



LR50R V2.0
MULTIPLE-LIGHT-SOURCE SEARCH & RESCUE FLASHLIGHT



18000 LUMENS MAX OUTPUT



846 METERS MAX BEAM DISTANCE

LIGHTING FOR EXTREMES



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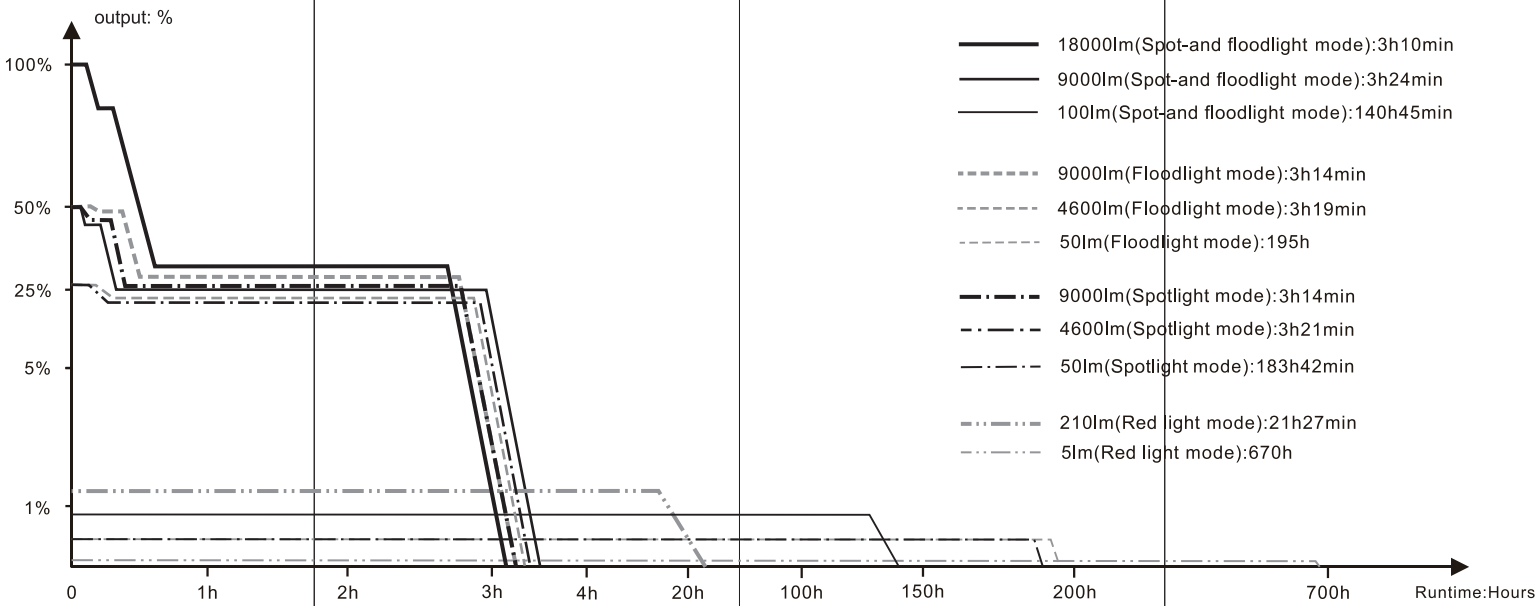
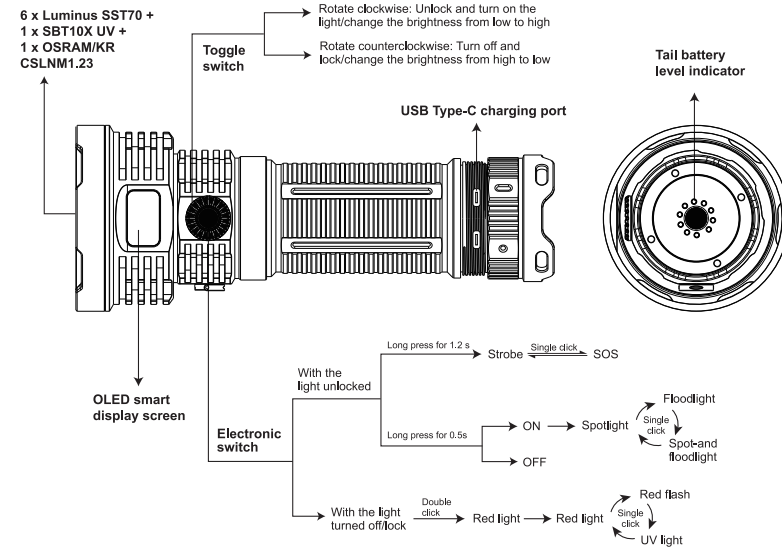
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6 x Luminus SST70 +
1 x SBT10X UV +
1 x OSRAM/KR
CSLNM1.23



