

## SEA FLASH

**A small, robust, high powered automatic flashing SOLAS approved Lifejacket Light.**

**TECHNICAL SPECIFICATION and OPERATING INSTRUCTIONS FOR THE SEA FLASH.**



Product Code	LNK-LJ-02A2-UML1 LNK-LJ-02A2W-UML1
Type of light	Bright Auto Flashing LED
Colour	Grey base and clip
LOT Number	MM/YYYY
Pack quantity	300 units (min 30 units)
Quality Standard	BS ISO 24408:2005 - MSC.81(70)
Notified Body	RINA
Certificate Number	TBC
Issue date	16-08-2010

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## 1. Product description:

**UML** lifejacket lights LNK-LJ-02A2-UML1 and LNK-LJ-02A2W-UML1 are extremely bright LED flashing lifejacket lights which activate automatically when the small sensor at the end of their trailing wire, makes contacts with water. The **UML** light can be activated manually (both off and on) when the water sensor is in the water, by simply pressing the red button on the main body of the unit.

## 2. Design Standards:

- 2.1. The latest SOLAS Regulation.
- 2.2. LAS Code.
- 2.3. IMO Resolution: MSC.81(70).
- 2.4. ISO24408:2005.

## 3. Manufacturing Standard:

- 3.1 ISO9001:2008 QMS (Approval by DNV)
- 3.2 ISO24408:2005

## 4. Technical parameters:

Technical parameter	Specification
<b>Battery</b>	CR2 Lithium battery.
<b>Lamp</b>	Powerful LED.
<b>Chromaticity</b>	White.
<b>Type of Light</b>	Flashing type
<b>Flash Frequency</b>	50 ~ 54 times per minute.
<b>Luminous Intensity</b>	≥1.0cd.
<b>Operation Life</b>	≥10h.
<b>Storage Temperature</b>	-30°C ~ +65°C.
<b>Working Temperature</b>	-1°C ~ +30°C.
<b>Weight</b>	32g (including clip).
<b>Dimension</b>	Main body: 45 x 19 x 31 mm Clip: 51 x 9.8 mm.
<b>Activation</b>	Water-activation automatically on / manual off / manual on.
<b>Performance</b>	Fire-resistant, Oil-resistant, Mould-proof, Corrosion-proof, Water-proof.

## 5. Colour and materials:

- 5.1 The lamp base case and clip are mid grey in colour and the top case is transparent.
- 5.2 The base, top case and clip are produced in a high performance polycarbonate, the top and base cases are sonically welded together, to form an extremely strong leak resistant assembly.
- 5.3. The red master switch, on the main body, is coated with clear protective plastic film, has clear operating instructions and is simple to switch on and off.
- 5.4. The copper water sensors are well shielded and gold-plated, to prevent corrosion.
- 5.4 The battery type is heavy duty lithium.

## 6. Performance:

**UML** Lifejacket Lights have been tested and approved to the latest Lifejacket Light Standards and are marked with the SOLAS "Ship's wheel".

**Note:** **UML** model LNK-LJ-02A2W-UML1 is also available, with the operating sequence: FLASHING – STEADY - SOS – OFF, these functions are accessed via the manual switch, while the Water Sensors are wet.

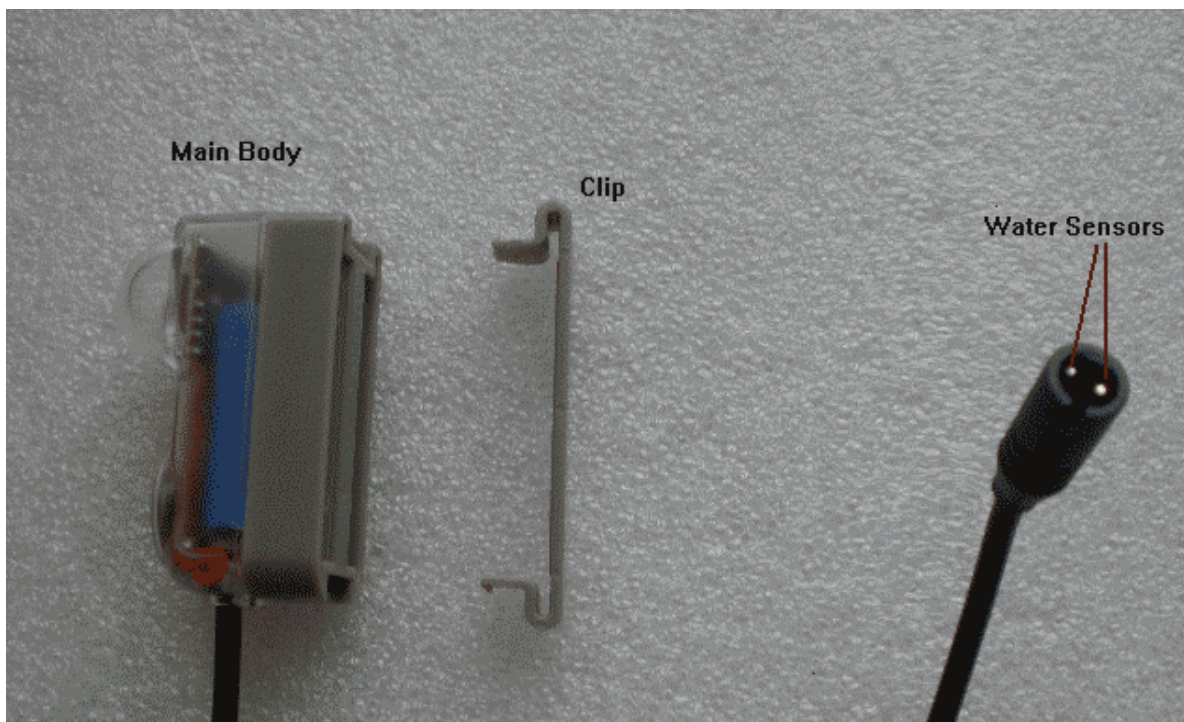
## 7. Installation:

