

We provide the best warranty terms in the industry, and we maintain a growing UV-A product line, demonstrating our commitment to innovation, quality, and our customers

LABINO NDT

We are the standard



Accred. no. 10391 Calibration ISO/IEC 17025

We are an ISO/IEC 17025 calibration lab with scope in UV-A, blue and white light meter calibrations Auditor: SWEDAC



We are a manufacturer of explosion proof products as per ISO 80079-34 Auditor: INTERTEK

We manufacture UV-A lights that are tested to comply with all relevant ASTM and ISO Standards as well as industry specifications



www.labino.com www.labinonorthamerica.com



Labino AB 50 Countries – 80 Distributors – 25 Service Centers – 12 Calibration Centers





Contents

	Introduction	4
	LABINO UV-A LED LAMPS	5
	Summary of features	6
	Summary of ASTM, ISO and PRIMES compl	iance 8
	FLASHLIGHT UV-A	9
	UVG3 2.0 Series	9-12
	HEADLIGHT UV-A	13
-	UVG5 2.0 Series	13-14
	HANDHELD UV-A	15
	MB 3.0 Series (Zeus, Hermes, Selene and Atl	as) 15-18
1	MB PRO	19
/	Hercules Ex	22-25
	Inspector Kits	27-29
	BB 2.0 Series (Ikaros, Helios and Artemis)	38-42
	OVERHEAD UV-A	44
	GX Series (Orion REMOTE, Orion UV & WH and Orion	^{uv}) 44-50
ler Ler	Cosmos	51-53
	LABINO RADIOMETER/PHOTOMETER	54
•	Apollo 3.0	54-56
	OLYMPOS MEASUREMENT STAND	57-58
	LIST OF LABINO PART NUMBERS	59





Warm greetings to you from the Labino team, the leading manufacturer of high quality UV Inspection lights and measurement instruments.

Labino is the only company in the world that focuses exclusively on developing UV lights. UV lights is not just another division for us. We are not distracted by manufacturing mag benches, chemicals, FPI lines, boxes or anything else. We have developed a complete product line of UV lights for NDT professionals, with one mission and one mission only, to offer the best and most durable product portfolio in the world that can be used in the toughest working conditions anywhere. We seek to continuously upgrade de Tulmont (FRANCE), Hinckley (U.K), Milan (ITALY), Kaohsiung City (TAIWAN) and Sydney (AUSTRALIA). All calibration centers follow a specific process proprietary to Labino, all have the same equipment, and all receive the same training. We do not allow comparison calibrations at any Labino authorized calibration center.

Labino follows closely, and its products are tested to comply with, a variety of Industry standards such as ASTM E3022-18 and ISO 3059-12, as well as PRIMES requirements such as Rolls-Royce RRES 90061, Airbus AITM6-1001, USAF, The Boeing Co., Pratt & Whitney and more.

Labino AB is an ISO 9001-2015 certified company and an

we offer a 4-year warranty on our new stationary lights and a 2-4 year warranty on our new portable lights

this product portfolio with newer technologies. That is why we offer a 4-year warranty on our new stationary lights and a 2-4 year warranty on our new portable lights.

All Labino products are manufactured in Sweden with many first to market products in our portfolio such us explosion proof UV lights, waterproof UV lights, penetrant resistant UV lights, wireless UV meters and more. Our products are available in over 50 countries via a wide network of 80 distributors, 25 service centers and 7 calibration centers.

Our Apollo dual meter calibration services are now offered in Chicago (USA), Houston (USA), Edmonton (CANADA), Stockholm (SWEDEN), Bilbao (SPAIN), St. Etienne

4

accredited Calibration Laboratory as per ISO/IEC 17025.

We would like to acknowledge that "field pictures" inside this catalog are the work of US Airforce. We would like to publicly thank the USAF Department of Public Affairs for granting us permission to use them.

If you have any questions, suggestions or complaints please contact me directly at lisel.athanasiadis@labino.com. My kindest regards to you and your team,

Lisel Athanasiadis

Managing Director



NDT Technician of the 108th Maintenance Squadron analyzes a part of the KC-135R Stratotanker aircraft using a Labino UVG5 headlight and a Labino BB 2.0 Series at Joint Base McGuire-Dix-Lakehurst, N.J., Sept. 22, 2019.



"We would like to acknowledge that "field pictures" inside this catalog are the work of US Airforce. We would like to publicly thank the USAF Department of Public Affairs for granting us permission to use them"



NDI Technician of the 5th Maintenance Squadron is testing for cracks and imperfections on B-52H Stratofortress parts and aircraft support equipment with a UVG3 UV light at Minot Air Force Base, N.D., Jan. 25, 2019.



NDT Industries

We find solutions to your specific needs:



All PRIMES have a choice of a Labino UV light that complies with their respective internal requirements

MARITIME

Durable and waterproof products tested to function in extreme weather conditions



DEFENSE Products build to comply with military specifications and standards

PIPELINES All Labino handheld lamps have a battery option for field inspections





Light and compact lights used 24 x 7 in a serial production environment

OIL & GAS Explosion proof products keep your personnel and physical assets safe

Labino LED Lamps

We thoroughly investigate the specific needs of every industry and design unique products that address them.

Labino offers a wide range of LED lamps, equipped with a variety of features, to satisfy the needs of UV light users in all industries engaging with magnetic particle and liquid penetrant inspections. Labino products are especially designed to offer convenience without compromising performance. The key characteristic of all Labino LED products is that they weigh less than many comparable products on the market today and they are extremely durable.

All our LED products have been tested against industry standards such as ASTM E3022-18, EN ISO 3059-12 and specifications of PRIMES such as Rolls-Royce RRES 90061 and Airbus AITM6-1001.

New LED Products

The NDT world now has Cosmos, a dedicated UV light for wash stations. A single Cosmos light covers with UV an area of 7×7 feet (2×2 meters). Ideal for large aerospace parts.

Those of you that like to own a very durable UV inspection light, we now have MB Pro. MB Pro comes with 3 years warranty and is available with a variety of UV intensities. MB Pro Selene and MB Pro Atlas have UV intensities in excess of 9 000 μ W/cm². MB Pro Zeus and MB Pro Hermes maintain intensities of 4 000 μ W/cm².

We now have a variety of Inspector Kits, customized to your needs. A combination of 3 UV lights (MB 3.0, UVG3 2.0, UVG5 2.0), and 1 UV meter (Apollo 3.0) in one inspector kit case that includes all accessories and also has space for 4 aerosols. Please read more on pages 28-29. USAF should ask for the K002 USAF inspector kit. For all USAF compliant UV inspection lights and kits please refer to page 34.

Don't miss the new Apollo 3.0 Blue meter (PN: M517) that supports the MB Poseidon blue light with the required measurements.

Warranty Policy

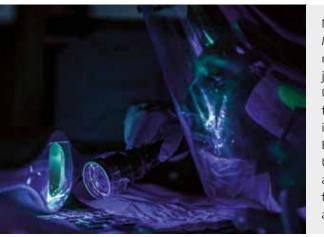
All stationary GX Orion models carry a 4 year warranty. All portable models, namely Hercules EX, BB 2.0 Series, UVG3 2.0 Series, UVG5 2.0 Series and MB 3.0 Series carry between 2-4 year warranty.

UV-A LED LAMPS



NDI Technician of the 100th Maintenance Squadron performs a magnetic particle inspection on a sample part, at RAF Mildenhall, England, Feb. 7, 2019 using a Labino MB 2.0 Series UV light. Magnetic particle inspections are used to identify stress fatigue fractures on a high variety of parts, varying from bolts, tow bars and other supporting aerospace ground equipment.





NDI Technician of the 5th Maintenance Squadron non-destructive inspection journeyman, shines a Labino UVG3 UV light during a fluorescent penetrant inspection at Minot Air Force Base, N.D., Oct. 18, 2016. The UV light helps locating cracks and imperfections on parts of the B-52H Stratofortress and aircraft support equipment.







S
Ē
. <u>o</u>
ät
Ü
Ψ
. <u> </u>
pe
5
р С
ę
. <u> </u>
eer
ne
.⊆.
60
Ц
ш
\geq
Ę
SL
Ē
Ĕ
Standards as well as Industry Engineering specifications
SB
Ð
ž
~
s as v
10
ö
Ĩ
5
č
a
5
SO S
\mathcal{O}
<u> </u>
id ISO Standa
\Box
g
\leq
STA
Ś
\triangleleft
Ц
Ē
5
eleva
ē
_
근
ΞŦ
>
J.
Ŋ
Ē
<u></u>
mpliance with re
3
2
Ŭ

8

Labino AB LED UV Lights	Built in White Light LED	UV Intensity at 38 cm (15") (µW/cm ²)	COMPLIES WITH ASTM E3022-2018 Standard	COMPLIES WITH Rolls-Royce RRES 90061 Specification	COMPLIES WITH Airbus AITM6-1001 Testing Method	COMPLIES WITH Pratt & Whitney Requirements	COMPLIES WITH The Boeing Co Requirements	COMPLIES WITH ISO 3059-12 Standard	COMPLIES WITH USAF Requirements	
GX SERIES – OVERHEAD LIGHT										
GX Orion REMOTE	>	1 500-7 000	`	I	Ι	Ι	I	`	I	
GX Orion UV & WH	>	≈ 7 000	`	I	I	`	I	>	I	
GX Orion UV	I	≈ 4 500	>	>	>	`	>	>	`	
BB 2.0 SERIES – HANDHELD LIGHT	L.									
BB 2.0 Helios	I	000 6 ≈	~	I	I	`	I	^	^	
BB 2.0 Ikaros	I	≈ 4 000	>	>	>	`	>	`	`	
BB 2.0 Artemis	I	≈ 22 000	>	I	I	I	I	>	1	
MB 3.0 SERIES – HANDHELD LIGHT	НТ									
Hercules Ex	I	≈ 4 000	~	^	^	`	>	^	`	
MB 3.0 Zeus	>	≈ 4 000	>	>	>	`	\$	`	I	>
MB 3.0 Zeus with Athena	>	≈ 4 000	>	\$	>	>	`	>	I	
MB 3.0 Hermes	I	≈ 4 000	>	>	>	`	>	>	>	
MB 3.0 Hermes with Athena	I	≈ 4 000	\$	\$	\$	`	`>	\$	\$	
MB 3.0 Selene	>	≈ 9 000	>	I	I	>	I	>	I	
MB 3.0 Selene with Athena	>	≈ 9 000	>	I	I	\$	I	>	I	
MB 3.0 Atlas	I	≈ 9 000	>	I	1	>	I	>	>	
MB 3.0 Atlas with Athena	I	∞ 9 000	>	I	I	`	I	>	`	
UVG3/5 2.0 SERIES – FLASHLIGHT / HEADLIGHT	IT / HEADLIGH	HT								
UVG3 2.0 Spotlight	I	≈ 80 000	>	I	I	I	I	>	I	
UVG3 2.0 Midlight	I	∞ 9 000	>	ļ	I	\$	I	>	>	
UVG3 2.0 Floodight	I	≈ 4 000	>	>	\$	>	\$	>	>	
UVG5 2.0 Spotlight	Optional	≈ 80 000	>	I	I	I	I	>	I	
UVG5 2.0 Midlight	Optional	≈ 9 000	>	I	\$	>	I	>	>	
UVG5 2.0 Floodight	I	≈ 4 000	`	`	\$	`	\$	`	`	

ABINO

UV-A LED LAMPS



UV-A LED LAMPS



UVG3 2.0 Floodlight (PN: L136) UVG3 2.0 Midlight (PN: L135) UVG3 2.0 Spotlight (PN: L134)



2 Year warranty

Powerful, penetrant resistant and with an Ingress Protection 68 (IP68 Waterproof). The beam profile is probably the largest and smoothest from any UV-A torch light on the market today. Depending on the model, the beam diameter is 3-5 inches / 8-12 cm and with intensities that vary from \approx 4 000 to 80 000 μ W/cm²! Selected models have been tested to comply with ASTM E3022-18, Rolls-Royce RRES 90061 and Airbus AITM6-1001. Battery running times are up to 6 hours.









