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ZKT12

Luxelight LED Head Torch ZKT12 User Manual

Model: ZKT12

1. Introduction

Thank you for choosing the Luxelight LED Head Torch. This rechargeable headlamp is designed for various activities such as hiking, running, camping, and general outdoor use. It features a wide-angle illumination, multiple lighting modes, and a convenient motion sensor for hands-free operation. Please read this manual carefully to ensure proper use and maintenance of your device.

2. Package Contents

Verify that all items are present in your package:

- 1 x Luxelight COB Sensor Headlight
- 1 x USB Charging Cable (Type-C)

3. Product Features

- **230° Wide-Angle Illumination:** Provides broad coverage with up to 350 lumens.
- **Dual Light Sources:** Features both COB LED for floodlight and XPE LED for spotlight.
- **Motion Sensor Control:** Easily turn the light on/off with a hand wave.
- **USB Rechargeable:** Built-in 1200mAh lithium-ion battery with Type-C charging.
- **Multiple Lighting Modes:** Includes COB high/low, XPE high/low, and Strobe mode.
- **Lightweight and Comfortable:** Weighs approximately 110g with an adjustable elastic headband.
- **Durable and Waterproof:** Constructed from TPU+ABS+PC with an IPX4 water resistance rating.

4. Setup

4.1 Initial Charging

Before first use, fully charge the head torch. Connect the provided USB Type-C cable to the charging port on the headlamp and to a standard USB power source (e.g., computer, wall adapter). The power indicator lights will show the charging status. A full charge typically takes about 2.5 hours.



Figure 1: Product diagram highlighting the USB charging port and power display.

4.2 Adjusting the Headband

The head torch features an adjustable elastic headband. Place the headlamp on your head and use the buckle to adjust the strap for a comfortable and secure fit. The ergonomic design ensures comfort during extended wear. For hardhat use, four clips are included to secure the headlamp.

5. Operating Instructions

5.1 Power Button and Light Modes

The head torch has a main power button to cycle through different lighting modes:

1. Press once for COB 100% (wide-angle light, 350 lumens).
2. Press again for COB 40% (wide-angle light, 150 lumens).
3. Press again for XPE 100% (spotlight, 150 lumens).
4. Press again for XPE 40% (spotlight, 60 lumens).

5. To activate Strobe Mode (COB & XPE), press and hold the power button for 3 seconds from any mode.

To turn off the light directly from any mode, press and hold the power button for 3 seconds. This avoids cycling through all modes.



Figure 2: Illustration of the six available lighting modes.

5.2 Motion Sensor Mode

The head torch features a sensitive intelligent sensor for hands-free operation:

1. Press the dedicated **Sensor Mode Button** (indicated by a wave icon) to activate the motion sensor function. A small indicator light will illuminate to confirm sensor mode is active.
2. Once activated, wave your hand within approximately 10-15 cm (4-6 inches) of the sensor to turn the light on or off.
3. Press the Sensor Mode Button again to deactivate the motion sensor and return to manual control.



Figure 3: Controls for activating and using the motion sensor mode.

6. Maintenance

6.1 Cleaning

Wipe the head torch with a soft, damp cloth to remove dirt or debris. Do not use harsh chemicals or abrasive cleaners, as these may damage the device.

6.2 Storage

When storing the headlamp for an extended period, ensure it is fully charged and kept in a cool, dry place. It is recommended to take it out every three months to check and recharge it. This practice helps extend the battery's lifespan and prevent damage due to over-discharge.

7. Troubleshooting

- **Light not turning on:** Ensure the battery is charged. If the battery is low, connect the headlamp to a power

source using the USB cable.

- **Motion sensor not responding:** Check if the motion sensor mode is activated. Ensure there are no obstructions in front of the sensor and that your hand is within the effective sensing range.
- **Short battery life:** Ensure the headlamp is fully charged before use. Battery performance can be affected by extreme temperatures.

8. Specifications

Feature	Specification
Model Number	ZKT12
Light Source	COB LED, XPE LED
Illumination Angle	230° Wide-Angle
Max Lumens	350 LM
Battery Type	Built-in 1200mAh Lithium-ion (rechargeable, non-removable)
Charging Interface	USB Type-C
Charging Time	Approx. 2.5 hours
Input Current/Voltage	5V/0.5A
Material	TPU+ABS+PC (Plastic Polycarbonate)
Water Resistance	IPX4 (Waterproof)
Impact Resistance	1 meter
Product Dimensions	5D x 11W x 3H cm
Weight	Approx. 110g



Figure 4: Visual representation of the 230° wide-angle illumination.



Figure 5: The headlamp's lightweight and compact design.

