



THE BRIGHTER IDEA



# AL1200RAFO

## INSTRUCTION MANUAL

LI-ION RECHARGEABLE BATTERY

LI-ION RECHARGEABLE BATTERY  
WIDE BEAM LED LIGHT  
WITH AUTO-FLASH OFF FUNCTION

*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 Big Blue AL1200RAFO Li-ion Rechargeable Battery Wide Beam LED light comes with an innovative Auto Flash-off function, giving you better control over lighting and prevent annoying hotspot from spoiling your picture perfect shots. Combined with brilliant luminosity, durable construction and reliable performance, this is the diving light you must take with you on your next underwater photo shoot.

### 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.

### FEATURES

**Our high output LED system delivers brilliant luminosity at 1200 lumens, a 55° strong and even light beam, making it ideal for video.**

- The light can be attached to a lanyard.
- 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.
- Automatic flash-off function triggered by the flashlight of strobe.
- The Auto Flash-Off comes on automatically for 0.2 seconds when your underwater strobe is triggered, avoiding that accidental hot spot from ruining your pictures.
- The body can be twist opened easily to replace the old battery pack inside for long lasting performance.
- The 6500K white light reflects the true vibrant colors of the underwater surrounding while diving.
- 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 product comes with a smart charger, enabling you to smart quick-charge in 2-3 hours.
- Built in red LED for viewing shy little creatures and enhancing focusing performance.

- The thermal protection system prevents the light from overheating by automatically cutting off its power supply in the event of prolonged use on land, or exposure to temperatures in excess of 70°C. As soon as the lamp cools down, power is restored.

### PRECAUTIONS AND ADVICE CONCERNING THE LI-ION RECHARGEABLE BATTERY

- Intended to be used with the custom-made BATCELL18650 Li-ion rechargeable battery pack only.
- Make sure to connect with the correct polarity. Incorrect connection can damage the unit.
- Fully charge the batteries before using for the first time.
- Use only the power adapters supplied with the charger. Using incompatible adapters may damage the charger or result in fire or electric shock.
- Charge time will depend on the remaining charge in the battery and the surrounding temperature.
- Do not charge near hot temperature, under direct sunlight, cover the charger with a blanket, or place under heavy pressure. If the temperature is too high, it may cause the battery to leak or rupture.
- When storing or carrying the battery, avoid direct contact with metal objects to avoid short circuit.
- The Li ion battery should not be dropped or be subjected to strong mechanical shock.
- Do not operate the battery or the charger if it has been damaged or subjected to shock.
- Remove the battery from the light if it is not going to be in use for an extended period of time.
- Do not dispose of in fire. Do not heat, deform, solder, disassemble or modify.
- Do not dispose of your rechargeable battery with general household waste. Check with your local collection system for electrical and electronic products.
- Do not short-circuit, overcharge, crush, drop, mutilate, penetrate with foreign objects, apply reverse polarity, expose to high temperature or disassemble packs and cells.
- Use only lithium-ion cells with a designated protection circuit and approved charger.
- Discontinue using the battery and/or charger if the battery gels excessively warm.
- The electrolyte is highly flammable and battery rupture can cause physical injury.
- Use a foam extinguisher, CO2, dry chemical, powdered graphite, copper powder or soda (sodium carbonate) to extinguish a lithium-ion fire. Only pour water to prevent the fire from spreading.
- If the fire of a burning lithium-ion battery cannot be extinguished, allow the pack to burn out on its own in a controlled and safe manner.

Charge the battery after each use. It is not necessary to discharge the battery before charging. It is preferable to recharge the battery every month, even if it is not in use.

### USING THE RECHARGEABLE LI-ION BATTERY

1. Fully charge the battery before using it first time.
2. Use only the power adapter supplied with the charger.
3. Plug in the charger before you place the battery in the charger.
4. Connect with the correct polarity (+ and -) only, incorrect connection can damage the unit.
5. The red light on the charger will light up after a short time, indicating charging is taking place. If the red light does not light up, disconnect the battery and re-connect it again. If the red light does not light up after several attempts, the battery does not function.
6. Green light on the charger indicates fully charged battery. The battery should then be disconnected.
7. Charge the battery after each use. It does not have to be discharged before charging. Should charge the battery every month even you don't use it.
8. Do not turn on the light, if the light has turned off due to low battery capacity. Turning on the light with a fully discharged battery can damage the battery.
9. Charge time will depend on the remaining charge in the battery and the surrounding temperature.
10. Remove the battery from the light if it is not going to be used for extended period of time.

### LI-ION BATTERY CHARGE AND CARE

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.

To avoid unwanted switching on, we recommend disconnecting the lamp's battery.

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.

For good practice, put the light into fresh water for few hours after every dive.

Dry it out and put the silicone grease on the O-Ring. Ready for other dive.

### CHARGING LI ION BATTERY

1. Never put your battery on a charger and leave it unattended. Check the « time required to fully re-charge » and plan to have someone be in attendance.
2. Discontinue using charger and/or battery if the battery gets excessively warm.
3. If the battery does not charge in the approximate time suggested by the manufacturer contact the manufacturer to determine if the problem is with the battery or the charger. Do not continue charging the cell.

### 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 :  
1 - output at 10%, 2 - output at 25%,  
3 - output at 50%, 4 - output at 100%.  
For 4-Levels setting, press the push button each time to change the level of output accordingly.

For Red LED setting, two very short rapid presses of the button will switch to red light mode. Switch back to bright light mode with a slightly longer press and release.

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.



### 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 charge up the battery.

### CHARGER LA BATTERIE

Place the Li-ion battery inside the USB Charger.

Plug the intelligent rapid charger connector into the BATCELL18650 Li-ion rechargeable battery pack socket.



Comes with ball joint for easy system setup.



Red light means charging is in progress, green light means charging is complete. There is no need to discharge after use. Charge time will depend on the remaining capacity in the battery and the surrounding temperature.

### TECHNICAL SPECIFICATIONS

LIGHT SOURCE	: XML LED + 2 x XPE RED LED
LIGHT OUTPUT	: 120 Lm (level I), 300 Lm (level II), 600 Lm (level III), 1200 Lm (level IV)
RED MODE	: 150 Lm
CASING MATERIAL	: aluminum alloy (anti-corrosive anodized)
POWER SOURCE	: Li-ion rechargeable battery pack 18650
ANGLE OF LIGHT BEAM	: 55° (wide beam)
COLOR TEMPERATURE	: 6500K
AFO INTERVAL	: 0.2 sec. +/- 0.1 sec.
BURN TIME	: 2h (level IV), 5h (level III), 10h (level II) et 20h (level I)
MAXIMUM DEPTH	: 100 m tested
SIZE	: dia. 42.4 x L. 128.3 mm
WEIGHT IN AIR	: 242 g (including battery)
BUOYANCY IN SEAWATER	: -129 g (including battery)
SWITCHING SYSTEM	: push button with battery indicator
FRONT GLASS	: tempered optical glass
LANYARD	: included

