

Labino Torch Light UVG2 2.0 | UVG3 2.0 | White

OPERATING INSTRUCTIONS



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I. LABINO THE COMPANY

Labino AB is a Swedish-American, family owned company dedicated to the development and manufacture of UV lamps since 1994. Since its inception, Labino AB has been committed to high standards of quality in the design and manufacture of new innovative products, helping NDT professionals worldwide to make the world a safer place. Labino AB high quality lights are designed to comply with all relevant international and ASTM standards, and are distributed to over 55 countries worldwide.

Labino AB UV lights are used in multiple applications, industrial as well as non-industrial such as Nondestructive Testing, Medical Laboratories, Crime Laboratories, Forensics, UV Curing, Leak Detection and others. Labino is committed to environmentally friendly technologies and materials.

Labino is a proud member of:

ASTM

ISO

Nadcap

ASNT

2. MODELS AVAILABLE

Labino offers six different Torch Lights. Five UV versions and one white light torch. UVG2 2.0 is equipped with a clear glass while UVG3 2.0 is equipped with a white light block filter (used for NDT). UVG2 2.0 is available in two different versions and UVG3 2.0 is available in three different versions as indicated below.



UVG2 2.0 TORCH LIGHT
with clear glass

Spotlight
Midlight



UVG3 2.0 TORCH LIGHT
with white light block filter

Spotlight
Midlight
Floodlight



WHITE LIGHT

One version

For information about spare parts and accessories please visit www.labino.com

3. UNPACKING THE EQUIPMENT

Check that the lamp has not been damaged during transport. In the event of external damage to the PACKAGE, do not accept the package from the freight company.

In the event of external damage to the PRODUCT, please contact the supplier without testing whether the lamp works.

Make sure that no part is missing. If a part is missing, contact your supplier.

4. TRANSPORTATION OF THE EQUIPMENT



Warning! Shipping of batteries:

Make sure you ship all products including lithium batteries according to IATA Dangerous Goods Regulations (DGR). DO NOT ship broken lithium batteries. Broken batteries shall be disposed in accordance with local waste disposal regulations.

5. HANDLING OF THE EQUIPMENT / INTENDED USE

Although the lamp is very sturdy, it should be treated with a certain amount of care, because it contains electrical and optical equipment.

The lamp can be switched on and off at any interval.

Waterproof

Tested waterproof classification "IP68 1.1m, 31 minutes" means that the lamp can withstand water from above without any harmful side-effect. It can be held up to 1.1 meters under water for up to 31 minutes.

Cleaning – do not disassemble unit for cleaning

Exterior surfaces should be cleaned with a soft, lint-free cloth and mild detergent. Isopropanol and a microfiber cloth shall be used to perform the cleaning of the filters. Disassembly voids warranty.

Temperature

Make sure the unit has good ventilation. Do not mount the unit in a closed compartment and do not cover any part of the unit. Since the unit is cooled by convection, remove all obstacles that prevent efficient air flow.

The maximum ambient temperature is 50° C (122° F).

Intended use

Intended use of the UV torches is to inspect an object by irradiating the surface with UV emitted from the light source. The lights are specially designed to perform Non Destructive Testing – Magnetic Particle Inspection or Penetrant Inspection. The user should always wear UV blocking eye protection when using the UV light.

Charging instructions for external battery charger:

1. Unscrew the end cap of the torch and remove the battery.
2. Connect the AC adapter for the charger to a DC jack.
3. Connect the AC adapter circular DC jack to the charging dock.
4. Place the batteries in the charging dock by pushing them gently. Observe the polarity of the batteries when inserting them into the charger. Misplaced batteries can damage the charger.
5. When the LED of the charger is/turns green, the battery is fully charged.



6. TECHNICAL DATA

Weight including battery	UVG2-3 2.0 Midlight, Spotlight and UVG White: <ul style="list-style-type: none"> • without batteries 166 g (5.86 oz) • with batteries 215 g (7.58 oz) UVG3 2.0 Floodlight: <ul style="list-style-type: none"> • without batteries 183 g (6.46 oz) • with batteries 231 g (8.15 oz)
Battery	<ul style="list-style-type: none"> • 1 x 3.6 VDC • 3350 mAh Lithium-ion
Battery Operating time (see attachment)	UVG2 2.0 Spotlight ≈ 4.0 hrs UVG2 2.0 Midlight ≈ 4.0 hrs UVG3 2.0 Spotlight ≈ 4.0 hrs UVG3 2.0 Midlight ≈ 8.0 hrs UVG3 2.0 Floodlight ≈ 4.0 hrs
Charging time	Usage of the external charger provided charges the batteries fully within 4 hours.
Peak wavelength (UV)	365 nm +/- 5 nm
Peak intensities at a distance of 380 mm (15")	UVG2 2.0 Spotlight ≈ 100 000 μW/cm ² UVG2 2.0 Midlight ≈ 18 000 μW/cm ² UVG3 2.0 Spotlight ≈ 90 000 μW/cm ² UVG3 2.0 Midlight ≈ 8 000 μW/cm ² UVG3 2.0 Floodlight ≈ 4 000 μW/cm ²
Visible light from UV LED at a distance of 380 mm (15")	UVG2 2.0 Spotlight ≈ 90 Lux (9 fc) UVG2 2.0 Midlight ≈ 14 Lux (1.4 fc) UVG3 2.0 Spotlight ≈ 20 Lux (2 fc) UVG3 2.0 Midlight ≈ 3 Lux (0.3 fc) UVG3 2.0 Floodlight ≈ 1.5 Lux (0.15 fc)
Visible light from white LED	At 380 mm (15") distance ≈ 60 000 lux (5580 fc)