UVG3 2.0 Series products are small and compact UV-A lights with a powerful output, a convenient tool for quick inspections. The UVG3 2.0 torch weighs just 211 grams (7.4 oz). The UVG3 2.0 Series has been specifically designed to meet the ASTM E3022-18 and ISO 3059-12 standards as well as Rolls-Royce RRES 90061, Airbus AITM6-1001 and other requirements set by the PRIMES.



MEASURING UVG3 2.0 UV INTENSITY WITH OLYMPOS The UVG3 2.0 Spotlight, UVG3 2.0 Midlight and UVG3 2.0 Floodlight can all be measured using the same small size plate. Olympos measurement stand has part number A542.

TECHNICAL DATA

	UVG3 2.0
UV LED:	1
Wavelength:	365 nm (peak) +/- 5 nm
Estimated LED life:	30 000 hours
UV-B:	100% free from UV-B
Filter:	White light block filter
Power source:	Battery
Weight UVG3 2.0:	211 grams (7.4 oz)



UVG GOOSENECK ARM UVG3 2.0 torches can be mounted on a Labino UVG Gooseneck arm (PN: A532).



UVG3 2.0 KIT (DOUBLE) PACKAGE INCLUDES: Two lamps, Car Charger, Three Batteries, UV Block Goggles, External Charger for wall outlet, carrying case, two belt holsters, two wrist bands, 2 rubber bumpers.



UVG3 2.0 KIT (SINGLE) PACKAGE INCLUDES: Lamp, Car Charger, Two Batteries, UV Block Goggles, External Charger for wall outlet, carrying case, belt holsters, wrist band, rubber bumper.



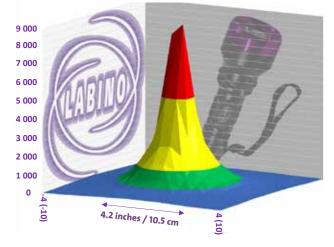


UVG3 2.0 Spotlight (PN: L134) UVG3 2.0 Midlight (PN: L135)

UVG3 2.0 Spotlight and UVG3 2.0 Midlight have been tested to comply with both ASTM E3022-18 and ISO 3059-12 standards. They generate intensities of approximately 80 000 μ W/cm² and 9 000 μ W/cm² at 38 cm (15 inches), respectively. The battery running time is 4 hours for the Spotlight and 6 hours for the Midlight. NDT Technicians at US Airforce should ask for UVG3 2.0 Midlight (PN: L135). UVG3 2.0 Spotlight (PN: L134) is not in compliance with USAF.

Beam profile > 1 000 μW/cm² measured at 15 inches/ 38 cm of UVG3 2.0 Midlight:

Beam Size in inch / (cm) - intensity in μ w/cm²



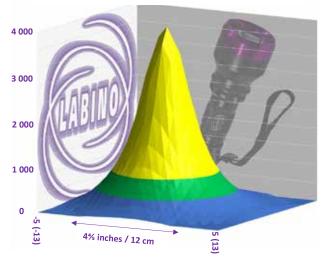


UVG3 2.0 Floodlight (PN: L136)

UVG3 2.0 Floodlight has been tested to comply with ASTM E3022-18 and ISO 3059-12 standards as well as with Rolls-Royce RRES 90061 and Airbus AITM6-1001. It generates an intensity of approximately 4 000 μ W/cm² at 38 cm (15 inches). The battery running time is 6 hours.

Beam profile > 1 000 μW/cm² measured at 15 inches/ 38 cm of UVG3 2.0 Floodlight:

Beam Size in inch / (cm) - intensity in µw/cm²



FACTS ABOUT UVG3 2.0 SERIES

Part Number	Model	Battery Run Time	UV Intensity	Visible Light	Beam Size >1000 μW/cm²
L134	UVG3 2.0 Spotlight	4 hours	80 000 μW/cm ²	< 20 lux / 2 fc	Ø 3 inches / 7.6 cm
L135	UVG3 2.0 Midlight	6 hours	9 000 μW/cm ²	< 3 lux / 0.3 fc	Ø 4.2 inches / 10.5 cm
L136	UVG3 2.0 Floodlight	6 hours	4 000 μW/cm ²	< 1.5 lux / 0.1 fc	Ø 4.8 inches / 12 cm



UVG5 2.0





3 Year warranty

Extremely durable! Compact, powerful and adjustable headlight that frees your hands during inspections. White light is optional. The beam profile is probably the largest and smoothest from any UV-A headlight on the market today. Depending on the model, the beam diameter is 3-5 inches / 8-12 cm and with intensities that vary from $\approx 4\,000$ to 80 000 μ W/cm²! Selected models have been tested to comply with ASTM E3022-18, Rolls-Royce RRES 90061 and Airbus AITM6-1001. Battery running times are up to 14 hours!



A high quality UV LED with respective high quality white light block filter that does not suffer from solarization. Two different white lights: (a) a strong "search" white light for use in dark and tight spaces such as pipes and tanks and (b) a visual inspection white light.





FACTS ABOUT UVG5 2.0 SERIES

Part Number	Model	White Light	Battery Run Time	UV Intensity	Beam Size > 1 000 μW/cm ²
L127	UVG5 2.0 Spotlight	YES	8 hours	80 000 μW/cm ²	Ø 3 inches / 7.6 cm
L128	UVG5 2.0 Midlight	YES	14 hours	9 000 μW/cm²	Ø 4.2 inches / 10.5 cm
L129	UVG5 2.0 Midlight	NO	14 hours	9 000 μW/cm²	Ø 4.2 inches / 10.5 cm
L130	UVG5 2.0 Floodlight	YES	10 hours	$4000\mu W/cm^2$	Ø 4.8 inches / 12 cm
L131	UVG5 2.0 Floodlight	NO	10 hours	$4000\mu\text{W/cm}^2$	Ø 4.8 inches / 12 cm

UVG5 2.0

UVG5 2.0 Spotlight, Midlight and Floodlight have been tested to comply with both ASTM E3022-18 and ISO 3059-12 standards. The UVG5 2.0 Floodlight also complies with Rolls-Royce RRES 90061 and Airbus AITM6-1001. The Spotlight, Midlight and Floodlight generate intensities of approximately 80 000 μ W/cm², 9 000 μ W/cm² and 4 000 μ W/cm² at 38 cm (15 inches), respectively. The battery running time is approximately 8 hours for the Spotlight, 10 hours for the Floodlight and 14 hours for the Midlight. Charging time is 3 hours. Three models (Spotlight - L127, Midlight - L128 and Floodlight - L130) come with white light. There are two different white lights you can operate the UVG5 2.0 with, (a) a strong "search" white light for use in dark and tight spaces such as pipes and tanks and (b) a visual inspection white light. NDT Technicians at US Airforce should ask for Part Number UVG5 2.0 Midlight (PN: L129).



NDI Technician of the 108th Maintenance Squadron, analyzes a part of the KC-135R Stratotanker aircraft at Joint Base McGuire-Dix-Lakehurst, N.J., using a Labino UVG5 headlight.

UV-A LED LAMPS

COMPLIES WITH USAF

Requirements

COMPLIES WITH

Airbus AITM6-1001

Testing Metho



MB 3.0 Zeus COMPLIES WITH ASTM E3022-2018 Standard (Mains model PN: L119, Battery model PN: L118) OMPLIES WITH MB 3.0 Hermes Is-Royce RRES 900 Specification (Mains model PN: L121, Battery model PN: L120) 2 Year warranty MB 3.0 Selene (Mains model PN: L139, Battery model PN: L138) MB 3.0 Atlas (Mains model PN: L125, Battery model PN: L124)

This compact light is simply Genius! A combination of smart mechanics and efficient electronics, designed to survive extreme temperatures and harsh working conditions, 24 x 7. Penetrant resistant, with acoustic battery indicator and certified with an ingress protection marking of IP68. Depending on the model, the beam diameter is 8-9 inches / 20-22 cm and with intensities that vary from \approx 4 000 to 9 000 μ W/cm². Zeus and Selene are equipped with a strong white light as well.



OPTIONAL SPRAY CAN HOLDER ACCESSORY "ATHENA" Athena mounts on the light and can fit ALL aerosol brands that are used in NDT. Buy it factory installed or add it later (PN: A503).



OPTIONAL MEASUREMENT ACCESSORY "OLYMPOS"

Your daily NADCAP and/or ASTM E3022-18 checks can be carried out accurately with an Olympos stand (PN: A542) and an Apollo 3.0 dual meter (PN: M513).





AC (MAINS) POWERED MODELS come with 4 meters (13 ft) cables, but length can be customized. Add a Flexible arm accessory (PN: A538) near your mag bench for convenience.



BATTERY POWERED MODELS Powered by two Li-ion batteries that can be recharged either by a cigarette outlet in a vehicle, a wall outlet or a PSU charger (without removing the batteries) – 2 hours charging time.





ACOUSTIC BATTERY INDICATOR

gives NDT technicians warning sounds indicating the remaining battery run time of the light.



BATTERY VERSION PACKAGE INCLUDES:

Lamp, Car Charger, Four Batteries, UV Block Goggles, External Charger for wall outlet, Carrying Case, Belt holster, Power supply for charging batteries while operating.



MAINS VERSION PACKAGE INCLUDES: Lamp with 4 meter (13 feet) cord, Power Supply Unit 100-240V AC, AC power cord, UV Block Goggles, Carrying Case. The cord can be customized to the length of your choice.

16

MB 3.0 Series products Zeus, Hermes, Selene and Atlas are

lights with UV-A output. They are compact and weigh less than many comparable products but are extremely robust in nature, designed for heavy industries with very difficult operating environments. The AC (mains) operated model weighs just 650 grams (1.4 lbs) and the battery operated model weighs just 680 grams (1.5 lbs).

The MB 3.0 Series has been specifically designed to meet the ASTM E3022-18 and ISO 3059-12 standards as well requirements set by the PRIMES. The optics used in the MB 3.0 Series meet the Rolls-Royce RRES 90061 specification. The beam profile of the UV light is extremely homogenous without any footprints showing from the LEDs, shades, dark spots or other disturbing defects.



MB 3.0 Zeus (Mains model PN: L119, Battery model PN: L118) MB 3.0 Hermes (Mains model PN: L121, Battery model PN: L120)

MB 3.0 Zeus and MB 3.0 Hermes have been tested to comply with both ASTM E3022-18 and ISO 3059-12 standards as well as with the internal requirements of all PRIMES listed on page 8, including Rolls-Royce RRES 90061 and Airbus AITM6-1001. MB 3.0 Hermes is also in compliance with USAF. These UV lights generate an intensity of approximately 4 000 μ W/ cm² at 38 cm (15 inches) and the battery version has a running time of 3.5 hours.

