



**EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED117622WS/003**

***This is to certify** that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Life-Saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2021/1158.*

<i>MED Item N°</i>	MED/1.2c
<i>USCG Category N°</i>	161.112
<i>Description</i>	Position-indicating lights for life-saving appliances: (c) for lifejackets
<i>Type</i>	AQ8L; AQ8LM; AQ8A; AQ8AM; AQ8M; AQ8MM
<i>Applicant</i>	AQUASPEC LIMITED HYS PORT HAMBLE, HAMBLE, SOUTHAMPTON SO31 4NN Hampshire UNITED KINGDOM
<i>Testing standards</i>	IMO Res. MSC.81 (70), as amended, EN 60945:2002 incl. IEC 60945 Corr. 1:2008, ISO 24408:2005.
<i>Reference standards</i>	SOLAS 74 Reg.III/7, SOLAS 74 Reg.III/22, SOLAS 74 Reg.III/26, SOLAS 74 Reg.III/32, SOLAS 74 Reg.III/34, IMO Res.MSC.36(63)-(1994 HSC Code) 8, IMO Res.MSC.48(66)-(LSA Code) I, IMO Res.MSC.48(66)-(LSA Code) II, IMO Res.MSC.97(73)-(2000 HSC Code) 8.

Issued in **SHANGHAI** *on*
May 1, 2022

This Certificate is valid until
April 30, 2027

This Certificate consists of this sheet plus an attachment



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RINA Services S.p.A.





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Manufacturer

XIAMEN LONAKO INDUSTRY & TRADE CO., LTD

Place of Manufacturer

N307
WEIYE BUILDING
CHINA PIONEERING PARK FOR CHINESE OVERSEAS SCHOLARS Xiamen
CHINA

Name & place of Authorised Representative

Mr. Johannes Graf Strachwitz
Walhallastraße 38, 80639 München, Germany
GERMANY

Product Description

Model of Lights:

- AQ8L, AQ8A & AQ8M: Flashing light;
- AQ8LM, AQ8AM & AQ8MM: Flashing - Steady - SOS light.

Dimensions of body (mm) (L x W x H):

- AQ8L & AQ8LM: 62.5 x 25.4 x 23.8, about 45g(including clip);
- AQ8A & AQ8AM: 62.5 x 25.4 x 23.5, about 38g(including clip);
- AQ8M & AQ8MM: 62.5 x 25.4 x 23.5, about 38g(including clip).

Activation:

- AQ8L & AQ8LM: Water-activation automatically on and manual off / manual on;
- AQ8A & AQ8AM: Water-activation automatically on and manual off / manual on;
- AQ8M & AQ8MM: Manual turn on/off and change function.

The above lights are manufactured with following characteristics:

- Color of Lamp Shade: Semi-Transparent
- Material: Polycarbonate
- Flash rate: 50 ~70 flashes per minute
- Battery: 2 * AAA Alkaline battery
- Lamp: White SMT LED
- Luminous Intensity: >0.75.cd
- Operation Life: > 8H over 0.75cd
- Environmental Temperature: -30°C~ +65°C
- Working Temperature: -1 ~ +30°C

The light is supplied with a clamp for fastening to the lifejacket.

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Reference Documents

Technical Specifications edit by Xiamen Lonako Industry & Trade Co., Ltd and approved by RINA with No.: SHFP-18852 (Model AQ8L & AQ8LM), SHFP-18853 (Model AQ8A & AQ8AM) and SHFP-18854 (Model AQ8M & AQ8MM);

Operation Manual edit by Xiamen Lonako Industry & Trade Co., Ltd and filed RINA with No.: SHFP-9626 (Model AQ8L & AQ8LM), SHFP-9630 (Model AQ8A & AQ8AM) and SHFP-9634 (Model AQ8M & AQ8MM);

Bill of Material edit by Xiamen Lonako Industry & Trade Co., Ltd and approved by RINA with No.: SHFP-9627 (Model AQ8L & AQ8LM), SHFP-9631 (Model AQ8A & AQ8AM) and SHFP-9635 (Model AQ8M & AQ8MM);

Technical drawing of Xiamen Lonako Industry & Trade Co., Ltd and approved by RINA with No.: SHFP-9628 (Model AQ8L & AQ8LM), SHFP-9632 (Model AQ8A & AQ8AM) and SHFP-9636 (Model AQ8M & AQ8MM).

Tests carried out

Evaluation and Test Report (Ref No.: 2016135, 2016136, 2016137) edit by Wuhan Testing Center of Marine Life-saving Appliances in accordance with IMO Res. MSC.81(70) as amended by Res. MSC.226(82) and filed by RINA with No.: SHFP-13378 (Model AQ8L & AQ8LM), SHFP-13379 (Model AQ8A & AQ8AM) and SHFP-13380 (Model AQ8M & AQ8MM);

Additional Evaluation and Test Report (Ref. No: 202109SL2W, 202109SL3W and 202109SL5W) edit by XIAMEN LONAKO INDUSTRY & TRADE CO.LTD according to Chapter 8.3, 8.5, 8.6, 8.9 and 11.2 of IEC 60945:2002 incl. IEC 60945 Corr.1:2008 and filed by RINA with No.: SHFP-18675 (Model AQ8L & AQ8LM), SHFP-18676 (Model AQ8A & AQ8AM) and SHFP-18677 (Model AQ8M & AQ8MM);

Additional Evaluation and Test Report (Ref. No: 2021SL2W, 2021SL3W and 2021SL5W) edit by XIAMEN LONAKO INDUSTRY & TRADE CO.LTD according to MSC.81(70), ISO 24408:2005 regulation 5.2 and 6.1 and filed by RINA with No.: SHFP-18679 (Model AQ8L & AQ8LM), SHFP-18680 (Model AQ8A & AQ8AM) and SHFP-18681 (Model AQ8M & AQ8MM);

Test Report (PC Plastic Mould Growth Test) (Ref No.: 20092277) edit by Center of Analysis & Measurement of Shanghai Institute Of Industrial Microbiology and filed by RINA with No. SHFP-8043;

Inspection report (Ref No.: 2010YW035) edit by The National Supervision and Testing Center of Fishery Machinery and Instrument and filed by RINA with No. SHFP-8044.

Field of application

Flashing light for lifejackets are designed in compliance with IMO Res MSC 207(81).

Remark

Previous issued MED Module B certificate No.: MED069519WS/003 was annulled and replaced accordingly.

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The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX Notified Body number undertaking surveillance module

YYYY The year in which the mark is affixed

USCG Approval marking

This equipment is covered by the scope of the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment signed February 27th, 2004 and amended by Decision No. 1/2018 dated February 18th, 2019 according to U.S. Coast Guard approval category 161.112.

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F) as allowed by the MED.

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.



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