

FEATURES

- 1 Twin head rechargeable LED headlamp
- 2 Strong spot beam
- 3 IPX4 Water resistant
- 4 2200lumens for 4.3 hours
- 5 8 Selectable brightness levels from 3%, 6% to 83%
- 6 4 selectable blinking modes : police blinking, slow blinking, quick blinking, and SOS.
- 7 Smart IC motherboard provides multiple brightness settings, and prevents overheat, over discharge or damages caused by polar reversing.
- 8 Battery level indicating around 20% capacity.
- 9 Elastic bungee headband capable of length adjustment, providing best fit and comfort for user.
- 10 Optional Yellow / Green / Red filters and Diffuser available
- 11 Optional extended runtime packs BP4872B & BP6872B available each 6.4 hours and 9.6 hours on High

USAGE INSTRUCTIONS

As standard, the Ferei HL50II operates on two rechargeable 18650 lithium-ion batteries (included). Please ensure the batteries are fully charged before first use. Refer to the below instructions.

1 Battery installation: Open the HL50II battery holder and insert 2 x 18650 batteries into the allocated slots with positive (+) and negative (-) ends corresponding with the battery holder's internal diagrams. Close and secure the battery holder ensuring the latch has snap shut and the battery holder door is fully secured.

2 Recharging Instructions:

- **Direct recharging:** The HL50II comes packaged with a Ferei AC adapter / charger. Simply insert the plug on the end of the adaptor cable directly into the HL50II battery holder and charging will begin. When in a charging state, the LED indicator on the adaptor will illuminate red and when charging is complete the LED indicator on the adaptor will illuminate green.
- **Charging using the HL50II 12V car charger (optional):** When in a charging state, the LED indicator on the adaptor will illuminate red and when charging is complete the LED indicator on the adaptor will illuminate green.

3 Illumination Modes:

- Minimum brightness.
- User-Defined brightness (varies depending on LED tint as shown below):
 - Cool white LEDs feature 8 selectable modes: 3%, 6%, 12%, 28%, 42%, 50%, 67%, 83%.
 - Neutral white LEDs feature 8 selectable modes: 3%, 6%, 12%, 28%, 42%, 50%, 67%, 83%.
- Maximum brightness (2200 lumens).
- Strobe / SOS modes: police strobe, slow strobe, fast strobe and SOS.

4 Operating Instructions:

- To turn the HL50II on, briefly press the rubber switch bearing the Ferei logo. The default setting is maximum brightness (high mode / 2200 lumens).
- To access User-Defined mode, with the HL50II turned on in high mode, hold the rubber switch down for more than 2 seconds. The HL50II will cycle through 8 level of brightness. When a desired brightness level is displayed simply release the switch to HL50II has a 4 hidden SOS / strobe modes. To access any one of these modes, with the HL50II switched off, simply hold down the rubber switch for

2 seconds and release. To cycle to the next mode, once again hold the rubber switch for 2 seconds and release. To exit strobe mode press the rubber switch once briefly.

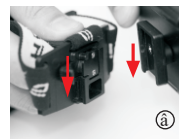
5 Low Battery Warnings:

- When battery capacity is very low (approximately 20%), the HL50II will blink 10 times in 5 seconds (either when first turned on or during use) to alert user that batteries should be recharged or replaced.
- 6 The HL50II features a reverse polarity protection circuit for user safety. If batteries are incorrectly inserted into the battery holder, the circuit will activate and automatically prevent the HL50II from operating.
- 7 The HL50II features intelligent over-discharge detection. If batteries reach a critically low voltage, the HL50II will shut off automatically to prevent damage to the batteries and / or headlamp. When this occurs, the batteries 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, the HL50II is designed to function on a safe upper voltage limit.

INSTALL AND REMOVE THE BATTERY BOX

1 Installation: *PHOTOS ARE FOR REFERENCE ONLY, PRODUCTS IN KIND PREVAIL!



Align the headband sliding block with the rail on the battery holder (as shown in image 1) and push the holder down (in the direction of the arrow) until the two parts lock together. Refer to image 2 for how a correctly installed holder should appear.

2 Remove:



To release the battery holder from the head strap firmly press the plastic lock while pulling the battery holder upwards as shown in image 3.

WARNINGS & TIPS

In order to avoid unnecessary accidents please read all of the following:

- Never use damaged, discolored or leaking batteries.
- Never use batteries with a damaged sleeve or foil covering.
- Always use protected 18650 batteries from reputable suppliers with accompanying safety certificates.
- If the lamp gets unusually hot when in use, turn it off and check battery appearance.
- Never store batteries in the battery holder for more than 30 days at a time.
- When charging is complete, the AC adaptor's LED indicator will change to green.
- Li-ion batteries should remain at a room temperature when charged.

If they become hot, cease charging immediately, take the batteries out and contact your local Ferei distributor.

