UK4AA R INSTRUCTIONS

Thank you for purchasing this Underwater Kinetics all environment work light! It is designed for all weather use in rain, snow, mud and up to 10 feet underwater. It includes state of the art components for maximum performance in a minimum space and is backed by the Underwater Kinetics Limited Lifetime Warranty

First Time Use

The UK4AA R is shipped in a partially charged condition. Before using the light, charge it completely using the instructions for the Rapid Charger.

ON/OFF

To operate the UK4AA R push in on the black rubber switch to turn the light on and off. For momentary lighting press the switch half-way in. Make sure the bezel is screwed all of the way down or the UK4AA will not light. By partially unscrewing the bezel you can protect the light from turning on by accident. In extreme cold the rubber switch cover will become stiff and difficult to operate. The light can still be actuated by twisting the Bezel On and Off.

O-Ring Seal

In order to be sure the light is sealed against the elements keep the o-ring clean and lightly lubricated with silicone grease.

Pressure Equalizing Vent

Air and gas from battery leakage can pass freely in and out of the UK4AA R through a vent in the rear of the light. Do not allow dirt or grease to accumulate on the vent or it will not operate properly.

Rechargeable Battery Pack

In order to maintain the small size of the UK4AA R the rechargeable nickel metal hydride batteries are sealed in the battery case and cannot be removed. For back-up additional lights may be purchased without the charger. When one light is depleted the second light can be brought into use while the first light is being charged. The life expectancy of the battery pack is affected by usage. For maximum life do not completely discharge the light regularly. It is best to recharge the light before it is completely discharged. Storage of the light at high temperature will also reduce the life. It is normal for the battery to loose 1% of charge per day.

Xenon Lamp/Reflector Replacement

Unscrew the bezel from the light and remove the entire lamp reflector assembly. Replace it with a UK 14824 lamp/reflector. For less brightness, but longer burn time us the UK 14801 lamp/reflector.

eLED Bezel/Lamp Module (Optional Accessory)

The eLED bezel/module is used with a special optical bezel and lens which allow the beam angle to to be changed by twisting the bezel. When the bezel is screwed all the way down, beam coverage is at maximum. Unscrewing the bezel for up to one full turn will reduce the beam angle from about 21° to 13° or by 40%. In addition to the optics and LED itself, the module contains an electronic circuit which helps to maintain constant brightness as the batteries are discharged. Battery life can be extended by switching the UK4AA Zoom from high to low power. In order to switch to low power, the light must be ON. By quickly pressing the switch twice, brightness will go from high to low. Repeating the process will switch the light back to high power.

Right Angle Adapter (Optional Accessory)

The Right Angle adapter allows light to directed forward when the UK 4AA is clipped to MOLLE loops on a vest or clothing. To install the right angle adapter, unscrew the Bezel/lamp module. Screw the adapter onto the the UK 4AA case. Then screw the Bezel/lamp module onto the adapter. Be sure that all o-rings and sealing surfaces are kept clean. The adapter can be pointed in different directions by rotating it.

Charger Installation

The rapid charger is designed for portable use or installation at a permanent charging station. It has mounting holes for #10 size sheet metal or machine screws. The rapid charger includes trickle charging circuitry for continuous charge applications.

Care and Maintenance

1. Keep area around the o-ring and vent clean.
2. For longer xenon lamp life do not turn the light on for several minutes after removal from the charger.
3. If the light floods, empty it immediately, rinse with fresh water and dry completely before reassembly. If there are signs of corrosion return the light for repair. Replace the reflector/lamp, which contains a hydrogen absorbing catalyst , if it gets wet.

UK4AA-AS2R ASSEMBLY

⚠ CAUTION
Do not insert any other flashlight or foreign object into the charge cavity. Doing so may result in damage to the charge contacts.

RAPID CHARGER

1. Plug charge power supply into wall, or cigarette lighter adapter into cigarette lighter socket.
2. Plug wire from power supply or cigarette lighter into bottom of rapid charger base. Clip wire into strain relief clip provided under the charger.
3. Drop light into charger as shown. **IMPORTANT: Orient key at base of light with slot in charger socket.**
4. Adjust tension of light holder by turning knob on front of charger base. A tight grip prevents light from bouncing out of charger in mobile installations.
5. The green charge indicator light should begin blinking within 10 seconds as the light is charging. If not make sure light is seated in cradle properly and power is applied to the power supply or cigarette lighter adapter.
6. The light requires a maximum of 1.5 hours to charge. Partial charges take less time. When charging is complete, the light will feel hot to the touch, and the charge indicator light will switch from blinking to steady glow. If the light is left in the charger the indicator light may start blinking again as a trickle charge is applied. **Do not re-insert the light into the charger if the case feels hot.**

