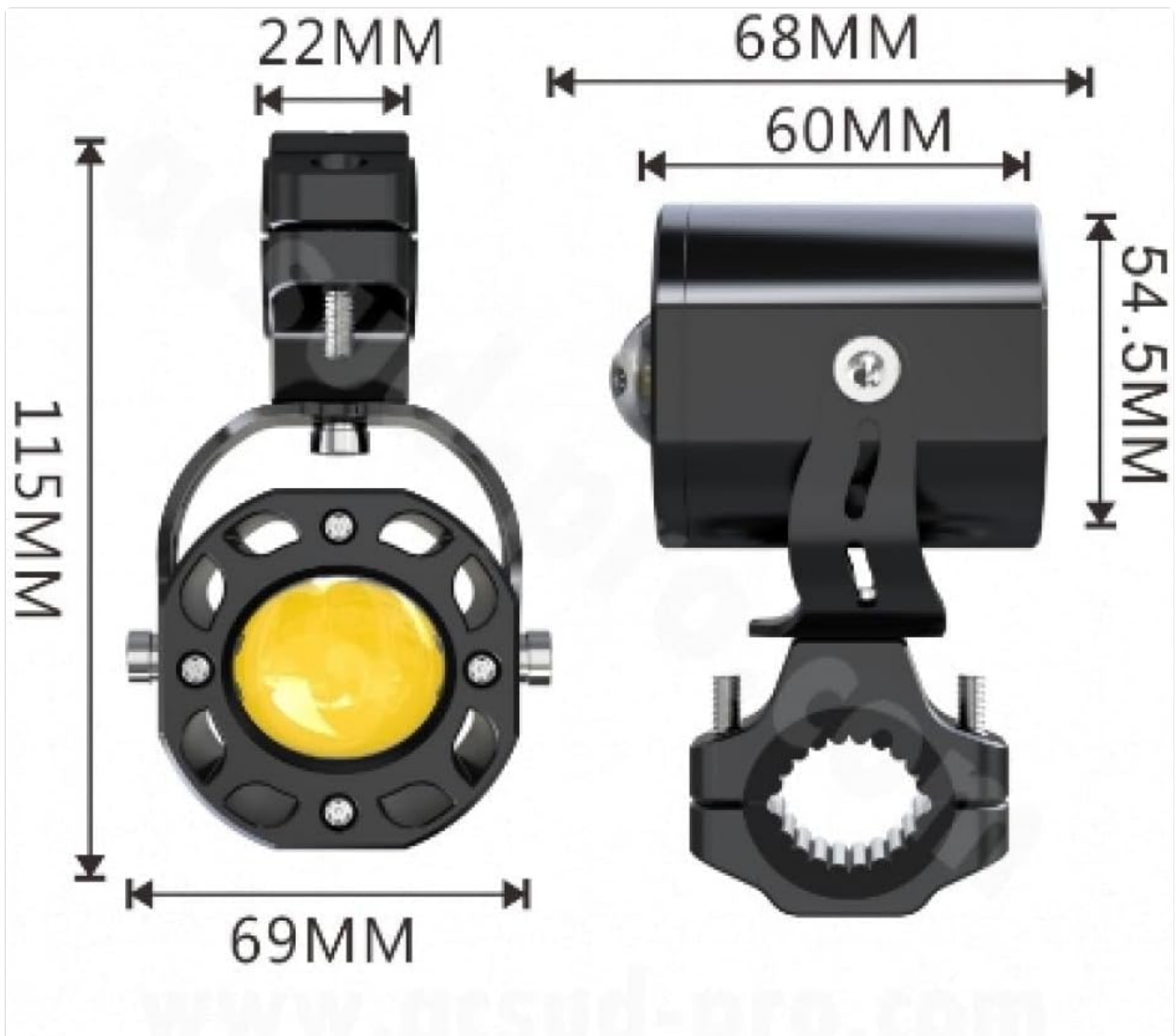


Image: Detailed dimensions of the ECOBENE ECO-KD168 LED auxiliary light, showing height, width, and mounting bracket measurements.

SETUP AND INSTALLATION

Installation of the ECOBENE ECO-KD168 auxiliary lights is designed to be straightforward. Always ensure the motorcycle's power is disconnected before beginning any electrical work.

