

ULTRAFIRE WF-501R PRO

ULTRAFIRE WF-501R PRO Red LED Flashlight User Manual

Model: WF-501R PRO

1. INTRODUCTION

Thank you for choosing the ULTRAFIRE WF-501R PRO Red LED Flashlight. This manual provides essential information for the safe and effective use of your new flashlight. Please read it thoroughly before operation and retain it for future reference.

The WF-501R PRO is designed for applications requiring red light, such as night observation, astronomy, aviation, and hunting, where preserving night vision and minimizing disturbance to wildlife are crucial. It features a single-mode operation for simplicity and an aerospace-grade aluminum alloy construction for durability.

2. SAFETY INSTRUCTIONS

- **Eye Safety:** Do not shine the red light directly into eyes, human or animal. While red light is less disruptive to night vision, direct exposure can still cause temporary discomfort.
- **Battery Handling:** Use only the specified Lithium-Ion battery. Ensure correct polarity during installation. Do not mix old and new batteries or different types of batteries.
- **Charging:** Use only the provided charger. Do not attempt to charge non-rechargeable batteries. Monitor the charging process and disconnect once complete.
- **Heat:** The flashlight may generate heat during prolonged use. Handle with care.
- **Water Resistance:** The flashlight is IP65 water-resistant, meaning it is protected against dust and low-pressure water jets. It is not designed for submersion. Ensure all caps and seals are tightly closed before exposure to moisture.
- **Children:** Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- ULTRAFIRE WF-501R PRO Red LED Flashlight
- Rechargeable Lithium-Ion Battery (pre-installed or separate)
- Battery Charger
- Flashlight Holster
- User Manual (this document)

EXCELLENT VALUE



Image 3.1: Contents of the ULTRAFIRE WF-501R PRO package, including the flashlight, charger, battery, holster, and user manual.

4. PRODUCT OVERVIEW

The ULTRAFIRE WF-501R PRO is a compact and durable red LED flashlight designed for specialized low-light applications. Its robust construction and single-mode functionality ensure reliable performance.



Image 4.1: The ULTRAFIRE WF-501R PRO Red LED Flashlight shown alongside its dedicated battery charger.



Image 4.2: Detail of the tactical tail switch, providing simple on/off control.

NEW UPGRADED 10W LED

ULTRAFIRE's newly developed 10W LED makes the flashlight brighter and illuminates farther



Image 4.3: The 10W Red LED emitter, responsible for the flashlight's powerful red light output.

HIGH WATER RESISTANT



IP-65
Waterproof



SHOCK
Resistant



Image 4.4: The flashlight demonstrating its IP65 water-resistant capability, suitable for various weather conditions.

5. SETUP

5.1 Battery Installation

1. Unscrew the tail cap of the flashlight by turning it counter-clockwise.
2. Insert the provided Lithium-Ion battery with the positive (+) end facing towards the flashlight head (LED).
3. Screw the tail cap back on clockwise until it is securely tightened. Ensure the O-rings are properly seated to maintain water resistance.

5.2 Battery Charging

The ULTRAFIRE WF-501R PRO uses a rechargeable Lithium-Ion battery. To charge the battery:

1. Unscrew the tail cap and remove the battery from the flashlight.
2. Place the battery into the dedicated charger, ensuring correct polarity.

3. Plug the charger into a suitable power outlet. The indicator light on the charger will typically show red during charging and turn green when charging is complete.
4. Once fully charged, remove the battery from the charger and store it safely or reinstall it into the flashlight.

6. OPERATION

The ULTRAFIRE WF-501R PRO features a simple single-mode operation.



Image 6.1: The flashlight in use, demonstrating its single-mode red light output.

- **To Turn On:** Press the tactical tail switch completely until it clicks. The red light will illuminate.
- **To Turn Off:** Press the tactical tail switch completely again until it clicks. The red light will turn off.

There are no other modes (e.g., dim, strobe), ensuring straightforward and consistent operation.

7. MAINTENANCE

7.1 Cleaning

- Wipe the flashlight body with a soft, damp cloth. Avoid abrasive cleaners.
- Clean the lens gently with a lens cloth to remove dust or smudges.
- Periodically clean the threads and O-rings. Apply a thin layer of silicone grease to the O-rings to maintain water resistance.

7.2 Storage

- Store the flashlight in a cool, dry place away from direct sunlight.
- For long-term storage, remove the battery to prevent potential leakage or discharge.

8. TROUBLESHOOTING

- **Flashlight does not turn on:**
 - Check if the battery is installed correctly with the positive (+) end facing the head.
 - Ensure the battery is charged.
 - Tighten the tail cap completely. A loose tail cap can prevent electrical contact.
- **Light is dim or flickers:**
 - The battery may be low. Recharge the battery.
 - Clean the battery contacts in the flashlight and on the battery itself.
- **Water ingress:**
 - Ensure all parts, especially the tail cap, were securely tightened before exposure to water.
 - Check O-rings for damage or improper seating. Replace if necessary.
- **Flashlight dropped and stopped working:**
 - While durable, the flashlight is not entirely shock-proof. Internal components can be damaged by severe impacts. Contact support if the issue persists after checking battery and connections.

9. SPECIFICATIONS

Feature	Specification
Model	WF-501R PRO
Light Source	10W Red LED
Brightness	Up to 1000 Lumens (Red Light)
Power Source	1x Lithium Ion Battery (included)
Voltage	3.7 Volts
Material	Aerospace Grade Aluminum Alloy
Color	Black
Water Resistance	IP65 (Water Resistant)

Feature	Specification
Product Dimensions	0.98"D x 1.25"W x 5.3"H
Item Weight	3.2 ounces
Special Features	High Power, Rechargeable, Single Mode

10. WARRANTY AND SUPPORT

ULTRAFIRE provides a **Lifetime Warranty** for the WF-501R PRO Red LED Flashlight, ensuring long-term reliability and customer satisfaction.

Should you encounter any issues or have questions regarding your product, please do not hesitate to contact ULTRAFIRE customer support. Our primary goal is to provide the highest quality products and support. For assistance, please refer to the contact information provided with your purchase or visit the official ULTRAFIRE website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question