

BIAT SJTDAWG01

BIAT SJTDAWG01 230° Wide Beam Rechargeable LED Headlamp User Manual

Model: SJTDAWG01

1. INTRODUCTION

Thank you for choosing the BIAT 230° Wide Beam Rechargeable LED Headlamp. This manual provides essential information for the safe and efficient operation of your headlamp. Please read it thoroughly before use and retain it for future reference.



Image 1.1: BIAT 230° Wide Beam Rechargeable LED Headlamp.

2. SAFETY GUIDELINES

- Do not look directly into the LED light.
 - Keep out of reach of children.
 - Do not disassemble the headlamp; this may void the warranty and cause damage.
 - Use only the provided or certified compatible charging cables.
 - Avoid exposing the headlamp to extreme temperatures or direct sunlight for prolonged periods.
 - Although IPX4 water-resistant, do not submerge the headlamp in water.
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3. PACKAGE CONTENTS

- BIAT LED Headlamp (1 unit)
 - USB-C Charging Cable (1 unit)
 - User Manual (1 unit)
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4. PRODUCT COMPONENTS

Familiarize yourself with the different parts of your BIAT LED Headlamp:



Image 4.1: Detailed view of the headlamp components.

1. **Power Button:** Controls power and cycles through light modes.
 2. **Sensor Switch:** Activates/deactivates motion sensor mode.
 3. **Power Display:** Shows remaining battery percentage.
 4. **Sensor Reception:** Receives hand gestures for motion sensor.
 5. **Sensor Emission:** Emits signal for motion sensor.
 6. **XPE LED:** Spotlight for focused illumination.
 7. **COB LED:** Wide beam floodlight for broad illumination.
 8. **Angle Adjustment:** Allows 90° rotation of the spotlight.
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5. SETUP

5.1 Initial Charging

Before first use, fully charge the headlamp. Connect the provided USB-C cable to the headlamp's charging port and a suitable USB power source. The power display will indicate charging progress. A full charge typically takes approximately 3 hours.



Image 5.1: Charging the headlamp via USB-C.

5.2 Adjusting the Headband

The elastic headband is adjustable to fit various head sizes, including adults and children. Adjust the straps to ensure a snug yet comfortable fit, preventing wobbling during activity.



Image 5.2: Adjusting the headlamp headband for a comfortable fit.

6. OPERATION

6.1 Power and Light Modes

Press the **Power Button** to cycle through the 5 available light modes:

1. **COB Light High:** Maximum brightness for wide area illumination.
2. **COB Light Low:** Reduced brightness for extended battery life and closer tasks.
3. **XPE Light High:** Maximum brightness for focused spotlight illumination.
4. **XPE Light Low:** Reduced brightness for focused spotlight.
5. **Strobe Mode:** Flashing light for emergency signaling.

Press and hold the **Power Button** to turn the headlamp off.

Replaceable Batteries

Multiple headlamps for more hours of illumination



Image 6.1: Light Mode Introduction.

6.2 Motion Sensor Function

The headlamp features a motion sensor for hands-free operation:

- Press the **Sensor Switch** (Button A in Image 6.2) to activate motion sensor mode.
- Once activated, wave your hand within 10cm of the sensor to turn the light on or off.
- Press the **Sensor Switch** again to deactivate motion sensor mode.

USB Rechargeable



Type-C USB

1200mAh
Battery Capacity

3Hrs
Charging Time

8Hrs
Low Brightness

Image 6.2: Using the motion sensor function.

6.3 Removable and Rotatable Spotlight

The side spotlight can be rotated 90° to direct light precisely where needed. It can also be detached from the headband for use as a handheld torch, providing versatility for various tasks.

230° WIDE BEAM +350 LUMEN



Image 6.3: 90° Rotatable Spotlight.

Removable Side Lamp



Fast Moving Light



Focused Beam



Compact and portable

7. CHARGING

To charge the headlamp, connect the USB-C cable to the charging port on the device and to a standard USB power adapter (not included). The battery indicator will show the charging status. A full charge takes approximately 3 hours and provides up to 8 hours of illumination on low brightness.



Image 7.1: USB Rechargeable feature and specifications.

8. MAINTENANCE

8.1 Cleaning

Wipe the headlamp with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the charging port cover is securely closed before cleaning or exposure to moisture.

8.2 Storage

Store the headlamp in a cool, dry place away from direct sunlight. For long-term storage, charge the

battery every 3-6 months to maintain battery health.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Headlamp does not turn on.	Low battery.	Charge the headlamp fully.
Light is dim.	Low battery or incorrect mode.	Charge the headlamp. Cycle through modes to select a brighter setting.
Motion sensor not working.	Sensor mode not activated or obstruction.	Ensure the Sensor Switch is pressed. Clear any obstructions from the sensor area.
Side light not working when detached.	Not designed to operate independently.	The side light functions as a spotlight when attached and can be used as an emergency torch when detached, but its primary power source is the main unit. Ensure the main unit is charged.

10. SPECIFICATIONS

Feature	Detail
Model Number	SJTDAWG01
Light Source Type	LED (COB & XPE)
Brightness	Up to 350 Lumens
Beam Angle	230° Wide Beam
Light Modes	5 Modes (COB High/Low, XPE High/Low, Strobe)
Special Features	Motion Sensing, 90° Rotatable Spotlight, Removable Side Light
Power Source	Battery Powered (Rechargeable Lithium Polymer)
Charging Port	USB-C
Charging Time	Approx. 3 hours
Battery Life (Low Brightness)	Up to 8 hours
Water Resistance	IPX4 (Water Resistant)
Material	Silicone

Feature	Detail
Item Weight	2.96 Ounces
Product Dimensions	1.33"D x 11.57"W x 1.1"H

11. WARRANTY AND SUPPORT

BIAT products are designed for reliability and performance. For warranty information or technical support, please refer to the product packaging or contact BIAT customer service through the retailer where the product was purchased. Please have your model number (SJTDWG01) and purchase date available.