TECHNICAL PARAMETERS

ANSI/PLATO FL1	SPOTLIGHT MODE			FLOODLIGHT MODE			SPOT-AND FLOODLIGHT MODE			RED LIGHT MODE			RED FLASH MODE		UV LIGHT MODE**		SPECIAL MODE	
	HIGH	MED	LOW	HIGH	MED	LOW	HIGH	MED	LOW	HIGH	MED	LOW	HIGH	LOW	MAX OPTICAL POWER	STROBE	SOS	
OUTPUT	9000 lumens	4600 lumens	50 lumens	9000 lumens	4600 lumens	50 lumens	18000 lumens	9000 lumens	100 lumens	210 lumens	105 lumens	5 lumens	210 lumens	5 lumens	10 W	18000 lumens	50 lumens	
RUNTIME	3 hours 14 minutes	3 hours 21 minutes	183 hours 42 minutes	3 hours 14 minutes	3 hours 19 minutes	195 hours	3 hours 10 minutes*	3 hours 24 minutes	140 hours 45 minutes	21 hours 27 minutes	36 hours 28 minutes	670 hours	/	/	6 hours	/	/	
DISTANCE	808 meters	634 meters	60 meters	232 meters	181 meters	17 meters	846 meters	354 meters	60 meters	60 meters	/	15 meters	/	/	/	/	/	
INTENSITY	163296 candela	100557 candela	908 candela	13405 candela	8171 candela	74 candela	178864 candela	108812 candela	908 candela	888 candela	/	53 candela	/	/	/	/	/	
IMPACT RESISTANCE	1 meter																	
SUBMERSIBLE	IP68																	

Note: 1. According to the ANSI/PLATO FL1 standard, the above specifications are from the results produced by Fenix through its laboratory testing using one 3.6V/3200mAh battery stick under the temperature of 21±3°C and humidity of 50% - 80%. The true performance of this product may vary according to different working environments and the actual battery used.
2. Except for Strobe and SOS, all light modes support stepless brightness regulation.
*The high output is measured in total of runtime including output at reduced levels due to temperature or protection mechanism in the design.
**The above UV light power refers to the UV light's full-band optical power.

WARNING

- Do NOT shine this flashlight directly into anyone's eyes!
- All information provided in this user manual is subject to change without prior notice.
- Do NOT place this flashlight in the reach of children!
- Do NOT place flashlight head near flammable objects, high temperatures can cause objects to overheat and become flammable/ignite!
- Do NOT use the flashlight in inappropriate ways such as holding the unit in your mouth, doing so could cause serious personal injury or death if the light or internal battery fails!
- This flashlight will accumulate a significant amount of heat while operating, resulting in a high temperature of the light shell. Pay close attention to avoid burns!
- Turn off the flashlight or remove the battery to prevent accidental activation when the flashlight is placed in a closed and flammable environment such as pockets and backpacks!
- The LEDs of this flashlight are not replaceable; so the whole flashlight will need to be replaced when any one of the LEDs reaches the end of its lifespan.
- This flashlight is for professional use only. Not for use by untrained individuals or children.
- This flashlight complies with the EU photobiological safety standard EN 62471. Please use this flashlight according to the specified safety classification.

WARNING: ULTRAVIOLET (UV) RADIATION HAZARD

- This flashlight emits ultraviolet (UV) radiation, which may cause damage to eyes and skin.
- UV light is generally invisible to the human eye. Improper use may result in unintended exposure.
- Do not look directly at the UV-LED or its beam during operation. Avoid shining the flashlight directly at people, animals, or exposed skin.
- Caution: UV radiation reflects off surfaces (e.g., mirrors, metal), increasing the risk of accidental exposure.
- Be aware that objects and liquids you shine on may redirect or reflect the light beam, depending on the kind of surface they have.
- When used in close proximity to objects, reflected UV radiation is stronger and more intense than at a distance of several meters.
- Do not use optical lenses to focus the light beam within its emission cone.
- Always wear certified UV-protective goggles and skin protection during use to avoid eye and skin damage. Also avoid prolonged exposure of skin or other living tissue.
- Restrict usage of UV light to professional applications only. Always turn off the flashlight and store it securely after use.

