



The 2021 Labino NDT Catalog is dedicated to the men and women in uniform that keep us safe



LABINO NDT

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
USAF
Requirements



INDUKALA.CO
Non-Destructive Test (NDT) Equipment

تامین تجهیزات و مواد مصرفی تست های غیر مخرب ایران
۰۲۱-۷۱۰۵۳۸۸۸ | ۰۹۱۲۰۲۴۶۲۷۰

Labino AB
50 Countries – 80 Distributors – 25 Service Centers – 7 Calibration Centers





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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

(France) and Singapore. 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 accredited Calibration Laboratory as per ISO/IEC 17025.

” we offer a 3-year warranty on our new stationary lights and a 2-year warranty on our new portable lights ”

this product portfolio with newer technologies. That is why we offer a 3-year warranty on our new stationary lights and a 2-year warranty on our new portable lights.

All Labino products are manufactured in Sweden with many first to market products in our portfolio such as 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 2.0 dual meter calibration services are now offered in Chicago (USA), Houston (USA), Toronto (Canada), Stockholm (Sweden), Bilbao (Spain), St. Etienne de Tulmont

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

NDTKALA.CO
Non-Destructive Test (NDT) Equipment

تأمین تجهیزات و مواد مصرفی تست های غیر مخرب ایران
۰۲۱-۲۱۰۵۳۸۸۸ | ۰۹۱۲۰۲۶۶۲۷۰



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:



AEROSPACE

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



AUTOMOTIVE

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

BB 2.0 Series is now penetrant resistant and has an Ingress Protection 68 (IP68 Waterproof). The beam profile is probably the largest and smoothest from any portable UV light on the market today. Depending on the model, the beam diameter is 10-11 inches / 26-28 cm. BB 2.0 Ikaros and BB 2.0 Helios maintain the existing intensities of $\approx 4\ 000\ \mu\text{W}/\text{cm}^2$ and $\approx 9\ 000\ \mu\text{W}/\text{cm}^2$, respectively, with improved battery running times of 7 hours and 6 hours, respectively. BB 2.0 Artemis is the most powerful handheld UV LED light in the world with UV intensity in excess of $22\ 000\ \mu\text{W}/\text{cm}^2$.

UVG3 2.0 is now penetrant resistant and has an Ingress Protection 68 (IP68 Waterproof). Depending on the model, the beam diameter is 3-5 inches / 8-12.5 cm. The floodlight model has been tested to comply with ASTM E3022-18, Airbus AITM6-1001 and Rolls-Royce RRES 90061.

UVG5 2.0 is the only UV headlight worldwide in compliance with Rolls-Royce RRES 90061. Five different models offer users plenty of battery life and white light options.

MB 3.0 now comes with higher UV intensities as well. Selene and Atlas have UV intensities in excess of $9\ 000\ \mu\text{W}/\text{cm}^2$. Zeus and Hermes maintain intensities of $4\ 500\ \mu\text{W}/\text{cm}^2$.

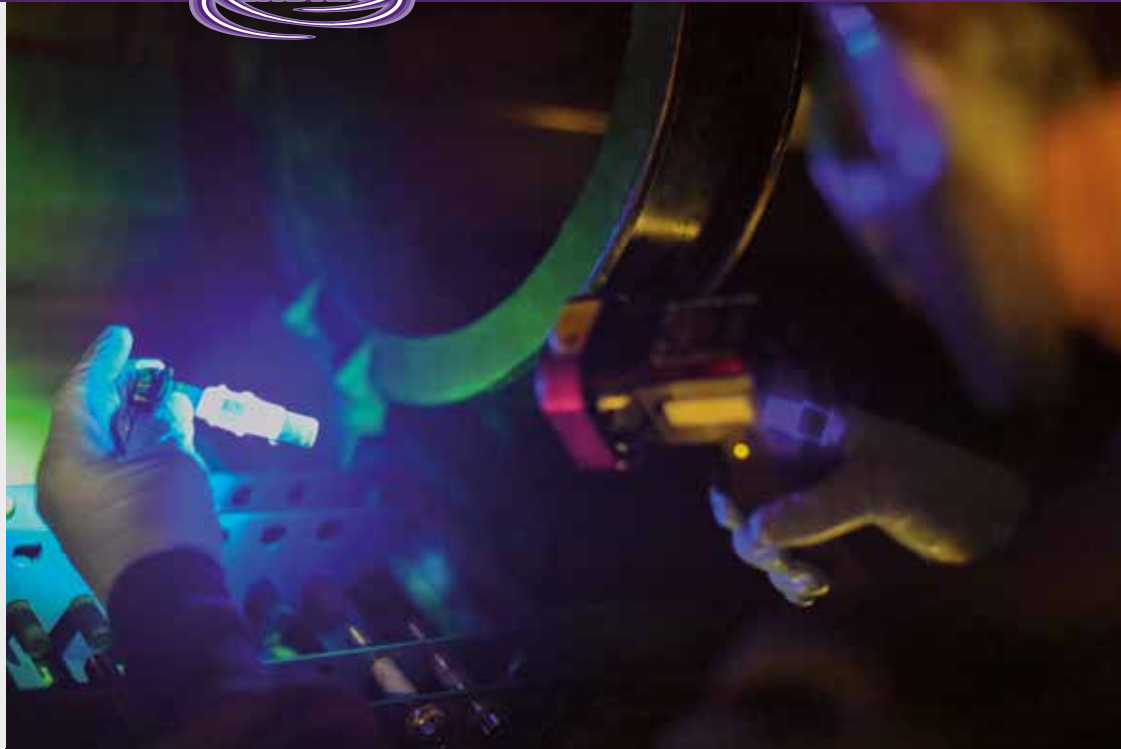
Don't miss the Inspector Kit, a combination of 3 UV lights (MB 3.0, UVG3 2.0, UVG5 2.0) and 1 UV meter (Apollo 2.0).

