

LABINO NDT

CATALOG 23A



NEW PRODUCTS!

MidBeam 2.0
IP68 WATERPROOF

Apollo 1.0
WIRELESS

Athena
AEROSOL SPRAY
ACCESSORY TO
MIDBEAM 2.0



ISO 9001:2008
CERTIFIED COMPANY



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DEAR NDT PROFESSIONAL,

Thank you for your interest in the Labino products. 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. In this catalog you will find all our latest product launches as well as our best-selling NDT products based on LED and MPXL technologies. We are confident you will enjoy using our new generation of lights that are much lighter and more compact than many comparable products on the market today, with many unique features and higher safety standards. Labino remains committed to environmentally friendly technologies and materials. All Labino products comply with the RoHS Directive and REACH.



The NDT Industry has implemented new standards regarding LED products. The new ASTM E3022-15 standard that came into effect on September 1st 2015 has been specifically designed to improve the commitment of manufacturers to safety for LED products. Labino complies fully with ASTM E3022. Labino has also available customized products that comply with engineering specifications published by renowned manufacturers such as Rolls-Royce i.e. RRES 90061. For a detail summary of Labino's compliance with all relevant standards please visit page 5.

Innovation has always been an integral part of the Labino culture. We are very proud and excited to introduce to the market the first IP68 waterproof UV handheld product, the MidBeam 2.0 as well as Apollo 1.0, a UV and white light meter with a wireless sensor. We have also launched a "must have" solution for NDT technicians, the aerosol spray accessory Athena, a tool that complies with ASTM E3022-15. Such products reflect our desire to collaborate for new ideas with end user companies that share our vision of innovation, quality and service. MidBeam 2.0 is a product specifically designed following requests from the Aerospace and Oil & Gas industries. Be part of this process. Help us to understand your future needs, give us your feedback. Feel free to e-mail me directly for any comments that you may have at lisel.athanasiadis@labino.com

Over our 23 year history our core belief in quality earned us the trust of the thousands of NDT professionals around the world. Our commitment to our clients is that we will never compromise on quality. We fully respect and appreciate the investments our clients make in our products and the trust they show to the Labino brand. Therefore, we would like to caution end users and encourage them to order Labino products from authorized distributors only. Authorized distributors are listed on our website www.labino.com/distributors and only they have access to technical advice, product information and service training. We have identified many sellers of NDT products around the world that have pictures and product descriptions of our products on their websites but are not authorized to sell Labino products nor do they carry any authentic Labino products. Labino products are supplied with a Labino certificate of compliance as applicable (page 5), signed by a Labino Senior Technician and carry a unique Labino serial number.

Our guiding values embrace our desire to continuously bring to the NDT Technicians fresh ideas and solutions and launch new premium products, commit to excellent service, listen to customer needs, and be able to deliver. You should expect nothing less.

My kindest regards to you and your team,

A handwritten signature in black ink, appearing to read 'Lisel Athanasiadis'.

Lisel Athanasiadis
Managing Director

LABINO LED LAMPS

Labino LED products weigh much less than many comparable products on the market today

Labino offers a complete range of LED lamps, equipped with a variety of features, to satisfy the needs of all black lights users. Labino products are designed to offer convenience without compromising performance. The key characteristic of all these products is that they weigh less than many comparable products on the market today.

Labino's LED overhead inspection system, Galaxy, has 12 UV LEDs, weighs 2.2 kg and is a modular design that makes it possible to mount together as many units as you would like to cover the inspected area. Labino's bestselling product, BigBeam, is a powerful tool equipped with 9 UV LEDs and its battery model weighs just 1.7 kg. BigBeam Helios is equipped with a new generation LED that generates 40-60% higher intensity than the regular BigBeam, depending on the beam. All BigBeam models comply with ASTM E3022.

Each MidBeam 2.0 carries 4 UV LEDs and weighs just 781 grams (1.7 lbs), making its battery version a useful tool for inspecting even the most difficult structures. The MidBeam 2.0 Hermes is especially designed for users in the Aerospace industry, carries a maximum intensity of 4 000 $\mu\text{w}/\text{cm}^2$ and does not carry a white light LED for after inspection. The Zeus version carries an approximate intensity of 5 000 $\mu\text{w}/\text{cm}^2$ and is equipped with a white light LED for after inspection. All MidBeam 2.0 models comply with ASTM E3022. MidBeam 2.0 Hermes complies with both ASTM E3022 and the Rolls-Royce engineering specification RRES 90061. The new Spraycan accessory "Athena" can be used with any MidBeam 2.0 model and still be in compliance with ASTM E3022.

Our torches (UVG2/3) and headlights (UVG4/5) carry one UV LED each and provides the choice of a white light block filter (UVG3 and UVG5) or simply more visible light with clear glass filter (UVG2 and UVG4). The UVG3 Midlight, UVG3 Floodlight and UVG5 Midlight models are in compliance with ASTM E3022.

For a detail summary of Labino's compliance with all relevant standards please visit page 5.

ACCESSORIES FOR MIDBEAM 2.0 AND BIGBEAM

Labino has developed several accessories and support systems to make your job easier and protect your lights. For our best-selling LED products, the Labino MidBeam 2.0 and the Labino BigBeam, we have five products to present. *The Flexible Arm*, a product that can position your MidBeam 2.0 or BigBeam at your choice of height and angle with a unique bracket for the power supply unit. Our *Handle Adaptor* for the BigBeam makes it possible for you to mount the BigBeam on the Flexible Arm. We have also created for you a *Rubber Bumper* for the MidBeam 2.0 to increase the durability of your unit and avoid metal to metal contact. A *Protection Bracket* for your power supply unit is now also available to increase durability and avoid them being damaged from contact with heavier objects. *Aerosol spray accessory "Athena"* adjusts on all MidBeam 2.0 models and provides a durable solution compliant with ASTM E3022.



