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# MRV-SideKick

Lumapower Innovative Flashlight



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## User Manual



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instruction in the literature

### Welcome to Lumapower

Please take a moment to register your product on our Web site at <http://www.Lumapower.com>. It enables us to keep you posted on our latest advancements, and helps us to better understand our customers and build products that meet their needs and Expectations.

This product has been designed and manufactured to the highest quality standards. However, if something does go wrong with this product, Lumapower and its national distributors warrant free of charge labour and replacement parts in any country served by an official distributor.

**Unpacking:** Check the product carefully. If it has been damaged in transit, report the damage immediately by calling your dealer and/or the shipping company that delivered it.

**Read Instructions.** All the safety and operating instructions should be read before the product is operated.

**Follow Instructions.** All operating and use instructions should be followed.

**Replacement Parts.** When replacement parts are required, be sure the replacement parts have the same characteristics as the original part. Unauthorized substitutions may cause damage to the unit.

## Introduction

The Lumapower MRV-SIDEKICK supports input voltage from 2.4V to 8.5V. The MRV-SIDEKICK is fitted with pure white LED module driven by a constant current regulation circuitry to achieve a consistent level of light output for the useable life of the batteries.

**Li-ion rechargeable :** LumaPower only recommends the use of PCB protected batteries.

Combination	Battery Type	Pcs
1	Rechargeable 18650 (3.7V)	1
2	Rechargeable 17670 (3.7V)	1
3	Rechargeable 17650 (3.7V)	1
4	Rechargeable 16340 (3.7V)	2
5	Primary 123A (3.0V)	2



- 1 : Top bezel**
- 2 : Anti-shock o-ring**
- 3 : AR-coated lens**
- 4 : Metal reflector**
- 5 : Reflector housing**
- 6 : SideKick LED engine**
- 7 : Battery cover**
- 8 : Battery tube**
- 9 : Tail switch**

The MRV-SIDEKICK features a forward clicky switch and multi-level SideKick control circuit with memory functions. Half-press the tail switch to power ON MRV-SIDEKICK momentary, full press to lock it for constant ON. Cycle press the SideKick to select output mode.

## Convertible Design

The MRV-SIDEKICK can be operate with 2x18650 , (with optional M-65 battery tube installed).

Reflectors/LED engine module can be easily upgrade.

## SideKick output control and Memory

Press to cycle the output from High, Medium and Low.

The SideKick module works on Power ON or OFF which remains the selected output with your next start.

## Battery Installation

Unscrew the tail or battery tube and insert new batteries with positive (+) ends towards LED assembly. Restore hand tighten. Depress tail cap pushbutton switch to test.

**Note:** Flashlight will not light if batteries are inserted in the wrong direction.

**Damage may occur with reversed battery polarity.**



**CAUTION:** MRV-SIDEKICK flashlights are high-output lighting devices. Due to possible eye injury, **DO NOT look directly into the reflector when the light is switched on. Do not shine the MRV-SIDEKICK into the eyes of others.** Safety is your responsibility. External surface temperature will rise during prolonged operation; this is a normal operating phenomenon.

## Battery Replacement

If there is significant decrease in brightness of light output you should replace the batteries with freshly charged batteries. Unscrew the LED-engine and remove the old battery. Insert a new battery as mentioned in **Battery Installation Guide**



**WARNING:** Lithium batteries can explode or cause burns if disassembled, shorted, recharged, exposed to water, fire, or high temperatures. Do not place loose batteries in a pocket, purse or other container containing metal objects or store with hazardous or combustible materials. Store in cool, dry, ventilated area. Follow applicable laws and regulations for disposal.

**Never use mixed-battery types or brands. Do not mix charged and uncharged batteries. Input voltage limited to 8.4V, never use 4 x 16340 or 4x123A which may cause circuit damage (with optional M-65 attached). Only use 2 x 18650 or 2 x 17670 with M65. Power ON MRV-SIDEKICK at High-out position unattended over 30 minutes may cause overheating and damage.**

## Maintenance

Clean and lubricate threads with a clean cloth and apply thin coat of silicon-based lubricant to rubber O-rings. **Note:** Do not use petroleum-based lubrication on O-rings. After prolonged exposure to moisture, the bezel and batteries should be removed, inspected, and dried if necessary.



**WARNING:** Lumapower reflectors are made with a highly precise process. Do not touch or clean the reflecting surface using any cloth which may cause damage to the surface material affecting the illuminating performance.



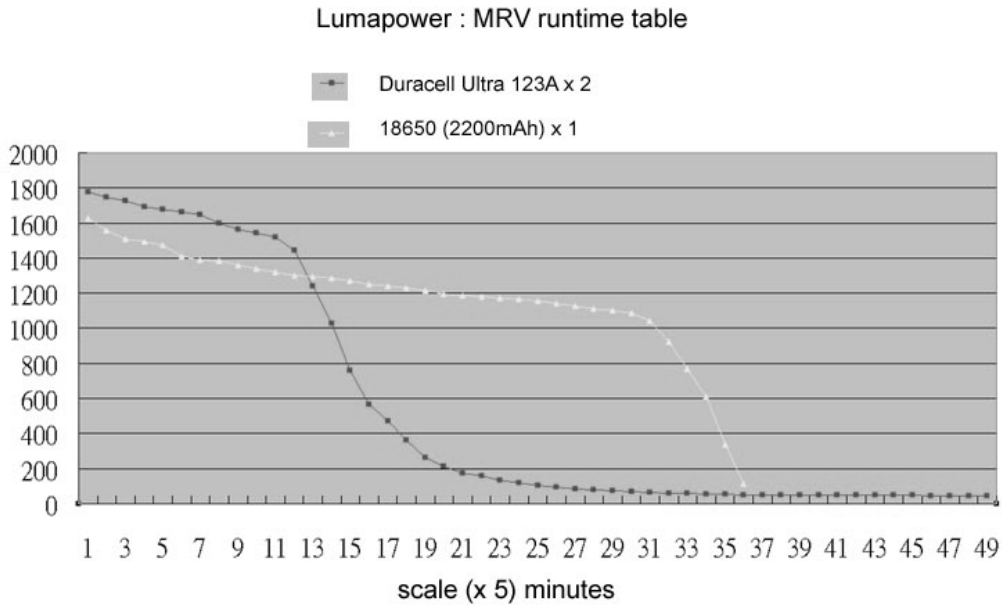
Reflecting surface

### Inactive Periods.

If MRV-SIDEKICK is left unused for long period, the installed batteries should be removed from the unit.

### Output & Runtime

Accurately specifying light output (lumens) and runtime is complicated for LED flashlights. Installed batteries and operating temperature are the main factors affecting the light output and runtime. Lumapower cannot guarantee its products can reach the specification under the using condition of users.



### Specification

LED : Cree XR-E Q5

Reflector : SMO type

Output : 30 Lumens to 265 Lumens

Runtime : see above reference.

Input Voltage : 2.5V to 8.4V

Batteries : primary 123A, rechargeable Li-ion (16340,18650...)

Length : 175mm

Bezel Diameter : 45mm

Body Diameter : 25.4mm

Tail cap Diameter : 29mm

Reflector Diameter : 38mm

Weight : 221g (Full size without battery installed)

Material : T6 aircraft aluminum with Type III HA

Body color : Black

Accessories : spare o-rings (for battery tube)

**Specifications:** All product specifications/features are subject to change without notification.