PARTS & ACCESSORIES

UK4AA -AS2R Replacement Parts & Accessories

14233	UK4AA R Xenon (light only) - black
14824	Lamp/Reflector - 120 minute (780ma)
14801	Lamp/Reflector - 230 minute (410 ma)
14846	Lamp Module, 4AA eLED Zoom (requires 14852)
14852	Bezel Assy, 4AA eLED Zoom
14845	Right Angle Head Adapter Set
14802	Stainless steel helmet clip (fixed angle)
14818	Stainless steel helmet clip (adjustable angle)
14819	Nylon adjustable helmet clip (fits all hard hats)
14808	Traffic director wand (orange with red and filter) - xenon only
14814	Rubber sheathed bezel (14824, 14801, 14806 lamps only)
14815	O-Ring
14825	Rapid charge dock and wall transformer (100-240 VAC input)
14816	Belt pouch (black nylon)
14832	Belt holster, Accumold (basket weave finish) - xenon only
14833	Belt holster, Accumold (plain finish) - xenon only
14834	Belt holster, Accumold (black nylon) - xenon only

RAPID CHARGE AUTO PLUG

Plug cigarette lighter plug into cigarette lighter or DC power socket of automobile. Plug other end of cable into the rapid charger.
Charge 1.5 hours (maximum).
To replace fuse in adapter plug, unscrew knurled metal tip as shown below.

SPECIFICATIONS

UK4AA-AS2R Flashlight

Lamp/Reflector:	UK 14824	UK 14801	UK 14806	UK 14846
Lamp Type:	Xenon	Xenon	Xenon	LED
Brightness:	64 Lumens	44 Lumens	43 Lumens	44 Lumens
(Initial at 5.1 V)				
Power:	5.1 V, 780 mA	5.1 V, 410 mA	5.1 V, 390 mA	5.1 V, 420 mA
(Initial)	4 Watt	2.1 Watt	2.0 Watt	2.1 Watt
Burn Time:	120 Min (Av)	230 Min (Av)	240 Min (Av)	300 Min (Av)
Size:	1.37 dia x 1.2 x 6.2 inch			6.8 long
Battery:	4x Nickel Metal Hydride AA-size (non-removable)			
Water Resistance:	10 foot submersion in water			
Materials:	ABS, polycarbonate, TPR			
Temp Range:	Batteries (-4°F to 122°F), Switch (32°F to 122°F)			
	Storage (-4°F to 95°F)			

Rapid Charger

Charge Time:	1.5 hours (maximum)
Trickle Charge:	yes (continuous charge OK)
LED Charge Indicator:	Blinking (charging), Continuous (charged)
Charger Dock Input:	12 VDC, 1.7 A max (center positive)
Wall Plug Adapter Input:	100-240 VAC, 50-60 Hz (model WN20U-120)
Auto Plug Adapter Input:	12 VDC (negative ground; 2A fast blow fuse)
Usage Location:	Indoor only (not in hazardous locations)
Charger Dock Materials:	ABS
Charge Temperature Range:	50°F to 113°F

Hazardous Location Rating

UK4AA-AS2R FLASHLIGHT FOR USE IN HAZARDOUS LOCATIONS. USE ONLY WITH 14824, 14801, 14806 or 14846 LAMP AND UK4AAR CHARGER.
CL I, DIV 2, GP A, B, C, D, CL II, DIV 2 GP G, CL III, DIV 2 T2B

LIMITED LIFETIME WARRANTY

UK International products are engineered for maximum performance and durability. All products carry a Limited Lifetime Warranty to the original retail purchaser to be free from defective material and workmanship under normal and intended use. In addition, the UK International Limited Warranty covers materials used in its products to the original purchaser, from the date of purchase, as follows: plastics for 10 years; fabrics and rubber for 3 years; rechargeable batteries for 90 days; and lamps for 30 days (batteries and lamps are not manufactured by UK International).

In the event the original retail purchaser detects a defect in the material or workmanship, the product along with proof of purchase date should be returned to an authorized UK International dealer or directly to UK International with the postage prepaid. UK International agrees to repair or replace at UK International's sole discretion any product found to be defective in material or workmanship within the time period specified above. For the complete Limited Lifetime Warranty write to UK International or check the website www.ukinternational.com.

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