FLEXIBLE ARM FOR MIDBEAM 2.0 AND BIGBEAM



RUBBER BUMPER FOR MIDBEAM 2.0



PROTECTION PSU BRACKET FOR MIDBEAM 2.0 AND BIGBEAM



HANDLE ADAPTOR FOR BIGBEAM



AEROSOL SPRAY ACCESSORY ATHENA FOR MIDBEAM 2.0

SUMMARY OF FEATURES AVAILABLE WITH EACH LED MODEL

Available features	Galaxy	BigBeam Standard	BigBeam Helios	BigBeam Aerospace RRES 90061	MidBeam 2.0 Zeus	MidBeam 2.0 Hermes	Torches UVG2 / UVG3	Headlights UVG4 / UVG5
Number of UV LEDs	I2	9	9	9	4	4	I	I
Weight	2.2 kg (4.85 lbs)	Mains: 1.2 kg (2.64 lbs) Battery: 1.7 kg (3.74 lbs)	Mains: 1.2 kg (2.64 lbs) Battery: 1.7 kg (3.74 lbs)	Mains: 1.2 kg (2.64 lbs) Battery: 1.7 kg (3.74 lbs)	Mains: 732 grams (1.6 lbs) Battery: 781 grams (1.7 lbs)	Mains: 732 grams (1.6 lbs) Battery: 781 grams (1.7 lbs)	211 grams (7.4 oz)	271 grams (9.4 oz)
No handle	✓	✓	✓	✓				
Pistol handle	✓	✓	✓	✓	✓	✓		
Battery	✓	✓	✓	✓	✓	✓	✓	✓
Mains	✓	✓	✓	✓	✓	✓		
White light block filter	✓	✓	✓	✓	✓	✓	No / Yes	No / Yes
Spotlight Intensity *							>25 000 $\mu\text{W}/\text{cm}^2$ >20 000 $\mu\text{W}/\text{cm}^2$	>25 000 $\mu\text{W}/\text{cm}^2$ >20 000 $\mu\text{W}/\text{cm}^2$
Midlight Intensity *	Refer to page 6	>6 000 $\mu\text{W}/\text{cm}^2$	>8 500 $\mu\text{W}/\text{cm}^2$	\approx 4 000 $\mu\text{W}/\text{cm}^2$	\approx 5 000 $\mu\text{W}/\text{cm}^2$	\approx 4 000 $\mu\text{W}/\text{cm}^2$	>10 000 $\mu\text{W}/\text{cm}^2$ >8 000 $\mu\text{W}/\text{cm}^2$	>10 000 $\mu\text{W}/\text{cm}^2$ >8 000 $\mu\text{W}/\text{cm}^2$
Floodlight Intensity	Refer to page 6	>3 500 $\mu\text{W}/\text{cm}^2$	>5 500 $\mu\text{W}/\text{cm}^2$				>2 500 $\mu\text{W}/\text{cm}^2$ >2 000 $\mu\text{W}/\text{cm}^2$	
Spotlight beam >1 200 $\mu\text{W}/\text{cm}^2$ *							\varnothing 30 mm (1.2 ")	\varnothing 30 mm (1.2 ")
Midlight beam >1 200 $\mu\text{W}/\text{cm}^2$ *	265 mm \varnothing 230 mm (10.4 " \varnothing 9.1 ")	\varnothing 270 mm (10.6 ")	\varnothing 275 mm (10.8 ")	\varnothing 250 mm (9.8 ")	\varnothing 200 mm (7.9 ")	\varnothing 190 mm (7.5 ")	\varnothing 100 mm (3.9 ")	\varnothing 100 mm (3.9 ")
Floodlight beam >1 200 $\mu\text{W}/\text{cm}^2$ *	300 mm \varnothing 290 mm (11.8 " \varnothing 11.4 ")	\varnothing 310 mm (12.2 ")	\varnothing 330 mm (13.0 ")				\varnothing 130 mm (5.1 ")	
100 V – 230 V	✓	✓	✓	✓	✓	✓	✓	✓
Available as a kit		✓	✓	✓	✓	✓	✓	✓

* Approximate values at a distance of 38 cm (15 inches)

\varnothing Diameters of an ellipse shaped beam

LABINO'S COMPLIANCE WITH RELEVANT ASTM AND ISO STANDARDS AS WELL AS INDUSTRY ENGINEERING SPECIFICATIONS

LABINO AB LED UV LIGHTS	Main Characteristics			In compliance with ASTM/ISO standards:	In compliance with US Air Force Engineering Specifications:	In compliance with Pratt & Whitney Engineering Specifications:	In compliance with The Boeing Co's Engineering Specifications:	In compliance with Rolls-Royce Engineering Specification (RRES 90061):
	Built in White light LED	Built in Dimmer	Intensity at 38 cm (15")					
Galaxy Midlight with CP F605	✓	✓	1 500 – 7 000 µW/cm ²	ASTM E3022-15 ASTM E1417-13 ASTM E1444-12 ASTM E2297-15 ISO 3059-12	✓	✓	✓	✓
Galaxy Midlight with CP F607	✓	✓	1 500 – 7 000 µW/cm ²		✓	✓	✓	✓
Galaxy Midlight with CP F608	✓	✓	1 500 – 7 000 µW/cm ²		✓	✓	✓	✓
Galaxy Midlight with CP F609			7 000 µW/cm ²		✓	✓	✓	✓
Galaxy Midlight with CP F610			4 500 µW/cm ²		✓	✓	✓	✓
Galaxy Floodlight with CP F605	✓	✓	1 000 - 5 000 µW/cm ²		✓	✓	✓	✓
Galaxy Floodlight with CP F607	✓	✓	1 000 – 5 000 µW/cm ²		✓	✓	✓	✓
Galaxy Floodlight with CP F608	✓	✓	1 000 – 7 000 µW/cm ²		✓	✓	✓	✓
Galaxy Floodlight with CP F609			5 000 µW/cm ²		✓	✓	✓	✓
BigBeam Standard Midlight			> 6 000 µW/cm ²		✓	✓	✓	✓
BigBeam Standard Floodlight			> 3 500 µW/cm ²	✓	✓	✓	✓	
BigBeam Helios Midlight			> 8 500 µW/cm ²	✓	✓	✓	✓	
BigBeam Helios Floodlight			> 5 500 µW/cm ²	✓	✓	✓	✓	
BigBeam Aerospace RRES 90061			≈ 4 000 µW/cm ²	✓	✓	✓	✓	
MidBeam 2.0 Zeus	✓		≈ 5 000 µW/cm ²	✓	✓	✓	✓	
MidBeam 2.0 Hermes			≈ 4 000 µW/cm ²	✓	✓	✓	✓	
UVG3 (Torch light) Midlight			> 8 000 µW/cm ²	✓	✓	✓	✓	
UVG3 (Torch light) Floodlight			> 2 000 µW/cm ²	✓	✓	✓	✓	
UVG5 (Head light) Midlight			> 8 000 µW/cm ²	✓	✓	✓	✓	

PLEASE NOTE: The above models are in compliance with the above ASTM and ISO standards as well as industry specifications as indicated on the table above irrespective of the power source (Battery or Mains).
CP stands for Control Panel.

LED BENCH LIGHT GALAXY

Galaxy's modular feature allows YOU to design the area to be covered.

You can now mount together as many Galaxies as you require to cover large areas

The Labino Overhead Inspection System Galaxy, based on LED technology, is more compact and weighs less than many comparable products on the market today. Each Galaxy unit weighs just 2.2 kilos (4.85 lbs)! Galaxy is also compact in size with 20 cm (7.87 inches) long, 15 cm (5.9 inches) wide and 4.1 cm (1.6 inches) high. It is designed for use on specialized benches for conducting FPI and MPI Inspections on metallic parts of all shapes and sizes. The light weight and compact size makes it is easy for the user of the bench to operate and move around the inspected area, if necessary.

The distinctive feature of this system is its modular design. Users whose inspection tasks require coverage of large areas can use this modular system to design their own covered areas. A user can expand the covered area by connecting together any number of Galaxy units required, either from the long or the short side. The Labino Galaxy is available as a Midlight and a Floodlight. Each Galaxy unit consists of 12 UV LEDs with each LED having an estimated life of 30 000 hours. This bench light is also equipped with a white light LED for after inspection.

- ♦ At full capacity Labino Galaxy generates an intensity greater than 7 000 $\mu\text{W}/\text{cm}^2$ for the midlight and greater than 5 000 $\mu\text{W}/\text{cm}^2$ for the floodlight, at 38 cm (15 "). It is filtered to emit almost no visible light.
- ♦ Full power is achieved instantly with the start button.
- ♦ The Galaxy is 100% free from UV-B. It is compliant with ASTM UV-A intensity and wavelength specifications for FPI and MPI. IP65 approved for dust and water jet.

SPECIAL FEATURES WITH STANDARD CONTROL PANEL (F605)

Dimmer The UV light can be dimmed down up to 20% of its full capacity. The operator can set the intensity to 5 steps of his or her choice. Midlight: 7,000 < 6,000 < 4,500 < 3,000 < 1,500 $\mu\text{W}/\text{cm}^2$

Floodlight: 5,000 < 4,000 < 3,000 < 2,000 < 1,000 $\mu\text{W}/\text{cm}^2$

Timer Avoid unnecessary burning time of the LEDs through a timer. Set the duration of your working session for: 0.5 hours, 1.0 hours, 2.0 hours, 4.0 hours, 8.0 hours.

Cooling System The heat generated from the LEDs is managed via a mechanical cooling system – no fans are necessary!

Remote Control The on/off, the dimmer, the white light and the timer operate remotely within a range of six meters.

