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RovyVon R28M+

RovyVon E90 Flat EDC Flashlight User Manual

Model: R28M+ | Brand: RovyVon

Introduction

The RovyVon E90 Flat EDC Flashlight is engineered for everyday carry, offering exceptional brightness and versatile lighting options in a compact, durable design. This manual provides essential information on its features, operation, maintenance, and specifications to ensure optimal performance and longevity of your device.

What's in the Box

- E90 Flat Flashlight
- Two-way clip
- L wrench
- Charging Cable
- Extra clip screws

Key Features

Bright and Practical Illumination

The Angel Eyes E90 features two cool white emitters as primary light, delivering a maximum output of 3500 lumens (momentary turbo). It also includes three auxiliary emitters as sidelights: warm white light, 650nm red light, and 365nm blacklight, providing versatile lighting for various situations.



Top view of the RovyVon E90, highlighting the powerful main emitters and the versatile auxiliary sidelights (warm white, red, and 365nm UV).

Compact and Portable Design

The RovyVon E90 boasts a flat form factor with compact dimensions of 5.14 inches (L) x 1.14 inches (W) x 0.58 inches (H), and weighs only 3.7 ounces. This slim profile makes it ideal for everyday carry without adding bulk.



The compact size of the E90 flashlight, demonstrated next to a smartphone for scale, with precise dimensions.

Easy to Carry

Designed for convenience, the E90 flashlight includes a two-way and removable deep carry pocket clip. This allows for flexible attachment to your chest pocket, bag molle, or even a hat brim for hands-free operation.



The RovyVon E90 featuring its two-way deep carry pocket clip, designed for secure and versatile attachment.



Instructions for removing the two-way pocket clip using the included L wrench and extra screws.

Long-lasting Battery Life

This high-lumen flashlight is equipped with a built-in 3000mAh battery, providing extended runtimes. It offers up to 67 hours of primary light in Eco mode, 500 hours of side white light in low mode, 37 hours of side red light, and 10 hours of 365nm blacklight.

Additional Protective Features

The RovyVon E90 includes a proximity sensor to automatically reduce brightness when approaching an object, protecting your close-up vision and preventing overheating. It is also IP68 waterproof, ensuring reliable operation in wet

conditions, and boasts 1.5 meters of impact resistance for enhanced durability.

Setup

Initial Charging

Before first use, fully charge the RovyVon E90 flashlight. Connect the included USB-C charging cable to the flashlight's USB-C port and a compatible power source. The battery indicator lights will show charging progress. A full charge is indicated when all blue lights are solid.



The E90 flashlight supports fast USB-C charging for its 3000mAh Li-Po battery.

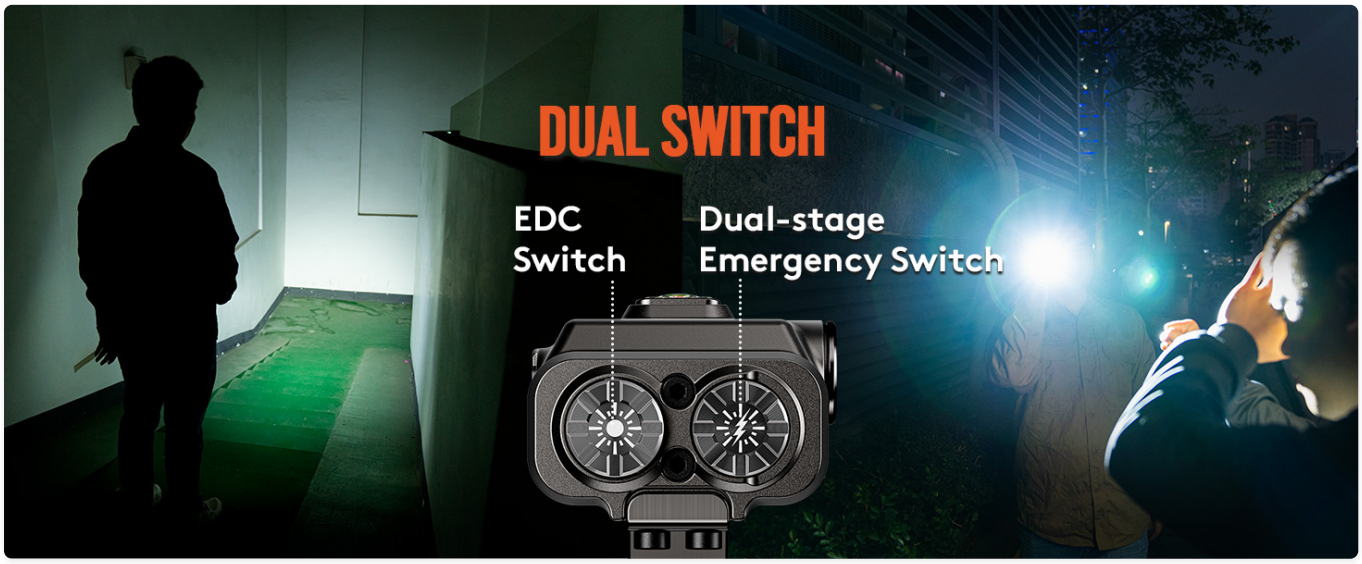
Attaching/Removing the Pocket Clip

The two-way deep carry pocket clip can be attached or removed using the provided L wrench and extra screws. Align the clip with the screw holes on the flashlight body and secure it firmly. Ensure screws are tightened to prevent accidental detachment.