7. STORAGE AND DISPOSAL

- Store the Torch Light and extra batteries in a dry (below 65% humidity) and cool environment (below 30°C).
- Store and handle batteries with care. Keep away conductive objects that can short-cut the batteries.
- Do not dispose the batteries in fire or water.
- Consumed batteries shall be recycled at local waste disposal sites.

8. WARNING AND UV SAFETY



General UV Safety Information

UV-A light can cause burn injuries. The exposure to light should be considered with care.

Unprotected and prolonged exposure to any form of UV light, including UV-A, can result in skin injuries, cataracts and possibly cancer. Even brief exposure can be hazardous if the UV intensity is very high.

UV is Dangerous – Protect yourself!

It is advised to always shield the eyes/face. For maximum protection and whenever possible, hands and arms should also be covered with long sleeves and gloves of a non-fluorescent material.

- **UV Goggles:** It is of utter importance to use UV safety glasses. Enclosed with this lamp, you will find UV safety glasses that absorb 99.9 % of all UV up to 385 nm.
- **Visor:** To take extra caution, use an UV block visor that absorbs 99.9 % of all UV up to 385 nm.
- **Gloves:** Be sure to use gloves that protect you not only from chemicals or cuts, but also from UV. Make sure that they do not fluoresce.
- **Apron:** To protect your body in the best way, use an industry apron with 100 % UV block.

Sensitivity

Certain individuals are naturally hypersensitive to all forms of UV and should avoid any exposure. In general, if itching, inflammation or other unusual symptoms occur, UV exposure should cease immediately. People using certain drugs that produce photosensitivity should avoid exposure to all UV sources.

Safety standard

According to EN 62471 all models of Labino UVG2-3 2.0 are classified in Risk Group 3, High Risk, with the exception of UV3 2.0 Floodlight that is classified in Risk Group 2, Moderate Risk.

Heat

The lamp generates heat that needs to dissipate through convection. Do not cover the unit under operation.

Battery Safety!

Never charge the battery with any charger other than the original charger that comes with the delivery. Usage of a non-Labino battery can cause serious damage to the user and the lamp.



Warning! Shipping of batteries. Make sure you ship all products including lithium batteries according to IATA Dangerous Goods Regulations (DGR). DO NOT ship broken lithium batteries. Broken batteries shall be disposed in accordance with local waste disposal regulations.

9. WARRANTY

Labino AB guarantees that the armatures will be free from defects when delivered. Labino AB's obligation under this warranty is limited to repairing or replacing, at the option of Labino AB, any part(s) of the product which, if properly installed, used and maintained, proves upon factory examination to have been defective in material or workmanship. This warranty does not apply to any product or part which (1) is normally consumed in operation or (2) has a normal life inherently shorter than the stated warranty. In no event shall Labino AB be liable for special, indirect, incidental or consequential damages, nor for any damages arising out of delay in shipment or production.

Warranty for a brand-new UVG Torch Light

- The warranty for a brand-new lamp is twelve (12) months from the date of purchase.
- An invoice that shows the actual date of when the lamp was purchased as well as the serial number of the unit must be enclosed in the shipment in order to be able to claim the warranty. If the invoice is not enclosed, Labino will base the warranty period on the delivery date from Labino to the distributor.

Warranty for a repaired UVG Torch Light

- The warranty for lamps repaired by Labino's in-house service center or an authorized Labino service center is three (3) months from the date it is shipped from Labino's in-house service center or an authorized Labino service center, unless the initial warranty is still in force.

Warranty for Labino Spare Parts

- Labino UVG and White Torch Light lamps have one consumable part that needs to be replaced after long-term usage: Lithium ion batteries lose approximately 20 % of their performance after 500 charge cycles.
- Batteries have a warranty of three (3) months.

Freight

- Products not under warranty: It is in the responsibility of the customer to pay for the freight costs to and from Labino's in-house service center or a local authorized Labino service center.
- Products under warranty: It is the responsibility of the customer to pay the freight costs to Labino's in-house service center or a local authorized Labino service center. The cost for return freight of goods under warranty sent from Labino's in-house service center to distributors or end-users is paid by Labino.
- The method of shipment and choice of carrier is left to the discretion of the company bearing the freight costs.



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Repairs

- If your Labino lamp needs service or repair it shall be sent to the nearest local authorized service center. It will benefit you with faster service and reduced freight costs by using local service centers. A complete list of service center locations can be found on our website at www.labino.com.
- Alternatively, the lamp can also be sent to the nearest Labino distributor or the distributor from whom you purchased your Labino lamp. A complete list of distributors can be found on our website at www.labino.com.
- In case there is no service center or a distributor in your region, you can also send your lamp directly to Labino's manufacturing department in Sweden.