Modular Design Able to connect as many units together as required to cover your area under inspection.

A WIDE SELECTION OF CUSTOMIZED CONTROL PANELS MAKES THE GALAXY COMPLIANT WITH ALL RELEVANT ASTM AND ISO STANDARDS AS WELL AS WITH PRIMES ENGINEERING SPECIFICATIONS

The **F607** has a dimming function with 250 steps for an extremely accurate measurement of the intensity. It also has a memory function that maintains the last intensity used even if the unit is turned off between sessions. The white light is operational via an ON / OFF button. The timer function is disabled.

The **F608** has a dimming function with 5 steps similar to the F605. It also has a memory function that maintains the last intensity used even if the unit is turned off between sessions. The white light is operational via an ON / OFF button as well as the timer.

The **F609** Operates the Galaxy UV light as simply ON / OFF. It maintains an approximate intensity of 7 000 for the Midlight and 5 000 for the Floodlight. This makes the Galaxy compliant with USAF and Pratt & Whitney requirements. All other functions listed with the F605 are disabled, including the white light LED.

The **F610** Operates the Galaxy Midlight UV light as simply ON / OFF but intensity is fixed at approximately 4 500. This makes the Galaxy compliant with USAF, Pratt & Whitney, Boeing and Rolls-Royce (RRES 90061) requirements. All other functions listed with the F605 are disabled, including the white light LED.

Please refer to page 5 for compliance with relevant standards.

MOUNT AS MANY GALAXIES TOGETHER AS YOU NEED!

3 GALAXIES MOUNTED TOGETHER



6 GALAXIES MOUNTED TOGETHER



OPTIONAL WAYS TO MOUNT GALAXIES TOGETHER

OPTION A: CONNECT ON THE LONG SIDE



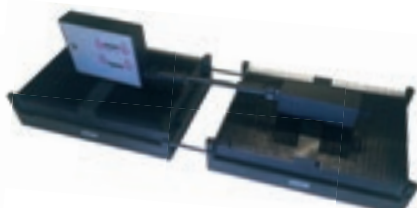
OPTION B: CONNECT ON THE LONG SIDE WITH 4 CM SPACE IN BETWEEN *



OPTION C: CONNECT ON THE SHORT SIDE



OPTION D: CONNECT ON THE SHORT SIDE WITH 4 CM SPACE IN BETWEEN *

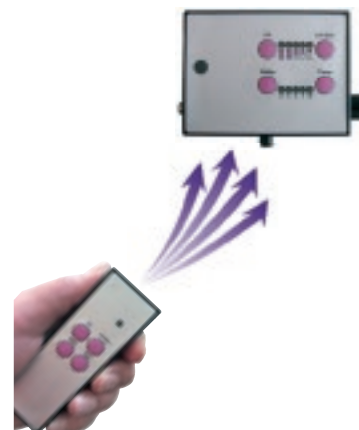


* To cover an even larger area, the units can be mounted in a distance of 4 cm (1.6 inches) from each other, without affecting the intensity of the system.



INCLUDED WITH "MOTHER" KIT

1. Power Cord (Version available EU::UK::US/AS::AU).
2. Power Supply Unit 100-240 V AC.
3. Remote Control.
4. Galaxy Control Unit.
5. Wall Bracket for Power Supply Unit.
6. DC Power Cord.
7. "L" bracket for Galaxy Control Unit & Galaxy Base Unit.
8. UV Blocking Goggles.
9. Four Chains for mounting the Galaxy Base Unit.
10. Four eye bolts for mounting the Galaxy Base Unit.
11. Galaxy Base Unit.



REMOTE CONTROL

Within a range of six meters remotely operate ON/OFF, the dimmer of the UV light, the white light and the timer.

LED: 12 up to 72
 Wavelength: 365 nm (peak)
 Estimated LED life time: 30 000 hours
 100% free from UV-B
 White light block filter
 Intensity: 1 500–7 000 $\mu\text{W}/\text{cm}^2$ at 38 cm
 Visible light: <1 Lux (0.09 fc)
 Length: 7.87 inches (20 cm)

Width: 5.9 inches (15 cm)
 Height: 1.6 inches (4.1 cm)
 Weight: 2.2 kilos (4.85 lbs)
 Dimmer: 5 steps (optional)
 Timer: 5 steps (optional)
 Cooling system: Mechanical without fan
 Remote control
 White light LED (optional)

BIGBEAM LED

Generates a large beam that covers large areas
Increase BigBeam intensity by 40-60% with Helios LED



BIGBEAM STANDARD

The smooth and large beam of this portable UV inspection light makes the BigBeam a useful tool for any inspection, either on the field or on a bench. BigBeam is widely used by manufacturers of stationary MPI benches. NDT professionals worldwide recognize Bigbeam's qualities, making it Labino's best-selling product for many years in a row. This lamp is based on LED technology and offers you a very narrow spectra with a peak wavelength of 365 nm. Each unit consists of 9 ultraviolet LEDs. Each LED's life is estimated at 30,000 hours. All electronics as well as LEDs are placed in a single housing with the diameter not exceeding 15.5 cm (6.1 inches).



BIGBEAM HELIOS

Labino Helios LED is the latest generation LED offered by Labino. If your objective is to maximize intensity, this is it. BigBeam Helios provides up to 60% higher intensity on the floodlight and 40% higher intensity on the midlight. The only difference between a BigBeam and a BigBeam Helios is intensity. All other specifications are the same.



BIGBEAM AEROSPACE RRES 90061

Labino BigBeam Aerospace RRES 90061 is especially designed to meet the manufacturer's requirement from Rolls-Royce. The differences between BidBeam Aerospace RRES 90061 and the regular BigBeam models is:

- ◆ Intensity approximately 4 000 $\mu\text{W}/\text{cm}^2$
- ◆ Extremely homogenous light beam
- ◆ Supplied with test report according to RRES 90061



BIGBEAM IS AVAILABLE IN THREE DIFFERENT VERSIONS WITH THE FOLLOWING PERFORMANCE CHARACTERISTICS

Output Characteristics	BigBeam Standard Version		BigBeam Helios Version		BigBeam Aerospace RRES 90061
	Floodlight	Midlight	Floodlight	Midlight	
Intensity *	>3 500 $\mu\text{W}/\text{cm}^2$	>6 000 $\mu\text{W}/\text{cm}^2$	>5 500 $\mu\text{W}/\text{cm}^2$	>8 500 $\mu\text{W}/\text{cm}^2$	\approx 4 000 $\mu\text{W}/\text{cm}^2$
Visible light *	<1 Lux / 0.09 fc	<1 Lux / 0.09 fc	<1 Lux / 0.09 fc	<1 Lux / 0.09 fc	\approx 1 Lux / 0.09 fc
Beam >1 200 $\mu\text{W}/\text{cm}^2$ *	\varnothing 310 mm (12.2")	\varnothing 270 mm (10.6")	\varnothing 330 mm (13.0")	\varnothing 275 mm (10.8")	\varnothing 250 mm (9.8")
Ultraviolet LED	Nine	Nine	Nine	Nine	Nine

* At a distance of 38 cm (15 inches)

In all BigBeam models the start function provides full power instantly. This product is IP65 approved for dust and water jet. BigBeam is 100% free from UV-B and each unit is equipped with a white light block filter which helps the lamp emit almost no visible light. Each unit is available with a certificate of compliance for ASTM E3022-2015 or RRES 90061 or both, depending on your choice of model.

YOUR CHOICE...

