



(1) **EC-Type Examination Certificate**

(2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 94/9/EC**

(3) Examination Certificate Number

**SEV 05 ATEX 0130**

(4) Equipment: High intensity work lights type UK4AA eLED ZOOM with lamp module number 14'849

(5) Manufacturer: Underwater Kinetics

(6) Address: 13400 Danielson Street Poway, CA 92064, USA

(7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Electrosuisse SEV as notified body No. 1258 in accordance with article 9 of the Council Directive of the European Communities of 23 March 1994 (94/9/EC), certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment or protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The results of the examination are recorded in confidential report No. 05-IK-0147.01

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN 1127-1:1997**

**EN 60079-0:2004**

**EN 50020:2002**

(10) If the sign «X» is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This examination certificate relates only to design and construction of the specified equipment in accordance to the directive 94/9/EC. Further requirements of this directive apply to the manufacturing process and the placing on the market of the equipment.

(12) The marking of the equipment shall include the following:

 II 2G      Ex Ib IIB T5

**Electrosuisse SEV**  
Certification Body ATEX

Jürg Relistab  
Manager Product Certification

Fehraltorf, 2007-01-03  
Replaces certificate dated  
2006-10-20  
(correction)

(13)

## Appendix

(14)

**EC-Type Examination Certificate SEV 05 ATEX 0130**

(15) Description of the equipment

1. According to RL 94/9/EC (ATEX 95) Appendix I, the explosion-protected, high-intensity work lights "UK Lights", type UK4AA eLED ZOOM, with the type of protection intrinsic safety "ib", are devices of equipment group II, category 2G.
2. According to RL 99/92/EC (ATEX 137), the explosion-protected, high-intensity work lights can be used in zones 1 and/or 2 as well as in the gas group IIB, which are potentially explosive due to combustible materials in the temperature classes T1 ... T5.
3. The explosion-protected, high-intensity work lights, type UK4AA eLED ZOOM are helmet lamps that can be mounted on all protective helmets with a clip. Projection Optics enable the beam width to be varied by twisting the bezel.

(16) Test Report

05-IK-0147.01

1. The explosion-protected, high-intensity work lights must not be opened in potentially explosive atmospheres containing ignitable gases, vapours or mists.
2. Before using the explosion-protected, high-intensity work lights, the warning information on the type plate must be observed.
3. Before using the device, the operating instructions of the **UK4AA eLED ZOOM** must be observed.
4. The maximum permissible ambient temperature range for the explosion-protected, high-intensity work lights is  $-20^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ .
5. The explosion-protected, high-intensity work lights may only be operated with standard alkaline batteries as specified in the aforementioned ratings.
6. The explosion-protected, high-intensity work lights must only be used with the lamp module number 14'849.
7. The explosion-protected, high-intensity work lights can be switched on and off with the integrated pushbutton switch.
8. The explosion-protected, high-intensity work lights must be protected from long exposure to direct sunlight.
9. The explosion-protected, high-intensity work lights may be placed vertical on the bezel only when switched off (heat accumulation in lamp module or bezel). The heat accumulation can exceed the permissible temperature class.
10. The batteries used for the explosion-protected, high-intensity work lights must be replaced together as a set, i.e. all batteries as a whole and of the same make.
11. Attention must be paid to the correct polarity when inserting the batteries. Before inserting the batteries, the information in the operating instructions of the UK4AA eLED ZOOM must be observed.
12. After inserting the new batteries in the explosion-protected, high-intensity work lights, these must be allowed to burn for minimum one minute outside the hazardous location.

13. If the explosion-protected, high-intensity work lights are not used for extended periods, the batteries should be removed.
14. Before using the explosion-protected, high-intensity work lights, these should be checked for tightness by twisting the bezel outside the hazardous location. The tightness of the O-ring can be checked by twisting the screwed bezel. If necessary the O-ring must be replaced with an original O-ring by the lamp manufacturer UK. The manufacturer's instructions in the operating instructions for replacement of the ring must be strictly adhered to.
15. Apart from the prescribed batteries, only original parts must be used by the manufacturer UK (Underwater Kinetics).

Remarks:

1. The explosion-protected, high-intensity work lights, type UK4AA eLED ZOOM can be used with an optional angle head and/or pocket clip under ref. 01-IK-0336.02 with extension number 1.
2. The explosion-protected, high-intensity work lights, type UK4AA eLED ZOOM can also be manufactured with a "persistent" lamp housing under ref. 01-IK-0336.02 with report.
3. The explosion-protected, high-intensity work lights, type UK4AA eLED ZOOM can additionally be marked with laser (laser inscription) under ref. 01-IK-0336.02 with letter of confirmation.

(17) Special conditions for safe use  
none

(18) Fundamental essential health and safety requirements  
Fulfilled by the standards applied

**Electrosuisse SEV**  
Certification Body ATEX



Jürg Rellstab  
Manager Product Certification

Fehraltorf, 2007-01-03  
Replaces certificate dated  
2006-10-20  
(correction)