Difference between Zeus and Hermes: Zeus is equipped with a strong white light LED that generates more than 1076 lux (100 fc) for after inspection. Hermes does not have a white light LED for organizations that do not allow use of white light.

The battery versions of MB 3.0 Zeus and MB 3.0 Hermes have a useful accessory, the Athena spray can holder, which works with all aerosol brands. Get it factory installed or add one later (PN: A503).

MB 3.0 Zeus (battery) with Athena, PN: L122. MB 3.0 Hermes (battery) with Athena, PN: L123.

MB 3.0 Zeus, MB 3.0 Hermes,





MB 3.0 Selene (Mains model PN: L139, Battery model PN: L138) MB 3.0 Atlas (Mains model PN: L125, Battery model PN: L124)

MB 3.0 Selene and MB 3.0 Atlas have been tested to comply with ASTM E3022-18 and ISO 3059-12 standards. MB 3.0 Atlas complies with the internal requirements of US Airforce as well. These UV lights generate an intensity of approximately 9 000 μ W/cm² at 38 cm (15 inches) and the battery version has a running time of 2.5 hours.

Difference between Selene and Atlas: Selene is equipped with a strong white light LED that generates more than 1 076 lux (100 fr) for after inspection. Atlas does not have a white light LED for organizations that do not allow use of white light.

The battery versions of MB 3.0 Selene and MB 3.0 Atlas has a useful accessory, the Athena spray can holder, which works with all aerosol brands. Get it factory installed or add one later (PN: A503).

MB 3.0 Selene (battery) with Athena, PN: L140. MB 3.0 Atlas (battery) with Athena, PN: L126.

TECHNICAL DATA

	MB 3.0 Zeus, MB 3.0 Hermes, MB 3.0 Selene and MB 3.0 Atlas
UV LED:	4 (MB 3.0 Zeus, MB 3.0 Hermes) 3 (MB 3.0 Selene, MB 3.0 Atlas)
Wavelength:	365 nm (peak) +/- 5 nm
Estimated LED life:	30 000 hours
UV-B:	100% free from UV-B
Filter:	White light block filter
Power supply:	Battery or Mains
Weight Battery:	680 grams (1.5 lbs)
Weight Mains:	650 grams (1.4 lbs)
Zeus/Hermes Battery running time:	3.5 hours (+/- 5%)
Selene/Atlas Battery running time:	2.5 hours (+/- 5%)

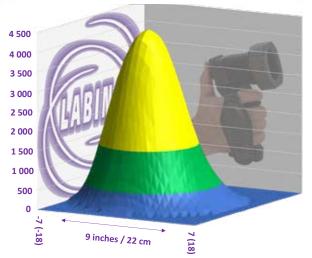
Accessories for MB 3.0 Series

	MB 3.0 Selene, MB 3.0 Atlas
UV Block Visor (PN: S401)	
UV Block Goggles "XC" (PN: S505)	2
Flexible Arm for MB 2.0 Series (PN: A538 for Mains units) (PN: A541 for Battery units)	⊾
Friction Arm (PN: A530)	×
Rubber Bumper (PN: F106)	
Protection PSU Bracket (PN: F211)	
Magnet for PSU (A601)	
Customized Carrying Case (PN: C1002) (PN: C1003 w / Athena)	
Thumb Screws for Battery Lid (F105)	



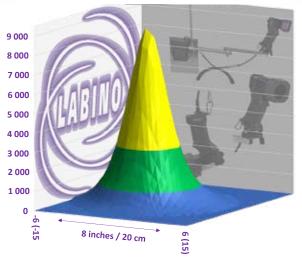
Beam profile > 1 000 $\mu W/cm^2$ measured at 15 inches / 38 cm of Zeus and Hermes:

Beam Size in inch / (cm) - intensity in µw/cm²



Beam profile > 1 000 $\mu W/cm^2$ measured at 15 inches / 38 cm of Selene and Atlas:

Beam Size in inch / (cm) - intensity in µw/cm²



FACTS ABOUT MB 3.0 SERIES

Part Number	Model	White Light	Run Time Battery	UV Intensity	Visible Light	Beam Size ≻1000 µW/cm ²
L118	MB 3.0 Zeus Battery	YES	3.5 hours	4 000 μW/cm ²	< 2 lux / 0.2 fc	Ø 9 inches / 22 cm
L119	MB 3.0 Zeus Mains	YES	N/A	4000μ W/cm ²	< 2 lux / 0.2 fc	Ø 9 inches / 22 cm
L120	MB 3.0 Hermes Battery	NO	3.0 hours	4 000 μW/cm ²	< 2 lux / 0.2 fc	Ø 9 inches / 22 cm
L121	MB 3.0 Hermes Mains	NO	N/A	4000μ W/cm ²	< 2 lux / 0.2 fc	Ø 9 inches / 22 cm
L138	MB 3.0 Selene Battery	YES	2.5 hours	9000μ W/cm ²	< 4 lux / 0.4 fc	Ø 8 inches / 20 cm
L139	MB 3.0 Selene Mains	YES	N/A	9000μ W/cm ²	< 4 lux / 0.4 fc	Ø 8 inches / 20 cm
L124	MB 3.0 Atlas Battery	NO	2.5 hours	9 000 μW/cm ²	< 4 lux / 0.4 fc	Ø 8 inches / 20 cm
L125	MB 3.0 Atlas Mains	NO	N/A	9000μ W/cm ²	< 4 lux / 0.4 fc	Ø 8 inches / 20 cm

UV-A LED LAMPS

COMPLIES WITH ASTM E3022-2018

Standard

OMPLIES WITH

ce RRES 90

COMPLIES WITH

COMPLIES WITH

Airbus AITM6-1001

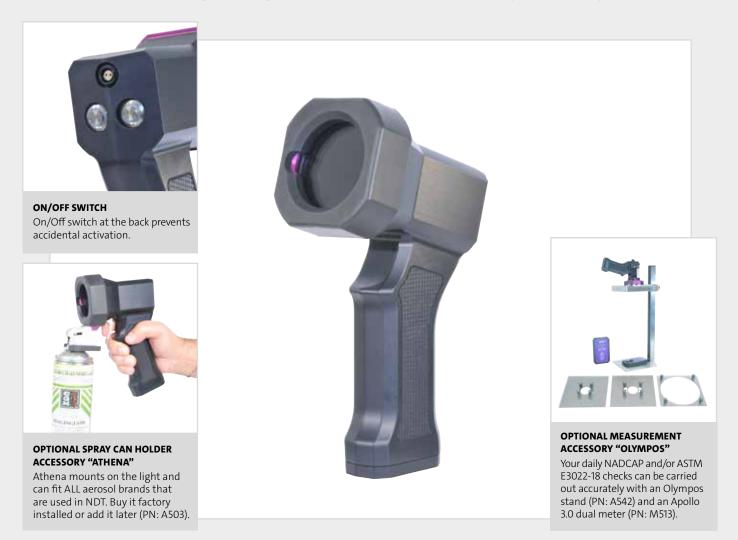
Testing Method

USAF Requirements



MB PRO Zeus (Battery model PN: L147, w/Athena model PN: L148) **MB PRO Hermes** (Battery model PN: L149, w/Athena model PN: L150) **3 Year warranty MB PRO Selene** (Battery model PN: L151, w/Athena model PN: L152) MB PRO Atlas (Battery model PN: L153, w/Athena model PN: L154)

Introducing MB PRO, a battery powered product that combines the superior optical performance of MB 3.0 and the durability of Hercules EX. Designed to perform in extreme temperatures and harsh working conditions, 24 x 7. Made with penetrant resistant materials and certified with an ingress protection marking of IP68. Depending on the model, the beam diameter is 8-9 inches / 20-22 cm and with intensities that vary from ≈ 4000 to 9000 μ W/cm². MB PRO Zeus and MB PRO Selene are equipped with a strong white light as well. MB PRO comes with a 3-year warranty.





RISK 1 – INACCURATE CALIBRATIONS OF UV AND WHITE LIGHT METERS COULD DISRUPT YOUR OPERATIONS AND BE A REASON YOU ARE MISSING AN INDICATION

How many times did you test several meters in your shop, each showing different values? If you are paying USD 200-250 for a calibration, wouldn't you want your light to measure correctly?

There is a large population of UV and White Light Meters in use by NDT professionals today that does not measure UV irradiance and white light illuminance accurately. Either Example: If manufacturer X builds a light and sets intensity at 4 750 μ W/cm² to comply with Rolls-Royce RRES 90061 specification, a 6% error makes this light out of spec (i.e. irradiance is > 5 000 μ W/cm²). Those who follow the Rolls-Royce specification, measure, and document readings daily, before each shift, and stop working if their lamp shows higher than 5000 μ W/cm² and lower than 1200 μ W/cm².

There is a large population of UV and White Light Meters in use by NDT professionals today that does not measure UV irradiance and white light illuminance accurately

because the design is inadequate for this application or because the calibration was not performed properly. Lack of a valid calibration process or lack of appropriate equipment to perform the calibration are most often the reasons. This might cause your meter to overstate or understate UV and white light readings and indicate compliance or non-compliance with pledged standards, whatever the case might be.

Large user groups such as the US Airforce (10 000 μ W/cm² irradiance limit), Rolls-Royce compliant users (5 000 μ W/cm² irradiance limit), Pratt and Whitney compliant users (10 000 μ W/cm² irradiance limit), all have internal procedures, including limits on the irradiance they are allowed to use. Disruption of operations occurs because technicians are not allowed to use UV lights outside the pre-specified maximum and minimum values.

Traceability to NIST by itself, does not guarantee accuracy. Your meter might have been calibrated by a Master that was 10th in line. That gives you at least 30-40% error even before your unit calibrates, which invalidates traceability.

Reputable manufacturers do not just sell meters, they keep statistics as required by relevant standards, and improve the design of an instrument and the components (if any) that deteriorate over time.

Labino recommends that you purchase your units from OEMs that are audited and certified for ISO 17025 (or equivalent) with scope in UV and white light calibrations and continue to calibrate with labs that carry the same qualification.

Labino recommends that you purchase your units from OEMs that are audited and certified for ISO/IEC 17025 with scope in UV and white light calibrations and continue to calibrate with labs that carry the same qualification



RISK 2 – PROTECT YOUR EMPLOYEES' LIFE BY VALIDATING THE CERTIFICATE AUTHENTICITY OF EXPLOSION PROOF PRODUCTS YOU ARE USING

If anyone offers you an explosion proof product, you should ask for:

- i. the certification number
- ii. who the auditor is

and check its authenticity online, either on the auditor's website or on the IECEx site (www.iecex-certs.com). Manufacturers are obligated to share this information in their marketing literature. All certificates can be retrieved online, which makes it easy for you to check if it is authentic or not. You do not want an uncertified product on an oil rig or a refinery. In many countries EX products fall within the jurisdiction of specific legislation not just industry standards.

ALLA Cardhome			Anter Balanti Starre	14	1000	100
			· (
5000			(the state of the state			
(annexed as	anana a	1000	NUMBER OF COLUMN		interest a	
			10 million for the	intern 10	and the second second	
and classes	-	1				



RISK 3 – PROTECT YOUR EMPLOYEES' HEALTH BY MAKING AVAILABLE ADEQUATE PROTECTION AGAINST UV AT THE WORKPLACE



Exposure to UV should be considered with care and in accordance with IEC/EN 62471 test report of your UV lamp. 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. It is advised to always shield the eyes and face. For maximum protection, hands and arms should also be covered with long sleeves and gloves of a non-fluorescent material as in the picture above.

