

FITORCH ER20

Fitorch ER20 Flashlight User Manual

Model: ER20

1. INTRODUCTION

The Fitorch ER20 is a compact and powerful EDC (Everyday Carry) flashlight designed for various applications including work, outdoor activities, and general daily use. It features a flat-edged design for secure grip and anti-roll stability, a magnetic base for hands-free operation, and a durable anodized aluminum body. The ER20 delivers up to 1000 lumens of brightness and offers multiple lighting modes.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- Fitorch ER20 Flashlight
- Lithium-ion Battery (pre-installed or separate)
- Magnetic Charging Cable
- Carry Pouch
- Pocket Clip
- Clip Screws
- Lanyard
- Spare O-rings



Image: All components included in the Fitorch ER20 package.

3. PRODUCT FEATURES

- **High Brightness:** Up to 1000 lumens output.
- **Durable Construction:** Anodized aluminum body.
- **Ergonomic Design:** Flat-edged body for secure grip and anti-roll.
- **Magnetic Base:** Allows attachment to metallic surfaces for hands-free lighting.
- **Multiple Modes:** Turbo, High, Medium, Low, Strobe, and SOS.
- **Rechargeable:** Integrated lithium-ion battery with magnetic USB charging.
- **Waterproof:** IPX8 rated.
- **Compact Size:** Ideal for everyday carry.



Image: The Fitorch ER20 flashlight held in a hand, illustrating its compact form factor.



Image: Angled view of the Fitorch ER20, highlighting its flat-edged body and attached pocket clip.

4. SETUP

4.1 Initial Charging

Before first use, fully charge the Fitorch ER20 flashlight. The battery may not be fully charged upon arrival.

1. Connect the magnetic charging cable to the charging port on the flashlight.
2. Connect the USB end of the cable to a standard USB power source (e.g., computer, wall adapter).
3. The indicator light on the flashlight will show charging status (e.g., red for charging, green for fully charged).
4. Charging typically takes approximately 2-3 hours.



Image: The Fitorch ER20 flashlight being charged via its magnetic USB cable.

4.2 Attaching the Pocket Clip

The included pocket clip can be attached to the flashlight body for convenient carrying.

1. Align the pocket clip with the designated groove on the flashlight body.
2. Secure the clip using the provided clip screws and a small screwdriver (not included).

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

The Fitorch ER20 is operated via a single side switch.

- **Turn On/Off:** Press and hold the side switch for approximately 0.5 seconds.
- **Change Brightness Modes:** With the flashlight on, single-click the side switch to cycle through Low, Medium, High, Turbo.
- **Access Strobe/SOS:** From any mode (or off), double-click the side switch to activate Strobe. Double-click again to switch to SOS. Single-click to return to the previously used brightness mode.
- **Memory Function:** The flashlight will remember the last used brightness mode (Low, Medium, High, Turbo) when

turned off and on again. Strobe and SOS modes are not memorized.



Image: Top view of the Fitorch ER20, highlighting the side switch for operation.

5.2 Magnetic Base Functionality

The magnetic base allows the flashlight to be securely attached to ferrous metal surfaces, providing hands-free illumination. This is useful for automotive repairs, workshop tasks, or other situations requiring directed light without holding the device.

6. MAINTENANCE

6.1 Cleaning

Regularly clean the flashlight body with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the anodized finish.

6.2 O-Ring Maintenance

To maintain the IPX8 waterproof rating, periodically inspect and lubricate the O-rings with silicone grease. Replace O-

rings if they appear damaged or worn. Spare O-rings are included in the package.

6.3 Battery Care

The integrated lithium-ion battery should be charged regularly, even if the flashlight is not in frequent use, to prolong its lifespan. Avoid fully discharging the battery for extended periods.

7. TROUBLESHOOTING

- **Flashlight does not turn on:**
 - Ensure the battery is charged. Connect the flashlight to the charging cable and check the indicator light.
 - Verify the side switch is being pressed and held for the correct duration (approx. 0.5 seconds).
- **Light output is dim or flickers:**
 - The battery may be low. Recharge the flashlight.
 - Ensure the lens is clean and free from obstructions.
- **Flashlight gets hot during use:**
 - High brightness modes (especially Turbo) generate significant heat. This is normal. The flashlight may automatically step down brightness to prevent overheating.
- **Magnetic charging not working:**
 - Ensure the magnetic cable is properly seated and making good contact with the charging port.
 - Try a different USB power source.
 - Clean the charging contacts on both the flashlight and the cable.

8. SPECIFICATIONS

Feature	Detail
Model	Fitorch ER20
Light Source	CREE XPL HD LED
Max Brightness	1000 Lumens
Material	Anodized Aluminum
Battery Type	Integrated Lithium-ion (1 Lithium Ion battery required)
Charging	Magnetic USB Charging
Water Resistance	IPX8 (Waterproof)
Drop Resistance	1 Meter
Product Dimensions	21D x 21W x 70H millimeters (approx. 2.08 x 2.08 x 7.04 cm)
Item Weight	50 g (approx. 1.74 oz)
Voltage	3.7 Volts



Image: Side profile of the Fitorch ER20 flashlight, showing its compact design.

9. WARRANTY AND SUPPORT

The Fitorch ER20 Flashlight comes with a **5-year Fitorch warranty**, covering manufacturing defects and material flaws under normal use. For warranty claims or technical support, please contact Fitorch directly through their official website. Official Website: www.fitorchworld.com

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