

[Manuals.plus](#) /

> [MATEMINCO](#) /

> MATEMINCO FW1 LED Tactical LEP Flashlight User Manual

MATEMINCO FW1

MATEMINCO FW1 LED Tactical LEP Flashlight User Manual

Model: FW1

1. INTRODUCTION

The MATEMINCO FW1 is a high-performance LED Tactical LEP Flashlight designed for outdoor long-distance illumination. Featuring a Nichia WP-Rx45 LED, it delivers a maximum output of 562 lumens and an impressive beam distance of up to 2952 meters. This flashlight is built with aerospace-grade aluminum alloy, offers USB Type-C recharging, and is compatible with 21700/26650 batteries. Its robust design includes impact resistance and IPX7 waterproofing, making it suitable for various demanding environments.



Figure 1.1: The MATEMINCO FW1 Flashlight, showcasing its ergonomic design and textured grip.

2. PACKAGE CONTENTS

Please inspect the package contents upon receipt to ensure all items are present and undamaged:

- 1 x MATEMINCO FW1 Flashlight
- 1 x Lanyard
- 2 x O-rings (spare)

Packing List

1*FW1 Flashlight

1*Lanyard

2*O-ring



Figure 2.1: All items included in the MATEMINCO FW1 package.

3. PRODUCT OVERVIEW

The FW1 flashlight features a robust construction and advanced optical system for superior performance.

Key Features:

- **LED:** 1*Nichia WP-Rx45 for powerful illumination.
- **Material:** Aerospace Grade Aluminum Alloy for durability.

- **Lens:** PMMA material for optimal light transmission.
- **Bezel:** Stainless steel design for added protection.
- **Charging:** USB Type-C 5V2A charging port.
- **Driver:** High efficiency constant current boost driver.
- **Waterproof:** IPX7 rated.
- **Impact Resistant:** Up to 1 meter.



Figure 3.1: The PMMA lens and stainless steel bezel of the FW1 flashlight.

4. SETUP

4.1 Battery Installation

1. Unscrew the tail cap of the flashlight by turning it counter-clockwise.
2. Insert one 21700 or 26650 high-drain battery (not included, Samsung 30T recommended, ensure >10A discharge current) with the positive (+) terminal facing towards the head of the flashlight.
3. Screw the tail cap back on clockwise until it is securely tightened.

4.2 Initial Charging

Before first use, it is recommended to fully charge the battery.

1. Locate the USB Type-C charging port on the flashlight body.
2. Connect the provided USB Type-C cable to the flashlight and plug the other end into a 5V2A USB power adapter (not included).
3. The indicator light (if present) will show charging status. Refer to the indicator light section for details (if available in product documentation).
4. Once charging is complete, disconnect the cable.

5. OPERATING INSTRUCTIONS

The FW1 features a side-mounted clicky switch and a multiple-mode user interface.

5.1 Basic Operation

- **Turn On/Off:** Press the side switch once to turn the flashlight on. Press it again to turn it off.
- **Mode Cycling:** While the flashlight is on, press and hold the side switch to cycle through different brightness levels. Release the switch to select the desired mode.

- **Special Modes:** (If applicable, specific instructions for strobe, SOS, or other special modes would be detailed here. Refer to the full manufacturer's UI guide for advanced operations.)

5.2 Charging

The FW1 supports convenient USB Type-C charging.

- Connect the USB Type-C cable to the flashlight's charging port and a power source.
- The charging indicator (if present) will typically show red during charging and turn green when fully charged.
- Ensure the charging port cover is securely closed after charging to maintain water resistance.



Figure 5.1: The FW1 flashlight demonstrating its long-distance beam capability at night.

Night Shot



Figure 5.2: The FW1 flashlight's beam illuminating a distant target over water.

6. MAINTENANCE

6.1 Cleaning

- Wipe the flashlight body with a clean, soft cloth.
- For stubborn dirt, use a slightly damp cloth. Avoid harsh chemicals or abrasive cleaners.
- Clean the lens gently with a lens cleaning cloth to maintain optimal beam quality.

6.2 O-Ring Maintenance

- Periodically inspect the O-rings for wear or damage.
- Apply a thin layer of silicone grease to the O-rings to maintain their flexibility and waterproof seal.
- Replace damaged O-rings with the provided spares to ensure IPX7 water resistance.

6.3 Storage

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

7. TROUBLESHOOTING

If you encounter issues with your FW1 flashlight, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Flashlight does not turn on	Battery is dead or incorrectly inserted; Loose tail cap; Damaged battery.	Charge or replace battery; Ensure correct polarity; Tighten tail cap; Try a different battery.
Light output is dim or flickers	Low battery charge; Poor contact between battery and terminals; Dirty contacts.	Recharge battery; Clean battery and flashlight contacts with a clean cloth; Ensure tail cap is tight.
Flashlight does not charge	Charging cable or adapter faulty; Charging port dirty; Battery not making contact.	Try a different USB-C cable and adapter; Clean charging port; Ensure battery is correctly inserted.
Water ingress	Damaged or improperly seated O-rings; Tail cap not fully tightened; Charging port cover open.	Inspect and replace O-rings if damaged; Ensure tail cap is fully tightened; Close charging port cover securely.

8. SPECIFICATIONS

Feature	Specification
Product Name	MATEMINCO FW1
LED	1*Nichia WP-Rx45
Material	Aerospace Grade Aluminum Alloy
Switch Type	Clicky Switch, Body side
Compatible Batteries	1*21700/26650 (High drain battery >10A recommended)
Max Output	562 lumens
Max Beam Intensity	2,180,000cd
Max Beam Distance	2952m (9685ft)
Impact Resistant	1m (3.28ft)
Waterproof Rating	IPX7
Weight	355g (12.5oz)
Dimensions (L*Head Dia.*Body Dia.)	187mm*59.5mm*34.5mm (7.36in*2.34in*1.36in)
UI	Multiple Modes, Constant Current Boost Driver
Charging Port	USB Type-C 5V2A
Lens Material	PMMA
Included Components	Lanyard, O-ring

9. WARRANTY INFORMATION

The MATEMINCO FW1 Flashlight comes with a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, unauthorized modifications, accidents, or normal wear and tear. Please retain your proof of purchase for warranty claims.

10. SAFETY PRECAUTIONS

- **Do not** shine the flashlight directly into eyes, as the powerful beam can cause temporary vision impairment or permanent damage.
- Keep out of reach of children.
- Use only recommended battery types (21700/26650 high-drain) and ensure correct polarity during installation.
- Avoid exposing the flashlight to extreme temperatures or open flames.
- Do not disassemble the flashlight head or sealed parts, as this may damage the LEP module and void the warranty.
- Ensure the USB Type-C charging port cover is sealed when not charging to maintain water resistance.

11. SUPPORT

For further assistance, technical support, or warranty claims, please contact your retailer or the manufacturer directly. Refer to the product packaging or manufacturer's official website for contact details.

© 2026 MATEMINCO. All rights reserved.

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

Open the live page

<https://manuals.plus/asin/B09NKSSL6K>

More documents and user manuals: <https://manuals.plus/>