FEREI BL 700

Extra Lightweight multipurpose **LED Bicycle light**

FEATURES

- Extra Light weight multipurpose LED bicycle light.
- Bicycle front light or helmet light or headlamp or flashlight.
- Rugged aerospace-grade aluminum body, Typed III hardest anodized in black.
- Toughened ultra clear glass lens.
- Patent moon shape reflector:Arched part reflects the beam right ahead to reach a further distance; crescent part prevents the beam reflecting upwards so to avoid disturbing vehicles across,and also spreads the nearby beam to get a wider range.
- Cool or neutral white LED version available.
- IPX8 Water resistant, 2 Meters waterproof.
- Use 1 x CREE XHP50 LED, Output of LED is 2300 lumens.
- Selectable brightness levels from MIN to MAX and Emergency mode(Moonlight).
- Smart components and especial auto designed provides multiple brightness settings, prevents overheat(active temperature control), over discharge and wrong polarity of inserted battery protection.
- Blinking 10 times to warning indication shows the battery level around 20% capacity.

USAGE INSTRUCTIONS

1 The light runs 1 piece 18650 with PCB Li-Ion battery or other 3.7V to 4.2V power bank/batteries pack.
2 Please fully recharge the battery before use.
3 Brightness level lighting modes:
  ① Minimum; ② Medium; ③ Maximum; ④ Emergency mode: 5lm (Moonlight).
4 Customized brightness settings: customized brightness setting from LOW to MAX: 25lm / 50lm / 85lm / 150lm / 250lm / 450lm / 850lm / 1500lm, 8 levels brightness available in all modes except Emergency.
5 Operation: to turn on the light , press button switch rapidly or continuously to active or convert between lighting modes ① ② ③. With headlamp already on, press and hold on/off button switch to cycle through the customized brightness settings from MIN to MAX. When a desired brightness appears,simply release the switch. To turn off the headlamp, just press the switch again after staying at this customized brightness for over 3 seconds. But if less than 2 seconds, press the switch will be to get conversion between lighting modes ① ② ③. At the light off , longer time press the button switch (over 2 seconds), the emergency mode turn on. To turn off the light, just press the button switch again.
6 Brightness memory: In either any lighting mode, the brightness could be memorized if staying for over 3 seconds. Next time you turn on the light again, the brightness starts from the memorized lighting mode/ brightness. If staying less than 2 seconds at any level brightness or mode, press the switch to get conversion to next brightness level.
7 Low battery warning: When the battery capacity gets very low (approx. 20%), the BL700 will emit 10 successive blinks in 8 seconds. Thesis reminder that the battery should be recharged or replaced.
8 Reverse polarity protection: When a battery is inserted incorrectly, a special protection circuit will activate and automatically prevent operation to ensure the safety of the BL70 and its user.
9 Over discharge prevention: the light will switch off automatically in order to prevent damages to lithium battery and/or light done by over discharging (complete depletion of battery capacity).

Note: over discharging lithium batteries might cause the battery body to swell up and produce harmful gases. In order to avoid this, our product is equipped with low voltage circuit break to switch off the light when voltage is too low.

INSTRUCTIONS FOR MOUNTING LIGHT ON CYCLE-CROSS BICYCLES

IMAGES ARE FOR REFERENCE ONLY. ACTUAL PRODUCTS MAY VARY

1 BL700 light, CNT007 Adapter and 2 mm L-shaped.
2 Clamp of CNT007 to hold 2 on the middle of BL700 light.
3 Using the 2 mm L-shaped to fasten the CNT007 Adapter on the body of BL700 Light body.
4 Mount the BL700 light to Ferei HQ32

Multi-functional Clamp bracket (or other available bracket) using a 4 mm L-shaped hex wrench and screws (M5 x 16 mm).
5 Tighten BL700 light on bracket.
6 Unscrew Quick-Release Clamp of bracket to mount on handle bar of bicycle.