Warranty Policy

All stationary GX Orion models carry a 3 year warranty. All portable models launched in 2019 or after, namely BB 2.0 Series, UVG3 2.0 Series, UVG5 2.0 Series and MB 3.0 Series carry a 2-year warranty.



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.



NDI Technician of the 108th Maintenance Squadron looks at cracks seen on a KC-135 Stratotanker part using a Labino BB 2.0 Series UV light, during a training session at Joint Base McGuire-Dix-Lakehurst, N.J., April 22, 2017.

Compliance with relevant ASTM and ISO Standards as well as Industry Engineering specifications

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 RRES90061 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	✓	-	-	-	-	✓	-
GX Orion UV & WH	✓	≈ 7 000	✓	✓	✓	✓	-	✓	-
GX Orion UV	-	≈ 4 500	✓	✓	✓	✓	✓	✓	✓
BB 2.0 SERIES – HANDHELD LIGHT									
BB 2.0 Helios	-	≈ 9 000	✓	-	✓	✓	-	✓	✓
BB 2.0 Ikaros	-	≈ 4 000	✓	✓	✓	✓	✓	✓	✓
BB 2.0 Artemis	-	≈ 22 000	✓	-	-	-	-	✓	-
MB 3.0 SERIES – HANDHELD LIGHT									
Hercules Ex	-	≈ 4 000	✓	✓	✓	✓	✓	✓	✓
MB 3.0 Zeus	✓	≈ 4 500	✓	✓	✓	✓	-	✓	-
MB 3.0 Zeus with Athena	✓	≈ 4 500	✓	✓	✓	✓	-	✓	-
MB 3.0 Hermes	-	≈ 4 500	✓	✓	✓	✓	✓	✓	✓
MB 3.0 Hermes with Athena	-	≈ 4 500	✓	✓	✓	✓	-	✓	-
MB 3.0 Selene	✓	≈ 9 000	✓	-	✓	✓	-	✓	-
MB 3.0 Selene with Athena	✓	≈ 9 000	✓	-	✓	✓	-	✓	-
MB 3.0 Atlas	-	≈ 9 000	✓	✓	✓	✓	-	✓	✓
MB 3.0 Atlas with Athena	-	≈ 9 000	✓	✓	✓	✓	-	✓	✓
MB 2.0 SERIES – FLASHLIGHT / HEADLIGHT									
UVG3 2.0 Spotlight	-	≈ 80 000	✓	-	-	-	-	✓	-
UVG3 2.0 Midlight	-	≈ 9 000	✓	-	✓	✓	-	✓	✓
UVG3 2.0 Floodlight	-	≈ 4 000	✓	✓	✓	✓	✓	✓	✓
UVG5 2.0 Spotlight	optional	≈ 80 000	✓	-	-	-	-	✓	-
UVG5 2.0 Midlight	optional	≈ 9 000	✓	-	✓	✓	-	✓	✓
UVG5 2.0 Floodlight	-	≈ 4 000	✓	✓	✓	✓	✓	✓	✓

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).



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



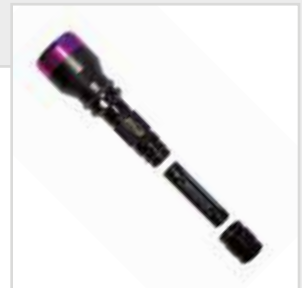
2 Year warranty

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 $80\ 000\ \mu\text{W}/\text{cm}^2$! 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 8 hours.



