

## Black Diamond BD620611VBORALL1

# Black Diamond Storm BD81085 Headlamp User Manual

Model: BD620611VBORALL1

Brand: Black Diamond

## 1. INTRODUCTION

The Black Diamond Storm BD81085 Headlamp is a versatile and durable lighting solution designed for various outdoor activities such as climbing, hiking, and camping. It features multiple lighting modes, including proximity, distance, and red night vision, along with a robust, waterproof construction. This manual provides essential information for the safe and effective use of your headlamp.

## 2. SAFETY INFORMATION

- Read all instructions before using the headlamp.
- Do not look directly into the LED light, as it can cause temporary vision impairment.
- Keep batteries and small parts away from children.
- Use only specified battery types (AAA). Do not mix old and new batteries or different battery types.
- Remove batteries if storing the headlamp for extended periods to prevent leakage.
- Dispose of used batteries responsibly according to local regulations.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x Black Diamond Storm Headlamp Unit
- 1 x Adjustable Elastic Head Strap
- 4 x AAA Batteries

## 4. PARTS IDENTIFICATION

Familiarize yourself with the components of your Black Diamond Storm Headlamp:



**Figure 1:** Black Diamond Storm Headlamp unit and rolled-up head strap. The headlamp unit is orange and black, while the strap is red with the Black Diamond logo.



**Figure 2:** Black Diamond Storm Headlamp assembled with the head strap, front view. This shows the main LED lens, two smaller red LED lenses, and the orange casing.



**Figure 3:** Rear view of the Black Diamond Storm Headlamp unit, detached from the strap. This view highlights the battery compartment latch and the tilt mechanism for adjusting the beam angle.

- **Main Housing:** Contains the LEDs, electronics, and battery compartment.
- **Head Strap:** Adjustable elastic band for wearing the headlamp.
- **Battery Compartment:** Located at the rear of the main housing.
- **Power Button:** Controls on/off and mode selection.
- **Main LED:** Primary white light source.
- **Red LEDs:** For night vision mode.
- **Tilt Mechanism:** Allows adjustment of the beam angle.

## 5. SETUP

### 5.1 Battery Installation

1. Locate the battery compartment on the rear of the headlamp unit (refer to Figure 3).

2. Open the latch to access the compartment.
3. Insert four (4) AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the compartment securely until the latch clicks into place. Ensure a tight seal for water resistance.

## 5.2 Head Strap Adjustment

1. Place the headlamp on your head with the light unit positioned at the front.
2. Adjust the elastic strap using the buckles on either side to achieve a comfortable and secure fit. The strap should be snug but not overly tight.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Power On/Off

Press the main power button once to turn the headlamp on or off.

### 6.2 Brightness Adjustment (PowerTap Technology)

- **Instant Brightness Change:** When the headlamp is on, tap the side of the headlamp housing to instantly switch between full power and a dimmed power setting.
- **Fine-tuning Brightness:** To adjust brightness gradually, press and hold the power button. The light will dim or brighten. Release the button at your desired brightness level.

### 6.3 Mode Selection

- **White Light Modes:** From the OFF position, press the power button once to activate white light. Press the power button repeatedly to cycle through white light modes (e.g., proximity, distance, strobe).
- **Red Night Vision Mode:** From the OFF position, double-press the power button to activate red night vision mode. Press the power button repeatedly to cycle through red light modes (solid, strobe).

### 6.4 Lock Mode

To prevent accidental activation during transport or storage:

- **To Lock:** Press and hold the power button for approximately 6 seconds until the light flashes, indicating it is locked.
- **To Unlock:** Press and hold the power button for approximately 6 seconds again until the light flashes, indicating it is unlocked.

### 6.5 Battery Meter

When the headlamp is first turned on, a small indicator light will display the battery level for 3 seconds:

- **Green:** Full power
- **Orange:** Medium power
- **Red:** Low power

## 7. MAINTENANCE

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### 7.1 Cleaning

Wipe the headlamp with a damp cloth to remove dirt or debris. Do not use harsh chemicals, abrasive cleaners, or solvents, as these can damage the housing or lenses.

### 7.2 Storage

Store the headlamp in a cool, dry place away from direct sunlight. For long-term storage (more than a few weeks), remove the batteries to prevent potential leakage and damage to the electronics.

## 7.3 Water Resistance

The Black Diamond Storm headlamp is designed to be waterproof. Always ensure the battery compartment is properly sealed after battery installation to maintain its water resistance.

## 8. TROUBLESHOOTING

- **Light does not turn on:**
  - Check if batteries are inserted with correct polarity.
  - Replace batteries with fresh ones.
  - Ensure the headlamp is not in lock mode (refer to Section 6.4).
- **Light is dim or flickers:**
  - Batteries may be low; replace them.
  - Clean battery contacts inside the compartment if they appear corroded.
- **Water inside battery compartment:**
  - Ensure the battery compartment is properly sealed after battery installation.
  - If water is present, open the compartment, remove batteries, and allow all components to dry thoroughly before further use.

## 9. SPECIFICATIONS

Feature	Detail
Brand	Black Diamond
Model Number	BD620611VBORALL1
Product Name	Storm BD81085 Headlamp
Light Source Type	LED
Batteries	4 x AAA (included)
Battery Description	Lithium (referring to battery chemistry, though typically alkaline AAA are supplied)
Item Weight	0.22 pounds (approx. 100g)
Color	Vibrant Orange
Water Resistance	Waterproof (designed for harsh weather conditions)
UPC	793661198840

## 10. WARRANTY AND SUPPORT

Black Diamond products are built to last and are backed by a manufacturer's warranty. For specific warranty details, claims, or technical support, please visit the official Black Diamond website or contact their customer service department. Please retain your proof of purchase for any warranty-related inquiries.

