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> EBUYFIRE Smart Brake Taillight User Manual

EBUYFIRE Auto On Off Bike Tail Light

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Model: Auto On Off Bike Tail Light

INTRODUCTION

Thank you for choosing the EBUYFIRE Smart Brake Taillight. This manual provides detailed instructions for the proper use, installation, and maintenance of your new bike light. Designed for enhanced cycling safety, this taillight features smart brake sensing, multiple operating modes, and a durable, all-weather design. Please read this manual thoroughly before use to ensure optimal performance and safety.

SAFETY INFORMATION

- Ensure the taillight is securely mounted before each ride.
- Do not look directly into the LED light when it is on, as it may cause temporary vision impairment.
- Keep the device away from extreme temperatures and direct sunlight for prolonged periods.
- While the light is IPX5 waterproof, avoid submerging it in water.
- Regularly check the battery level and charge as needed to ensure continuous operation during rides.

PACKAGE CONTENTS

- Bike Taillight x 1
- Saddle Bracket x 1
- Seatpost Bracket x 1
- USB Charge Cable x 1
- Wrench x 1

PRODUCT OVERVIEW



Figure 1: EBUYFIRE Smart Brake Taillight, showing its compact design and bright red LED array.

SMART BRAKE REAR LIGHT



Move to Start



Smart sensing
braking



USB charging



IPX4
Waterproof



800mAh



Light weight

Figure 2: Key features of the Smart Brake Rear Light, including Move to Start, Smart Sensing Braking, USB Charging, IPX4 Waterproofing, 800mAh battery, and lightweight design.



Figure 3: Exploded view illustrating the internal components: back cover, Type-C charging port, aluminum alloy casing, and 3014 LED light source.

SETUP

Charging the Taillight

Before first use, fully charge the taillight. Connect the provided USB charging cable to the Type-C port on the light and to a USB power source (e.g., computer, wall adapter, power bank). The charging indicator will flash green while charging and become stable green when fully charged.

800mAh USB Fast charging

USB Common port design, can be connected to powerbanks, computers and so on

- Flashing during charging
- Keep on after Fully charged

Running Time:

Marquee light 1: 35 hour

Marquee light 2: 17hour

Double flashing mode: 20 hours



Figure 4: Diagram showing the USB Type-C charging port and charging indicator behavior. A full charge provides up to 35 hours of runtime in highlight mode.

Mounting the Taillight

The EBUYFIRE taillight comes with two mounting options: a saddle bracket and a seatpost bracket. Choose the one that best suits your bicycle.



Figure 5: Step-by-step guide for installing the taillight using both the seatpost and saddle bracket options. The light slides easily into the square mounting point.

- Seatpost Mount:** Attach the silicone strap to the seatpost, fasten it securely, and then slide the light onto the base until it clicks into place.
- Saddle Mount:** Place the seat bracket below the seat, use cable ties to fix the bracket on the seat rail track, and then slide the light onto the base until it clicks into place.

OPERATING MODES

The taillight features two main operating modes: Normal Mode and Intelligent Mode. Both modes include various running light patterns and smart brake sensing.

Table 1: Operating Mode Comparison

Feature	Normal Mode	Intelligent Mode
Blue Indicator Light	ON	OFF
Braking	High light burst flash for 5s	
Non-Braking	Constant ON	OFF after 8s
Sleep Detection	Stand still for about 30s to sleep	

Switching Modes

- To switch between running light patterns within a mode:** One click of the power button.
- To turn OFF the light:** Double click the power button.
- To switch between Normal Mode and Intelligent Mode:** When the light is OFF, hold down the power button.

SMART FEATURES

Smart Brake Sensing

The taillight is equipped with smart sensor technology. When you slow down or brake, the light automatically activates a high-intensity flash for 5 seconds, alerting riders and drivers behind you for enhanced safety. This feature is active in all operating modes.

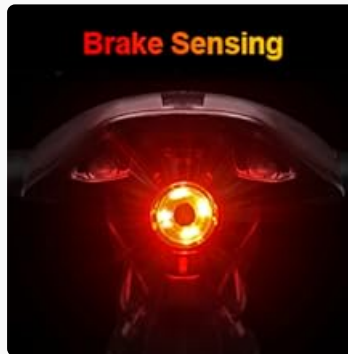


Figure 6: Illustration of the brake sensing feature, where the light intensifies upon deceleration.

Auto On/Off (Intelligent Mode Only)

In Intelligent Mode, the light automatically turns off after 30 seconds of inactivity (when the bike is still). Once movement is detected or your bike is in motion, the light automatically reignites. For continuous daytime visibility, Normal Mode is recommended as it keeps the light constantly on when not braking.

Sensing vibration, wake up automatically

When the bike keep still for 30s, it will start sleeping mode.
When the bike move, the light will wake up

When the bike keep still for 30s,
it will start sleeping mode



Sensing vibration, wake up
automatically



Figure 7: Depiction of the vibration sensing feature: the light enters sleep mode after 30 seconds of stillness and wakes up automatically upon detecting movement.

MAINTENANCE

- **Cleaning:** Wipe the light with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Waterproofing:** The light has an IPX5 waterproof rating, meaning it is protected against low-pressure water jets from any direction. Ensure the charging port cover is securely closed to maintain water resistance. Two additional gaskets are provided for the back cover in case the installed gasket wears down or is lost.
- **Battery Care:** For optimal battery life, charge the light every three months if not in regular use. Avoid completely draining the battery frequently.
- **Storage:** Store the light in a cool, dry place when not in use for extended periods.

IPX5 Waterproof Rate

Well sealed, daily waterproof, no fear of rainy riding



Figure 8: The taillight demonstrating its IPX5 waterproof rating, indicating it is well-sealed and suitable for daily use in rainy conditions.

TROUBLESHOOTING

Table 2: Troubleshooting Guide

Problem	Possible Cause	Solution
Light does not turn on.	Low battery; Incorrect mode; Power button not pressed correctly.	Charge the battery fully. Double-click the power button to ensure it's not OFF. Hold the power button to switch modes if needed.
Light turns off unexpectedly during ride.	Low battery; In Intelligent Mode and bike is stationary for too long.	Recharge the light. If continuous light is desired, switch to Normal Mode.
Brake sensing not working.	Sensor obstruction; Malfunction.	Ensure the sensor area is clean and unobstructed. If the issue persists, contact customer support.

Problem	Possible Cause	Solution
Light not charging.	Faulty cable/adapter; Charging port issue.	Try a different USB cable and power adapter. Ensure the cable is fully inserted into the Type-C port.

SPECIFICATIONS

Table 3: Product Specifications

Feature	Detail
Model Name	Auto On Off Bike Tail Light
Brand	EBUYFIRE
Color	Black
Material	Aluminum Alloy
Power Source	Battery Powered (800mAh Polymer Battery)
Water Resistance Level	IPX5 Waterproof
Item Weight	78 Grams
Mounting Type	Seat Mount, Seatpost Mount
Product Dimensions	1.97"L x 1.34"W x 1.34"H
Number of Settings	5 (various running light patterns)
Max Runtime	Up to 35 hours (Highlight mode continues)

WARRANTY & SUPPORT

The EBUYFIRE Smart Brake Taillight comes with a **1 Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact EBUYFIRE customer service through the retailer where you purchased the product or visit the official EBUYFIRE store on Amazon:

[Visit the EBUYFIRE Store on Amazon](#)

Please have your purchase receipt and product model information ready when contacting support.