ONE UV LED WITH WHITE LIGHT BLOCK FILTER

A high quality UV LED with respective high quality white light block filter that does not suffer from solarization.



BATTERY POWERED

Powered by a battery that can be recharged either by a cigarette outlet in a vehicle or a wall outlet. Both chargers are supplied with each unit.



BELT HOLSTER

Each UVG3 2.0 torch is supplied with a belt holster.



RUBBER BUMPER

Protects your light from mechanical impacts and prevents it from rolling.



ON/OFF SWITCH

On/Off switch is positioned at the back to prevent accidental activation.



OLYMPUS MEASUREMENT STAND

Perform daily checks and confirm compliance with pledged standards using Olympus stand (PN: A542).



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.

- COMPLIES WITH
ASTM E3022-2018
Standard
- COMPLIES WITH
Rolls-Royce RRES 90061
Specification
- COMPLIES WITH
Airbus AITM6-1001
Testing Method
- COMPLIES WITH
USAF
Requirements

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 $\mu\text{W}/\text{cm}^2$ at 38 cm (15 inches). The battery running time is 4 hours.

Beam profile > 1 000 $\mu\text{W}/\text{cm}^2$ measured at 15 inches/ 38 cm of UVG3 2.0 Floodlight:



FACTS ABOUT UVG3 2.0 FLOODLIGHT

Output Characteristics	UVG3 2.0 Floodlight
Intensity	$\approx 4\ 000\ \mu\text{W}/\text{cm}^2$
Visible light	$< 1.5\ \text{lux} / 0.1\ \text{fc}$
Beam > 1 000 $\mu\text{W}/\text{cm}^2$	$\varnothing 4.8\ \text{inches} / 12\ \text{cm}$

At a distance of 38 cm (15 inches)



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:

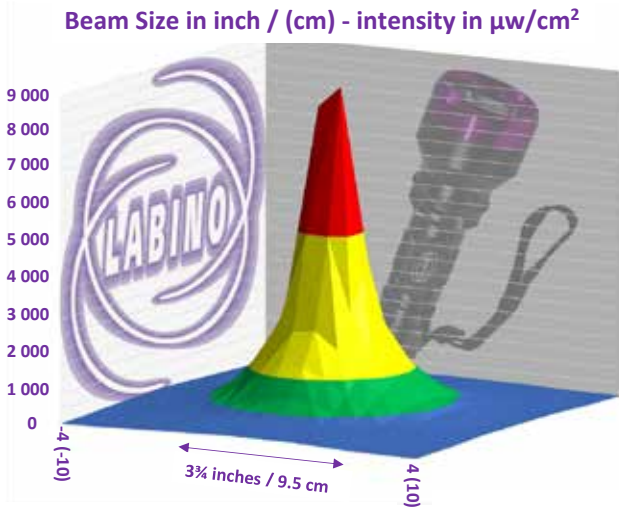
Lamp, Car Charger, Two Batteries, UV Block Goggles, External Charger for wall outlet, carrying case, belt holsters, wrist band, rubber bumper.



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. UVG3 2.0 Midlight also complies with Airbus AITM6-1001 at a working distance of 21 inches (53 cm). They generate intensities of approximately 80 000 $\mu\text{W}/\text{cm}^2$ and 9 000 $\mu\text{W}/\text{cm}^2$ at 38 cm (15 inches), respectively. The battery running time is 4 hours for the Spotlight and 8 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 $\mu\text{W}/\text{cm}^2$ measured at 15 inches/ 38 cm of UVG3 2.0 Midlight:



FACTS ABOUT UVG3 2.0 Spotlight and UVG3 2.0 Midlight

Output Characteristics	UVG3 2.0 Spotlight	UVG3 2.0 Midlight
Intensity	$\approx 80\ 000\ \mu\text{W}/\text{cm}^2$	$\approx 9\ 000\ \mu\text{W}/\text{cm}^2$
Visible light	$< 20\ \text{lux} / 2\ \text{fc}$	$< 3\ \text{lux} / 0.3\ \text{fc}$
Beam > 1 000 $\mu\text{W}/\text{cm}^2$	$\varnothing 3.0\ \text{inches} / 7.6\ \text{cm}$	$\varnothing 3.8\ \text{inches} / 9.5\ \text{cm}$

At a distance of 38 cm (15 inches)