Operating Instructions

Dual Switch System

The E90 features a dual switch system for intuitive control: an EDC (Everyday Carry) switch and a Tactical switch.



Detailed view of the E90's control interface, including the Side Switch, Tactical Switch, and EDC Switch.

Main Light Operation (EDC Switch)

- **Turn On/Off:** Press and hold the EDC switch for 0.5 seconds to turn on/off.
- **Mode Cycling:** With the light on, single-click the EDC switch to cycle through Eco → Low → Medium → High.
- **Momentary Turbo:** Double-click the EDC switch from any state for momentary 3500 lumens turbo. Release to return to previous mode.
- **Memory Function:** The main light will remember the last used mode (except Turbo).



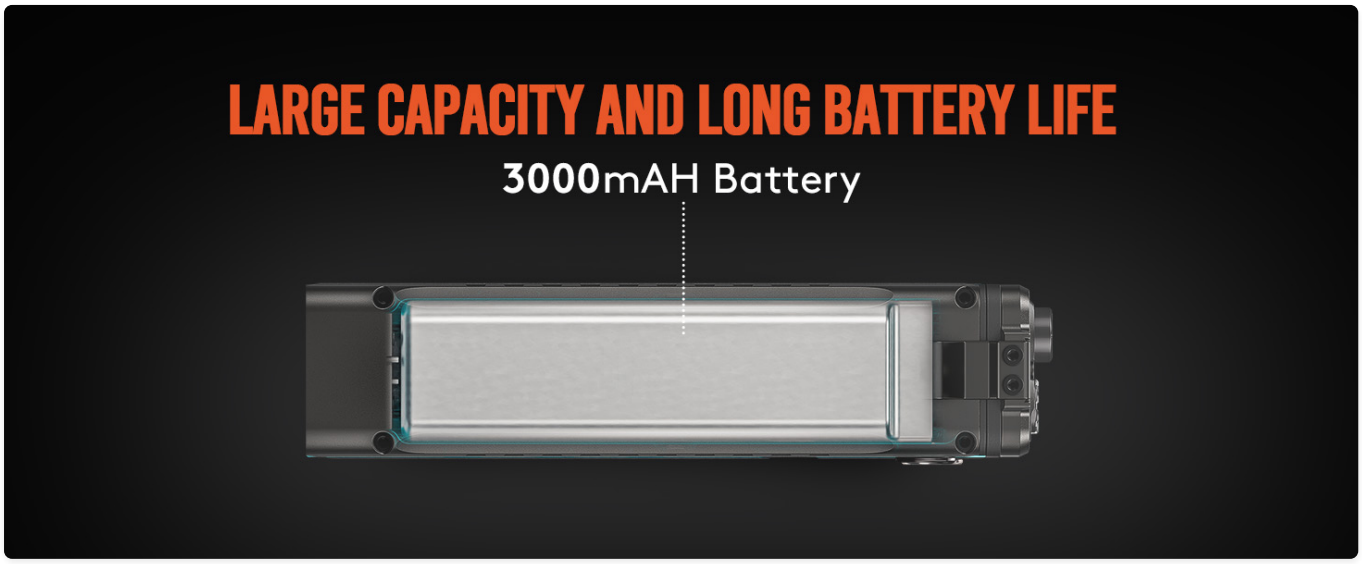
Visual representation of the E90's main light modes, showing lumen output and corresponding runtimes.

Sidelight Operation (Side Switch)

- **Turn On/Off:** Press and hold the Side switch for 0.5 seconds to turn on/off.
- **Mode Cycling (White):** With the sidelight on, single-click to cycle through Low → High (warm white).
- **Red Light:** Double-click the Side switch from any state to activate red light. Single-click to cycle through Red → Red Strobe.
- **UV Light:** Triple-click the Side switch from any state to activate 365nm UV light.
- **Lockout/Unlock:** From off, rapidly click the Side switch 5 times to lock/unlock the flashlight. The main light will flash twice to confirm lockout, or once to confirm unlock.