Certain individuals are naturally hypersensitive to all forms of UV-irradiation and should avoid any exposure. 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. Consult a medical specialist if any symptoms arise.



Hercules Ex 😥



4 Year warranty

Designed upon request of the military, Hercules is probably the most durable and shockproof UV light in the world today, suitable for any "heavy duty" environment. It comes with explosion proof approvals and is tested to comply with ASTM E3022-18 and all PRIMES requirements, including Rolls-Royce RRES 90061 and Airbus AITM6-1001. Accidentally dropped it, kicked it, baked it in an oven, run it over by a tank? – it will still work! – The battery is inside the light; you don't need to worry it got smashed like ordinary lights. Zero LEDs out from day of launch, 7 years ago!



22



Hercules Ex is an extremely durable product specifically developed for use in areas where the risk of an explosion is high. Use of explosion proof products is often required in Offshore Oil Rigs, Refineries, Aerospace, and Defense. It has successfully completed extremely tough tests, amongst them tests for thermal conditioning, Impact Tests, Drop Tests, IP tests that led to the ATEX certification (Certificate: ITS17ATEX402144X). This unique product is suitable for use in extreme weather conditions varying from 104° Fahrenheit (+ 40° Celsius) to minus 4° Fahrenheit (- 20° Celsius).

Furthermore, Hercules Ex has successfully completed all tests and audits leading to its certification for IECEx, NFPA 70 Article 500 for Class I (divisions II locations) and the United States military tests, Salt Fog Test and Explosive Atmosphere Test. It has an ingress protection marking of IP66.

This unique light is battery powered and has four UV LEDs that generate an intensity of 4 000 μ W/cm². A charger is supplied with each lamp enabling users to charge the batteries without removing them from the lamp. Charging of batteries should only take place outside explosive atmospheres.

Hercules Ex has been tested to comply with ASTM E3022-18, Rolls-Royce RRES 90061 and Airbus AITM6-1001. A certificate of conformity is provided with every light as well as a 4-year warranty.

FACTS ABOUT HERCULES EX

Output Characteristics	Hercules Ex
Intensity	≈ 4 000 μW/cm ²
Visible light	< 1.5 lux / 0.1 fc
Beam > I 000 μW/cm ²	Ø 8 inches / 20 cm

At a distance of 38 cm (15 inches)

TECHNICAL DATA

	Hercules Ex
UV LED:	4
Wavelength:	365 nm (peak) +/- 5 nm
Estimated LED life time:	30 000 hours
UV-B:	100% free from UV-B
Filter:	White light block filter
Power source:	Battery
Weight:	888 grams (2.0 lbs)
Battery running time:	3 hours (+/- 5%)



EXPLOSIVE ATMOSPHERE CERTIFICATIONS

ATEX certified for Group II, Zone II (Certificate: ITS17AT-EX402144X), IECEx, NFPA 70 Article 500 for Class I (divisions II locations), Explosive Atmosphere Test as per MIL-STD-810G.



CHARGING BATTERIES WITHOUT TAKING OUT THE BATTERIES

A separate PSU supplied can charge the batteries. This charger can only be used outside explosive atmospheres.



PACKAGE INCLUDES: Lamp, Car Charger, Four Batteries, UV Block Goggles, External Charger for wall outlet, Carrying Case, Charging Power Supply.

TYPE-EXAMINATION CERTIFICATE

1. Type-examination Certificate (Module A)

4.

Product:

- 2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)
- 3. Type examination certificate Nr ITS17ATEX402144X R.2

MB Hercules Ex

- 5. Manufacturer:
 Labino AB
 Applicant:
 Labino AB

 6. Address:
 Fabriksvägen 9 B, 186 32 Vallentuna, Sweden
 Address:
 Fabriksvägen 9 B, 186 32 Vallentuna, Sweden
 Sweden
- 7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.
- 8. INTERTEK ITALIA S.p.A., certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 105228090LHD-001 dated 3rd August 2023.

- 9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018 & EN IEC 60079-15:2019 except in respect of those requirements referred to at item 16 of the Schedule.
- 10. If the sign X is placed after the certificate number, it indicates that the product is subject to Special Conditions for Safe Use specified in the schedule to this certificate.
- 11. This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 12. The marking of the product shall include the following:



II 3G Ex ec nC IIC T4 Gc -20°C \leq Tamb \leq +40°C

- DUST-4-D--

Certificate issue date

Mark Newman Certification Officer Intertek Italia S.p.A.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy

LFT-EMEA-IT-ATEX-OP-23p (6 April 2022)





4th August 2023

IECEX	IECEx Certificate of Conformity		
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com			
Certificate No.:	IECEx ITS 17.0056X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 4	Issue 3 (2022-01-13) Issue 2 (2021-09-06)
Date of Issue:	2023-08-04		Issue 1 (2018-06-11) Issue 0 (2017-10-12)
Applicant:	Labino AB Fabriksvägen 9 B 186 32 Vallentuna Sweden		
Equipment:	MB Hercules Ex		
Optional accessory:			
Type of Protection:	Equipment protection by type of p	rotection "e & n"	
Marking:	Ex ec nC IIC T4 Gc		
	-20°C ≤ Tamb ≤ +40°C		
Approved for issue on behalf of the IECEx Certification Body:		Mark Newman	
Position:		Certificate Officer	
Signature: (for printed version) Date: (for printed version)		Date: 2023.08.17 14:47:14 +01'00'	
2. This certificate is not	schedule may only be reproduced in full. I transferable and remains the property of the is enticity of this certificate may be verified by visi		
Certificate issued	l by:		
Intertek Testi ITS House, Clee Leatherhead Surrey, KT22 7S United Kingdo	A	int	ertek



MB Poseidon

2 Year warranty

MB Poseidon

(Battery model PN: L110, w/Athena model PN: L109, Mains model PN: L111)

MB Poseidon is an actinic blue light LED lamp offering a peak wavelength of 440 \pm 5 nm. Blue light is used for detection of defects where ambient light is present. To ensure adequate contrast, inspection shall be carried out with the supplied yellow contrast goggles. MB Poseidon is designed to comply with SIS-CEN/TR 16638:2014. It generates a peak irradiance of approximately 8 500 μ W/cm² at 38 cm (15 inches) and a beam diameter of 23 cm (9 inches) above 1 000 μ W/cm². Irradiances can be verified with an Apollo Blue light meter (PN: M517).

ABINO





Inspector kit "Stockholm" (PN: KOO1) Inspector kit "US Airforce" (PN: KOO2) Inspector kit "Gothenburg" (PN: KOO3) Inspector kit "Malmo" (PN: KOO4) Inspector kit "Uppsala" (PN: KOO5)

The ultimate inspector kit to carry field inspections in a professional and reliable manner. All UV-A lights included are tested and certified to comply with ASTM E3022-18. UV-A Lights can be replaced with other models within the same series upon request.



UVG3 2.0 MIDLIGHT UV-A flashlight with rubber bumper – PN: L135.



CARRYING CASE

Fits all three UV-A lights (MB 3.0 Zeus with Athena, UVG3 2.0, UVG5 2.0), Apollo 3.0 meter and accessories. Carrying case has pockets for 4 Aerosol cans (Aerosols not included).



APOLLO 3.0 UV-A & White light meter calibrated by an ISO/ IEC 17025 laboratory – PN: M513.



MB 3.0 ZEUS UV-A & WH handheld light with Athena spray can holder – PN: L122.



UV-A & WH headlight with bump cap – PN: L128.

US Airforce NDT Technicians should ask for Part Number K002 which includes UV-A lights MB 3.0 Atlas with Athena (PN: L126), UVG5 2.0 Midlight UV-A headlight (PN: L129), UVG3 2.0 Midlight (PN: L135) and Apollo 3.0 UV and white Light meter (PN: M513) – All in compliance with USAF internal requirements.

NDT Inspector Kit



Available combinations

PN: K001

NDT INSPECTOR KIT "STOCKHOLM" - (1 MB 3.0 HANDHELD, 1 UVG3 2.0 FLASHLIGHT, 1 UVG5 2.0 HEADLIC



MB 3.0 ZEUS UV-A & WH handheld light with Athena spray can holder -PN: L122.



UVG3 2.0 MIDLIGHT UV-A flashlight with rubber bumper -PN: L135.

PN: K002

NDT INSPECTOR KIT "US AIRFORCE" - (1 MB 3.0 HANDHELD, 1 UVG3 2.0 FLASHLIGHT, 1 UVG5 2.0 HEADLI



MB 3.0 ATLAS UV-A handheld light with Athena spray can holder - PN: L126.



UVG3 2.0 MIDLIGHT UV-A flashlight with rubber bumper -PN: L135.

PN: K003

NDT INSPECTOR KIT "GOTHENBURG" - (1 MB 3.0 HANDHELD, 1 UVG5 2.0 HEADLIGHT, 1 APOLLO 3.0 RAD



MB 3.0 ZEUS UV-A & WH handheld light with Athena spray can holder -PN · 1122



UVG5 2.0 MIDLIGHT UV-A & WH headlight with bump cap – PN: L128.

PN: K004

NDT INSPECTOR KIT "MALMO" - (1 MB 3.0 HANDHELD, 1 UVG3 2.0 FLASHLIGHT, 1 APOLLO 3.0 RADIOME



MB 3.0 ZEUS UV-A & WH handheld light with Athena spray can holder -PN: L122.



UVG3 2.0 MIDLIGHT UV-A flashlight with rubber bumper – PN: L135.

PN: K005



MB 3.0 ZEUS UV-A & WH handheld light with Athena spray can holder -PN: L122.



APOLLO 3.0 UV-A & White light meter calibrated by an ISO/ IEC 17025 laboratory - PN: M513.



of NDT Inspector Kits

GHT, 1 APOLLO 3.0 RADIOMETER/PHOTOMETER)



UVG5 2.0 MIDLIGHT UV-A & WH headlight with bump cap - PN: L128.



APOLLO 3.0 UV-A & White light meter calibrated by an ISO/ IEC 17025 laboratory – PN: M513.

CARRYING CASE

Fits all three UV-A lights (MB 3.0 Zeus with Athena, UVG3 2.0, UVG5 2.0), Apollo 3.0 meter and accessories. Carrying case has pockets for 4 Aerosol cans (Aerosols not included).

GHT, 1 APOLLO 3.0 RADIOMETER/PHOTOMETER)



UVG5 2.0 MIDLIGHT UV-A headlight with bump cap -PN: L129.

OMETER/PHOTOMETER)



APOLLO 3.0 UV-A & White light meter calibrated by an ISO/ IEC 17025 laboratory – PN: M513.



APOLLO 3.0 UV-A & White light meter calibrated by an ISO/ IEC 17025 laboratory – PN: M513.

CARRYING CASE

Fits all three UV-A lights (MB 3.0 Zeus with Athena, UVG3 2.0, UVG5 2.0), Apollo 3.0 meter and accessories.

Carrying case has pockets for 4 Aerosol cans (Aerosols not included).



CARRYING CASE

CARRYING CASE

included).

Fits all three UV-A lights (MB 3.0 Zeus with Athena, UVG3 2.0, UVG5 2.0), Apollo 3.0 meter and accessories. Carrying case has pockets for 4 Aerosol cans (Aerosols not included).



FER/PHOTOMETER)



APOLLO 3.0 UV-A & White light meter

calibrated by an ISO/ IEC 17025 laboratory – PN: M513.