(ENGLISH) FENIX LR50R V2.0 FLASHLIGHT

Uses 6 x Luminus SST70 LEDs, spotlight and floodlight dual light source; spotlight maximum output 9000 lumens; floodlight maximum

output 9000 lumens; spot-and floodlight maximum output 18000 lumens; maximum beam distance 846 meters; lifespan 50000 hours.
Uses 1 x SBT10X UV + spotlight cup + black filter, UV light with a 365 nm wavelength and 10 W optical power forms a UV light inspection system suitable for large-area, long beam distance, and high-detectability UV inspections.
Uses 1 x OSRAM/KR CSLNM1.23, red light maximum output 210 lumens, suitable for nighttime illumination, eye-protective and anti-glare; red flash can be used for warning, distress signaling, sending signals, etc.
Integrated toggle switch + electronic switch design; single click the electronic switch for mode switching, rotate the toggle switch for stepless brightness regulation.
Powered by a single 32000 mAh high-capacity replaceable battery stick; runtime up to 195 hours.
Universal dual Type-C integrated charge/discharge ports support simultaneous charging or discharging, the orange port supports 45 W fast charging and 15 W fast discharging, and the black port supports 18 W fast charging and fast discharging.
OLED smart display screen can display the lumen value, current lighting mode, remaining battery level, runtime, and charging status in real time.
Intelligent brightness downshift function can prevent objects from being burned when illuminated at close range. This function can be turned on or off.
Toggle switch features a lockout function to prevent accidental activation.
Includes a comfortable shoulder strap that relieves pressure and is non-slip, and an emergency whistle that serves multiple purposes such as distress signaling and communication.

Size: 8.57" x 3.53" x 2.12"/217.6 x 89.6 x 53.9 mm.
Weight: 40.55 oz/1149.5 g (including battery).

OPERATING INSTRUCTIONS

On/Off
On: With the light locked, rotate the toggle switch clockwise to turn on the light; with the light turned off and unlocked, press and hold the electronic switch for 0.5 seconds to turn on the flashlight.
Off: Rotate the toggle switch counterclockwise to the stop position, or press and hold the electronic switch for 0.5 seconds to turn off the flashlight.

Mode Switching
With the light turned on, single click the electronic switch to cycle through Spotlight mode—Floodlight mode—Spot-and floodlight mode. With the light turned off/locked, double click the electronic switch to enter Red Light/Red flash/UV light mode (the last selected lighting mode before turning off). Single click the electronic switch to cycle through Red light mode—Red flash mode—UV light mode, and press and hold it for 0.5 seconds to exit Red Light/Red flash/UV mode and turn off the flashlight.

Strobe/SOS Mode
With the light unlocked, press and hold the electronic switch for 1.2 seconds to enter Strobe mode. Single click the electronic switch to cycle through Strobe—SOS. Press and hold the electronic switch again for 1.2 seconds to exit Strobe/SOS mode.

Output Selection

In Spotlight/Floodlight/Spot-and floodlight/Red light/Red flash/UV light modes, rotate the toggle switch for stepless brightness regulation.

Lock/Unlock

With the light unlocked, rotate the toggle switch counterclockwise to stop position, the flashlight will enter the locked and turned off status.

Intelligent Memory Circuit

The flashlight automatically memorizes the last selected mode excluding Strobe and SOS. When turned on again, the last selected Spotlight/Floodlight/Spot-and floodlight mode will be recalled. When turned on again by double-clicking the electronic switch, the last selected Red light/Red flash/UV light mode will be recalled.
*Note: The flashlight does not memorize output level.

BATTERY INSTRUCTIONS

Type	Cell Specifications	Nominal Voltage	Nominal Power	Remarks
Rechargeable Battery Stick (Li-Ion)	46950	3.6 V	115.2 W	The battery cell and the flashlight body are integrated and cannot be disassembled

*Fenix LR50R V2.0 is only compatible with the 46950 battery stick. Do not use other types of batteries or battery sticks.

BATTERY STICK REPLACEMENT

Unscrew the light head and battery stick; the battery stick can be replaced with the same model.

CHARGING

- Turn off the flashlight, unscrew the hidden charging port at the tail, insert the charging cable's Type-C connector into the flashlight's charging port, insert the other end of the charging cable into the adapter and power it on.
- After the flashlight receives a charging signal, the OLED screen automatically lights up to display the current battery percentage and a charging status icon. Ten green lights light up incrementally to indicate charging. When both Type-C ports are charging at full power, the time from nearly depleted to fully charged is approximately 3 hours.
- The Type-C port supports PD3.0, PD2.0, and all other current mainstream fast-charging protocols.
- When charging, make sure a battery is installed in the flashlight before connecting the charging cable to the flashlight; do not connect the charging cable when the inside of the flashlight is empty.

Power specifications:
Orange Type-C Port

Supports fast charging: Yes;

Charging voltage: 15 V;
Charging power: 45 W (15 V / 3 A)

Black Type-C Port

Supports fast charging: Yes;
Charging voltage: 12 V;
Charging power: 18 W (9 V / 2 A)

Supports PD3.0, QC2.0 and other fast-charging adapters or standard 5 V adapters. Only use a certified USB charging adapter that complies with the government safety standards of the country or region where this product is sold.