Both **UML** lifejacket lights (models LNK-LJ-02A2-UML1 and LNK-LJ-02A2W-UML1) are suitable for all types of lifejackets, they are supplied with a strong fixing clip and it is important they are securely fastened to the individual lifejackets in a place that affords clear visibility when the user is in the water. Typical installations are shown below:



## 8. Operation:

**UML** LNK-LJ-02A2-UML1 and LNK-LJ-02A2W-UML1 lifejacket lights are activated automatically when the water sensor at the end of the trailing wire is immersed in water, the trailing wire is fitted to ensure that the light is activated even when the main body is out of water, due to the position of the wearer in the water. It should be noted that whilst the water sensor is wet, both types of light can be manually turned off and on, by pressing the red button on the main body, however both types of light cannot be activated when the water sensor is dry.



## 9. Maintenance:

The **UML** lifejacket lights are maintenance free, however it is strongly recommended that the following checks are made annually:

- 9.1. Ensure that the lifejacket is stored, according to the manufactures instructions and that the water sensors remain dry at all times.
- 9.1 Inspect light for signs of damage or corrosion.
- 9.2 Test the light by immersing the wire in water, the light must flash and, by pressing the switch on the main body, the light can be turned off.
- 9.3 Remove the water sensor from the water and dry it, the light can be turned off but not be turned on again.

## 10. Life:

The storage life of **UML** lifejacket lights is five years from the date of manufacture. The expiry date of the lights is shown clearly on the label which is affixed to the side of the Main Body. On reaching the expiry date, the light should be removed by carefully pulling out the retaining clip from the rear of the main body; a new light can then be refitted to the original position by simply pressing in a new retaining clip to lock it in place.

### 11. Disposal:

The disposal of used and expired lights should be actioned in accordance with local regulations relating to lithium based batteries, preferably through an approved environmental waste disposal agent.

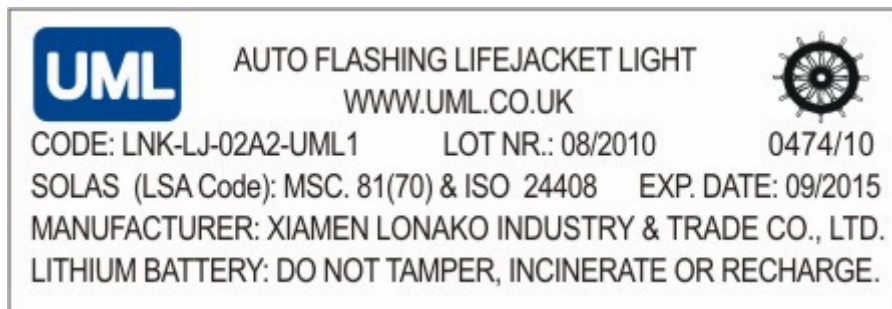
### 12. Safety:

**UML** lifejacket lights contain a high performance Lithium battery which is completely sealed in the Main Body, however the following conditions should still be observed:

- 12.1 Do not attempt to dismantle the case assembly and handle the battery pack.
- 12.2 Do not make any external electrical connection.
- 12.3 Do not endeavour to recharge the battery.
- 12.4 Do not incinerate the unit.
- 12.5 Storage temperatures should be maintained between -30°C ~ +65°C.

### 13. Label Information:

A guide to the product information label is as follows:



CODE: ----- Product code.

LOT NR (Number): 08/2010 (example) ----- MM/YYYY (also the date of manufacture).

EXP. (Expiry) DATE: 09/2015 (example) ----- MM/YYYY

RINA approval code 0474/10, approved in 2010.

### 14. Packing Specification:

14.1. Two cardboard cartons sizes (with 10 inner cartons per outer).

14.2 Markings: As the label above but with the suppliers name replacing the manufacture's name.

14.3. One internal carton (Size 300 x 205 x 55 mm) contains 30 units. (Weight = 1.14 Kgs.)

14.4. One external carton (Size 425 x 310 x 285 mm) contains 300 units. (Weight=13.5 Kgs)

**15. MED Certificate:** To be issued in September 2010.