Labino Manufacturing and Service

Fågelsångsvägen 16, 186 42 Vallentuna, Sweden

Please be sure to send your package with “door-to-door” delivery and mark export documents with “Return for Repair” if you send the product to Labino. The package will be returned to the sender if it is not sent “door-to-door”.

Please make sure to fill out the correct documents for customs clearance, specifying that it is a return of goods for repair. If you need further assistance, please contact our customer service department in Sweden at +46 8 83 90 70 or send an e-mail to us at labino@labino.com.

10. DECLARATION OF CONFORMITY IN ACCORDANCE WITH EN ISO 17050-1:2010

Object of the declaration:

Product: Ultraviolet lamp/White light lamp
 Model/Type: UVG2 2.0 (Spotlight and Midlight)
 UVG3 2.0 (Spotlight, Midlight and Floodlight)
 White light
 Manufacturer: Labino AB
 Address: Fågelsångsvägen 16, SE-186 42 Vallentuna, Sweden
 Tel: +46 (0) 8 83 90 70 E-mail: labino@labino.com

This declaration is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the relevant European Union harmonization legislation:

93/68/EEC The CE Marking Directive
 2014/30/EU The Electromagnetic Compatibility Directive
 2006/25/EC The Artificial Optical Radiation Directive

Conformity with the European Union harmonization legislations listed above, is shown by compliance with the applicable requirements of the following standards:

Reference and Date	Title	Notified Body or Test Lab
EN 61326-1: 2013, IEC 61326-1:2012 EN 55011:2016, -AI:2017 class B	EMC – Emission	KEMET Electronics AB Thörnblads väg 6 386 90 Färjestaden SWEDEN
EN 61326-1:2013, IEC 61326-1:2012 EN 61000-4-2, -3	EMC – Immunity	
SS EN 62471:2008 IEC 62471:2006	Photobiological safety of lamps and lamp systems	RISE, Research Institutes of Sweden, Brinellgatan 4 504 62 Borås SWEDEN
EN 60529:1991+A1:2000+A2:2013 IEC 60529:1998+A1:1999+A2:2013	Enclosure IP68 1.1 m, 31 min	Intertek Semko AB, Torshamnsgatan 43 164 22 Kista SWEDEN

The Object of the declaration described above is in conformity with the manufacturers requirements for Nondestructive Testing listed below:

Reference and Date	Title	Notified Body or Test Lab
ASTM E3022:2018*	ASTM Standard: Standard Practice for Measurement of Emission Characteristics and Requirements for LED UV-A Lamps Used in Fluorescent Penetrant and Magnetic Particle Testing.	Labino AB Fågelsångsvägen 16 186 42 Vallentuna SWEDEN
AITM6-1001, issue 11** Memorandum ME 1720084	Airbus Test Method For Inspection Processes.	
RRES 90061**	Rolls-Royce Engineering Specification	

*Only the models UVG3 2.0 Midlight and Floodlight are in compliance.

**Only the model UVG3 2.0 Floodlight is in compliance.

Additional Information: This Declaration of Conformity complies with the requirements of our ISO 9001:2015 Management System.

For and on behalf of Labino AB:




Lisel Athanasiadis
Managing Director

Place of Issue: Fågelsångsvägen 16, 186 42 Vallentuna, Sweden
Latest Issue: 1 October 2019

II. LABINO AB QUALITY DECLARATION

Labino Quality Management Systems:

Labino is certified in accordance with the following standards:

Standards	Certifying body	Regarding
ISO 9001:2015	DNV, Sweden	Management Quality System
ISO/IEC 80079-34	Intertek, UK Cleeve Road Leatherhead, Surrey KT2275B GREAT BRITAIN	Explosive Atmospheres – Application of quality systems for equipment manufacture
ISO/IEC 17025:2017	Swedac, Sweden	General requirements for the competence of testing and calibration laboratories

Quality Control in Factory

Labino Quality Declaration certifies that:

1. International and valid standards have been applied to when designing and manufacturing our products.
2. A quality control system is in place and is being used in our organization.
3. A comprehensive quality test has been performed on this product before being shipped from our factory.

The lamp has been assembled and tested in accordance with:

- ASTM E3022-18 – Manufacturers Requirement
(Unit test report attached)
- RRES 90061 – Manufacturers Requirements (Unit test report attached)
- AITM6-1001, issue 11 and memorandum ME 1720084 –
Manufacturers Requirements (Unit test report attached)

Engineer performing final inspection and test report:

- Martin Lindquist Kim Johansson Kent Eriksson
- Örjan Lindquist Joakim Vestin

Signature:

Date of manufacturing:

Company Signature/ Stamp:

DISTRIBUTOR:

Labino AB shall not be held liable for any errors or omissions resulting from the test procedures that were used in validating performance of any Labino AB product nor for unforeseen errors or omissions in digital or printed material.

www.labino.com