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 supply:	Battery
Weight UVG3 2.0:	211 grams (7.4 oz)
Battery running time:	Spotlight: 4 hours Midlight: 8 hours Floodlight: 4 hours

Accessories for UVG3 2.0 Series

UVG3 2.0	
UV Block Visor (PN: S400)	
UV Block Goggles "XC" (PN: S505)	
Tripod (PN: A600)	
UVG Gooseneck ARM (PN: A532)	
Customized Carrying Case (PN: C3100 for one torch) (PN: C3300 for two torches)	



UVG5 2.0

COMPLIES WITH
ASTM E3022-2018
Standard

COMPLIES WITH
Rolls-Royce RRES 90061
Specification

COMPLIES WITH
Airbus AITM6-1001
Testing Method

COMPLIES WITH
USAF
Requirements

2 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 $80\ 000\ \mu\text{W}/\text{cm}^2$! 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.



ADJUSTABLE LIGHT

The lamp can be adjusted to three different angles.



BATTERY POWERED

Powered by two lithium batteries that can be recharged either by a cigarette outlet in a vehicle, a wall outlet or a PSU charger (without removing the batteries).



ONE UV LED WITH WHITE LIGHT BLOCK FILTER AND OPTIONAL FOUR WHITE LIGHT LEDS

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.



ON/OFF SWITCH

On/Off switch is positioned at the back to prevent accidental activation.

FACTS ABOUT UVG5 2.0

Part Number	Model	White Light	UV Intensity / Beam Size
L127	UVG5 2.0 Spotlight	YES	80 000 $\mu\text{W}/\text{cm}^2$ / \varnothing 3 inches / 7.6 cm
L128	UVG5 2.0 Midlight	YES	9 000 $\mu\text{W}/\text{cm}^2$ / \varnothing 3.8 inches / 9.5 cm
L129	UVG5 2.0 Midlight	NO	9 000 $\mu\text{W}/\text{cm}^2$ / \varnothing 3.8 inches / 9.5 cm
L130	UVG5 2.0 Floodlight	YES	4 000 $\mu\text{W}/\text{cm}^2$ / \varnothing 4.8 inches / 12 cm
L131	UVG5 2.0 Floodlight	NO	4 000 $\mu\text{W}/\text{cm}^2$ / \varnothing 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 $\mu\text{W}/\text{cm}^2$, 9 000 $\mu\text{W}/\text{cm}^2$ and 4 000 $\mu\text{W}/\text{cm}^2$ at 38 cm (15 inches), respectively. The battery running time is approximately 8 hours for the Spotlight

and 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.



MB 3.0 Zeus

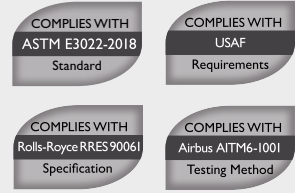
(Mains model PN: L119, Battery model PN: L118)

MB 3.0 Hermes

(Mains model PN: L121, Battery model PN: L120)

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

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



2 Year warranty

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 $\approx 4\,500$ to $9\,000 \mu\text{W}/\text{cm}^2$. 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 "OLYMPUS"

Your daily NADCAP and/or ASTM E3022-18 checks can be carried out accurately with an Olympus stand (PN: A542) and an Apollo 2.0 dual meter (PN: M505).



AC (MAINS) POWERED MODELS

come with 8 ft (2.5 meter) 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 2.5 meter (8 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.

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 4 500 μW/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 1 076 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.

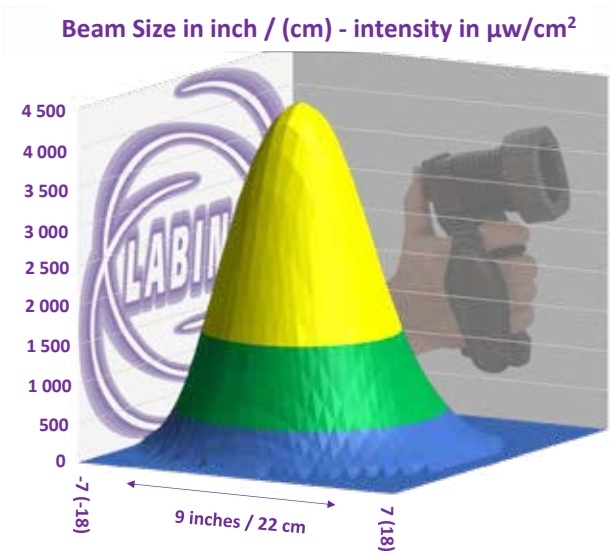
MB 3.0 Hermes (battery) with Athena, PN: L123.