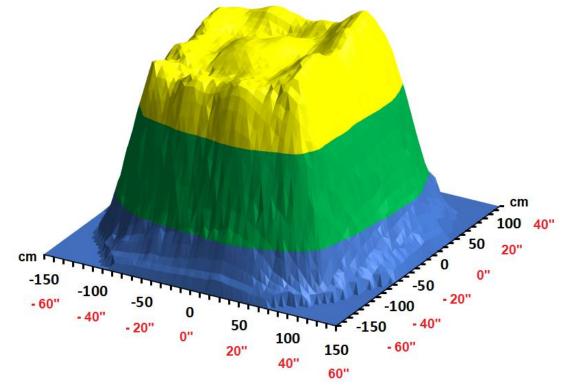
CARRYING CASE Fits all three UV-A lights (MB 3.0 Zeus with Athena, UVG3 2.0, UVG5 2.0), Apollo 3.0 meter and accessories. Carrying case has pockets for 4 Aerosol cans (Aerosols not included).

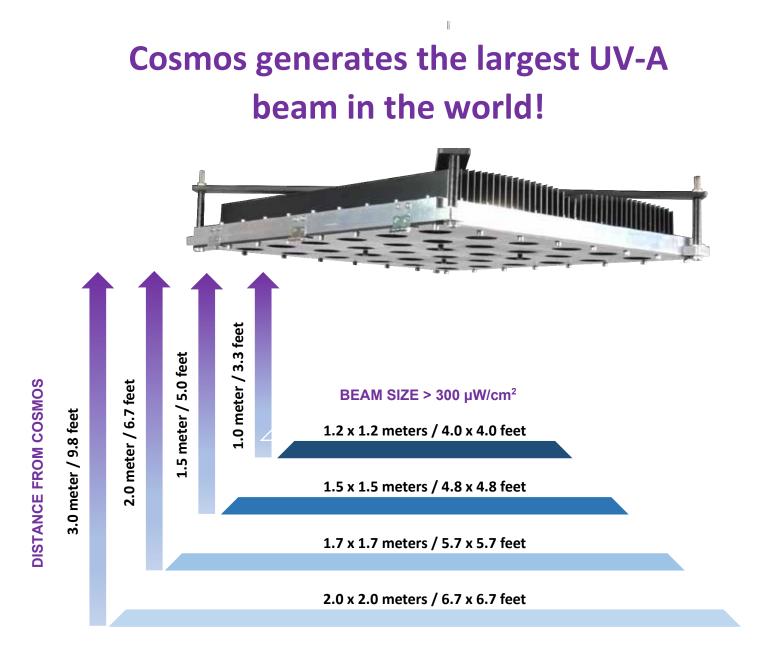


A unique product that was missing from the NDT industry. A UV-A light, specifically designed to withstand the harsh conditions of a wash station, covering an area of 2 x 2 meters (7 x 7 feet) from a distance of 3 meters (10 feet) – the largest UV-A beam in the world! Cosmos comes with a 4-year warranty.



Beam profile > 100 μ W/cm² and > 300 μ W/cm² measured from 3.0 meters / 9.8 feet:





Cosmos Square beam avoids dead spots

Cost Effective!

1 Cosmos = 13

competitor lights

5 × 2 WETER (1 × 2 FEET) NV-9 BEAM (Competitor light)

2 x 2 METER (7 x 7 FEET) UV-A BEAM



Radiometer/photometer measuring UV and visible light via a wireless sensor. Apollo 3.0 is traceable to NIST and is in compliance with ISO 3059. We calibrate Apollo 3.0 in accordance to ISO / IEC 17025. Our accreditation has been certified by SWEDAC and carries the accreditation number 10391.

Our Apollo 3.0 dual meter calibration services are now offered in 10 LOCATIONS WORLDWIDE. These centers are in Chicago (USA), Houston (USA), Edmonton (CANADA), Stockholm (SWEDEN), Bilbao (SPAIN), St. Etienne de Tulmont (FRANCE), Milan (ITALY), Hinckley (U.K), Sydney (AUSTRALIA) and Kaohsiung (TAIWAN). All follow a specific calibration process proprietary to Labino and all have the same equipment.



APOLLO 3.0 SINGLE KIT (PN: M513)



APOLLO 3.0 DOUBLE KIT (PN: M514)



OLYMPOS (PN: A542) **Measurement Stand**

Measure the UV-A and white light output of any Labino UV-A LED light with accuracy at 15 inches (38 cm) and stay in compliance with pledged standards (ASTM E3022, **ROLLS-ROYCE RRES 90061, AIRBUS AITM6-1001) and your internal procedures.**





BB 2.0 Series (UV Handheld)



UVG3 2.0 Series (UV Flashlight)

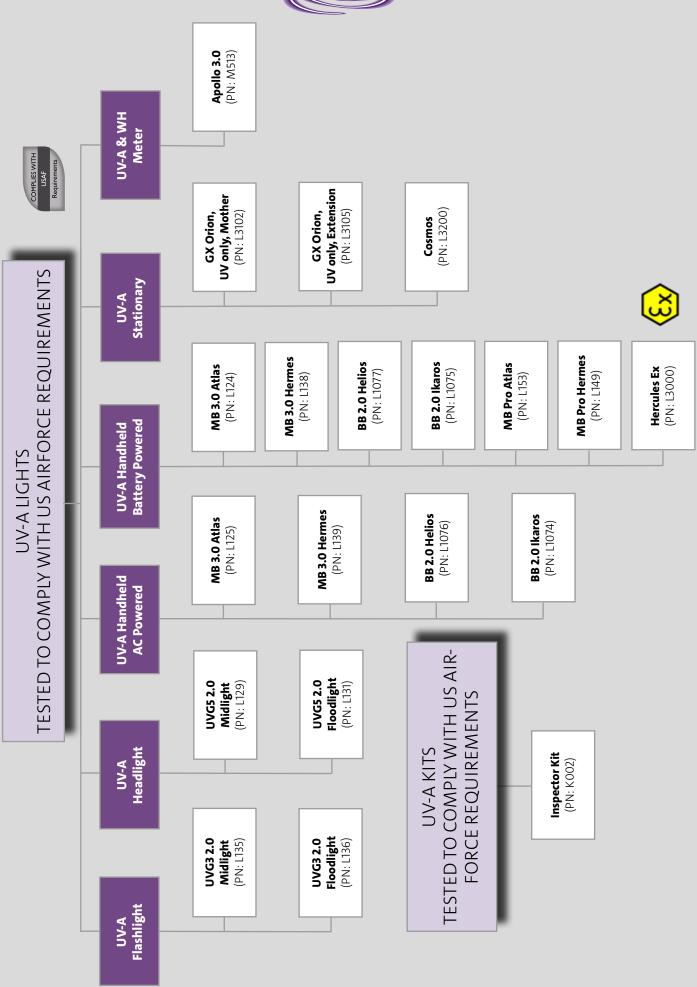


UVG5 2.0 Series (UV Headlight)

MB 3.0 Series (UV Handheld)



Four Interchangeable Plates



LABINO



UV-A LED LAMPS



NDI Technician of the 180th Fighter Wing, uses a Labino BB 2.0 Series UV light to inspect an F-16 Fighting Falcon compressor blade for cracks during unit training assembly in Swanton, O.H.



NDI Technicians of the 20th Equipment Maintenance Squadron view a technical order at Shaw Air Force Base, S.C. Before inspecting any part, NDI Airmen read the TO, ensuring they follow any special instructions regarding the part. The Labino UV light is with them ready for use.



NDI Technician of the 108th Maintenance Squadron, analyzes a part of the KC-135R Stratotanker aircraft at Joint Base McGuire-Dix-Lakehurst, N.J., using a Labino UVG5 headlight.



NDT Technician of the 18th Equipment Maintenance Squadron checks for cracks and chips that could lead to a structural failure during a phase inspection at Kadena Air Base, Japan.

UV-ALED LAMPS



NDI Technician of the 28th Maintenance Squadron performs a magnetic particle inspection to search for any defects on a wire rope hook using a Labino 135 Series UV light at the Ellsworth Air Force Base, S.D.

NDI Technician of the 437th Maintenance Squadron checks a cracked chrome panel from a C-17 with a Labino BB 2.0 Series at Joint Base Charleston, S.C.





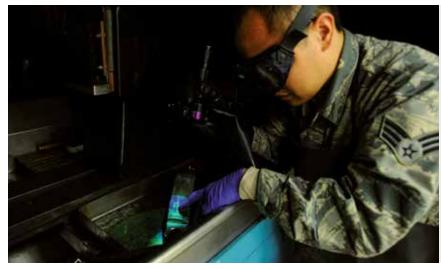
NDI Technician of the 28th Maintenance Squadron inspects a forward support bracket using a Labino 135 Series UV light at the Ellsworth Air Force Base, S.D.



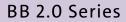
NDI Technician of the 86th Maintenance Squadron takes a closer look at a nose landing gear wheel bolt during a magnetic particle inspection at Ramstein Air Base, Germany.

NDI Technician of the 379th Expeditionary Maintenance Squadron, deployed from Eielson Air Force Base, Alaska, inspects an aircraft pin for cracks under a Labino 135 Series UV light in Southwest Asia.





NDI Technician of the 22nd Maintenance Squadron dips a section of a KC-135 Stratotanker's landing gear in fluorescent chemicals and inspects using a labino UVG3 2.0 UV light at McConnell Air Force Base.





BB 2.0 Ikaros

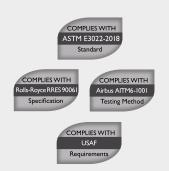
(Mains model PN: L1074, Battery model PN: L1075)

BB 2.0 Helios

(Mains model PN: L1076, Battery model PN: L1077)

BB 2.0 Artemis

(Mains model PN: L1078, Battery model PN: L1079)



2 Year warranty

Powerful, penetrant resistant and with an Ingress Protection 68 (IP68 Waterproof). Beam profile is probably the largest and smoothest from any portable UV-A light on the market today. Depending on the model, the beam diameter is 10-11 inches / 26-28 cm and with intensities that vary from \approx 4 000 to 22 000 μ W/cm². Selected models have been tested to comply with ASTM E3022-18, Rolls-Royce RRES 90061 and Airbus AITM6-1001. Battery running times are up to 7 hours.



38





BB 2.0 Series products Artemis, Helios and Ikaros are lights with a powerful and wide UV output. They provide large coverage and weigh less than many comparable products. The mains operated model weighs just 1.2 kg (2.6 lbs) and the battery operated model weighs just 1.7 kg (3.7 lbs). They are widely used for field inspections or on an MPI bench. BB 2.0 Series lamps have an ingress protection marking of IP68.

The BB 2.0 Series family of products has been specifically designed to meet the ASTM E3022-18 and ISO 3059-12 standards as well as the requirements set by the PRIMES. The optics used in the BB 2.0 Series meet the Rolls-Royce RRES 90061 specification. The beam profile of the UV light is extremely homogenous without any footprints showing from the LEDs, shades, dark spots or other disturbing defects.



BB 2.0 Helios (Mains model PN: L1076, Battery model PN: L1077)

BB 2.0 Helios has been tested to comply with both ASTM E3022-18 and ISO 3059-12 standards. It generates an intensity of approximately 9 000 μ W/cm² at 38 cm (15 inches). The running time of the battery version is 6 hours.