9. Safety Information

- Do not look directly into the LED light, as it can cause temporary vision impairment.
- Keep the device away from children.
- Do not attempt to disassemble or modify the headlamp, as this will void the warranty and may cause damage or injury.
- Avoid exposing the headlamp to extreme temperatures or direct sunlight for prolonged periods.

10. Warranty and Support

For warranty information and customer support, please refer to the documentation provided with your purchase or contact the retailer. Specific warranty terms and conditions may vary.

11. Application Scenarios

The Luxelight LED Head Torch is suitable for a wide range of activities:

- **Outdoor Activities:** Night running, cycling, camping, hiking, climbing, fishing, dog walking.
- **Work Tasks:** Repairing, construction, emergency situations.
- **General Use:** Reading, outdoor recreation.

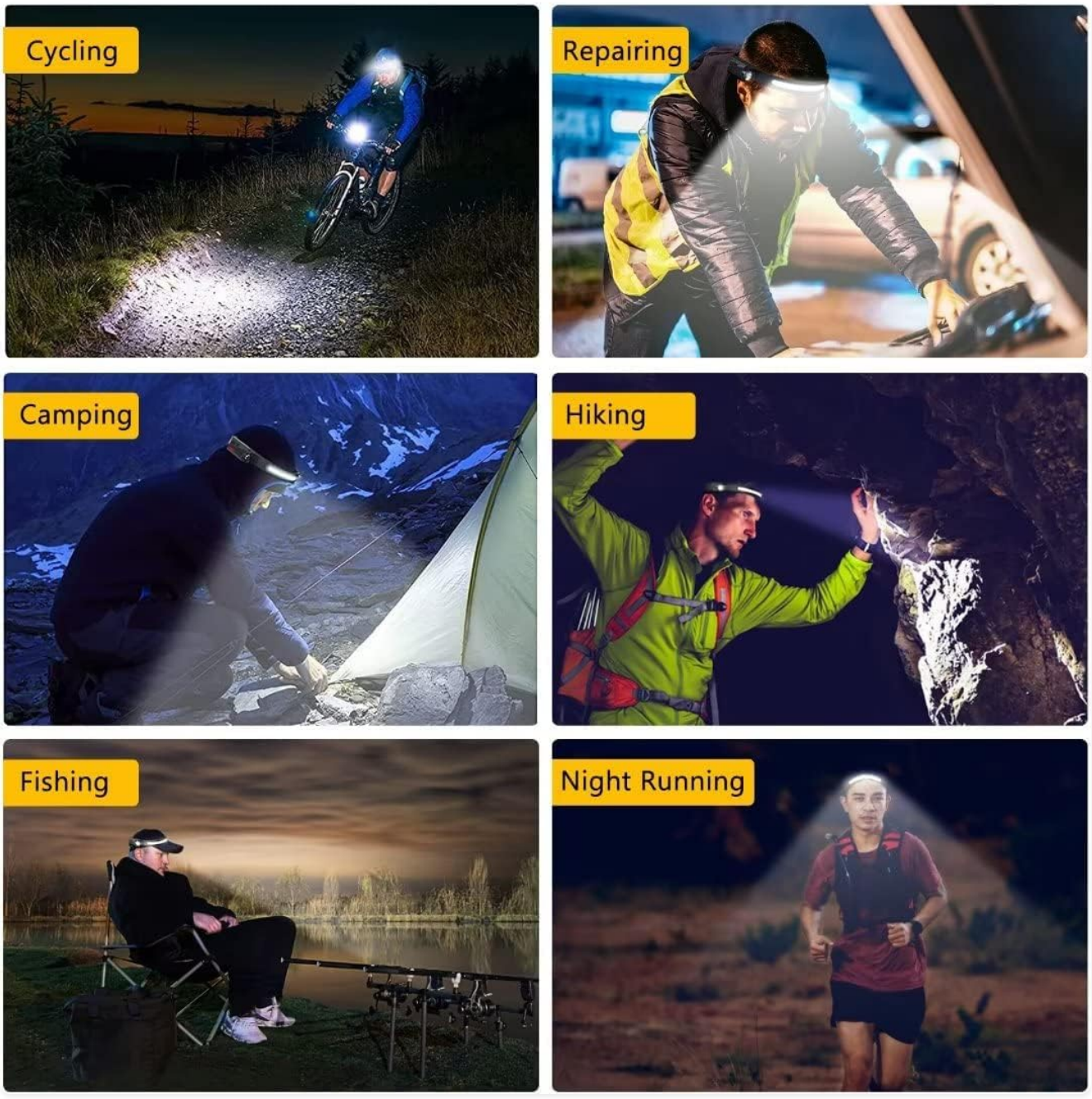


Figure 6: Various applications for the Luxelight LED Head Torch.

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