FACTS ABOUT MB 3.0 ZEUS, MB 3.0 HERMES

Output Characteristics	MB 3.0 Zeus MB 3.0 Hermes
Intensity	≈ 4 500 μW/cm ²
Visible light	< 2 lux / 0.2 fc
Beam > 1 000 μW/cm ²	Ø 9 inches / 22 cm

At a distance of 38 cm (15 inches)

Beam profile > 1 000 μW/cm² measured at 15 inches / 38 cm of Zeus and Hermes:

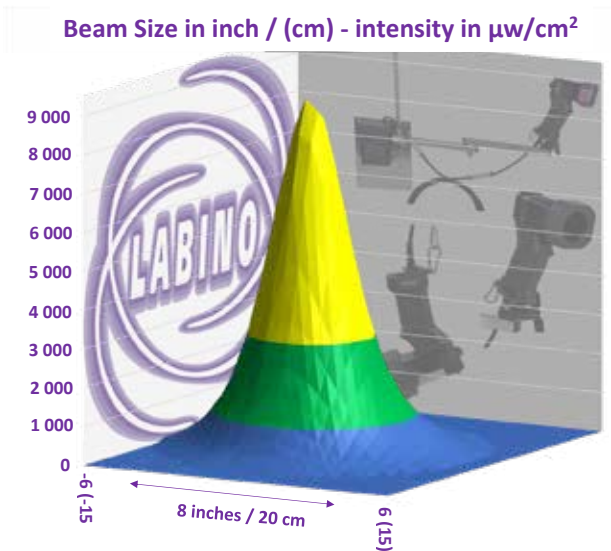


FACTS ABOUT MB 3.0 SELENE, MB 3.0 ATLAS

Output Characteristics	MB 3.0 Selene MB 3.0 Atlas
Intensity	≈ 9 000 μW/cm ²
Visible light	< 4 lux / 0.4 fc
Beam > 1 000 μW/cm ²	Ø 8 inches / 20 cm

At a distance of 38 cm (15 inches)

Beam profile > 1 000 μW/cm² measured at 15 inches / 38 cm of Selene and Atlas:



NDI Technicians of the 100th Maintenance Squadron perform a magnetic particle inspection on sample parts, at RAF Mildenhall, England, using Labino MB 2.0 Series UV lights.



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. Both models comply with Airbus AITM6-1001 at a working distance of 21 inches (53 cm). MB 3.0 Atlas complies with the internal requirements of US Airforce as well. These UV lights generate an intensity of approximately 9 000 μW/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 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 time:	30 000 hours
UV-B:	100% free from UV-B
Filter:	White light block filter
Power supply:	Battery and 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 Zeus, MB 3.0 Hermes, MB 3.0 Selene, MB 3.0 Atlas	
UV Block Visor (PN: S400)	
UV Block Goggles "XC" (PN: S505)	
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)	



NDT Inspector Kit

(PN:K001)

2 Year warranty

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.



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.



