



### Features:

- Very high power 310nm Shortwave UV flashlight.
- For professional use
- Top quality 310nm UV Led
- Powered by one Lithium-Ion 26650 battery or one 18650 battery with included spacer (sold separately)
- Tail cap switch
- Equipped with replaceable UV bandpass filter
- Waterproof IPX-8 (2 meter)

Brand	Colorgems
Material	Aluminum alloy
Lens	42mm ZWB3 UV Filter
Led type	16.8W Pd 310nm band
Size	155mm(Length)* 33mm(Diameter)* 45mm(Lamp Head)
Modes	One mode
Color	Black
Weight	235g

### Operating instructions

#### Battery placement:

Place the battery with  
The + towards the  
inside



## B310-4 Shortwave UV Flashlight

#### 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 battery before first usage! The battery is in storage mode and needs to be charged as soon as possible!

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

The B310-4 must be used with one rechargeable 26650 Lithium-Ion battery (>5000mAh, minimum 10A discharge type) or one 18650 Lithium-ion battery (>3400mAh, minimum 10A discharge type) with the included spacers. When the battery is almost empty, the flashlight will start to flash and eventually will shut down the lamp. When flashing starts, recharge the battery as soon as possible!

#### Warning:

1. Place the battery with the + to the inside. Reverse placement can destroy the flashlight and battery.
2. NEVER look directly into the light beam. This can damage your sight! Wear safety glasses! UVB radiation is invisible! UVB radiation can be 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! UVB radiation can be harmful!
5. Never point the light beam to any other living person or animal! UVB radiation can be harmful!
6. Do not operate the lamp for more than 5 mins continuous. Use it with intervals to cool it down. Overheating the Led will cause it to fail.
7. Do not disassemble the flashlight or make any modifications. This will void the warranty.

#### Warranty:

The B310-4 UV 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.

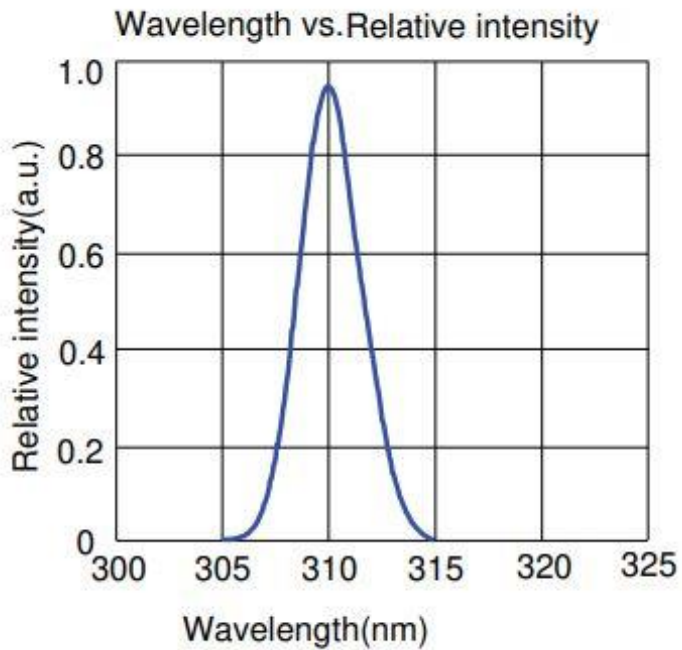


## Technical Specifications:

Colorgems B310-4 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: > 1hr

18650 battery: > 40mins

Led useful lifetime: ~5000hrs

Filter useful lifetime: >10000hrs

Advised filter replacement interval: none