A. **Version:** Standard, Helios or Aerospace RRES 90061

B. **Power Source:** All BigBeam models are available as Battery and Mains (DUO) or just Mains. The DUO is battery operated, but it is possible to run the unit via mains while charging the battery. The battery has a running time of 3.5 hours (+/- 5%). Each DUO unit is equipped with a current regulator to keep the intensity steady when the battery fades. The mains model is equipped with a 2 meter long extendable cord although it is possible to order a longer customized version of your choice or buy a BigBeam on a cable winder for convenience. Total weight of the DUO model is 1.7 kilos (3.74 lbs) and of the Mains model 1.2 kilos (2.64 lbs). Both models (DUO and Mains) come with a pistol handle as a standard. Mounting brackets for fixed installations are optional.

C. **Beam:** BigBeam Standard and BigBeam Helios are available in two different beams, Floodlight and Midlight. BigBeam Aerospace RRES 90061 is available in a single beam.

D. **Accessories:** Add a carrying case, a cable winder or a friction arm for your convenience. A UV Block Visor is recommended for your protection.

E. **Plug Type:** EU or UK or US/AS or AU



INCLUDED WITH BIGBEAM MAINS
1. DC Power Cord
(Version available EU::UK::US/AS::AU).
2. Power Supply Unit 100-240 V AC.
3. BigBeam light with cord.
4. UV Goggles.



INCLUDED WITH BIGBEAM DUO
1. One Charger
(Version available EU::UK::US/AS::AU).
2. BigBeam light.
3. UV Goggles.



BIGBEAM MOUNTED WITH MOUNTING BRACKETS



BIGBEAM IN CASE



BIGBEAM ON FRICTION ARM



BIGBEAM ON FLEXIBLE ARM



BIGBEAM HELIOS ON A LABINO CABLE WINDER

LED: 9
Wavelength: 365 nm (peak)
Estimated LED life time: 30 000 hours
100% free from UV-B
White light block filter

Power supply: Battery and Mains (DUO) or just Mains (AC)
Housing diameter: 6.1 inches (15.5 cm)
Weight DUO: 1.7 kilos (3.74 lbs)
Weight Mains: 1.2 kilos (2.64 lbs)
Battery running time: 3.5 hours (+/- 5%)

MIDBEAM 2.0

NEW PRODUCT!

The perfect tool! An extremely robust, lightweight and compact UV inspection light. Choose between Zeus and Hermes. Provide an extremely uniform beam.



The Labino MidBeam 2.0, based on LED technology, is more compact and weighs less than many comparable products on the market today. The mains operated model weighs just 732 grams (1.6 lbs) and the battery operated model weighs just 781 grams (1.7 lbs)! MidBeam 2.0 is an extremely robust hand held lamp with four LEDs in a housing diameter of just 8 cm (3.15 inches), especially designed for heavy industries with very difficult operating environments. The MidBeam 2.0 is available in two different versions, Zeus and Hermes. All models are risk class 3.

MIDBEAM 2.0 ZEUS

The Zeus version generates an intensity of approximately 5 000 $\mu\text{W}/\text{cm}^2$ at 38 cm (15 inches) and is equipped with a white light LED for after inspection. Battery running time is two hours.



MAINS VERSION



- ✓ 4 UV LED's
- ✓ 1 White Light LED (optional)

- ✓ Position it on your flexible arm
- ✓ Your choice of cable length

MIDBEAM 2.0 HERMES

The Midbeam 2.0 Hermes differs from the Standard version as follows:

- A. The Hermes version does not have a white light LED for after inspection.
- B. The intensity of the Hermes version is adjusted to never exceed 4 000 $\mu\text{W}/\text{cm}^2$ at 38 cm (15 inches).
- C. The battery running time of the Hermes version is in excess of two hours.

The optics of this unit are specifically designed to meet the Rolls-Royce engineering specification RRES 90061.



BATTERY VERSION



- ✓ Operate while charging

- ✓ Batteries inside the handle
- ✓ Camera mount

MIDBEAM IS AVAILABLE IN TWO DIFFERENT VERSIONS WITH THE FOLLOWING PERFORMANCE CHARACTERISTICS

Output Characteristics	MidBeam 2.0 Zeus Version	MidBeam 2.0 Hermes Version
Intensity *	≈ 5 000 $\mu\text{W}/\text{cm}^2$	≈ 4 000 $\mu\text{W}/\text{cm}^2$
Visible Light *	<1 Lux / 0.09 fc	<1 Lux / 0.09 fc
Beam >1 200 $\mu\text{W}/\text{cm}^2$ *	Ø 200 mm (7.9 ")	Ø 190 mm (7.5 ")
Ultraviolet LED	Four	Four
White Light LED	One	Zero

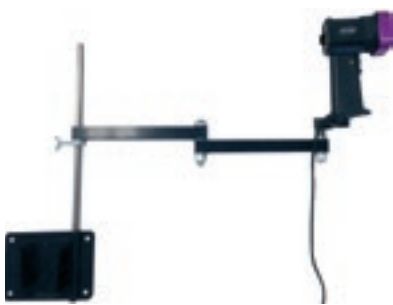
* At a distance of 38 cm (15 inches)

NEW FEATURES OF MIDBEAM 2.0

- ◆ **IP68 Waterproof classification:** Solids and liquids that often find their way into a light causing UV LEDs to burn cannot penetrate a Midbeam 2.0 unit.
- ◆ **Battery indicator:** Four colors: green, yellow, orange and red – signal the user when the batteries are over 75%, 50-75%, 25-50% and below 25% charged respectively. With less than 10% left the red signal starts flashing.
- ◆ **Operates while charging batteries:** The battery version can operate like mains while charging the batteries via a connector at the back of the head.
- ◆ **Aerosol spray accessory "Athena"** is an innovative accessory that is mounted on MidBeam 2.0 and allows the NDT Inspector to operate the spray can simultaneously with a strong UV light that is compliant with ASTM E3022. The light and compact characteristics of MidBeam 2.0 make this possible.
- ◆ **Flexible length:** Cable for mains is equipped with connectors for easy replacement and flexible length.
- ◆ Clear glass protection filter.

YOUR CHOICE...

- A. **Version:** MidBeam 2.0 Zeus or MidBeam 2.0 Hermes.
- B. **Power Source:** All MidBeam 2.0 models are available as Battery or Mains. Four batteries are supplied with each unit and two are needed to operate. The batteries are conveniently located inside the pistol handle, making the ergonomics of the unit stable, removing concerns of loose belts or battery boxes during inspections. Each unit is equipped with a current regulator in order to maintain the UV intensity constant even when the battery fades. The design of the mains version makes it easy for the operator to support the light with a common stand on a bench through the empty space in the handle. The location of the cable (coming out from below the handle) makes it easy to operate.
- C. **Accessories:** MidBeam 2.0 LED comes with a carrying case. Add a rubber bumper to protect your unit or a flexible arm for your convenience. A UV Block Visor is recommended for your protection.
- D. **Plug Type:** EU or UK or US/AS or AU



MIDBEAM ON FLEXIBLE ARM



MIDBEAM ON FRICTION ARM

LED: 4
 Wavelength: 365 nm (peak)
 Estimated LED life time: 30 000 hours
 100% free from UV-B
 White light block filter
 Power supply: Battery or Mains
 Housing diameter: 3.15 inches (8 cm)

Weight battery: 781 grams (1.7 lbs)
 Weight Mains: 732 grams (1.6 lbs)
 Battery running time:
 Zeus Version – 1.5 hours (+/- 5%)
 Hermes Version – 3 hours (+/- 5%)
 White light LED Standard Version: I
 Cooling system: Mechanical without fan
 Current regulator



INCLUDED WITH ALL MIDBEAM 2.0 BATTERY

1. External charger – two batteries can be charged simultaneously
2. 12 V charger for use in a vehicle
3. Power supply for charging while operating (Version available EU::UK::US/AS::AU)
4. Four Batteries (2 extra)
5. MidBeam 2.0 Light
6. UV Goggles
7. Carrying Case



INCLUDED WITH ALL MIDBEAM 2.0 MAINS

1. AC Power Cord (Version available EU::UK::US/AS::AU)
2. Power Supply Unit 100-240 V AC.
3. MidBeam 2.0 Light with Cord
4. UV Goggles
5. Carrying Case



AEROSOL SPRAY ACCESSORY ATHENA

NEW PRODUCTS!

