



Features:

- Ultra high power 310nm eXtreme UV flashlight.
- For professional harsh environment use
- Top quality 310nm UV Led
- *Powered by two Lithium-Ion 26650 rechargeable batteries or two 18650 types with included spacers (* sold separately)
- Tail cap switch
- Equipped with replaceable UV bandpass filter
- Waterproof IPX-8 (2 meter)

Specifications:

Brand	Convoy
Material	Aluminum alloy
Lens	58mm UV Filter
Led type	16.8W Pd 310nm band
Flashlight length	24.5cm x 6.2/3.5cm
Modes	One mode
Color	Black
Weight	410g

Operating instructions

Battery placement:

Place the batteries with
The + towards the
inside



B310-eXtreme UV Usermanual

Battery charging:

First-time usage (for flashlights with battery):

Unscrew the back off the flashlight and remove the protection spacer from the battery and fully charge the batteries before first usage! The batteries are in storage mode and need to be charged as soon as possible!

During charging the charger led will burn red. The led will turn green when the batteries are full. Do NOT leave the batteries in the charger when fully charged!

The B310-eXtreme must be used with two rechargeable 26650 Lithium-Ion battery (>5000mAh, minimum 10A discharge type) or two 18650 Lithium-ion battery (>3400mAh, minimum 10A discharge type) with the included spacers. When the batteries are almost empty, the flashlight will start to flash and eventually will shut down the lamp. When flashing starts, recharge the batteries as soon as possible!

Warning:

1. Place the batteries with the + to the inside. Reverse placement can destroy the flashlight and batteries.
2. NEVER look directly into the light beam. This can damage your sight! UVB radiation is harmful!
3. This lamp is NOT suitable for children, it is not a toy.
4. Don't aim the light beam directly to your skin. Exposure can damage the skin tissue.
5. Do not operate the lamp for more than 10 mins continuous. Use it with intervals to cool it down. Overheating the Led will cause it to fail.
6. Do not disassemble the flashlight or make any modifications. This will void the warranty.

Warranty:

The B310-eXtreme flashlight has a one year factory carry-in warranty. The warranty starts on the date of delivery. The warranty will void if the lamp is modified or broken due to fall, damage, improperly handling or battery leakage.



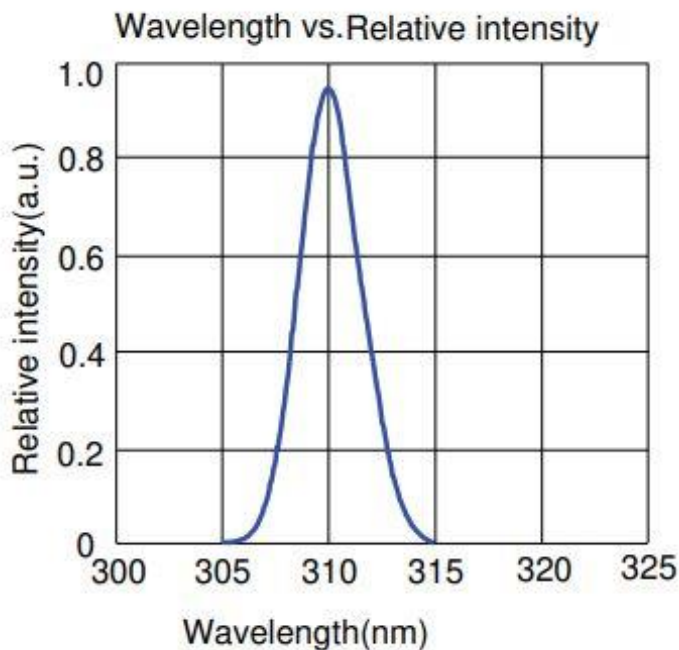
Technical Specifications:

Symbol	Item	Min.	Typ.	Max.	Units	Test Conditions
IE	Radiant Irradiance	—	—	—	mW/cm ²	IF=2800mA
Po	Radiation Power	450	550	—	mw	IF=2800mA
VF	Forward Voltage	5.0	—	7.0	v	IF=2800mA
$\Delta\lambda$	Half Width	—	13	—	nm	IF=2800mA
λ_p	PeakWavelength	305	—	315	nm	IF=2800mA
$2\theta_{1/2}$	50% power angle	—	60	—	deg	IF=2800mA
IR	Reverse Current	—	—	20	uA	VR = 5V

C310-eXtreme lamp power: 18W

Temperature controlled Led driver. When the Led reaches the maximum operating temperature of 55°C, the driver will reduce the current through the Led allowing it to cool down. This will reduce output of the Led as well. Allow the lamp to cool down to be able to use full brightness.

Led spectrum:



Operating times fully charged battery:

26650 battery: > 2hr

18650 battery: > 1hr 20mins

Led useful lifetime: ~10000hrs

Filter useful lifetime: >10000hrs

Advised filter replacement interval: none (solarization does not occur with UVB radiation)