

LEZYNE E550

LEZYNE E-BIKE POWER HB STVZO E550 Headlight Instruction Manual

Model: E550

1. PRODUCT OVERVIEW

The LEZYNE E-BIKE POWER HB STVZO E550 is a high-performance e-bike headlight designed for optimal visibility and safety. It features a German StVZO optimized lens, providing both flood and long-range high and low beams. The durable, heat-dissipating CNC-machined aluminum construction ensures longevity and efficient operation.

This headlight is compatible with 6-12V e-bike systems, drawing 8W of power, and can be easily integrated with batteries from major manufacturers such as Bosch, Shimano, and Yamaha. An integrated USB port allows for convenient charging of external accessories.



Image: Front view of the LEZYNE E-BIKE POWER HB STVZO E550 Headlight with its mounting bracket.

2. PACKAGE CONTENTS

Verify that all components are present in your package:

- LEZYNE E-BIKE POWER HB STVZO E550 Headlight
- X-Lock Stem Mount
- CNC-Machined Aluminum Fork Mount
- 130cm Power Cable



Image: Included mounting accessories and hardware.

3. SETUP AND INSTALLATION

The E-Bike Power HB StVZO E550 headlight is designed to be powered directly by your e-bike's motor. Installation requires careful attention to your e-bike's electrical system.

Mounting the Headlight:

1. Choose your preferred mounting option: the X-Lock stem mount or the CNC-machined aluminum fork mount.
2. Securely attach the chosen mount to your e-bike's handlebar stem or fork, ensuring it is stable and positioned to provide optimal light coverage.
3. Attach the E550 headlight to the installed mount.

Electrical Connection:

Connecting the headlight to your e-bike's motor requires electrical wiring. This process may involve some disassembly of your bike and motor, depending on the specific make and model and battery type.

- Refer to your e-bike or motor manufacturer's instructions for detailed wiring diagrams and connection procedures.
- It is highly recommended to have a trained e-bike professional install your lights to ensure correct and safe electrical integration.



Image: Side view of the headlight, illustrating the mounting arm.

4. OPERATING INSTRUCTIONS

The E-Bike Power HB StVZO E550 headlight offers two primary light settings: a low beam and a high beam.

Light Modes:

- **Low Beam:** Delivers 290 lumens, suitable for general riding and maintaining visibility without dazzling oncoming traffic.
- **High Beam:** Provides 550 lumens for enhanced illumination during night riding or in low-light conditions where maximum visibility is required.

The specific method for switching between low and high beam modes will depend on your e-bike's control system. Consult your e-bike's user manual for instructions on operating integrated accessories.

USB Charging Port:

The headlight includes a built-in USB port. This port can be used to charge external accessories such as smartphones or GPS devices while riding.



Image: Front view of the headlight, showing the dual LED design.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your LEZYNE E-BIKE POWER HB STVZO E550 headlight.

- **Cleaning:** Wipe the lens and housing with a soft, damp cloth to remove dirt and debris. Avoid abrasive cleaners that could scratch the lens.
- **Connections:** Periodically check all electrical connections to ensure they are secure and free from corrosion.
- **Water Exposure:** While the product has an IPX5 rating, indicating resistance to water jets, it *is not fully waterproof*. Avoid submerging the light or exposing it to heavy, prolonged rainfall to prevent potential damage.
- **Storage:** When not in use for extended periods, store the headlight in a cool, dry place.

6. TROUBLESHOOTING

If you encounter issues with your headlight, consider the following troubleshooting steps:

- **Light Not Turning On:**

- Verify that the e-bike's power system is active and supplying power to the headlight.
 - Check all electrical connections for looseness or damage.
 - Ensure the headlight is correctly switched on via your e-bike's controls.
- **Intermittent Operation:**
 - Inspect wiring for any signs of fraying or poor contact.
 - Ensure the mounting is secure and not causing stress on the wiring.
- **Dim Light Output:**
 - Clean the lens to remove any dirt or film that might be obstructing the light.
 - Confirm that the e-bike's power output is stable and sufficient for the headlight.

For persistent issues, it is recommended to consult with a trained e-bike professional or contact LEZYNE customer support.

7. SPECIFICATIONS

Brand	LEZYNE
Model Number	1-led-epwrsthb-v104
Color	Black, White
Material	Aluminum
Power Source	E-bike Battery Powered (6-12V input, 8W)
Water Resistance Level	IPX5 (Resistant to water jets)
Item Weight	12 ounces
Mounting Type	Handlebar Mount (X-Lock stem mount, CNC-machined aluminum fork mount)
Product Dimensions (L x W x H)	6" x 4" x 2.5"
Number of Settings	2 (Low Beam, High Beam)
Light Output (Low Beam)	290 Lumens
Light Output (High Beam)	550 Lumens
Auto Part Position	Front

8. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the official LEZYNE website or contact your authorized LEZYNE dealer. Keep your proof of purchase for any warranty claims.