NEW PRODUCTS!



ATHENA AEROSOL SPRAY ACCESSORY

PAGE 11



MIDBEAM 2.0

IP68 WATERPROOF

PAGE 10



APOLLO 1.0

WIRELESS

PAGE 16



NEW PRODUCTS!

LED TORCHES / LED HEADLIGHTS

Small, light and powerful for quick inspections / Compact, light and adjustable, frees your hands during inspections

UVG TORCH SERIES

The Labino UVG2 is a small-sized, lightweight, UV-A LED torch designed for quick inspections in “hard-to-reach” spots. The Labino UVG3 is the same torch equipped with a unique filter for applications where the amount of visible light is critical. This filter eliminates the white light from the lamp and reduces the glare reflected from shiny surfaces i.e. aluminum, when you use the lamp along with UV block goggles. The Labino Torch is also available as white light. The UVG3 Midlight and UVG3 Floodlight are in compliance with ASTM E3022-15.



UVG TORCHES ARE AVAILABLE IN TWO DIFFERENT VERSIONS WITH THE FOLLOWING PERFORMANCE CHARACTERISTICS

Output Characteristics	UVG2			UVG3		
	Spotlight	Midlight	Floodlight	Spotlight	Midlight	Floodlight
Intensity *	>25 000 $\mu\text{w}/\text{cm}^2$	>10 000 $\mu\text{w}/\text{cm}^2$	>2 500 $\mu\text{w}/\text{cm}^2$	>20 000 $\mu\text{w}/\text{cm}^2$	>8 000 $\mu\text{w}/\text{cm}^2$	>2 000 $\mu\text{w}/\text{cm}^2$
Visible light *	<8 Lux / 1.86 fc	<5 Lux / 0.46 fc	<2 Lux / 0.18 fc	<1 Lux / 0.09 fc	<1 Lux / 0.09 fc	<1 Lux / 0.09 fc
Beam >1 200 $\mu\text{W}/\text{cm}^2$ *	Ø 30 mm (1.2 ")	Ø 100 mm (3.9 ")	Ø 130 mm (5.1 ")	Ø 30 mm (1.2 ")	Ø 100 mm (3.9 ")	Ø 130 mm (5.1 ")

* At a distance of 38 cm (15 inches)



UVG HEADLIGHT SERIES

The Labino UVG4 is an LED Head Lamp designed to free the user’s hands during an inspection. The lamp can be adjusted in three different angles. The operator can switch the angles of the light during the inspection. The rubber bands are adjustable to fit helmets. The battery is located at the back and there are no cables hanging from the lamp. The Labino UVG5 is the exact same lamp equipped with a filter for applications where the amount of visible light is critical. This filter eliminates the white light from the lamp as in UVG3. The Labino Headlight is also available as white light. The UVG5 Midlight is in compliance with ASTM E3022-15.



UVG HEADLIGHTS ARE AVAILABLE IN TWO DIFFERENT VERSIONS WITH THE FOLLOWING PERFORMANCE CHARACTERISTICS

Output Characteristics	UVG4		UVG5	
	Spotlight	Midlight	Spotlight	Midlight
Intensity *	>25 000 $\mu\text{w}/\text{cm}^2$	>10 000 $\mu\text{w}/\text{cm}^2$	>20 000 $\mu\text{w}/\text{cm}^2$	>8 000 $\mu\text{w}/\text{cm}^2$
Visible light *	<8 Lux / 1.86 fc	<5 Lux / 0.46 fc	<1 Lux / 0.09 fc	<1 Lux / 0.09 fc
Beam >1 200 $\mu\text{W}/\text{cm}^2$ *	Ø 30 mm (1.2 ")	Ø 100 mm (3.9 ")	Ø 30 mm (1.2 ")	Ø 100 mm (3.9 ")

* At a distance of 38 cm (15 inches)



FEATURES

- ◆ UVG Torches and Headlights reach full power instantly. The on/off button is positioned at the back of the torch. Same applies for the headlights, the on/off button is positioned on the battery box at the back. Location of on/off button aims to prevent accidental activation.
- ◆ The length of the torch is 15.9 cm (6.3 inches) and weighs 211 grams (7.4 oz), including battery. Each headlight weighs 271 grams (9.4 oz), including battery.
- ◆ Each UVG light contains one ultraviolet LED that peaks at 365 nm. The life of each LED is estimated at 30,000 hours.
- ◆ Same batteries can be used for both torches and headlights. Each battery has a running time of 4.5 hours (+/- 5%) and can be recharged from a normal outlet or vehicle via a cigarette lighter connection. Each light comes with an extra battery.
- ◆ All UVG lights are equipped with a current regulator that keeps the UV intensity constant even when the battery fades.
- ◆ Certifications: IP65 approved for dust and temporary water jet.

DESIGN YOUR OWN UVG KIT WITH TORCHES

UVG Torches are available as a kit with a customized high quality water proof carrying case for your convenience and to protect the lamp. You can design your own kit based on your needs. Choose one or two torches in your kit.

- A. The Single Torch UVG LED kit contains the torch of your choice, one UVG2 LED torch or one UVG3 LED torch.
- B. The double Torch UVG LED kit can combine one UVG2 LED torch and one UVG3 LED torch OR two UVG2 LED torches OR two UVG3 LED torches. You can also combine a UVG torch (2 or 3) with a white light LED torch, perfect for general industrial post inspection use.

YOUR CHOICE...

- A. **Torch:** UVG2 (clear glass), UVG3 (white light block filter) or White Light
Headlight: UVG4 (clear glass), UVG5 (white light block filter) or White Light.
- B. **Beam:** UVG Torches are available in three different beams, Spotlight, Midlight and Floodlight. UVG Headlights are available in two different beams, Spotlight or Midlight.
- C. **Accessories:** Add a carrying case for convenience and design your own kit that includes one or two UVG torches (or a white light torch). Add a tripod to keep your torch still during inspection.
- D. **Plug Type:** EU or UK or US/AS or AU.



TORCH ON TRIPOD



- INCLUDED WITH TORCH**
1. One Charger for Normal Outlet (Version available EU::UK::US/AS::AU).
 2. One Charger for Vehicle
 3. Two Batteries (1 extra)
 4. UV Goggles.
 5. Belt Holster

- INCLUDED WITH HEADLIGHT**
1. One Charger for Normal Outlet (Version available EU::UK::US/AS::AU).
 2. One Charger for Vehicle
 3. Two Batteries (1 extra)
 4. UV Goggles.



- INCLUDED WITH SINGLE KIT**
1. Torch
 2. One Charger for Normal Outlet (Version available EU::UK::US/AS::AU).
 3. One Charger for Vehicle
 4. Two Batteries (1 extra)
 5. UV Goggles
 6. Belt Holster
 7. Carrying Case



- INCLUDED WITH DOUBLE KIT**
1. Two Torches
 2. One Charger for Normal Outlet (Version available EU::UK::US/AS::AU).
 3. One Charger for Vehicle
 4. Three Batteries (1 extra)
 5. UV Goggles
 6. Belt Holster
 7. Carrying Case

LED: I	Length: 6.3 inches (15.9 cm)
Wavelength: 365 nm (peak)	Weight: 211 grams (7.4 oz)
Estimated LED life time: 30 000 hours	Battery running time: 4.5 hours (+/- 5%)
100% free from UV-B	Recharge from normal outlet or vehicle
Clear glass filter or white light block filter	Current regulator

APOLLO 1.0 NEW PRODUCT!

