Fenix FD41 Flashlight

Technical Parameters

ANSI/PLATO FL1		General Mode				Strobe
		Turbo	**High**	**Med**	**Low**	
Output		900 Lumens	350 Lumens	150 Lumens	10 Lumens	900 Lumens
Runtime		1h 40min*	3h 50min*	10h 15min	150h	/
Distance	**Spotlight**	340m	218m	141m	37m	/
	Floodlight	47m	30m	20m	6m	/
Intensity	**Spotlight**	29,000cd	12,000cd	5,000cd	350cd	/
	Floodlight	560cd	230cd	100cd	9cd	/
Impact Resistance		1m				
Waterproof		IP68, underwater 2m				

Notice: The above-mentioned parameters (lab-tested by using Fenix 3.6V/3500mAh 18650 rechargeable Li-ion battery) may vary between flashlights, batteries and environment.
*Due to the dual overheat protection; the runtime of Turbo is estimated.

- Uses Cree XP-L HI LED with a lifespan of 50,000 hours
- Powered by one 18650 rechargeable Li-ion battery or two CR123A batteries
- 146mm Length x 25.4mm Body Diameter x 40mm Head Diameter
- 160 grams (excluding battery)
- 360°rotary focusing technology
- Digitally regulated output maintains constant brightness
- Reverse polarity protection, to protect from improper battery insertion
- Intelligent overheat protection to avoid high surface temperature
- Tactical tail switch for momentary on and constant activation
- Functional side switch for output selection
- Made of durable aircraft-grade aluminum

- Premium type Ⅲ hard-anodized anti-abrasive finish
- High efficiency lens with total reflective coating

Operation Instruction

The tail cap switch is the tactical switch, and the side button switch is the functional switch.

ON/OFF

Tap the tactical switch to turn on the light momentarily, release it and the light will go out.
Fully press the tactical switch to turn on the light constantly, press once again to switch off the light.

Output Selection

With the light on, single clicking the functional switch continually, the light will cycle through Turbo→Low→Med→High.

Strobe

With the light on, press and hold the functional switch for 0.5 seconds to activate Strobe; with another single click the light will return to previously used General brightness level.

Spotlight and Floodlight Adjustment

The factory default will be total floodlight. Rotate the focusing ring to regulate the lens focus, thus changing between spotlight and floodlight.

Intelligent Memory Circuit

The flashlight memorizes the last brightness level used in the General mode. The next time it is turned on, it will recall the previously used General brightness level.

Dual-protection Function

Time control: The light will downshift from Turbo to High after 5 working minutes.
Heat control: The light will accumulate a lot of heat when used at Turbo output level for extended periods. When the light reaches a temperature of 55℃ or above, it will automatically step down by a few lumens to reduce temperature. When the temperature is reduced, the output will gradually return.

Low-voltage Downshift Function

When the voltage level drops below the preset level, the flashlight is programmed to downshift to lower brightness levels until Low output is reached. When this happens in Low output mode, the flashlight blinks three times every five minutes to remind you to charge the light or replace the battery. To ensure normal use, the flashlight will not turn off and will work until the over-discharge function stops the battery from working.

Battery Specifications

Type	Dimensions	Nominal Voltage	Usability	
Fenix ARB-L18 Series	18650	3.6V/3.7V	Recommended	√√
Fenix ARB-L2 Series	18650	3.6V/3.7V	Recommended	√√
Non-rechargeable Battery (Lithium)	CR123A	3V	Usable	√
Rechargeable Battery (Li-ion)	18650	3.6V/3.7V	Caution*	□
Rechargeable Battery (Li-ion)	16340	3.6V/3.7V	Caution*	□
Rechargeable Battery ($LiFePO_4$)	18650	3.2V	Banned	×

*Li-ion batteries are powerful cells designed for commercial applications and must be treated with caution and handled with care. Quality batteries with circuit protection will reduce the potential for combustion or explosion but cell damage or short circuiting are potential risks the user assumes.

Battery Replacement

Unscrew the tail cap to insert the battery with the anode side (+) towards the light head, then screw the tail cap back on.

Usage and Maintenance

- Disassembling the sealed head can cause damage to the light and will void the warranty.
- Fenix recommends using excellent quality battery. If the light will not be used for an extended period, remove the battery, or the light could be damaged by electrolyte leakage or battery explosion.
- Continuous usage at Turbo brightness level in hot or poor heat dissipation environment, the light may activate overheat protection or light beam trembling. To maintain normal usage, please lower brightness level to cool down the flashlight.
- Long-term use can result in O-ring wear. To maintain a proper watertight seal, replace the ring with an approved spare□
- Periodic cleaning of the battery contacts improves the lamp's performance as dirty contacts may cause the lamp to flicker, shine intermittently or even fail to illuminate for the following reasons:
  A: The battery needs replacing.
  Solution: Replace battery (Ensure battery is inserted according to the manufacturer’s specifications).
  B: The threads, PCB board contact or other contacts are dirty.
  Solution: Clean the contact points with a cotton swab soaked in rubbing alcohol.

If the above methods don't work, please refer to the warranty policy before contacting your authorized distributor.

Warning

The flashlight is a high-intensity lighting device capable of causing eye damage to the user or others. Avoid shining the flashlight directly into anyone’s eyes.