COMPLIES WITH ASTM E3022-2018 Standard

BB 2.0 Artemis (Mains model PN: L1078, Battery model PN: L1079)

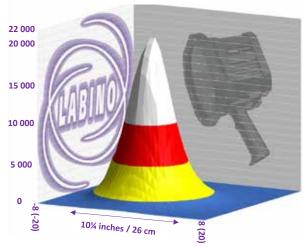
BB 2.0 Artemis has been tested to comply with both ASTM E3022-18 and ISO 3059-12 standards. It generates an intensity of approximately 22 000 μ W/cm² at 38 cm (15 inches). The running time of the battery version is 5 hours. This very high intensity UV light is ideal for the Oil & Gas industry and pipeline related users.

Beam profile > 1 000 μW/cm² measured at 15 inches / 38 cm of BB 2.0 Helios:



Beam profile > 1 000 μW/cm² measured at 15 inches / 38 cm of BB 2.0 Artemis:

Beam Size in inch / (cm) - intensity in µw/cm²



FACTS ABOUT MB 3.0 SERIES

Part White **Run Time** Visible **Beam Size** Number Model Light Battery **UV Intensity** Light > 1 000 µW/cm² L1074 BB 2.0 Ikaros Mains NO N/A $4\,000\,\mu$ W/cm² < 1.5 lux / 0.2 fc Ø 10.6 inches / 27 cm 11075 NO 7 4 000 μW/cm² < 1.5 lux / 0.2 fc Ø 10.6 inches / 27 cm BB 2.0 Ikaros Batterv L1076 BB 2.0 Helios Mains NO N/A 9 000 μW/cm² < 3 lux / 0.3 fc Ø 11 inches / 28 cm L1077 **BB 2.0 Helios Battery** NO 6 9 000 μW/cm² < 3 lux / 0.3 fc Ø 11 inches / 28 cm L1078 BB 2.0 Artemis Mains NO N/A 22 000 µW/cm² < 8 lux / 0.7 fc Ø 10.3 inches / 26 cm 22 000 µW/cm² L1079 **BB 2.0 Artemis Battery** NO 5 < 8 lux / 0.7 fc Ø 10.3 inches / 26 cm





BB 2.0 MAINS WITH CABLE WINDER The mains version can be mounted on a cable winder with a 9.5 meter (31 feet) cable.

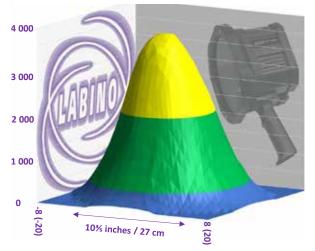


BB 2.0 Ikaros (Mains model PN: L1074, Battery model PN: L1075)

BB 2.0 Ikaros has been tested to comply with both ASTM E3022-18 and ISO 3059-12 standards as well as with the internal requirements of all PRIMES listed on page 8, including Rolls-Royce RRES 90061 and Airbus AITM6-1001. It generates an intensity of approximately 4 000 µW/cm² at 38 cm (15 inches). The running time of the battery version is 7 hours. This is ideal for Aerospace users that need to comply with Nadcap related checklists.

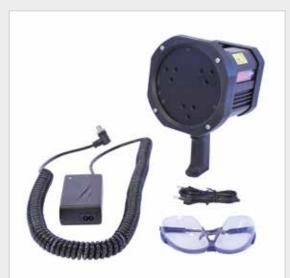
Beam profile > 1 000 μW/cm² measured at 15 inches / 38 cm of BB 2.0 Ikaros:

Beam Size in inch / (cm) - intensity in µw/cm²





BATTERY VERSION PACKAGE INCLUDES: Lamp, UV Block Goggles, Power supply for charging batteries while operating.



MAINS VERSION PACKAGE INCLUDES: Lamp with 2 meter (6.6 feet) cord, Power Supply Unit 100-240V AC, AC power cord, UV Block Goggles.

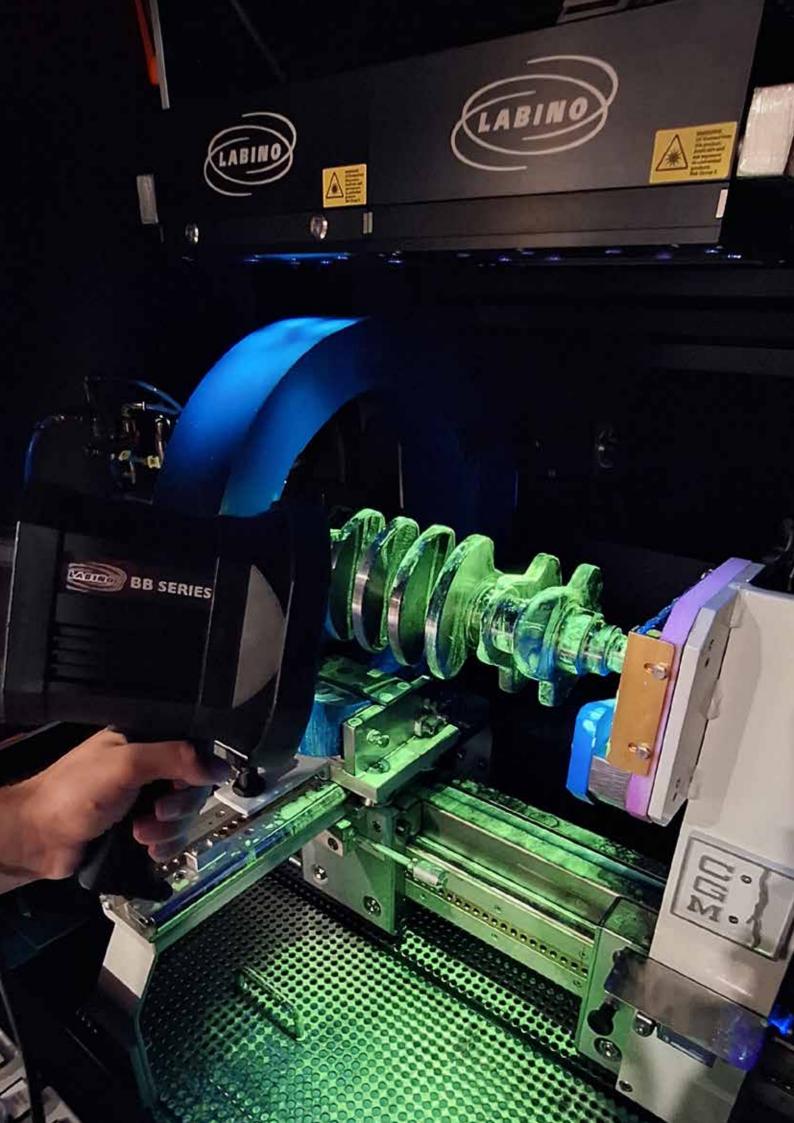


TECHNICAL DATA

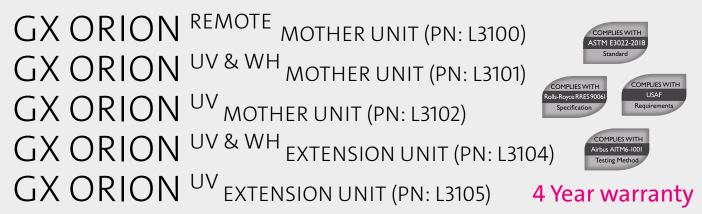
	BB 2.0 Artemis, BB 2.0 Helios and BB 2.0 Ikaros
UV LED:	8 (BB 2.0 Artemis, BB 2.0 Helios) 7 (BB 2.0 Ikaros)
Wavelength:	365 nm (peak) +/- 5 nm
Estimated LED life time:	30 000 hours
UV-B:	100% free from UV-B
Filter:	White light block filter
Power supply:	Battery or Mains
Weight Battery:	1.7 kg (3.7 lbs)
Weight Mains (AC powered):	1.2 kg 2.6 lbs)
Battery running time:	
Ikaros	7 hours
Helios	6 hours
Artemis	5 hours

Accessories for BB 2.0 Series

	BB 2.0 Ikaros, Helios and Artemis
UV Block Visor (PN: S401)	
UV Block Goggles "XC" (PN: S505)	2
Cable winder (PN: F175 for Mains units)	40
Handle adaptor (PN: F146)	Ĩ
Flexible Arm for BB 2.0 Series (PN: A536)	
Fricton Arm (PN: A530)	\sim
Mounting Yoke and brackets for stationary mounting (PN: F800 & F801)	10
Protection PSU Bracket (PN: F211)	S
Magnet for PSU (PN: A601)	
Protection Clear Glass Filter (PN: F132)	0
Customized Carrying Case (PN: C4200 for Mains) (PN: C4100 for Battery)	







Modular overhead UV system that allows you to design the desired covered area by mounting together multiple units. GX Orion is the only overhead UV-A system on the market that offers all of the following qualifications: Certified with an ingress protection marking of IP68 Waterproof, classified as penetrant resistant, tested to comply with ASTM E3022-18, Rolls-Royce RRES 90061 and Airbus AITM6-1001, and carries a 4-YEAR WARRANTY.



44



Labino's LED overhead inspection lamp, GX Orion, is a modular system that can be used to cover large areas. GX Orion is certified with an ingress protection marking of IP68, the highest ingress protection class possible, making it an extremely useful tool for inspection areas with excessive liquids. There are three different models to choose from, remote controlled with multiple UV intensities, UV on/off button only, and UV and visible light on/off buttons only.

The GX Series has been specifically designed to meet the ASTM E3022-18 and ISO 3059-12 standards as well requirements set by the PRIMES. The optics used in the GX Series meet Rolls-Royce RRES 90061 specification. The beam profile of the UV light is extremely homogenous without any footprints showing from the LEDs, shades, dark spots or other disturbing defects.

All GX Orion models have a built-in PLC interface designed to connect to your PLC system. You can chose a "mother" or an "extension" GX Orion unit, with or without remote panel, with or without on/off power switches and still be able to monitor the unit completely through your computer via the PLC interface.

There are two types of what we refer to as "extension" units. The difference of the two is the white light. GX Orion ^{UV & WH} Extension unit (PN L3104), is used to extend the coverage of GX Orion ^{UV & WH} mother unit or GX Orion ^{REMOTE} mother unit. Both these units have white light that emits 1076 lux (100 fc) at a distance of 12 inches / 30 cm. GX Orion ^{UV} Extension unit (PN L3105), is used to extend the coverage of GX Orion ^{UV} only as this mother unit does not have a white light.

TECHNICAL DATA

	GX Orion
UV LED:	10
Wavelength:	365 nm (peak) +/- 5 nm
Estimated LED life time:	30 000 hours
UV-B:	100% free from UV-B
Filter:	White light block filter
Power supply:	Mains
Weight:	GX Orion REMOTE: 2.6 kg / 5.8 lbs GX Orion UV & WH: 2.5 kg / 5.5 lbs GX Orion UV: 2.5 kg / 5.5 lbs
Dimensions (L x W x H):	GX Orion REMOTE: inch: 7.9 x 6.6 x 3.1 / cm: 20 x 16.5 x 8 GX Orion UV & WH: inch: 7.9 x 5.9 x 3.1 / cm: 20 x 15 x 8 GX Orion UV: inch: 7.9 x 5.9 x 3.1 / cm: 20 x 15 x 8



THREE GX ORION REMOTE MOUNTED TOGETHER ON THE SHORT SIDE

Multiple GX Orion REMOTE "Extension" units can be mounted on a "mother" unit either on the long side or the short side.