1. Mounting the Lights

1. Identify a suitable mounting location on your motorcycle (e.g., crash bars, forks, or dedicated light mounts). The

provided brackets support diameters between 22mm and 32mm.

2. Attach the appropriate mounting brackets to the auxiliary lights using the supplied screws.
3. Securely fasten the lights to your chosen location on the motorcycle. Ensure they are positioned to provide optimal illumination without obstructing other components or rider visibility.



Image: A selection of mounting brackets included with the ECOBENE ECO-KD168 kit, designed for various installation points on a motorcycle.

2. Electrical Connection

The system uses a simple 3-wire connection. The slim relay box manages power distribution and light functions.

- **Red Wire:** Connect to a switched 12V positive power source (e.g., ignition-switched power).
- **Black Wire:** Connect to the motorcycle's chassis ground.
- **Yellow Wire:** Connect to the motorcycle's high beam positive wire. This connection enables the high beam function of the auxiliary lights to synchronize with your motorcycle's high beam.

Ensure all connections are secure and insulated to prevent short circuits and corrosion.

3. Remote Control Setup

The wireless remote control is pre-paired with the relay box. Ensure the remote control is charged via its USB-C port before first use. A full charge provides up to 450 days of standby time.



Image: The compact wireless remote control for the ECOBENE ECO-KD168 lights, shown alongside a mounting bracket for convenient placement on the motorcycle.

OPERATING INSTRUCTIONS

The ECOBENE ECO-KD168 auxiliary lights offer multiple lighting modes, controlled via the wireless remote.

Light Functions:

- **Yellow Daytime Running Lights (DRL):** Provides a distinct yellow light for enhanced daytime visibility.
- **White Long-Range Lights (High Beam):** Activates a powerful white beam for extended visibility.
- **Combined Mode (4000K):** Activates both yellow DRL and white long-range lights simultaneously, producing a 4000K neutral white light (blend of 6000K white and 2800K yellow).

Flash and Strobe Modes:

- **White Flashing (6500K):** Rapid flashing of white lights.
- **Yellow Flashing (3200K):** Rapid flashing of yellow lights.
- **Alternating Yellow and White Flashing:** Lights flash in an alternating yellow and white pattern.
- **White Strobe (Alternating Left and Right):** Left and right lights strobe independently in white.
- **Slow Yellow Flashing:** A slower, more deliberate flash of yellow lights.



Image: The ECOBENE ECO-KD168 LED auxiliary lights, illustrating the distinct yellow daytime running light (left) and the clear white long-range light (right).

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your ECOBENE auxiliary lights.

- **Cleaning:** Clean the lenses regularly with a soft, damp cloth to remove dirt and debris. Avoid abrasive cleaners that could scratch the lens.
- **Connections:** Periodically check all electrical connections for tightness and signs of corrosion. Re-secure or clean as necessary.
- **Mounting:** Inspect mounting brackets and fasteners for tightness. Vibrations from motorcycle operation can loosen components over time.
- **Remote Control:** Recharge the remote control via USB-C when the battery indicator shows low power.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights do not turn on.	No power to the relay box; loose wiring; remote control battery low or not paired.	Check 12V power connection and ground. Ensure all wires are securely connected. Recharge remote control.
Only one light functions.	Faulty light unit; loose connection to one light.	Check the wiring connection to the non-functional light. If wiring is secure, the light unit may require replacement.
Remote control unresponsive.	Low battery; out of range; interference.	Recharge the remote control. Ensure you are within operating range of the relay box. Move away from sources of strong radio interference.
Lights flicker or dim.	Unstable power supply; loose connection; low voltage.	Verify stable 12V power from the motorcycle. Check all wiring connections for looseness or corrosion. Ensure motorcycle battery is adequately charged.

WARRANTY INFORMATION

Specific warranty details are typically provided at the point of purchase or with the product packaging. Please refer to your purchase receipt or contact the seller for information regarding the warranty period and terms for your ECOBENE ECO-KD168 LED Auxiliary Lights.

The manufacturer, RB Max, indicates spare parts availability in the EU for 10 years, which may imply support for product longevity.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact your retailer or the manufacturer, RB Max. Keep your purchase receipt and product model number (ECO-KD168) readily available when contacting support.

Manufacturer: RB Max

For further assistance, please visit the official product page or contact the seller directly through the platform where the product was purchased.