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

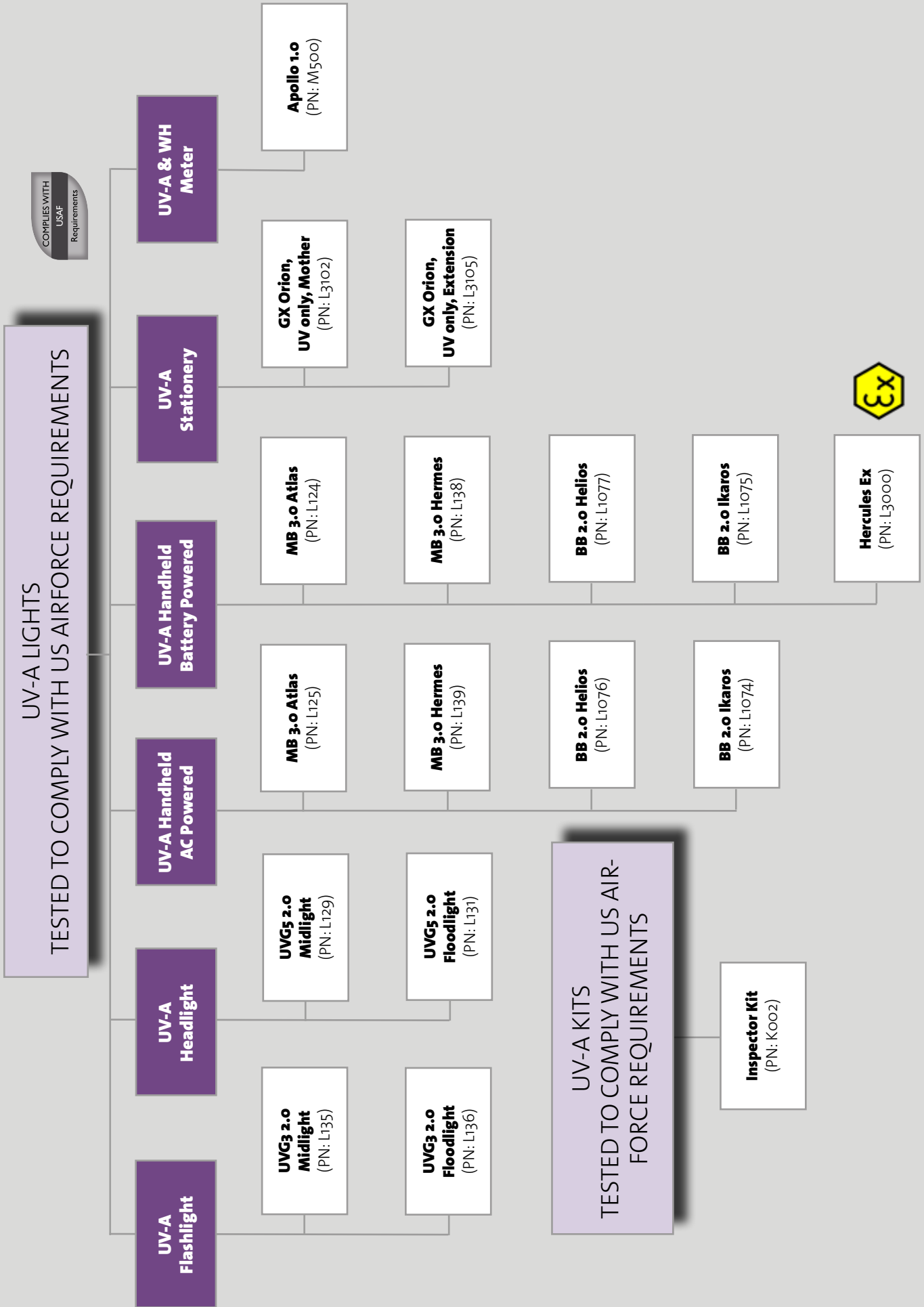


APOLLO 2.0
UV-A & White light meter calibrated by an ISO/ IEC 17025 laboratory – PN: M505.



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

US Airforce NDT Technicians should instead 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) and UVG3 2.0 Midlight (PN: L135) – All in compliance with USAF internal requirements.





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.



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 Strato-tanker's landing gear in fluorescent chemicals and inspects using a Labino UVG3 2.0 UV light at McConnell Air Force Base.



Hercules Ex

(PN: L3000)

COMPLIES WITH
ASTM E3022-2018
Standard

COMPLIES WITH
Rolls-Royce RRES 90061
Specification

COMPLIES WITH
Airbus AITM6-1001
Testing Method

COMPLIES WITH
USAF
Requirements

2 Year warranty

Designed upon request of the military, Hercules is probably the most durable and shock-proof 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.



ON/OFF SWITCH
On/Off switch at the back prevents accidental activation.



FOUR UV LEDS WITH WHITE LIGHT BLOCK FILTERS
Four high quality UV LEDs with respective high quality white light block filters that do not suffer from solarization.



BATTERY POWERED
Hercules Ex is powered with two rechargeable batteries for ease of use in field inspections and tight work spaces.



CHARGE BATTERIES WITHOUT REMOVING FROM THE LAMP
A charger with an internal connector can be used to charge batteries without removing them from the lamp. Charger must not be used in explosive atmospheres.



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 µW/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 2-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 > 1 000 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 supply:	Battery
Weight:	888 grams (2.0 lbs)
Battery running time:	3 hours (+/- 5%)



EXPLOSIVE ATMOSPHERE CERTIFICATIONS

ATEX certified for Group II, Zone II (Certificate: ITS17ATEX402144X), IECEx, NFPA 70 Article 500 for Class I (divisions II locations), Explosive Atmosphere Test as per MIL-STD-810G.



OPERATE THE LAMP AS MAINS WHILE CHARGING 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.



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)

COMPLIES WITH
ASTM E3022-2018
Standard

COMPLIES WITH
Rolls-Royce RRES 90061
Specification

COMPLIES WITH
Airbus AITM6-1001
Testing Method

COMPLIES WITH
USAF
Requirements

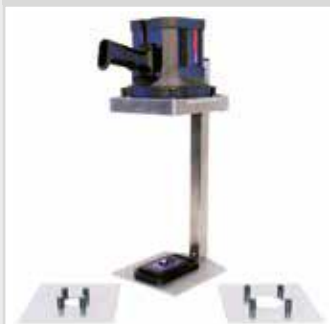
2 Year warranty

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 $22\ 000\ \mu\text{W}/\text{cm}^2$. 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.



