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› BIAT Headlamp Instruction Manual

BIAT GYTDAWG02

BIAT Headlamp Instruction Manual

Model: GYTDAWG02

1. OVERVIEW

The BIAT Rechargeable Headlamp is designed for versatility and comfort, providing powerful illumination for a wide range of activities. Featuring a 230° wide beam and a focused spotlight, it ensures comprehensive visibility. Its motion sensor mode allows for hands-free operation, while the lightweight and waterproof design makes it ideal for outdoor adventures and various tasks.



This image displays two BIAT headlamps, showcasing their flexible design and integrated LED strips. One headlamp illuminates with a bright white wide beam, while the other features a yellow wide beam. Included are two USB charging cables and eight helmet clips, highlighting the product's complete accessory set.

2. KEY FEATURES

- **230° Wide Beam Headlight & Spotlight:** Provides broad area illumination and a focused beam for specific tasks.
- **Motion Sensor Mode:** Allows for hands-free ON/OFF control with a simple hand wave.
- **6 Light Modes:** Includes COB light (high/low), XPE light (high/low), Strobe Mode, and Motion Sensor.
- **Lightweight & Comfortable:** Made from soft silicone with an adjustable elastic headband, weighing only 2.47 oz.
- **IPX4 Waterproof:** Protected against splashing water from all angles, suitable for various weather conditions.
- **USB Rechargeable:** Conveniently powered by a built-in 1200mAh Lithium Polymer battery.



This diagram visually compares the expansive 230-degree wide beam of the BIAT headlamp, providing a broader illumination area, against the more focused, narrower beam of a conventional headlamp. The BIAT headlamp offers superior peripheral vision.

3. SETUP

3.1 Charging the Headlamp

Before first use, fully charge your BIAT Headlamp. The device features a built-in 1200mAh Lithium Polymer battery. Connect the included USB-C cable to the charging port on the headlamp and to a compatible USB power source. A full charge typically takes approximately 2.5 hours.

Type C Rechargeable and Multiple Protections


Cycle Charge
/Discharge


Overcharge
Protection


Over-temperature
Protection



1200 mAh

2.5–8 hours of use
after fully charged

Note: Not support USB-C to USB-C PD charge!

This image illustrates the Type-C USB charging port located on the headlamp, along with an internal view of its 1200mAh lithium-ion battery. It highlights features such as cycle charge/discharge, overcharge protection, and over-temperature protection, ensuring safe and efficient charging.

3.2 Adjusting the Headband

The headlamp features an adjustable elastic headband. To adjust, simply slide the buckles on either side of the band until you achieve a snug yet comfortable fit around your head. The soft silicone material ensures comfort even during prolonged use.

Super Light weight & Comfortable

The headlight is made of soft and durable silicone material



This image highlights the lightweight and comfortable design of the BIAT headlamp, which weighs only 2.47 ounces (70g). The flexible silicone material and adjustable elastic headband ensure a secure and comfortable fit for extended wear.

4. OPERATING INSTRUCTIONS

4.1 Light Modes

Press the power button located on the side of the headlamp to cycle through the 6 available light modes:

1. **COB Light High:** 350 Lumens (approx. 2.5 hours runtime)
2. **COB Light Low:** 150 Lumens (approx. 3.5-4 hours runtime)
3. **XPE High:** 150 Lumens (approx. 4-4.5 hours runtime)
4. **XPE Low:** 60 Lumens (approx. 6-6.5 hours runtime)
5. **Strobe Mode:** Activated by long-pressing the On/Off Button. Both XPE and COB lights will flash simultaneously (approx. 6-8 hours runtime).
6. **Motion Sensor Mode:** (See section 4.2)

Usage Time in Different Modes

1200mAh Large Capacity Battery

MODEL	COB 100%	COB 40%	XPE 100%	XPE 40%	SOS stroble
LUMEN	350LM	150LM	150LM	60LM	/
BATTERY LIFE	2.5H	3.5-4H	4-4.5H	6-6.5H	6-8H



Notes: If you need to do long lighting work, it is recommended to buy 2 packs

This table provides a comprehensive overview of the headlamp's 6 light modes, including COB 100% (350LM, 2.5H), COB 40% (150LM, 3.5-4H), XPE 100% (150LM, 4-4.5H), XPE 40% (60LM, 6-6.5H), and SOS Strobe (6-8H). This information helps users select the appropriate mode for their needs and manage battery usage.

4.2 Motion Sensor Mode

The headlamp is equipped with an intelligent motion sensor for convenient hands-free operation. To activate:

1. Press the dedicated motion sensor button (usually indicated by a wave icon) on the side of the headlamp. A red/green indicator light will illuminate.
2. Once activated, simply wave your hand within 10 cm (approximately 4 inches) of the sensor to quickly switch the light ON or OFF.
3. To exit motion sensor mode, press the motion sensor button again.

Motion Sensor Mode

Easily control the light on and off by waving your hand.



This diagram illustrates the motion sensor mode of the headlamp, activated by a dedicated button. A motion sensor indicator light (red/green) confirms activation. Users can quickly switch the light ON/OFF by waving a hand within 10 cm of the sensor, providing hands-free operation.

5. MAINTENANCE

5.1 Cleaning and Storage

- Wipe the headlamp clean with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Store the headlamp in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for extended periods, charge the battery every 3-6 months to maintain battery health.

5.2 Water Resistance

The BIAT Headlamp has an IPX4 waterproof rating. This means it is protected against splashing water from all angles. It is suitable for use in light rain or snowy conditions. Do not submerge the headlamp in water.

IPX4 Waterproof

IPX4 waterproof means it is protected against splashing water from all angles, you don't need to worry if it rains or snow unexpectedly.



Waterproof



Snowproof



Shockproof



This image demonstrates the headlamp's IPX4 waterproof rating, indicating protection against splashing water from all angles. This feature ensures reliable performance in various weather conditions, including rain or snow.

6. TROUBLESHOOTING

- **Headlamp not turning on:** Ensure the battery is charged. If fully charged, try resetting by holding the power button for 10 seconds.
- **Light is dim:** The battery may be low. Recharge the headlamp fully.
- **Motion sensor not responding:** Ensure motion sensor mode is activated (check indicator light). Clean the sensor area to remove any obstructions. Ensure your hand is within the 10 cm detection range.
- **Short battery life:** Ensure the headlamp is fully charged. Using high brightness modes continuously will drain the battery faster. Consider using lower brightness settings for extended runtime.

7. SPECIFICATIONS

Feature	Detail
Brand	BIAT
Model Number	GYTDAWG02
Light Source Type	LED (COB & XPE)
Brightness	Up to 350 Lumens (White Light)
Beam Angle	230° Wide Beam
Power Source	Battery Powered (Rechargeable)
Battery Type	1200mAh Lithium Polymer
Charging Time	Approx. 2.5 hours
Runtime	2.5 - 8 hours (depending on mode)
Water Resistance	IPX4 (Waterproof)
Material	Silicone
Item Weight	2.47 ounces (70g)
Product Dimensions	1.25"D x 11.57"W x 0.7"H
Recommended Uses	Camping, Hiking, Cycling, Fishing, Climbing, Repairing, Running

8. WHAT'S IN THE BOX

- BIAT Headlamp (2 units for 2-pack)
- Adjustable Head Band (pre-attached)
- USB-C Charging Cable
- Belt Clips (quantity may vary based on pack size)