GX ORION "MOTHER" PACKAGE INCLUDES: GX Orion lamp of your choice, 4 Stainless steel bars for mounting, 4 chains with snap links, Power Supply Unit, cable between PSU and GX unit, cable between PSU and wall socket.



GX ORION "EXTENSION" PACKAGE INCLUDES: GX Orion lamp with UV & WH or only UV LEDs, 2 stainless steel bars and 1 cable connection for assembly short side to short side, 2 stainless steel brackets and 1 cable connection for assembly long side to long side, 4 chains with snap links.

5 reasons why GX Ori

1. The price of one GX Orion is between 50-70% lower than competing lights.

2. GX Orion offers the bestwarranty terms in the industry,4 years.

3. GX Orion has the highest IP class possible, IP68.

4. Zero LEDs out from day of launch, 6 years ago.

5. GX Orion is stable at switch on, no waiting time.

...affordable and durable!



on is a great choice





GX ORION REMOTE MOTHER UNIT (PN: L3100)

GX Orion REMOTE has been tested to comply with both ASTM E3022-18 and ISO 3059-12 standards. It generates an intensity that can be adjusted to vary from approximately 1500 to 7 000 μ W/cm², at a distance of 15 inches / 38 cm. It has a powerful white light that provides an illuminance

of 1 076 lux (100 fc) at a distance of 12 inches / 30 cm. A remote control allows you to switch on/off the UV and white Light, change the intensity and set up the timer from up to 5 meters (16 feet) away.



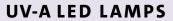
Powers on / off the UV light. The lamp has a built-in memory function that repeats the last intensity used.

FUNCTION:

Powers on / off the white light, with an illuminance of 1 076 lux (100 fc), at a distance of 12 inches / 30 cm.

Display shows the dimmer function in 250 steps. The UV irradiance can be increased (+) to achieve the maximum irradiance of 7000 μ W/cm² at step 250 or decreased (-) to achieve the minimum irradiance of 1500 μ W/cm² at step 1, at a distance of 15 inches / 38 cm.

Press + for increased time (up to 480 minutes or 8 hours) and - for decreased time (down to zero). The number of minutes the lamp is programmed to stay on before shutting down automatically is shown on the display.







GX ORION UV & WH MOTHER UNIT (PN: L3101)

GX Orion ^{UV & WH} has been tested to comply with both ASTM E3022-18 and ISO 3059-12 standards. It generates an intensity of approximately 7 000 μ W/cm² at 38 cm (15 inches). It has a powerful white light that can illuminate 1 076 lux (100 fc) at a distance of 12 inches / 30 cm. This model does not have a remote, it comes with one UV and one white light ON/OFF button.



GX Orion ^{uv} (PN: L3102)

GX Orion ^{UV} has been tested to comply with both ASTM E3022-18 and ISO 3059-12 standards as well as with the internal requirements of all PRIMES listed on page 8, including Rolls-Royce RRES 90061 and Airbus AITM6-1001. It generates an intensity of approximately 4 500 μ W/cm² at 38 cm (15 inches). This model does not have a remote, it comes with one UV ON/OFF button.

FACTS ABOUT GX ORION REMOTE AND GX ORION UV & WH

Output	GX Orion ^{REMOTE} and
Characteristics	GX Orion ^{UV & WH}
Intensity (maximum)	≈ 7 000 µW/cm²
Visible light	<3 lux / 0.3 fc
Beam > I 000 μW/cm ²	Ø 15 inches x 12 inches / 38 cm x 30 cm

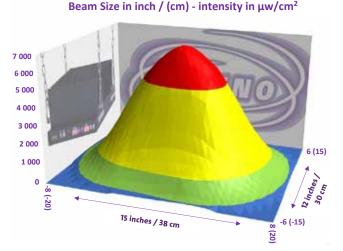
FACTS ABOUT GX ORION UV

Output Characteristics	GX Orion ^{uv}
Intensity	≈ 4 500 µW/cm ²
Visible light	< 1.5 lux / 0.2 fc
Beam > I 000 μW/cm ²	Ø 14 inches x 10 inches / 35 cm x 26 cm

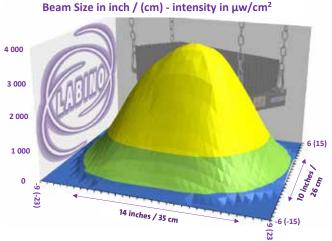
At a distance of 38 cm (15 inches)

At a distance of 38 cm (15 inches)

Beam profile > 1 000 μ W/cm² measured at 15 inches / 38 cm of GX Orion ^{REMOTE} and GX Orion ^{UV & WH} :



Beam profile > 1 000 μ W/cm² measured at 15 inches / 38 cm of GX Orion ^{uv}:





Accessories for GX Series



UV Block Goggles "XC" (PN: S505)

Foot Pedal (PN: A603 for GX Orion REMOTE) (PN: A605 for GX Orion UV & WH or GX Orion UV)

Power Button (PN: A604 for GX Orion REMOTE) (PN: A606 for GX Orion UV & WH or GX Orion UV)



THREE GX ORION UV MOUNTED TOGETHER **ON THE SHORT SIDE**

Multiple GX Orion ${}^{\scriptscriptstyle \rm UV}$ "extension" units can be mounted on a "mother" unit either on the long side or the short side.



THREE GX ORION REMOTE MOUNTED TOGETHER ON THE LONG SIDE

Multiple GX Orion REMOTE "extension" units can be mounted on a "mother" unit either on the long side or the short side.



THREE GX ORION UV & WH MOUNTED TOGETHER **ON THE SHORT SIDE**

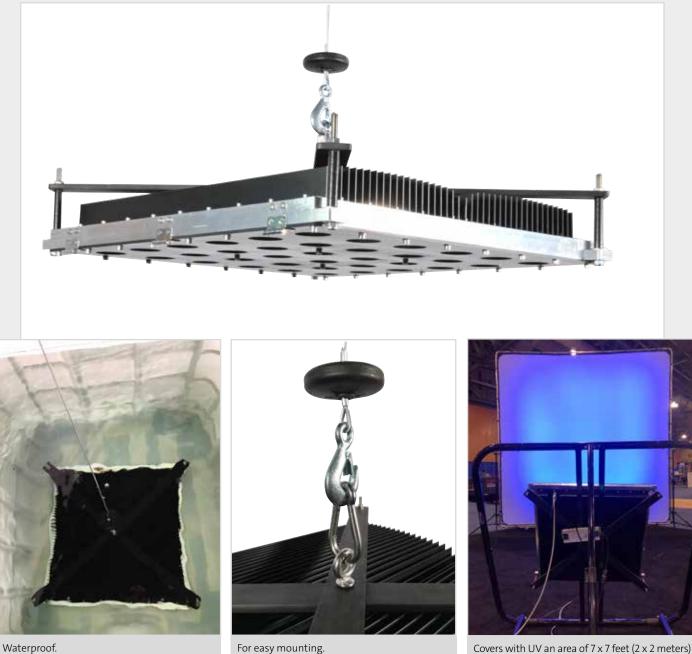
Multiple GX Orion UV & WH "extension" units can be mounted on a "mother" unit either on the long side or the short side.



Cosmos (pn: L3200)

4 Year warranty

Introducing Cosmos, a truly unique product that was missing from the NDT industry. A UV light, specifically designed to withstand the harsh conditions of a wash station, covering an area of 2 x 2 meters (7 x 7 feet) from a distance of 3 meters (10 feet) – the largest UV beam in the world! Cosmos comes with a 4-year warranty.



Waterproof.

Covers with UV an area of 7 x 7 feet (2 x 2 meters) from a distance of 10 feet (3 meters) – the largest UV beam in the world!



Wash station areas are often neglected. They are equipped with multiple UV tubes that require frequent replacement or with UV lights that are no longer considered suitable for use on inspection booths.

Some UV lights designated for wash stations generate

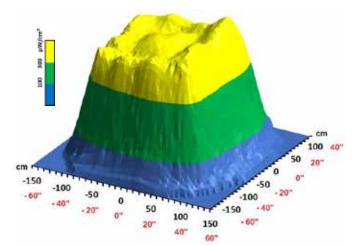
As more LEDs fail, irradiance drops, undetected. The NDT technician should control the equipment and not the equipment the NDT technician.

Cosmos is a UV light, specifically designed for wash stations, it has excellent heat management and allows you

Cosmos (PN: L3200) has been specifically designed for wash stations, covering with UV an area of 2 x 2 meters (7 x 7 feet) from a distance of 3 meters (10 feet) the largest UV beam in the world

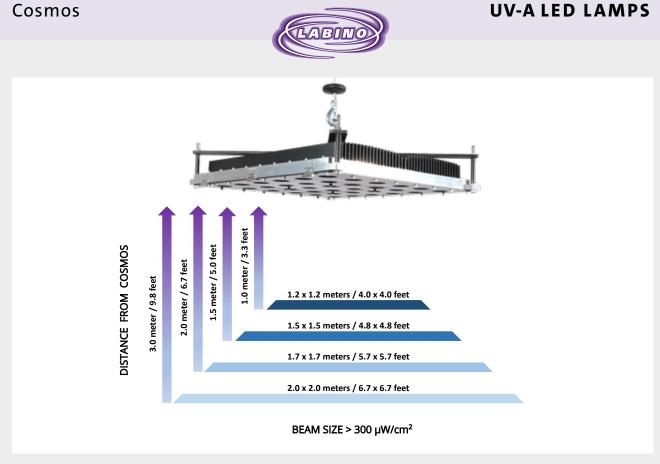
excessive heat due to a common design mistake. These lights have several LEDs mounted together in a very small housing. The objective is to forcefully emit as much UV as possible, causing the LEDs to have a short lifespan. Often, you cannot see if LEDs fail because several are mounted together in the same position and unless all are out there is no suspicion of failure. to be in control. You can visually inspect if there is a problem with any UV LED and you can maintain the light on your own as ASTM E3022-18 is not applicable for wash stations. Replacement LED parts are available for you to stock and replace onsite, if needed.

Beam profile > 100 $\mu W/cm^2$ and 300 $\mu W/cm^2$ measured from a distance of 3.0 meters / 9.8 feet:



Cosmos is more cost-effective than any other UV light designated for wash stations for the following reasons:

- 1. Cosmos generates a much larger UV beam than any other UV LED light in the world.
- The beam shape of Cosmos is a perfect square. You need at least 4 lights from the closest competing light to try and match the performance of Cosmos, and you will still have several dead spots as illustrated on the drawing on page 31.
- 3. Due to the large area covered by Cosmos, the actual cost of one Cosmos unit is 25% or less than any other brand.
- 4-year warranty longest warranty than any other light used in wash areas.



Cosmos generates a much larger UV beam than any other UV LED light in the world.

Cosmos (PN: L3200) includes:

UV Block Visor (PN: S401)

Power supply unit with a 10 meter (33 feet) cord (PN: S153)

Push Button with a 10 meter (33 feet) cord (PN: S154)





Improvements of Apollo 3.0 and advantages over other meters



HIGHER IP CLASS FOR ENCLOSURE

The sensor unit of Apollo 3.0 is IP67 classified, compared to Apollo 2.0 that is IP40. Therefore, the unit is dustproof and waterproof.



BATTERIES ACCESSIBLE FROM THE OUTSIDE

The batteries are accessible from the outside in the new enclosure. Therefore, the unit does not have to be opened or re-calibrated when changing batteries.