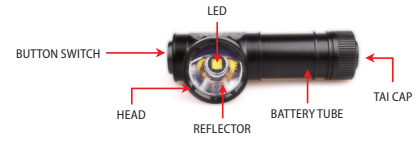## INSTRUCTIONS FOR CHARGING AND MOUNTING THE BATTERY HOLDER

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7 C24 charging cradle, B34 rechargeable battery and C10 USB cable charger.
8 Put the battery into charging cradle with correct "+" and "-" polarity.
9 Inset C10 cable charger 3.5 DC plug to connector of C24 charging cradle, USB cable plug to connect any of

USB adapter (USB mobile charger adapter, USB 110V to 220V adapter, USB car charger etc).
10 When the indicator of the charger is red, the battery is charging. When the indicator is green, the battery is fully charged.

HEADLIGHT DIAGRAM

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LED
BUTTON SWITCH
TAI CAP
HEAD
REFLECTOR
BATTERY TUBE

BL700 - PRODUCT SPECIFICATIONS									
LED	CREE XHP50B COOL WHITE								
ANSI/FSC	MAX	USER-DEFINED							EMERGENCY MODE
LIGHT PER	100%	1.67%	3.3%	5.67%	10%	16.7%	30%	56.7%	0.33%
OUTPUT (LM)	1500	25	50	85	150	250	450	850	5
LED	CREE XHP50B NEUTRAL WHITE								
ANSI/FSC	MAX	USER-DEFINED							EMERGENCY MODE
LIGHT PER	100%	1.67%	3.3%	5.67%	10%	16.7%	30%	56.7%	0.33%
OUTPUT (LM)	1500	23.4	42	79.4	140	234	420	793	5
RUNTIME (INDOOR STATIC TESTING AT 28°C AT MAX OUTPUT)	1.2 HOURS								
RANGE (M)	> 123 METERS								
MAXIMUM INTENSITY	3780 CD								
WATERPROOF RATING	IPX8								
IMPACT RESISTANCE	1 METER								
DIMENSIONS	24 x 94 MM (EXCLUDING BRACKET)								
BATTERY TYPE	18650 (3.7V)								
WEIGHT	49 G (EXCLUDING BATTERY AND BRACKET)								

NOTE: THE ABOVE PARAMETERS ARE TESTED BY USING 1 PCS 3400 MAH 18650 LI-ION BATTERY.

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 50ºC to 60ºC. 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.

WARNINGS & TIPS

In order to avoid accidents, please pay attention to the following tips:
- Never use damaged, discolored or leaking batteries.
- Never use batteries with a damaged sleeve or foil covering.
- Always use 18650 battery with safety certificates.
- If the light gets unusually hot when in use, turn it off and check battery appearance.
- Never store the battery into the battery holder.
- Recharging is finished when the LED indicator turns to green.

- The battery remains at a normal temperature during recharging. If it gets unusual hot,stop recharging and take the battery out.
- Do not dissembel the charger kit by yourself if the battery couldn't be recharged.
- The battery can be used at any time once being recharged. If it is left unused for long periods, it should be recharged for 4 hours every 3 months. After being charged they should be slightly discharged for 10-20 minutes before storage.
- Be sure to always recharge the battery in a safe place and do not leave unattended while charging.

MAINTENANCE

- Wipe the glass lens with a soft cloth at regular intervals to ensure maximum light transmittance (avoid using corrosive detergents).

- Ensure the cable plug and inside of the battery box remain free of dirt and debris.
- Unplug the cable from the battery box when unused for extended periods.

WARNING

- It is a lighting tool, not a toy. Keep it away from children.
- Should not be aimed directly at the eyes of humans or animals.
- Do not place the light face/lens down when turned on.
- The surface of the (as hlight may become hot during extended use.
- Do not dismantle or dissemble any structural

parts of the light, especially the sea lparts.
- Dry the light surface 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.

Patented product, counterfeiting not allowed.