

### FEATURES

- 1 Water resistant portable high-intensity LED search light.
- 2 Light source consists of 6 CREE XM-L2 LEDs with a brightness of up to 6000 lumens.
- 3 Submersible (suitable for underwater lighting or shooting) with an IPX8 waterproof grade, and diving depth up to 150 meters.
- 4 Suitable for outdoor lighting: mountains, fields, ships, piers, etc.
- 5 Made from aviation-grade aluminum with a hard-anodized, surface hardness up to military level three, surface is processed with an anti-wear treatment method, making it resistant to seawater corrosion.
- 6 Frame is processed with solid aluminum alloy CNC with large areas of leaf-shaped heat sinks that are able to dissipate the heat from LEDs quickly and efficiently, extending the LEDs' life.
- 7 Streamlined handle is processed with solid aluminum alloy CNC, making it comfortable and exquisite.
- 8 The handle is equipped with 1/4 inch screw holes with a wide application, the light can be installed on the camera tripod or other bracket directly for lighting purposes. In addition, there is a dedicated Gopro mounting hole, through which, the Gopro camera equipment can be fixed on the handle with Ferei's dedicated adapter.
- 9 The front and rear end of the handle are equipped with mounting holes that can be used to mount straps or hand ropes easily and quickly.
- 10 The aluminum alloy reflector laminates the alloy reflective film with an ultra-high temperature treatment method to get better luminous effectiveness and focus, as well as a longer illumination distance.
- 11 The light can be inverted on a table the handle can also be placed downward directly as a light support bracket for lighting purposes.
- 12 There is a direct charging hole on the end of the light that can be charged by directly connecting to the 110V-220V dedicated charger or DC12V car charger by opening the charging cover with the edge of a coin.
- 13 6 built-in 18650 rechargeable lithium batteries with protective board can be charged repeatedly for safe and energy-efficient use.
- 14 The torch is equipped with an intelligent circuit, temperature-control system, overcharge and over discharge protection for battery.
- 15 There is a magnetically controlled switch on the end to turn on/off the light or adjust the brightness.
- 16 Switch equipped with a drain hole to quickly drain water to prevent freezing in low temperatures.
- 17 Three levels of brightness: high, medium and low.
- 18 A blinking signal mode and a low battery warning mode.

### SPECIFICATIONS

TYPE	W172 II				W172B II			
LED	6 X CREE XM-L2 (COOL WHITE)				6 X CREE XM-L2 (NEUTRAL WHITE)			
ANSI/FSC	LOW	MED	HIGH	POLICE BLINKING	LOW	MED	HIGH	POLICE BLINKING
OUTPUT (LM)	600	3000	6000	6000	560	2800	5600	5600
RUN TIME(HOURS) (indoor static testing at 28°C on table)	6.2	4.5	2.5	>2.5	6.2	4.5	2.5	>2.5
RANGE	800 METERS				720 METERS			
MAXIMUM INTENSITY	160000 CD				150544 CD			
BEAM ANGLE	10 DEGREE							
WATERPROOF GRADE	IPX8 (150 M)							
ANTI-DROP	1 M							
BODY COLOR	BLACK							
DIMENSION (MM)	87.5 (HEAD) X 65 X 158 (LENGTH)							
BATTERY	6 X 18650 LI-ION (6 X 3200 mAh)							
NET WEIGHT	1197 G (BATTERY INCLUDED)							
UNDERWATER WEIGHT	634 G (BATTERY INCLUDED)							
UNDERWATER RUNTIME (AT MAX. OUTPUT)	2.15HOURS							
ACCESSORIES INCLUDED	AC CHARGER/DC CHARGER/BUCKLE STRAP/BELT/LANYARD PROFESSIONAL BAG/6X18650 BATTERIES WITH PROTECTION BOARD INSIDE							

**Runtime declaration: The data based on the test that is done in the land at room and not in the water. If the light used in underwater or cool condition, the runtime about 1 to 5 times less than instruction.**