Proximity Sensor

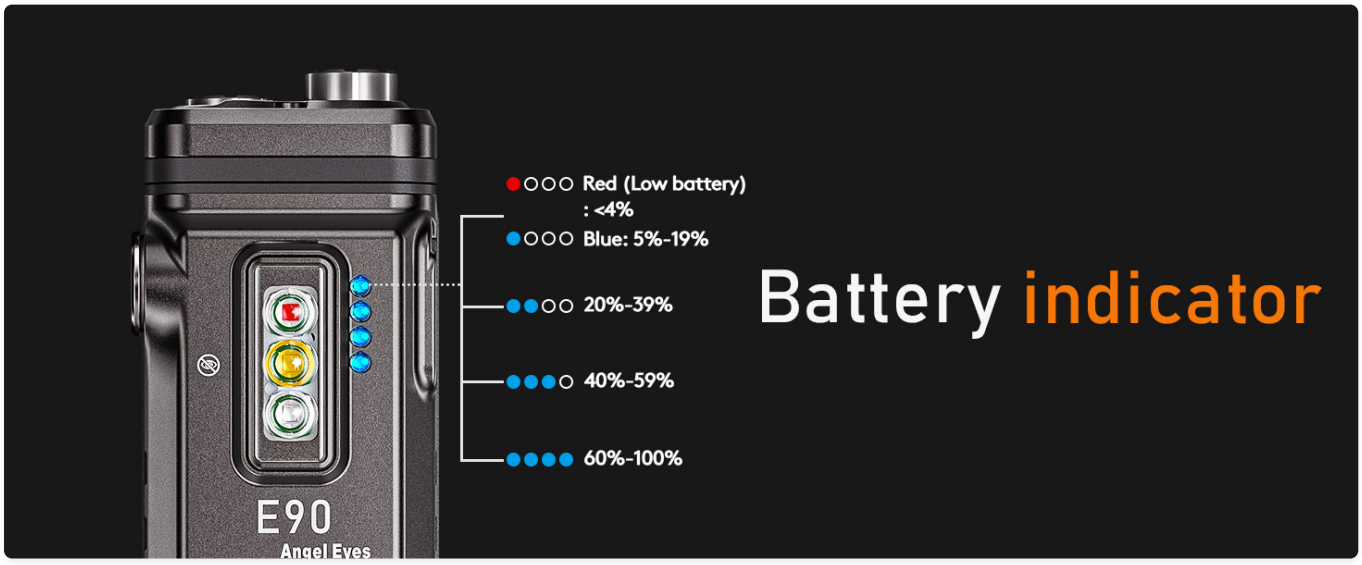
The E90 is equipped with a proximity sensor that automatically reduces the main light output to 100 lumens when the flashlight detects an object too close to the emitters. This prevents accidental burns or damage and conserves battery. The brightness will return to the previous level once the object is moved away.



The proximity sensor automatically adjusts brightness when the flashlight is too close to an object, then restores it when moved away.

Battery Indicator

The E90 features a battery indicator to show the remaining power level. Typically, blue lights indicate sufficient charge, while a red light indicates low battery (below 4%).



Understanding the battery indicator lights: Red for low battery, and blue lights for various charge percentages.

Maintenance

- **Cleaning:** Wipe the flashlight body with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Care:** To maintain battery health, recharge the flashlight regularly, especially if it has not been used for an extended period. Avoid fully depleting the battery frequently.
- **Water Resistance:** While IP68 waterproof, ensure the USB-C port cover is securely closed before exposing the flashlight to water.

- **Storage:** Store the flashlight in a cool, dry place away from direct sunlight and extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
Flashlight does not turn on.	Low battery; Lockout mode active.	Charge the battery; Rapidly click the Side switch 5 times to unlock.
Light turns on accidentally in pocket.	Buttons pressed unintentionally.	Always activate lockout mode (5 rapid clicks of Side switch) when carrying in a pocket or bag.
User interface feels complicated.	Unfamiliarity with button combinations.	Refer to the "Operating Instructions" section and practice the button presses for different modes. The dual switch system is designed for distinct functions.
Light dims unexpectedly.	Proximity sensor activated.	Ensure there are no objects close to the emitters. The light will return to full brightness when moved away.

Specifications

Feature	Detail
Brand	RovyVon
Model Number	R28M+
White Brightness	3500 Lumens (Max)
Power Source	Battery Powered
Battery Type	1 Lithium Polymer (3000mAh, included)
Runtime (Eco Mode)	Up to 67 hours (Primary Light)
Runtime (Side White Low)	Up to 500 hours
Runtime (Side Red Light)	Up to 37 hours
Runtime (365nm Blacklight)	Up to 10 hours
Light Source Type	LED
Material	Anodized Aluminum

Feature	Detail
Product Dimensions	5.14"D x 1.14"W x 0.58"H
Item Weight	5.3 ounces
Water Resistance Level	IP68 Waterproof
Special Features	Adjustable Light Modes, Non Slip Grip, Rechargeable, Weatherproof, Proximity Sensor

Warranty & Support

The RovyVon E90 Flat EDC Flashlight comes with a limited warranty. For detailed warranty information, technical support, or service inquiries, please refer to the official RovyVon website or contact their customer service directly. Keep your purchase receipt for warranty claims.

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