*Measures UV and Visible light via a wireless sensor
Traceable to NIST and SP*

Labino Apollo 1.0 Radiometer/Photometer is an instrument for accurate measurement of UV-A irradiation and visible illumination. Extra engineering effort is taken to make an accurate measurement of visible light emission from a UV-A lamp by incorporating a superior band pass filter stack containing only non-fluorescent filters. The instrument provides fast measurement as it offers auto ranging and concurrent measuring of visible light and UV-A irradiation.

Apollo 1.0 is traceable to NIST (USA's National Institute of Standards and Technology).

ADVANTAGES OVER TRADITIONAL METERS

A. WIRELESS: Sensor measurements and transmission of data is done via Bluetooth. The wireless sensor enables the user to measure from a distance of up to five meters. This feature ensures that the sensor unit is stable and no movement occurs from connecting cables during measurement.

B. CALIBRATIONS NEED NOT DISRUPT YOUR OPERATIONS:

A user can buy a double kit (1 reader, 2 wireless sensor units) and only send one sensor for calibration, while making use of the other, so that operations are never disrupted. Each sensor unit has both a UV and White light sensors incorporated on it. Please note that Aerospace companies that are audited by Nadcap must send in both the reader and the sensor when calibrating.

C. EASE OF USE: The Apollo Meter is ergonomic and easy to use due to its light weight chassis, wireless sensor unit and compact size. Light in the display comes on automatically when measuring in a dark area and it provides an auto ranging for visible light and UV light simultaneously. The meter features both hold and peak functions.

- ◆ Hold function: By pressing the Hold button the present value is stored.
- ◆ Peak function: By pressing the Peak button the sensor automatically stores the highest value measured.

SPECTRAL SPECIFICATIONS OF SENSORS ARE AS FOLLOWS:

UV Light Sensor	White Light Sensor
Spectral Range: 300 nm to 400 nm	Spectral Range: 400 nm to 700 nm
Sensitivity Region (FWHM): 325 nm to 395 nm	Sensitivity Region (FWHM): 485 nm to 600 nm
Operation Range: 0 to 50,000 $\mu\text{W}/\text{cm}^2$	Operation Range: 0 to 10 000 Lux (1 000 fc)
Accuracy: UV Light: +/- 4 %	Accuracy: Visible Light: +/- 3 %



- ✓ Wireless Sensor measures up to a distance of 16 feet (5 meters) from the Reader unit



- ✓ Red LCD screen for easy readings
- ✓ Peak function identifies highest reading



- ✓ Reader unit powered by three "AA" batteries that last 100 hours of active measurement
- ✓ Sensor unit powered by one "1/2 AA" lithium battery that lasts 600 hours of active measurement

LABINO MPXL LAMPS

More power, less weight and easy to operate designs to make your job easier and more efficient

Labino MPXL lamps are available with a variety of features to give operators of black lights the opportunity to choose what best suits their needs. The choice of a model depends on the conditions under which an operator is using these lamps. Does an inspection need to cover small areas or large areas? Does it involve difficult structures and therefore a lighter lamp is required? Do they simply need more power or less power can suffice? We can accommodate all needs! Simply choose among the available features below.

Labino MPXL lights utilize 50 W and 35 W lamps. Depending on the model, choose between battery operated or mains operated or choose both (SuperXenon). Labino's new model, the SuperXenon, can carry a powerful 50 W lamp generating very high intensity and the docking battery can be switched into mains, and vice versa. Both power supplies can be used on the same unit. Most models are less than 3 kg and are available with your choice of "no handle" (for easy mounting on benches or other areas), a "top handle" or a "pistol handle". All Labino MPXL models are available with spotlight, midlight or floodlight beam. Voltage can be adjusted for use anywhere in the world. To protect your equipment we recommend you purchase a carrying case for your lamp.

UV is dangerous – don't forget to protect yourself. UV block goggles are included in all MPXL lights. You can also purchase faceshields for better protection (see page 21).

Available features	SuperXenon	Compact	DUO	TrAc Light	TrAc Light PRO
50W	✓				
35W	✓	✓	✓	✓	✓
One housing	✓	✓		✓	
Two housings (luminary / ballast)			✓		✓
Weight	Mains 1.4 kg Battery 1.9 kg	2.25 kg	Luminary part 1.2 kg Ballast part 1.5 kg	2.32 kg	Luminary part 1.1 kg Ballast part 2.4 kg
No handle	✓	✓	✓	✓	✓
Top handle	✓	✓	✓	✓	✓
Pistol handle	✓	✓	✓	✓	✓
Battery	✓			✓	✓
Mains	✓	✓	✓		
Spotlight Intensity *	45 000 µW/cm ² (35 W) 60 000 µW/cm ² (50 W)	45 000 µW/cm ²	45 000 µW/cm ²	45 000 µW/cm ²	45 000 µW/cm ²
Midlight Intensity *	12 000 µW/cm ² (35 W) 17 000 µW/cm ² (50 W)	12 000 µW/cm ²	12 000 µW/cm ²	12 000 µW/cm ²	12 000 µW/cm ²
Floodlight Intensity *	4 000 µW/cm ² (35 W) 5 800 µW/cm ² (50 W)	4 000 µW/cm ²	4 000 µW/cm ²	4 000 µW/cm ²	4 000 µW/cm ²
Spotlight beam >1 200 µW/cm ² *	Ø 125 mm (35 W) Ø 140 mm (50 W)	Ø 125 mm	Ø 125 mm	Ø 125 mm	Ø 125 mm
Midlight beam >1 200 µW/cm ² *	Ø 200 mm (35 W) Ø 230 mm (50 W)	Ø 200 mm	Ø 200 mm	Ø 200 mm	Ø 200 mm
Floodlight beam >1 200 µW/cm ² *	Ø 250 mm (35 W) Ø 290 mm (50 W)	Ø 250 mm	Ø 250 mm	Ø 250 mm	Ø 250 mm
100 V – 230 V	✓	✓	✓	✓	✓
Available as kit	✓	✓	✓	✓	✓

* At a distance of 38 cm (15 inches)



TOP HANDLE



NO HANDLE



PISTOL HANDLE



BATTERY



SUPERXENON IN CASE

SUPERXENON UV 50 W AND UV 35 W

A light handheld device producing an extremely high intensity

Labino SuperXenon 50 W UV lamp, based on MPXL technology, is one of the most powerful handheld UV lamps on the market! The 50 W Xenon bulb generates an extremely high UV intensity, providing a very clear excitation of fluorescent material. This lamp makes it possible to search very large areas. You can use a floodlight reflector and still see excitations in daylight and at great distances.

The Labino SuperXenon lamp contains the electronics and bulb in a single housing and is available with no handle – add a mountain bracket instead, a pistol handle as well as a top handle. This product can be operated using two different power systems – battery as well as mains. The mains model weighs just 1.4 kilos (3.1 lbs) and the battery operated model weighs 1.9 kilos (4.2 lbs). The battery is a docking battery. You can easily replace to a new battery and charge the used one. You can also switch between a battery and mains on the same lamp by switching the docking devices – both fit to the same lamp. The mains model is equipped with a 2.8 meter (9 feet) long extendable cord. The Labino SuperXenon is also available with a 35 W UV bulb.

Each lamp obtains full power in 5-15 seconds and can be switched on and off whenever used, without pre-cooling. The SuperXenon is equipped with the same filter, filter frame, reflectors and pistol handle as the 135-series.