### PICTORIAL OVERVIEW



### USAGE INSTRUCTIONS

To turn on the light, press the button switch and returns to original position when the switch is released. To turn the unit off simply repeat the process after 2 seconds. When the light is on, press the button switch and returns to original position when the switch is released with in 2 seconds to cycle through the various modes. The menu is structured as follows: Max-Mid-Low-police blinking. To save a given mode, simply turn the unit off while in that mode after 2 seconds. Prior to using the light for the first time the built-in batteries must be fully charged. While charging, the LED indicator light on the AC power adaptor will illuminate red. Once the batteries is fully charged the LED indicator will change to green. The built-in batteries of light can take up to 6 hours to charge if fully depleted. Alternatively the batteries may be charged for 4 hours to 80% or 5 hours to 90%. While the built-in batteries of light can be used in any state of charge higher than the 8.5v 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 before storing.

**Low Voltage Warning and Cut-Off:** When battery capacity reaches about 20%, the light will have a 10-20 minutes blinking period at a frequency of once per minute. When the battery voltage reaches 8.5V, the protection circuit will be activated and the light will automatically shut off. The light can be used again until next recharge.

### 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 light differs, the thermal conductivity of the entire light is not the same. In general, the constant surface temperature of the light 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 light 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 light base on active temperature control to faster or slower battery discharge, may be slightly longer or shorter runtime than the light 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 Every time use in non-fresh water such as seawater or salt water, make sure to rinse the light thoroughly immediately with fresh water, so as not to corrode the light.
- Note:** Never disassemble the head or touch the inside of the reflector.

### PRECAUTIONS AND WARNINGS

- The W172II has a highly intense beam and should not be aimed directly at the eyes of human.
- Please ensure all screws 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 saltwater or any corrosive substance.
- The W172II'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 you local Ferei dealer and under no circumstances attempt self-repair.
- Always recharge W172II with the provided Ferei AC/DC adapter. Never connect it with 110V or 240V AC power directly as this will cause damage of the product.
- Ferei reserves the right of interpretation of this manual.

### INSTALLATION OF SHOULDER STRAP AND LANYARD



**1** Left to right: Dive light, shoulder strap, lanyard.



**2** Attach the hooks of shoulder strap into the front and back holes of W172II handle.



**3** Attach the hook of lanyard on either front or back holes of W172II handle.

### INFORMATION FOR RECHARGING HOLE



**4** The recharging hole is on the back of W172II, covered by a '--' shape cap.



**5** The protective cap could be unscrewed with a coin or other '--' shape tool.



**6** You can find the recharging hole after unscrewing the cap.



**7** Connect Ferei special charger to the pins in the recharging hole, with correct '+' and '-' polarity.



**8** Connect the adapter to recharge the built-in batteries of W172II.

### INSTALLATION OF DIVE LIGHT, GOPRO AND TRIPOD



**9** Ferei has special connector for GoPro.



**10** Fit the connector into the front groove of W172II handle.



**11** Fix the connector tightly into the groove with screws.



**12** Fit the bottom of GoPro onto the connector.



**13** Screw the GoPro onto the connector with the bolt.



**14** GoPro mounted on W172II handle.



**15** Take off the screws and plate from the tripod.



**16** Fix the slidable plate onto W172II handle with screws.



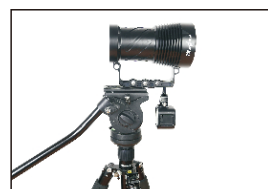
**17** Photo - GoPro on slidable plate.



**18** Fix the slidable plate onto tripod.



**19** Press the red button on tripod to fix the plate onto tripod.



**20** Photo - dive light and GoPro on tripod.



**21** Photo - dive light on tripod.

Shenzhen FEREI Lighting Co., Ltd.  
3rd Industrial Zone, Xiakeng Village, Tongle, Longgang District,  
Shenzhen 518116, China.  
TEL: 0086 755 8480 7942 / 0086 755 8480 7943  
FAX: 0086 755 8480 7944  
E-mail: ferei@ferei.com  
www.ferei.com

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