BB 2.0 BATTERY (DUO) OR MAINS ON A FLEXIBLE ARM

All BB 2.0 Series models can be mounted on a flexible arm with the help of a handle adaptor. The flexible arm (PN: A536) can be supplied by Labino.



OPTIONAL MEASUREMENT ACCESSORY "OLYMPUS"

Your daily NADCAP and/or ASTM E3022-18 checks can be carried out accurately with an Olympos stand (PN: A542) and an Apollo 2.0 dual meter (PN: M505).



POWERED VIA BATTERY AND MAINS (DUO) OR JUST MAINS

Powered with your choice of either battery and mains or just mains. The battery version (referred to as DUO) can also be used as mains and operate the lamp while charging the battery.



ON/OFF SWITCH

On/Off switch at the back prevents accidental activation.



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.

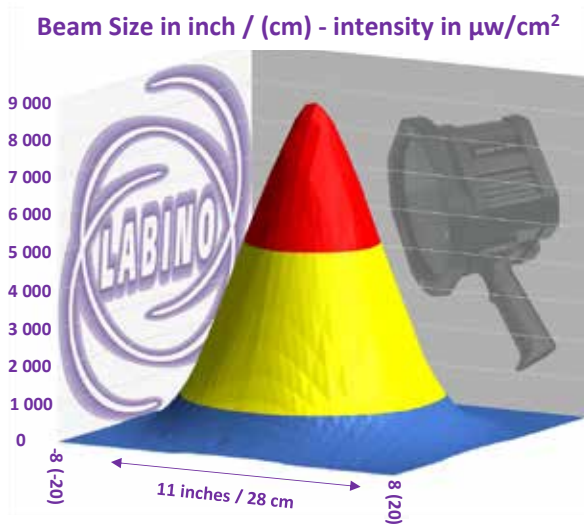
The BB 2.0 Series family of products has been specifically designed to meet the ASTM E3022-18 and ISO 3059-12 standards as well requirements set by the PRIMES. The optics used in the BB 2.0 Series meet the Rolls-Royce RRES 90061 specification. The beam profile of the UV light is extremely homogenous 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 has also been tested to comply with Airbus AITM6-1001 at a working distance of 24 inches / 60 cm. It generates an intensity of approximately 9 000 $\mu\text{W}/\text{cm}^2$ at 38 cm (15 inches). The running time of the battery version is 6 hours.

Beam profile > 1 000 $\mu\text{W}/\text{cm}^2$ measured at 15 inches / 38 cm of BB 2.0 Helios:



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 $\mu\text{W}/\text{cm}^2$ 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.

FACTS ABOUT BB 2.0 HELIOS and BB 2.0 ARTEMIS

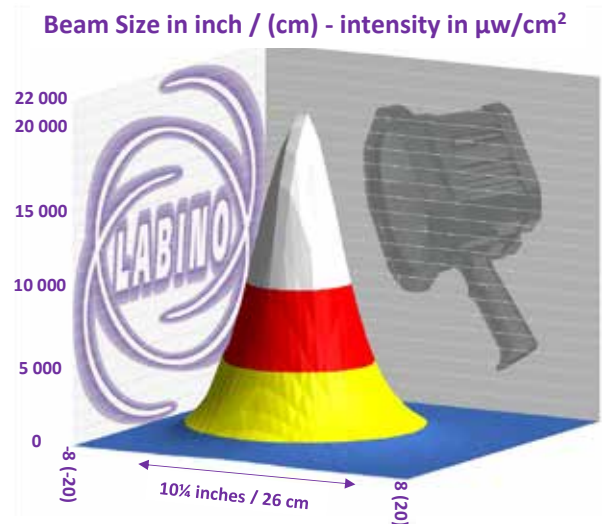
Output Characteristics	BB 2.0 Helios	BB 2.0 Artemis
Intensity	≈ 9 000 $\mu\text{W}/\text{cm}^2$	≈ 22 000 $\mu\text{W}/\text{cm}^2$
Visible light	< 3 lux / 0.3 fc	< 8 lux / 0.7 fc
Beam > 1 000 $\mu\text{W}/\text{cm}^2$	Ø 11 inches / 28 cm	Ø 10.3 inches / 26 cm

At a distance of 38 cm (15 inches)