NO LITHIUM BATTERIES

GENERAL FATIGUE DRIFT

The Apollo 3.0 sensor is operated using three Alkaline batteries (3 x AAA 1.5 volt). The new batteries do not require Dangerous Goods Management (DGS) and the meter is therefore easier to ship with air freight.

The fatigue is close to non-existing. The

readings drop by 0.1% after 30 minutes

irradiation with 50 000 μ W/cm².



cred. no. 10391 Calibration

ISO/IEC 17025

WIRELESS

The reader unit and the sensor unit are completely wireless and communicate with one another up to 5 meters (16 feet). No loose connections, cut or worn-out cables from penetrants.



US AIRFORCE APPROVAL

The Apollo 3.0 has been approved for use by the United States Airforce.

ISO 17025 LAB

The meter comes calibrated by Labino AB, an ISO 17025 calibration lab with scope in UV and white light calibrations. SWEDAC accreditation Number 10391.

ZERO DRIFT IN EXTREME TEMPERATURES

Apollo 3.0 has close to no temperature drift within the operating temperature range. Performing UV measurements at 0°C or 40°C (32°F or 104°F) shows the exact same readings.

Quadruple your warranty period by using Labino authorized calibration labs

 Americas: Berg Engineering, Chicago, Illinois – Tel: 847 577 3980
 Hocker Inc., Houston, Texas – Tel: 713 464 5829
 Quality Equipment Distributors, Houston, Texas – Tel: 713 277 7913
 IR Supplies and Services, Edmonton, Alberta – Tel: 855 737 2689
 Asia/Oceania: Aeronautical Inspection, Sydney, Australia – Tel: 0438600362
 Al Kwang, Kaohsiung City, Taiwan – Tel: 073757377 Europe:

Labquip NDT, Hinckley, U.K – Tel: 07385 107790 Utiles y Maquinas, Bilbao, Spain – Tel: 944 46 62 50 Action NDT, St. Etienne de Tulmont, France – Tel: 05 82 73 01 06 Labino AB, Stockholm, Sweden – Tel: 08 83 90 70 CGM Cigiemme, Milan, Italy – Tel: 02 57 60 04 00



Apollo 3.0 (Single Kit PN: M513, Double kit PN: M514)



1 year warranty — extends to 4 years if recalibrations are carried only by authorized Labino calibration labs

Radiometer/photometer measuring UV and visible light via a wireless sensor. Apollo 3.0 is traceable to NIST (National Institute of Standards and Technology) and is in compliance with ISO 3059-12. We calibrate Apollo 3.0 in accordance to ISO / IEC 17025. Our accreditation has been certified by SWEDAC and carries the accreditation number 10391. Our Apollo 3.0 dual meter calibration services are now offered in Chicago (USA), Houston (USA), Edmonton (CANADA), Stockholm (SWEDEN), Bilbao (SPAIN), St. Etienne de Tulmont (FRANCE), Hinckley (U.K), Milan (ITALY), Kaohsiung City (TAIWAN) and Sydney (AUSTRALIA). All authorized calibration centers follow a specific process proprietary to Labino, all have the same equipment, and all receive the same training.





An instrument for accurate measurement of UV-A irradiation and visible illuminance. 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 containing only non-fluorescent materials. The instrument provides fast measurement as it offers auto ranging and concurrent measuring of visible light and UV-A irradiation. It is ergonomic and easy to use due to its light weight chassis, wireless sensor unit and compact size. Apollo 3.0 is traceable to NIST (USA's National Institute of Standards and Technology).

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. Each sensor unit incorporates both the UV and white light sensor.

Apollo 3.0 comes as a single kit or as a double kit. The single kit includes one reader unit and one wireless sensor unit. A double kit includes one reader unit and two wireless sensor units. As only the sensor needs to be send for recalibration, the double kit is a convenient tool so that operations are never disrupted. Please note that Aerospace companies that are audited by Nadcap must send in both the reader and the sensor for recalibration.

The meter features hold and peak functions. The "Hold" function stores the present value measured and the "Peak" function stores the highest value measured.

SPECTRAL SPECIFICATION APOLLO 3.0

	UV Light Sensor
Spectral Sensitivity:	320 nm to 400 nm
Sensitivity.	
Operation Range:	0 to 50,000 μW/cm ²
Accuracy:	UV Light: +/- 4 %
White Light Sensor	
	White Light Sensor
	White Light Sensor
Spectral	White Light Sensor
Spectral Sensitivity:	White Light Sensor 400 nm to 700 nm
•	



APOLLO 3.0 SINGLE KIT PACKAGE INCLUDES: Reader unit, Sensor unit, Calibration certificate, Carrying case.



APOLLO 3.0 DOUBLE KIT PACKAGE INCLUDES: Reader unit, two sensor units, Calibration certificate, Carrying case.

Accessories for Apollo 3.0

Olympos

(PN: A542)





Olympos (PN: A542)

Measure the UV-A and white light output of any of your Labino UV-A LED lights with accuracy at 15 inches (38 cm) and stay in compliance with the pledged standards.





Over the last 5 years, the NDT industry has adopted new standards for LED blacklights, authored by ASTM (i.e. ASTM E3022-18) and the PRIMES (i.e. Rolls-Royce RRES 90061, Airbus AITM6-1001), to ensure that the properties and quality of the UV lights used are suitable for NDT inspections. Labino has UV lights in its product portfolio that are tested to comply with all relevant ASTM, ISO and PRIMES requirements. These requirements as well as the various checklists of NDT Technicians, such as NADCAP compliant technicians, require frequent tests and measurements of the UV lights at a distance of 15 inches (38 cm).

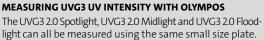
Labino is proud to introduce to the market, Olympos, the first measurement stand for UV lights, especially designed to conduct such measurements and help NDT professionals to remain in compliance with the pledged standards.

Olympos measurement stand comes with four different size plates that can be used interchangeably on the stand. This enables all Labino LED blacklights (UVG3 2.0 Series, UVG5 2.0 Series, MB 3.0 Series, BB 2.0 Series) to be measured from the same distance using the Labino Apollo 3.0 UV and White light meter or any other meter.



MEASURING MB 3.0 SERIES UV-A INTENSITY WITH OLYMPOS Hercules, Zeus, Hermes, Selene and Atlas can all be measured using the same medium size plate.







THREE DIFFERENT SIZE PLATES THAT FIT ALL LABINO HANDHELD LIGHTS Olympos measurement stand comes with four different size plates that can be used interchangeably on the stand. This enables all Labino portable UV-A lights (UVG3 2.0 Series, UVG5 2.0 Series, MB 3.0 Series, BB 2.0 Series) to be measured with accuracy. The large plate is used to measure BB 2.0 Series lights, the medium plate is used to measure MB 3.0 Series lights and the two smaller plates are used for all UVG3 2.0 and UVG5 2.0 Series lights.



MEASURING UVG5 UV INTENSITY WITH OLYMPOS The UVG5 2.0 Spotlight, UVG5 2.0 Midlight and UVG5 2.0 Floodlight can all be measured using the same small size plate.



List of Part Numbers

UVG3 2.	0 SERIES LIGHTS AND ACCESSORIES
L124	UVG3 2.0 SPOTLIGHT
L125	UVG3 2.0 MIDLIGHT
L126	UVG3 2.0 FLOODLIGHT
	Contact us for select combinations of double kits
A532	UVG Variable Gooseneck Arm
F107	Rubber Bumper for UVG3 2.0 Series
UVG5 2.	0 SERIES LIGHTS AND ACCESSORIES
L127	UVG5 2.0 SPOTLIGHT with white light
L128	UVG5 2.0 MIDLIGHT with white light
L129	UVG5 2.0 MIDLIGHT without white light
L130	UVG5 2.0 FLOODLIGHT with white light
L131	UVG5 2.0 FLOODLIGHT without white light
MB 3.0 9	SERIES LIGHTS AND ACCESSORIES
L119	MB 3.0 Zeus Mains
L118	MB 3.0 Zeus Battery
L122	MB 3.0 Zeus Battery w/Athena
L121	MB 3.0 Hermes Mains
L120	MB 3.0 Hermes Battery
L123	MB 3.0 Hermes Battery w/Athena
L139	MB 3.0 Selene Mains
L138	MB 3.0 Selene Battery
L140	MB 3.0 Selene Battery W/Athena
L125	MB 3.0 Atlas Mains
L124	MB 3.0 Atlas Battery
L126	MB 3.0 Atlas Battery W/Athena
A533	MB Variable Gooseneck Arm
A538	Flexible Arm for MB 3.0 Series Mains Units
A541	Flexible Arm for MB 3.0 Series Battery Units
F106	Rubber Bumper for MB 3.0 Series
F111	Rubber Bumper for MB 2.0 Series (fits Hercules Ex)
F105	Thumb screws for MB 3.0 Series (Battery only)
A504	MB 3.0 Belt holster
A507	MB 3.0 Hand grip band
HERCUL	ES EX
L3000	Hercules Ex

BB 2.0 S	ERIES LIGHTS AND ACCESSORIES
L1074	BB 2.0 Ikaros Mains
L1075	BB 2.0 Ikaros Battery
L1076	BB 2.0 Helios Mains
L1077	BB 2.0 Helios Battery
L1078	BB 2.0 Artemis Mains
L1079	BB 2.0 Artemis Battery
A536	Flexible Arm for BB 2.0 Series Units (Mains or Battery)
A530	Friction Arm for BB 2.0 Series (or MB 2.0 Series)
F175	Cable Winder for BB 2.0 Mains
F800 & F801	Mounting yoke with brackets and screws
GX ORI	ON LIGHTS AND ACCESSORIES
L3100	GX ORION REMOTE MOTHER UNIT
L3101	GX ORION UV & WH MOTHER UNIT
L3102	GX ORION UV MOTHER UNIT
L3104	GX ORION ^{UV & WH} SLAVE UNIT (fits GX ORION ^{REMOTE} and GX ORION ^{UV & WH} MOTHER UNITS)
L3105	GX ORION ^{uv} SLAVE UNIT (fits GX ORION ^{uv} MOTHER UNIT only)
A603	Foot Pedal for GX Orion REMOTE
A605	Foot Pedal for GX Orion ${}^{{\scriptscriptstyle UV\&WH}}$ or GX Orion ${}^{{\scriptscriptstyle UV}}$
A604	Power Button for GX Orion REMOTE
A606	Power Button for GX Orion ${}^{{\scriptscriptstyle UV\&WH}}$ or GX Orion ${}^{{\scriptscriptstyle UV}}$
APOLLO	3.0
M513	Apollo 3.0 Single Kit (1 reader, 1 sensor)
M514	Apollo 3.0 Double Kit (1 reader, 2 sensors)
M515	Apollo 3.0 sensor unit only
M508	Apollo 3.0 reader unit only
M517	Apollo Blue Single Kit (1 reader, 1 sensor)
GENER	AL ACCESSORIES
A542	Olympos Measurement Stand for Apollo 2.0/BB 2.0 Series/MB 2.0 Series/UVG Series
S401	UV Block Visor
S505	UV Block Goggles "XC"
COSMO	S
L3200	Cosmos



Labino North America Customer Service: Tel: +1 202 888 2025 Email: labino@labino.com Labino European Customer Service: Tel: +46 8 83 90 70 Email: labino@labino.com

Hercules EX 4 Year warranty



GX Orion 4 Year warranty



Apollo 3.0 4 Year warranty



We provide the best warranty terms in the industry, and we maintain a growing UV-A product line, demonstrating our commitment to innovation, quality, and our customers



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.