- Never disassemble the HL50II switch, lamp or charger or attempt any type of self-repair.
- Li-ion batteries do not need to be fully charged before use as they have no memory effect; however when left unused for periods of 3 months or more, they should be recharged for 4 hours and then slightly discharged (10-20 minutes on high) before storage.

- Dry the headlamp assembly and lens with soft cloth immediately after exposure to water or any corrosive substance.
- Always remove batteries during long periods of inactivity (more than 30 days).
- Ferei reserves the right of interpretation of this manual.

MAINTENANCE

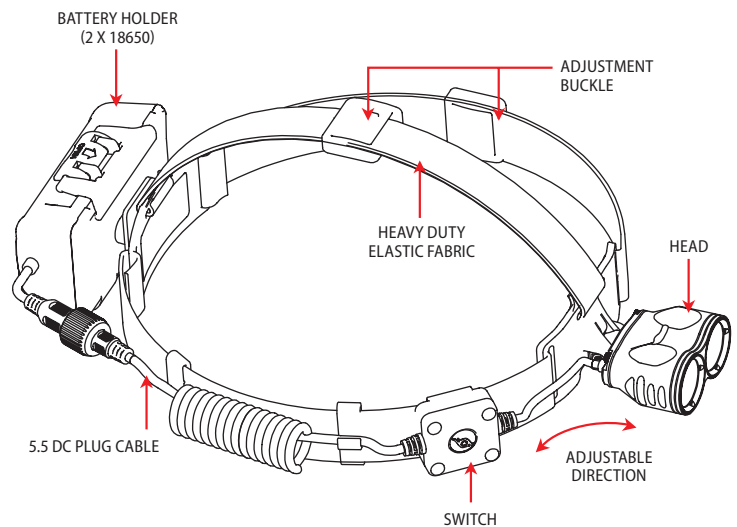
- Periodically use a soft damp cloth to clean the glass lens season the lamp assembly. Never use a corrosive cleaner.
- The HL50II headband may be washed periodically. Ferei recommends washing the headband by hand at least once every 3 months if used regularly. Be sure to remove all plastic components from the fabric before submersion and exposure to detergent.

WARNING

- The HL50II is a lighting tool, not a toy. Please keep away from children.
- The HL50II should not be aimed directly at the eyes of human.
- Never place the lamp lens down on a surface when turned on.
- The surface of the lamp assembly may become hot during extended use.
- Do not dismantle or disassemble any structural or sealed components of the HL50II.

DIAGRAM

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HL50II - PRODUCT SPECIFICATIONS

LED		CREE XP-L (COOL WHITE)											
ANSI/FSC	MAX	USER-DEFINED								POLICE STROBE	SLOW STROBE	FAST STROBE	SOS
LIGHT PER	100%	3%	6%	12%	28%	42%	50%	67%	83%	USER-DEFINED			
OUTPUT (LM)	2200	66	132	264	616	924	1100	1474	1826	USER-DEFINED			
RUNTIME (INDOOR STATIC TESTING AT 28°C)	4.3	143	71.6	35.8	15.3	10.2	8.6	6.4	5.2	OVER 32 H			
LED		CREE XP-L (NEUTRAL WHITE)											
ANSI/FSC	MAX	USER-DEFINED								POLICE STROBE	SLOW STROBE	FAST STROBE	SOS
LIGHT PER	100%	3%	6%	12%	28%	42%	50%	67%	83%	USER-DEFINED			
OUTPUT (LM)	2046	61	122.7	245.5	572.9	859	1023	1371	1698	USER-DEFINED			
RUNTIME (INDOOR STATIC TESTING AT 28°C MAX OUTPUT)	4.3	143	71.6	35.8	15.3	10.2	8.6	6.4	5.2	OVER 32 H			
RANGE (M)	238 METERS												
MAXIMUM INTENSITY	14161 CD												
WATERPROOF RATING	IPX4 (RAIN RESISTANT)												
ANTI-DROP	1M												
DIMENSION	35.7 X 49 X 25 MM (HEAD)												
BATTERY	2 X 18650 BATTERIES												
WEIGHT	189.6 G (EXCLUDING BATTERIES)												

BATTERY		USE BP4872B											
ANSI/FSC	MAX	USER-DEFINED								POLICE STROBE	SLOW STROBE	FAST STROBE	SOS
LIGHT PER	100%	3%	6%	12%	28%	42%	50%	67%	83%	USER-DEFINED			
RUNTIME (INDOOR STATIC TESTING AT 28°C)	6.4	133	67	33	14.2	15.2	12.8	9.5	7.7	OVER 64 H			

BATTERY		USE BP6872B											
ANSI/FSC	MAX	USER-DEFINED								POLICE STROBE	SLOW STROBE	FAST STROBE	SOS
LIGHT PER	100%	3%	6%	12%	28%	42%	50%	67%	83%	USER-DEFINED			
RUNTIME (INDOOR STATIC TESTING AT 28°C)	9.6	200	100	50	21.4	22.8	19.2	14.3	11.5	OVER 96 H			

Patented product, counterfeiting not allowed.

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