

*Congratulations on your purchase of our BigBlue product. The BigBlue Diving Light uses carefully selected materials that have met rigorous industry standards. With innovative manufacturing processes, and strict quality controls, we guarantee the reliability of all BigBlue Diving products.*

### Introduction

The HL 450N Narrow Beam LED Head Light delivers 450 lumens of light output and it features a 4-level and SOS push button on the body that enables you to adjust the brightness and prolong the burn time according to each individual need. Or just in emergency to go to SOS to seek for help.

### Features

Our high output LED system delivers brilliant luminosity at 450 lumens, a 8°strong penetrating light spot, making it ideal for tech-diving.

- The unique XML high intensity LED is energy efficient to guarantee a long burn time of up to 50,000 hours, reducing the need for frequent bulb replacement.
- The 6500K white light reflects the true vibrant colors of the underwater surrounding while diving.
- The body can be twist opened easily to replace the old battery pack inside for long lasting performance.
- The push button not only makes it easy to change between the power output levels, but it is also designed to be insulated from all internal parts, eliminating the risk of leakage.
- The thermal protection system prevents the light from overheating by automatically cutting off its power in case of prolonged use on land, or exposure to temperatures above 70°C. As soon as the light cools off, power comes back on.

### Maintenance and Transportation

- After each dive, always rinse with fresh water. If the diving light and the battery will not be used for a prolonged period of time ( more than a month), remove the battery from the light.
- In rare cases of flooding, discontinue use. Turn the light off immediately, disconnect the battery, and rinse with fresh water. Let the component dry completely, and return it to BigBlue for service.
- Flooding damage cannot be repaired on site

### Clean the light and Lubricate the O-Ring

- For good practice, put the light into fresh water for few hours after every dive.
- Dry it out and put the silicone crease on the O-Ring. Ready for other dive.

### Limited Warranty

1. BigBlue guarantees the proper operation of this product by the original retail purchaser under normal and intended use.
2. This warranty applies only to the original retail purchaser, which does not cover commercial or rental use, and it is not transferable to third parties.
3. If the original retail purchaser detects defect in the materials or workmanship, return the product together with proof of purchase, including the date of purchase to an authorized BigBlue dealer or BigBlue.
4. The warranty covers a period of up to one year from the date of purchase. Warranty for rechargeable battery pack is valid for six months only.
5. This limited warranty is in lieu of all other warranties. No other person or party is authorized to assume for BigBlue any other liability in connection with the sales of this product.
6. This warranty will be voided if the product or any of its parts have been tempered with, repaired, modified, transformed, adapted, or damaged without authorization by BigBlue.
7. This warranty does not cover parts subjected to normal wear and tear, including and is not limited to the following: O-ring, battery pack, front glass (surface scratch or damage on impact).
8. This warranty does not cover damages due to impact, used in chlorinated or polluted waters, and extended exposure to heat sources.

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MADE IN CHINA Patent Pending



## HL 450N

### INSTRUCTION MANUAL

# NARROW BEAM LED HEAD LIGHT



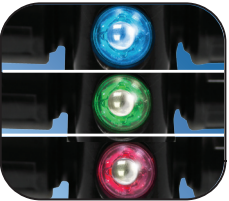
**Technical Specifications**

Light source	: Cree LED
Light output	: 45 Lm (level I), 113 Lm (level II) 225 Lm (level III), 450 Lm (level IV)
Casing material	: Aluminum alloy light head with Polycarbonate body
Power source	: 3 x AAA alkaline batteries
Angle of light beam	: 8° narrow beam
Color temperature	: 6500K
Burn time	: 2hrs ( level IV), 4 hrs ( level III), 8 hrs ( level II) and 20 hrs ( level I)
Maximum depth	: 100 m tested
Size :	Dia. 36.8 x L. 84.4mm with light head dia. 41mm
Weight in air	: 187g ( including batteries)
Buoyancy in seawater :	-56g ( including batteries)
Switching system	: Push button with battery indicator
Front glass	: Tempered optical glass

Specifications subject to change without prior notice.

**Battery level indicator built-in**

Color of LEDs change from the time being. It will change from blue to green and green to red. When the red led flashes, it reminds people to change the battery.



**Replacing the Battery Pack Inside the body**

Unscrew the body and then slide out the old battery pack.



**Choosing between 4-Levels and SOS of output**

Press the push button every time to choose the desired output level : I- output at 10%, II-output at 25%, III-output at 50%, IV-output at 100%.

For 4-Levels setting, press the push button each time to change the level of output accordingly.

For SOS setting, press the push button for 2 sec to get SOS effect and back to normal when you press the push button once again.

For OFF setting, press the push button one time after 1 sec of level selection or press the push button five times after 4-Levels setting.