POWER BANK FUNCTION

- Turn off the flashlight, unscrew the tail to open the hidden charging port, insert the charging cable's Type-C plug into the flashlight's discharge port, and insert the other end of the charging cable into the charging port of the electronic device that needs to be charged.
- When discharging, the OLED screen automatically lights up to display the current battery percentage and discharge status icons, 10 green lights light up in a decreasing sequence to indicate discharging.
- After discharge is complete, unplug the charging cable, tighten the tail until it reaches the stop to hide the port.
- Compatible fast-discharge protocols: PD, QC, etc.

Remarks:
1. While the flashlight is charging or discharging, all modes support turning on and stepless brightness regulation; the maximum allowed output for white light is approximately 900 lumens; red light and red flash have no output limit; UV light is lighted up at a fixed output.
2. When discharging, turn on the flashlight. When the battery level falls below 5%, the maximum allowed white-light output is 100 lumens, and when the battery voltage drops below 2.8 V, discharge will stop and the device will shut down forcibly.

BATTERY LEVEL INDICATION

OLED smart display screen
When the flashlight is turned on, the OLED smart display automatically lights up, showing the remaining battery percentage, the current lumen value, and the runtime for the current mode, and remains continuously lit.
Remarks:
When the battery level falls below 5%, the OLED smart display will flash the low battery icon across the entire screen to indicate low power, and except UV light, the output of all modes is limited to 50 lumens in Spotlight mode, with the SOS mode flashing at 10 lumens.
*The displayed output is the output of the current level; actual output during use may be reduced due to intelligent overheat protection.

Tail battery level indicator
Single click the tail electronic switch; the 10 green battery level indicators will show the remaining battery level and will turn off after 3 seconds. If the electronic switch is single clicked again within 3 seconds, the battery level display will be turned off.

10 lights on: 100% - 90%; 9 lights on: 90% - 80%; 8 lights on: 80% - 70%; 7 lights on: 70% - 60%; 6 lights on: 60% - 50%; 5 lights on: 50% - 40%; 4 lights on: 40% - 30%; 3 lights on: 30% - 20%; 2 lights on: 20% - 10%; 1 light on: below 10%.

LOW-VOLTAGE WARNING

When the voltage level drops below the preset level, the flashlight is programmed to downshift to a lower brightness level until the lowest output is reached. When this happens in the lowest output, the battery icon on the OLED smart display will keep flashing until the battery runs out, or one of the tail battery level indicator will automatically light up and keep blinking until the battery runs out to remind users to recharge the battery in a timely manner.

INTELLIGENT BRIGHTNESS DOWNSHIFT FUNCTION

On/Off
With the light locked, press and hold the electronic switch for 6 seconds, and the flashlight will blink twice in Floodlight mode at Low (50 lumens), indicating this function is enabled.
With the light locked, press and hold the electronic switch for 6 seconds; the flashlight will blink 8 times in Floodlight mode at Low (50 lumens), indicating this function is turned off.

Intelligent Sensing Downshift
When the light head is close to an illuminated object (about 2.36"/60 mm) for more than 1.5 seconds, the flashlight will automatically downshift to 50 lumens to avoid potential danger/burns caused by high temperatures. When the light head is away from the illuminated object for more than 0.8 seconds, the flashlight gradually recalls the previously used brightness level.

INTELLIGENT OVERHEAT PROTECTION

The flashlight will accumulate a lot of heat when used at high output levels for extended periods. When the flashlight reaches a temperature of 65 °C/149 °F, or above, it will automatically step down a few lumens to reduce the temperature. When the temperature drops below 65 °C/149 °F, the flashlight will gradually recall the preset output level.

USAGE AND MAINTENANCE

- Disassembling the sealed components of the flashlight can cause damage to the flashlight and will void the warranty.
- Fenix recommends using an excellent quality battery.
- If the flashlight will not be used for an extended period, remove the battery, or the flashlight could be damaged by electrolyte leakage.
- Rotate the toggle switch to the stop position, unscrew the light tail half a turn, or take out the battery to prevent accidental activation during storage or transportation.
- Long-term use can result in O-ring wear. To maintain a proper water

seal, replace the O-ring with an approved spare.

Periodic cleaning of the flashlight and battery contacts improves the flashlight's performance as dirty contacts may cause the flashlight to flicker, shine intermittently or even fail to illuminate for the following reasons:

- A: The flashlight is locked. Solution: Rotate the toggle switch clockwise to unlock and turn on the flashlight.
 - B: Poor battery level. Solution: Recharge or replace the battery stick.
 - C: The contact or contact point of the battery or the flashlight is dirty. Solution: Clean the contact points with a cotton swab soaked in rubbing alcohol.
- If the above methods don't work, please contact your authorized distributor.

INCLUDED

Fenix LR50R V2.0 flashlight, USB Type-C charging cable, Shoulder strap kit, Emergency whistle, 2 x Spare O-rings, User manual, Warranty card