SUPERXENON IS AVAILABLE WITH BULBS OF 50W AND 35W WITH THE FOLLOWING PERFORMANCE CHARACTERISTICS

Output Characteristics	SuperXenon UV 50 Watt			SuperXenon UV 35 Watt		
	Spotlight	Midlight	Floodlight	Spotlight	Midlight	Floodlight
Intensity *	≈ 60 000 μw/cm ²	≈ 17 000 μw/cm ²	≈ 5 800 μw/cm ²	≈ 45 000 μw/cm ²	≈ 12 000 μw/cm ²	≈ 4 000 μw/cm ²
Visible light *	<13 Lux / 1.3 fc	<5 Lux / 0.46 fc	<2 Lux / 0.2 fc	<10 Lux / 1.0 fc	<3 Lux / 0.3 fc	<2 Lux / 0.2 fc
Beam >1 200 μW/cm ² *	Ø 140 mm	Ø 230 mm	Ø 290 mm	Ø 125 mm	Ø 200 mm	Ø 250 mm

* At a distance of 38 cm (15 inches)

YOUR CHOICE...

- A. **Bulb:** 50W or 35W.
- B. **Power Source:** Battery or Mains (both can be used on the same lamp by switching devices).
- C. **Beam:** Spotlight, Midlight or Floodlight.
- D. **Type of Handle:** No handle, a pistol handle or a top handle.
- E. **Accessories:** Add a carrying case, a mounting bracket or an alternate power source for your convenience (Battery or Mains). A UV Block Visor is recommended for your protection.

Power: 50 W or 35 W

Wavelength: 365 nm (peak)

Estimated bulb life time: 2 000 hours

Power supply: Battery or Mains (AC)

Length: 25 cm (9.8 inches)

Housing diameter: 15.5 cm (6.1 inches)

Weight Mains: 1.4 kilos (3.1 lbs)

Weight Battery: 1.9 kilos (4.2 lbs)

Battery running time: 1 hours (+/- 5%)

Current regulator

Top handle, No handle or Pistol handle

COMPACT AND DUO UV 35 W

High intensity and great convenience

Labino Compact and Duo UV lamps are based on MPXL technology and are operated via mains. These 35 W UV lamps carry a very high UV intensity, creating extreme excitation of fluorescent material, which makes it possible to see things, in daylight and at great distances.

The Labino Compact lamp contains a trigger ballast (electronics) and a bulb in a single housing, making it easier for the operator to use and move around large inspection areas – it weighs 2.25 kilos (5 lbs).

The Labino Duo is a two-part lamp consisting of a light weight luminary unit and a ballast (electronics) unit. The luminary unit weighs just 1.2 kilos (2.6 lbs) and works best for time consuming and repetitive inspections within the same location. The ballast unit weighs 1.5 kilos (3.3 lbs). This product is accompanied with two cables, a 3.0 meter cable that connects the luminary unit with the ballast unit and a 2.0 meter cable for the mains.

Each lamp obtains full power in 5-15 seconds and can be switched on and off whenever used, without pre-cooling. It is unaffected by magnetic fields and can be used outdoors, even in the rain, as the lamp is IP65 certified.

COMPACT AND DUO ARE AVAILABLE WITH THE FOLLOWING PERFORMANCE CHARACTERISTICS

Output Characteristics	Labino Compact & Duo		
	Spotlight	Midlight	Floodlight
Intensity *	≈ 45 000 μW/cm ²	≈ 12 000 μW/cm ²	≈ 4 000 μW/cm ²
Visible light *	≈ 10 Lux / 1.0 fc	≈ 3 Lux / 0.3 fc	≈ 2 Lux / 0.2 fc
Beam >1 200 μW/cm ² *	Ø 125 mm	Ø 200 mm	Ø 250 mm

* At a distance of 38 cm (15 inches)

YOUR CHOICE...

- A. **Beam:** Spotlight, Midlight or Floodlight
- B. **Type of Handle:** No handle (add mounting brackets instead), a pistol handle or a top handle
- C. **Accessories:** Add a carrying case or a mounting bracket for your convenience. A UV Block Visor is recommended for your protection.

Power: 35 W
 Wavelength: 365 nm (peak)
 Estimated bulb life time: 2 000 hours
 Power supply: Mains operated
 Length Compact: 24 cm (9.4 inches)
 Length DUO:
 Luminary: 15 cm (5.9 inches)
 Ballast: 19 cm (7.5 inches)

Housing diameter: 15.5 cm (6.1 inches)
 Weight Compact: 2.25 kilos (5 lbs)
 Weight DUO: Luminary 1.2 kilos (2.6 lbs)
 Ballast 1.5 kilos (3.3 lbs)
 Top handle, No handle or Pistol handle



COMPACT 135 UV
(MOUNTING BRACKETS)



COMPACT H135 UV
(TOP HANDLE)



COMPACT PH135 UV
(PISTOL HANDLE)



DUO S135 UV
(MOUNTING BRACKETS)



DUO OSH135 UV
(TOP HANDLE SHORT)



DUO PSI35 UV
(PISTOL HANDLE SHORT)



TRAC LIGHT



TRAC LIGHT PRO



TRAC LIGHT IN CASE



TRAC LIGHT PRO IN CASE

TRAC LIGHT AND TRAC LIGHT PRO UV 35 W

High intensity and portability!

Labino TrAc Light and TrAc Light PRO are based on MPXL technology and are battery operated. Each unit is equipped with a 35 W lamp that creates a very robust UV intensity.

The Labino TrAc Light lamp contains the trigger ballast (electronics), battery and bulb in a single housing. It weighs 2.32 kilos (5.1 lbs). The battery has a running time of 1.3 hours and each unit is equipped with a current regulator to keep the intensity stable when the battery fades.

The Labino TrAc Light PRO is a two-part lamp consisting of a light weight luminary unit and a ballast (electronics) unit. The luminary unit weighs just 1.1 kilos (2.4 lbs) and the ballast unit weighs 2.4 kilos (5.3 lbs). The battery has a running time of 2.5 hours, almost twice as much as the TrAc Light.

Each lamp obtains full power in 5-15 seconds and can be switched on and off whenever used, without pre-cooling. It is unaffected by magnetic fields and can be used outdoors, even in the rain, as the lamp is IP65 certified.

TRAC LIGHT AND TRAC LIGHT PRO ARE AVAILABLE WITH THE FOLLOWING PERFORMANCE CHARACTERISTICS

Output Characteristics	Labino TrAc Light & TrAc Light PRO		
	Spotlight	Midlight	Floodlight
Intensity *	≈ 45 000 μw/cm ²	≈ 12 000 μw/cm ²	≈ 4 000 μw/cm ²
Visible light *	<10 Lux / 1.0 fc	<3 Lux / 0.3 fc	<2 Lux / 0.2 fc
Beam >1 200 μW/cm ² *	Ø 125 mm	Ø 200 mm	Ø 250 mm

* At a distance of 38 cm (15 inches)

YOUR CHOICE...

- A. **Beam:** Spotlight, Midlight or Floodlight
- B. **Type of Handle:** No handle (add mounting brackets instead), a pistol handle or a top handle
- C. **Accessories:** Add a carrying case or a mounting bracket for your convenience. A UV Block Visor is recommended for your protection.

