

Features

1. High power LED searchlight and more than 150 Meters waterproof.
2. CREE XM-L LED and More than 1000 Lumens.
3. 8 hours runtime on High brightness.
4. The torch features a unique thermostatic circuit to regulate temperature and prevent overheating.
5. Directly recharged by AC or DC charger, without taking battery off.
6. Hard-anodizing aerospace-grade aluminium body
7. High quality watertight O-ring sealed construction
8. Toughened ultra clear glass lens.
9. Aluminum reflector for a flawless beam.
10. Charge and recharge protected Li-ion battery.
11. Magnet control Knob switch moving for on/off or brightness mode change. HIGH-MID-STROBE.
12. Advanced low battery warning system ensures users are aware when battery voltage become low. (The W160 will blink 10 times quickly to warning the battery is low)
13. The torch features a unique thermostatic circuit to regulate temperature and prevent overheating.

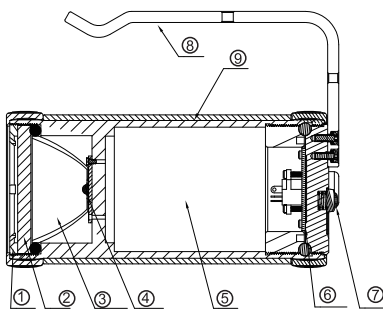
Specifications

type	W160			W160A		
LED	1XCREE XM-L (Cool white)			1XCREE XM-L (Neutral white)		
ANSI/FCS	Middle	High	Police Blinking	Middle	High	Police Blinking
Output(LM)	500LM	1000LM	1000LM	400LM	800LM	800LM
Runtime(Hours) (indoor static testing at 28°C on table)	8.5	6.2	>6.2	8.5	6.2	>6.2
Maximum intensity	45000CD					
Range	Over 300 Meters					
Beam angle	8.5 degree					
Waterproof grade	IPX8(150M)					
Anti-drop	1M					
Dimension	64mm(Head)×62mm×143mm					
Battery	6*18650 rechargeable Li-ion batteries					
Net Weight	908g(battery included)					
Underwater weight	420g(battery included)					
Underwater Runtime (At Max. Output)	4.3Hours					

Runtime declaration : The data-based duration test in land at room and not in the water.

If the light use under water or cool condition , the runtime about 1 to 5 times less than instruction.

Pictorial Overview



- ① Head metal ring ② Glass lens ③ Aluminum reflector
④ LED ⑤ Battery ⑥ PCB ⑦ Switch ⑧ Handle ⑨ Body

Usage Instructions

The switch knob moved in clockwise and returns to original position when the switch is released, the light is on, Repeat this operation to turn the mode change from HIGH-MID-STROBE-OFF
Prior to using the torch for the first time the battery must be fully charged. While charging, the LED indicator light one the AC power adaptor will illuminate red. Once the battery is fully charged the LED indicator will change to green. The battery can take up to 10 hours to charge if fully depleted. Alternatively the pack may be charged for 7 hours to 80% or 8 hours to 90%. While the battery can be used in any state of charge higher than the 2.75V cut-off, when not used for extended periods it should be charged for 4 hours every 3 months. After each 3 monthly charge it is also recommended that the light be used on high for 10-20 minutes to condition the battery pack before storing.

Low Voltage Warning and Cut-Off: Regardless of which mode the light is being used in, when the battery of light reaches 3 volts the light will flash 10 times in quick succession as warning the battery is low. The light may continue to be used after this warning however when the battery of light voltage reaches 2.75 volts, the protection circuit will activate and turn power off automatically. The unit will no longer operate until the battery of light has been recharged.
Note: Be sure to always recharge the torch in a safe place and do not leave unattended, and be sure to tighten the screw cap is very tight after charging is completed.

Intelligent Temperature Control Instructions

This product is designed with a temperature control circuit. The LED is a heating device that is sensitive to temperatures, especially high levels of power and brightness. High temperatures will easily damage or shorten the life of the LED. Ferei designs its products with an intelligent temperature-control circuit. It measures the temperature within the LED filament. As the structure of the lamp differs, the thermal conductivity of the entire lamp is not the same. In general, the constant surface temperature of the lamp is 50°C to 60°C. When it exceeds its programmed temperature, it will automatically reduce its power to cool down, and the brightness decreases by small steps. After cooling-down (provided that battery voltage is sufficient) the power with brightness increases again. The process of improving its brightness is relatively discrete and will not produce a flashing effect. This stepping goes cyclically to maintain the user's safety and the light's functionality. In conditions of good air-cooling the lamp delivers light without stepping down even in high levels brightness mode. There are no preset timers for stepping, but real-time active temperature measurements, So the actual runtime of the lamp base on active temperature control to faster or slower battery discharge, may be slightly longer or shorter runtime than the lamp of data provided.

Maintenance

1. Periodically clean the glass lens of dust and debris to ensure maximum brightness. Use a soft clean cloth or an eyeglass cleaner if possible to avoid scratching the glass.
2. Be sure to rinse the light thoroughly with fresh water after every use in saltwater.

Note: Never dismantle the head or touch the inside of the reflector. Be sure to recharge the torch in a safe place and do not leave unattended, and be sure the screw cap is very tight after fully charging.

Precautions and Warnings

- The W160 series have highly intense beam and should not be aimed directly at the eyes of humans or animals
- Please ensure all the screws(especially the charge hole tighten before diving otherwise water will go into the dive lights)
- The surface of the light may become hot during extended use, avoid touching these areas.
- Do not dismantle or disassemble any part of the light as this will void warranty and affect the waterproof seal.
- Rinse the lights surface with fresh water and dry with soft cloth after exposure to salt water or any corrosive substance.
- The W160's power source is a 3.7V lithium-ion battery pack coupled with a protection circuit board. Should the battery pack ever fail to charge or cease normal operation be sure to contact your local Ferei dealer and under no circumstances attempt self-repair.
- Ferei reserves the right of interpretation of this manual.

☆☆☆ patented product, counterfeiting not allowed ☆☆☆

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