

FEATURES

- Rechargeable high-intensity flood diving LED flashlight • IPX8 and 150 meters waterproof • Flood beam like the full moon • 3 pieces CREE XHP50 LED and more than 7150 Lumens • 6 pieces 18650 Li-ion batteries pack in side of flashlight • The stainless steel handle with mount screw holes • The torch active temperature control system and prevent overheating to keep LED life at 100,000 hours • Rechargeable torch directly by AC or DC charger, and without move out the battery • Type III military grade hard-anodizing aerospace-grade aluminium body • High quality watertight O-ring sealed construction • Utilizes a toughened ultra-clear optical glass dome lens for high pressure resistance and produces a wide angle beam (100-120 degree) • Driver mouldle with overcharge and discharge protected Li-ion battery • Magnet 360° twisted switch to turn on/off or brightness mode change: MAX-MID-LOW-SOS • Advanced low battery warning system, the W163II will blink 10 times quickly to warning the battery level is low.

USAGE INSTRUCTIONS

- 1 Before turn on the light to using, must be recharge it first in a safe place. Keep away from the children and recharge the light under the supervision of an adult.
- 2 **Recharge the light:** a) Unscrew the charge cap at the end of light. Connect the DC cable jack of AC power adaptor to the recharge hole on plug pins. The smaller pin is "+" positive electrode, the bigger pin is "-" negative electrode. Before connect AC charger to 110V to 240V power supply, must be recheck and make sure the connector with lights which is correct. b) Always recharge W163II with the provided Ferei AC/DC adapter. Never connect it with 110V or 240V AC power directly as this will cause damage of the light. c) While charging, the LED indicator on the AC power adaptor will illuminate red. Recharging cycle is finished after the indicator LED turned from red to green.
- 3 **Turn on or off the light:** W163II there are 4 modes brightness: High-Middle-Low-Blinking. To turn the light on, simply rotate the tooth ring magnet switch of light to 1/4 of a turn, clockwise or anticlockwise, then light is on. Repeat the above step (within 3 secs.), the mode changes in sequence there are High-Middle-Low-Blinking-Off.
- 4 **Brightness mode memory:** Once stay at any brightness mode turn on more than 3 secs., the brightness could be

memorized. Next time you turn on the light again, the brightness starts from the memorized lighting mode/ brightness. If staying less than 3 seconds at any level brightness or mode, rotate the switch to get conversion to next brightness level.

5 Low Voltage Warning and Cut-Off:

The battery capacity of lights down to Approximately 20%, the light there is 10-20 minutes blinking per minute. When the light voltage down to 8.4V or 8.5V, the protection circuit will be activated and the light will automatically shut off. The light can be using again until next recharge.

6 Overcharge and over discharge:

W163II features intelligent overcharge and over-discharge detection. After the batteries packs of light charged full, the recharge stopped. If batteries packs get down a critically low voltage, W163II will shut off automatically to prevent damage to the batteries and/or flashlight. When this occurs, the light should be recharged as soon as possible. Note: Over-discharging Li-ion batteries can cause them to inflate and vent a harmful gas. In order to avoid this, W163II is designed to function on a safe upper voltage limit.

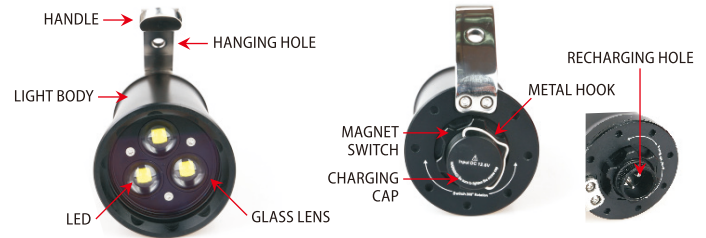
7 **Transportation and store:** Keep the lights which are turn off and under 10.8V or 11.1V voltage of the batteries pack (approximately 80% capacity) during in transportation and store up. Long time without use the lights, must be recharge the batteries of lights to 80% capacity or turn on the lights 10 to 20 minutes after fully recharged, and then storing the lights.

INTELLIGENT TEMPERATURE CONTROL AND RUNTIME 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

PICTORIAL OVERVIEW

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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.

SHOULDER STRAP AND LANYARD FOR FLASHLIGHT

- 1 Attach the hooks of shoulder strap into the the front and back holes of W163II handle.
- 2 Attach the hook of lanyard on metal hook of the light cap.

MAINTENANCE

- Periodically clean the glass lens off dust and debris to ensure maximum brightness. Use a soft clean cloth or an eyeglass cleaner if possible to avoid scratching

the glass • 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 W163II series have strong beam and should not be aimed directly at the eyes of human • Please ensure all the screws (especially the charge hole) tight-enbefore 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 W163II's power source is a 11.1V 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.

SPECIFICATIONS

TYPE	W163 II				W163B II			
LED	3 X CREE XM-L2 (COOL WHITE)				3 X CREE XM-L2 (NEUTRAL WHITE)			
ANSI/FSC	HIGH	MED	LOW	POLICE BLINKING	HIGH	MED	LOW	POLICE BLINKING
OUTPUT (LM)	7150	3575	715	7150	6077	3038	307	6077
RUNTIME(HOURS) (indoor static testing at 28°C on table)	3.5	4.5	6.2	>3.5	3.5	4.5	6.2	>3.5
MAXIMUM INTENSITY	5112 CD (WIDE ANGLE)							
BEAM ANGLE	143 DEGREE							
WATERPROOOF GRADE	IPX8 (150 M)							
ANTI-DROP	1 M							
BODY COLOR	BLACK							
DIMENSION (MM)	65 (HEAD) X 60.5 X 142 (LENGTH)							
BATTERY	6 X 18650 RECHARGEABLE LI-ION BATTERIES							
NET WEIGHT	762 G (BATTERY INCLUDED)							
UNDERWATER WEIGHT	382 G (BATTERY INCLUDED)							
UNDERWATER RUNTIME (AT MAX. OUTPUT)	1.15 HOURS							
Runtime declaration: The data-based on the test that is done in the land at room and not in the water outside. If the light used in underwater or cool condition, the runtime about 1 to 5 times less than instruction.								

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