

## Litemove SE1103

# Litemove E-Bike LED Headlight SE-110 User Manual

Model: SE1103

## 1. PRODUCT OVERVIEW

The Litemove E-Bike LED Headlight SE-110 is an electric-powered front light designed for various e-bike types, including road, trekking/touring, and city e-bikes. It generates 110 lux of highly efficient LED light, providing optimal illumination with a cut-off line beam to prevent glare for oncoming traffic. This headlight offers a wide 8-meter beam and a visibility distance of up to 195 meters ahead, enhancing safety during night rides. It is powered directly by the e-bicycle's motor system (5-16V) with a low power consumption of 5.6 Watt and features an IP56 water-resistant rating, protecting it against high-pressure water and dust ingress.



Figure 1: Litemove SE-110 Headlight with its integrated mounting bracket.

## 2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and use. Failure to follow these instructions may result in injury or damage to the product.

- Ensure the headlight is securely mounted and properly aimed to avoid blinding oncoming traffic.
- Verify that your e-bike's electrical system provides the correct voltage (5-16V) for the headlight. Incorrect voltage can damage the unit.
- Do not look directly into the light beam when the headlight is on, as it can cause temporary vision impairment.
- Keep the lens clean to maintain optimal light output.
- While the headlight is IP56 water-resistant, avoid submerging it in water.
- Installation should ideally be performed by a qualified bicycle mechanic if you are unsure about electrical connections.

## 3. PACKAGE CONTENTS

The Litemove SE-110 Headlight package typically includes:

- Litemove SE-110 LED Headlight unit
- Integrated mounting bracket (for handlebar or fork crown, depending on variant)
- Power cable for e-bike system connection
- Mounting hardware (screws, washers, nuts)
- User Manual (this document)

## 4. SETUP AND INSTALLATION

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Follow these steps to install your Litemove SE-110 Headlight:

1. **Choose Mounting Location:** The SE-110 can be mounted on the handlebar or the fork crown, depending on your bike's design and the specific bracket included. Ensure the chosen location provides clear visibility and does not obstruct other bike components.



Figure 2: Headlight mounted on e-bike handlebars, showing its compact design.

2. **Secure the Headlight:**

- For handlebar mounting: Use the integrated clamp to secure the headlight to your handlebar. Tighten the screws evenly until the light is firm but do not overtighten.
- For fork crown mounting: Attach the headlight's bracket to the designated mounting point on your fork crown using the provided hardware. Ensure it is centered and stable.



Figure 3: A close-up view of the Litemove SE-110 headlight securely mounted on bicycle handlebars.

3. **Connect to E-Bike Power System:** The SE-110 is designed to be powered by your e-bike's motor system (5-16V DC).

- Locate the accessory power output on your e-bike's motor or battery system. Consult your e-bike's manual if unsure.
- Connect the headlight's power cable to the e-bike's power output. Ensure correct polarity (positive to positive, negative to negative) to prevent damage.
- Route the cable neatly along the bike frame, securing it with zip ties or cable clips to prevent snagging or damage.

4. **Adjust Beam Angle:** Once mounted and connected, turn on your e-bike's power to activate the headlight. Adjust the angle of the headlight so that the beam illuminates the road ahead without pointing upwards into oncoming traffic. The cut-off line should be clearly visible.



Figure 4: The Litemove SE-110 headlight providing clear illumination for a cyclist on a dark forest path.

## 5. OPERATING INSTRUCTIONS

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The Litemove SE-110 Headlight operates in conjunction with your e-bike's electrical system.

- **Power On/Off:** The headlight will typically turn on and off with your e-bike's main power system or through a dedicated light switch on your e-bike's control panel. Refer to your e-bike's user manual for specific instructions on activating accessories.
- **Light Output:** The SE-110 provides a consistent 110 lux output. There are no adjustable modes for brightness on

this model.

- **Beam Pattern:** The headlight features a precise cut-off line beam, designed to illuminate the road effectively while preventing glare for other road users.

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your Litemove SE-110 Headlight, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the lens and housing with a soft, damp cloth to remove dirt, dust, and debris. Avoid using abrasive cleaners or solvents that could damage the lens or finish.
- **Inspection:** Periodically check the mounting screws for tightness and ensure the headlight is securely attached. Inspect the power cable for any signs of wear, fraying, or damage.
- **Storage:** If storing your e-bike for an extended period, ensure the headlight is clean and dry. Store in a cool, dry place.
- **Water Resistance:** While IP56 rated, avoid directing high-pressure water jets directly at the headlight during cleaning of your e-bike.



Figure 5: The IP56 rating indicates protection against dust and high-pressure water jets.

## 7. TROUBLESHOOTING

If you encounter issues with your Litemove SE-110 Headlight, refer to the following table:

Problem	Possible Cause	Solution
Headlight does not turn on.	<ul style="list-style-type: none"><li>• E-bike power is off.</li><li>• Loose or incorrect electrical connection.</li><li>• Incorrect voltage from e-bike system.</li><li>• Damaged cable or headlight.</li></ul>	<ul style="list-style-type: none"><li>• Ensure e-bike power is on and light switch (if any) is activated.</li><li>• Check all electrical connections for tightness and correct polarity.</li><li>• Verify e-bike output voltage is within 5-16V.</li><li>• Inspect cable for damage. If damaged, seek professional repair. Contact Litemove support if headlight is faulty.</li></ul>
Light is dim or flickers.	<ul style="list-style-type: none"><li>• Dirty lens.</li><li>• Insufficient power supply.</li><li>• Loose connection.</li></ul>	<ul style="list-style-type: none"><li>• Clean the headlight lens thoroughly.</li><li>• Ensure stable power supply from e-bike.</li><li>• Check electrical connections.</li></ul>
Headlight is loose on mount.	<ul style="list-style-type: none"><li>• Mounting screws are loose.</li><li>• Incorrect installation.</li></ul>	<ul style="list-style-type: none"><li>• Tighten mounting screws evenly.</li><li>• Re-install according to Section 4.</li></ul>

## 8. SPECIFICATIONS

Feature	Detail
Model	SE1103

Feature	Detail
Light Output	110 Lux
Power Source	Electric-powered (E-bike system)
Input Voltage	5-16V DC
Power Consumption	5.6 Watt
Beam Distance	Up to 195m
Beam Width	8m
Water Resistance	IP56
Material	Aluminium, Plastic
Lens Material	PMMA
Dimensions (L x W x H)	5.3 x 4.35 x 4.35 cm
Weight	83 g
Color	Black

## 9. WARRANTY AND SUPPORT

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Litemove products are manufactured to high quality standards. For any warranty claims or technical support, please contact Litemove customer service directly or the retailer from whom you purchased the product. Please retain your proof of purchase for warranty purposes.

For more information, visit the official Litemove website or their Amazon store:

- Litemove Amazon Store: [Visit Store](#)

