Fenix FD45 Flashlight

Technical Parameters

ANSI/ PLATO FL1		General Mode					Flash Mode	
		Turbo	High	Med	Low	Eco	Strobe	SOS
Output		900 Lumens	350 Lumens	150 Lumens	50 Lumens	5 Lumens	900 Lumens	50 Lumens
Runtime		1h 30mins	4h 20mins	11h 50mins	29h 50mins	160h	/	/
Distance	Spotlight	330m	194 m	127 m	80 m	29 m	/	/
	Floodlight	46 m	28 m	18 m	13 m	8 m	/	/
Intensity	Spotlight	27,225cd	9,405cd	4,030cd	1,600cd	210cd	/	/
	Floodlight	530cd	195cd	80cd	40cd	16cd	/	/
Impact Resistance		1m						
Waterproof		IP68, underwater 2m						

Note: The abovementioned parameters (lab-tested by Fenix using 4 Ni-MH/2500mAh batteries) may vary between flashlights, batteries and environments.

- Cree XP-L HI neutral white LED with lifespan of 50,000 hours
- Powered by 4*AA (Ni-MH/Alkaline) batteries

- 121.8mm Length x 39mm Body diameter x 40mm Head diameter
- 206 grams (excluding batteries)
- Lockout function avoids accidental activation
- Digitally regulated output maintain constant brightness
- High-efficient TIR optical focusing lens
- Reverse polarity protection, to protect from improper battery insertion
- Intelligent overheat protection protects from high surface temperature
- Made of durable aircraft-grade aluminum
- Premium type III hard-anodized anti-abrasive finish

Operation Instruction

ON/OFF

In unlocked status, press and hold the switch① for 0.5 seconds to turn ON/OFF the light.

Output Selection

With the light on, single click the switch① to circle through Turbo→Eco→Low→Med→High. (The factory default output level is Turbo).

Flash Mode

In unlocked status, press and hold the switch① for 1.2 seconds to enter Strobe. Single click the switch①to circle through Stroke→SOS. Press and hold the switch① for 1.2 seconds once again to turn back to previous General output level.

Spot- and Floodlight Adjustment

Rotate the focusing ring② to regulate between spotlight and floodlight. Clockwise regulate gradually to floodlight. Counterclockwise regulate gradually to spotlight. (The factory default is between spot- and floodlight. The focusing ring② could be a little tight for first rotating.)

Lockout Function

Lock

With the light turned off, continuous single clicking the switch① twice within 0.5s, the light will blink twice on Low and then switch off to indicate locked status.

Unlock

With the light locked, continuous single clicking the switch① twice within 0.5 seconds. The light will be unlocked and activated on last used brightness.

Locked Status

In locked status, single clicking or pressing the switch① will activate 2 blinks and then switch off to indicate locked status.

Intelligent Adjustment

Intelligent Memory Circuit

The light memorizes the last selected brightness level on General mode. When turned on again the previously used brightness level will be recalled.

Overheat Protection

The light will accumulate a lot of heat when used on Turbo output level for extended periods. When a temperature of 55°C or above is reached, the light will automatically step down by a few lumens to reduce temperature. When the temperature is reduced, the output will gradually return to Turbo output level.

Low-voltage Warning

When the voltage level drops below the preset level, the flashlight is programmed to downshift to a lower brightness level until Eco output is reached. When this happens in Eco output mode, the flashlight blinks three times every five minutes to remind you to replace the batteries. To ensure normal use, the flashlight will not turn off automatically and will work till the battery level runs out completely.

Battery Specifications

Types	Dimensions	Nominal Voltage	Usability	
Ni-MH Battery	AA	1.2V	Recommended	√√
Alkaline Battery	AA	1.5V	Recommended	√√
ARB-L14-1600U	14500	1.5V	Usable	√
Non-rechargeable Battery (Li-ion)	AA	1.5V	Usable	√
Rechargeable Battery (Li-ion)	14500	3.7V	Banned*	×

Warning: Do not mix batteries of different brands, sizes, capacities or types. Doing so may cause damage to the flashlight or the batteries being used.

*Using banned battery will cause flashlight malfunction or damage.

Battery Replacement

Unscrew the tail cap③ to insert the battery with the polarity markings accordingly to the signs in the flashlight, and then screw the tail cap③ 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 working at Turbo brightness level, the light may activate overheat protection or cause light beam trembling, to maintain normal status, lower the brightness level to cool down the flashlight.
- Long-term use can result in O-ring④ wear. To maintain a proper water seal, replace the ring④ 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 batteries need replacing.
  Solution: Replace batteries (Ensure batteries are 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 contact 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.

Accessories

1*lanyard, 1* holster, 1*spare O-ring, warranty card, user manual