Power: 35 W	Weight TrAc Light: 2.32 kilos (5.1 lbs)
Wavelength: 365 nm (peak)	Weight TrAc Light PRO:
Estimated bulb life time: 2 000 hours	Luminary 1.1 kilos (2.4 lbs)
Power supply: Battery	Ballast 2.4 kilos (5.3 lbs)
Length TrAc Light: 24 cm (9.4 inches)	TrAc Light battery running time:
Length TrAc Light PRO:	1.3 hours (+/- 5%)
Luminary: 15 cm (5.9 inches)	TrAc Light PRO battery running time:
Ballast: 19 cm (7.5 inches)	2.5 hours (+/- 5%)
Housing diameter: 15.5 cm (6.1 inches)	Current regulator
	Top handle, No handle or Pistol handle

ACCESSORIES AVAILABLE FOR EACH LIGHT

Accessories		MPXL Lights	LED BigBeam	LED MidBeam 2.0	LED Torches	LED Head Lights
UV Block Visor		✓	✓	✓	✓	✓
UV Block Goggles Santa Cruz		✓	✓	✓	✓	✓
UV Block Goggles Armamax *		✓	✓	✓	✓	✓
UV Block Goggles XC		✓	✓	✓	✓	✓
Aerosol Spray Accessory Athena				✓		
Flexible Arm			✓	✓		
Friction Arm		✓	✓	✓		
Tripod					✓	
Handle Adaptor			✓			
Mounting Yoke and Brackets for stationary mounting		✓	✓			
Protection PSU Bracket			✓	✓		
Cable Winder			✓			
Rubber Bumper				✓		
Protection Clear Glass Filter		✓	✓			
Customized Carrying Case		✓	✓	✓	✓	

* Included with all MXPL Lights, Galaxy, BigBeam and MidBeam



6 BOTTLES LABINOIL 25 ML



UVG2 SPOTLIGHT TORCH



LABINOIL DYE KIT



LABINOIL 1 LITRE

LABINOIL DYE

Leak detection made fast and easy!

A complete leak detection kit with fluorescent dye and UV torch

Labinoil dye is a fluorescent dye and should be used with petroleum based lubricants. The fluorescence in the Labinoil is a reaction that is activated by irradiating with UV-light. You neither need to clean the engine before or after the engine leakage test, nor to empty the engine oil.

Labino UVG2 Spotlight Torch is a powerful LED light source used together with Labinoil and it aids to activate such reaction.

The kit includes six 25 ml bottles of Labinoil dye and one UVG2 Spotlight LED torch (specifications on page 14) as well as accessories (two chargers including vehicle charger, UV block goggles, belt holster and two batteries) and a carrying case.

The Labinoil dye can be purchased in different volumes:

- 25 ml (six bottles in one package)
- 1 litre
- 5 litre
- 25 litre

Other sizes are also available upon request. Please contact your distributor for a quote.

CUSTOMIZATIONS / SERVICE AGREEMENTS

Labino offers its customers the possibility to request customizations on existing Labino products and accessories thus fulfilling any unique needs arising.

Our customized offerings include a variety of customized installation solutions to assist the NDT Technicians use the Labino UV lights in a convenient and productive manner.

Acknowledging how damaging disruptions are in the inspection process, Labino also offers full scale service agreements for ease of mind.

CUSTOMIZATIONS ON LED PRODUCTS

We are conscious of the fact that companies might have their own internal guidelines and in many occasions are required to follow engineering specifications unique to their company. At Labino, we are able to the extent possible, make modifications, add new features, remove existing features, on existing Labino LED products to make them fulfil the exact requirements of our customers.

Please address your requests to lisel.athanasiadis@labino.com.

INSTALLATION SOLUTIONS

Customized solutions can also be provided when installing Labino lights in industrial projects.

We have the capability to design and construct large scale structures involving lights for fixed installations such as the Galaxy and the BigBeam. We would like the experience of using Labino lights to be a productive one, utilizing the full potential of the lights you invest in.

Please send a description of your project to marios.athanasiadis@labino.com.

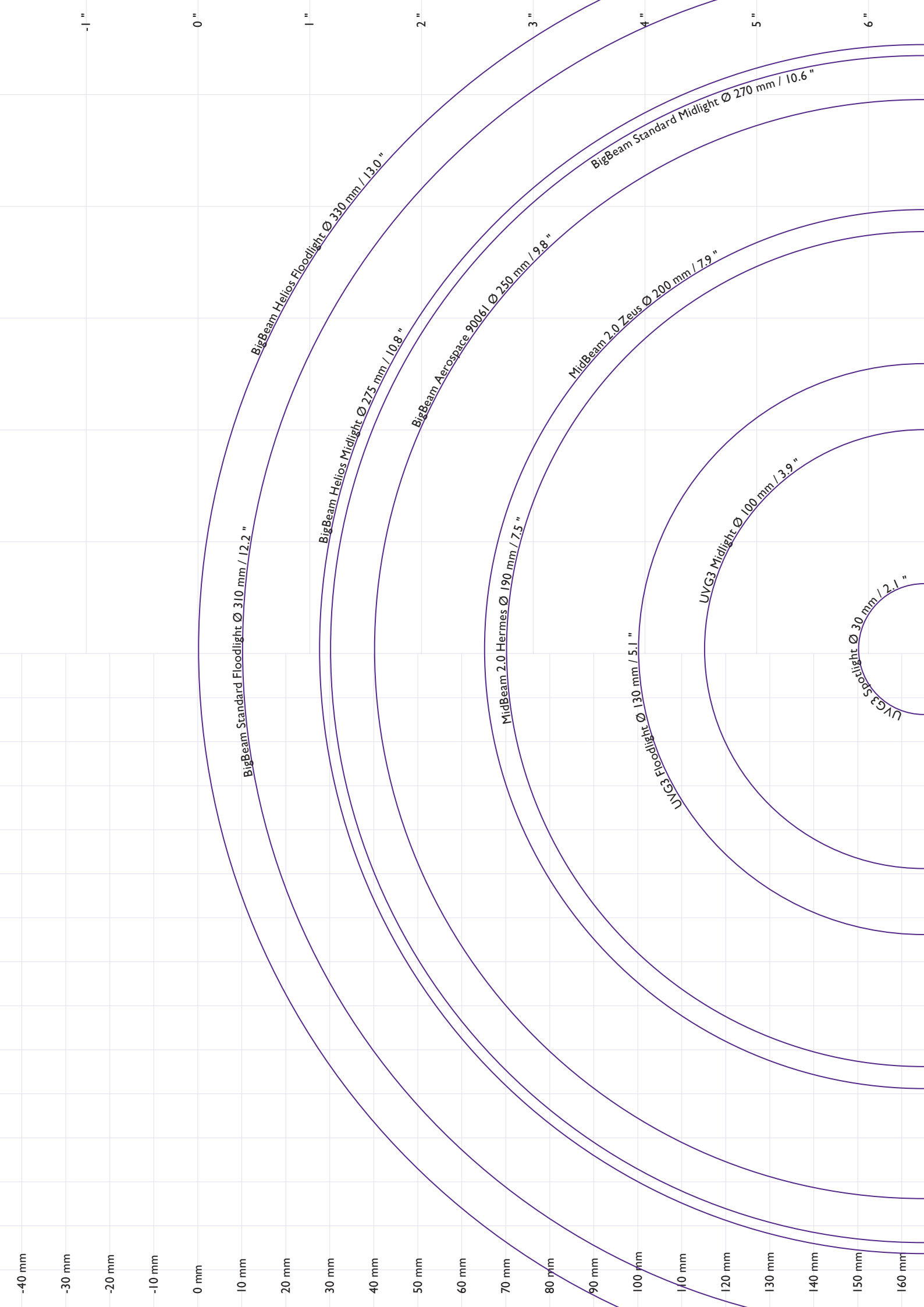
SERVICE AGREEMENTS

At Labino we understand that having to disrupt the inspection process for long periods of time can be damaging. Labino offers special service agreements to large industrial customers for ease of mind. By making Labino your brand of choice we guarantee that your operations will not be disrupted beyond to what is considered ordinary.

AMONG OTHER THINGS, WE OFFER:

- ◆ Products with extended warranty periods.
- ◆ Backup units to be kept onsite for use in the event of damaged units.
- ◆ Immediate attention by a service center near you.

Please address your enquiries to marios.athanasiadis@labino.com.





**Illuminate
with a Labino
UV Light**

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