OUTPUT CHARACTERISTICS FOR BB 2.0 ARTEMIS AT VARIOUS DISTANCES

Distance:	Beam diameter > 1 000 $\mu\text{W}/\text{cm}^2$	Beam diameter > 300 $\mu\text{W}/\text{cm}^2$
15 inches / 38 cm	Ø 9.1 inches/23 cm	Ø 11.1 inches/29 cm
45 inches / 114 cm	Ø 11.8 inches/30 cm	Ø 19.3 inches/49 cm
75 inches / 190 cm	Ø 11.4 inches/29 cm	Ø 21.3 inches/54 cm

Beam profile > 1 000 $\mu\text{W}/\text{cm}^2$ measured at 15 inches / 38 cm of BB 2.0 Artemis:







COMPLIES WITH
ASTM E3022-2018
Standard

COMPLIES WITH
Rolls-Royce RRES 90061
Specification

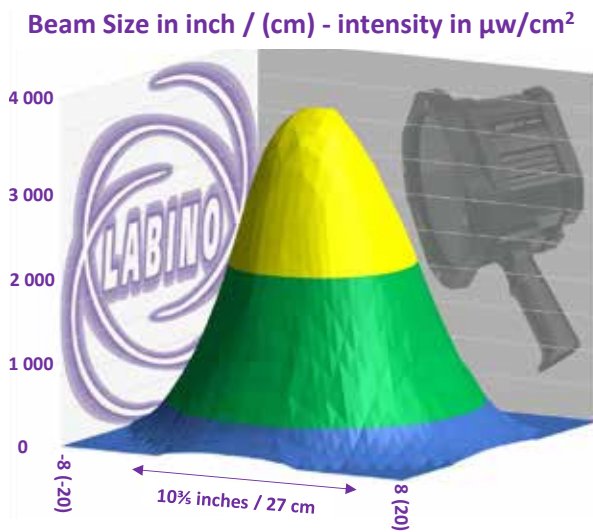
COMPLIES WITH
Airbus AITM6-1001
Testing Method

COMPLIES WITH
USAF
Requirements

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 $\mu\text{W}/\text{cm}^2$ 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 $\mu\text{W}/\text{cm}^2$ measured at 15 inches / 38 cm of BB 2.0 Ikaros:



FACTS ABOUT BB 2.0 IKAROS

Output Characteristics	BB 2.0 Ikaros
Intensity	$\approx 4\,000\ \mu\text{W}/\text{cm}^2$
Visible light	$< 1.5\ \text{lux} / 0.1\ \text{fc}$
Beam > 1 000 $\mu\text{W}/\text{cm}^2$	$\varnothing 10.6\ \text{inches} / 27\ \text{cm}$

At a distance of 38 cm (15 inches)



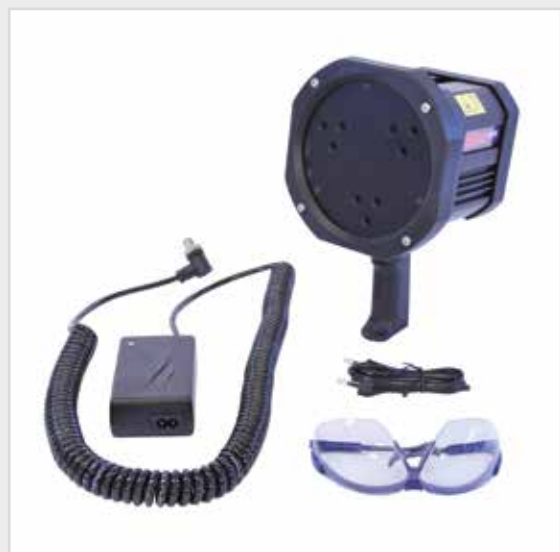
BB 2.0 MAINS WITH CABLE WINDER

The mains version can be mounted on a cable winder with a 9.5 meter (31 feet) cable.



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 DUO:	1.7 kg (3.7 lbs)
Weight Mains:	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 Helios and BB 2.0 Ikaros	
UV Block Visor (PN: S400)	
UV Block Goggles "XC" (PN: S505)	
Cable winder (PN: F175 for Mains units)	
Handle adaptor (PN: F146)	
Flexible Arm for BB 2.0 Series (PN: A536)	
Friction Arm (PN: A530)	
Mounting Yoke and brackets for stationary mounting (PN: F800 & F801)	
Protection PSU Bracket (PN: F211)	
Magnet for PSU (PN: A601)	
Protection Clear Glass Filter (PN: F132)	
Customized Carrying Case (PN: C4200 for Mains) (PN: C4100 for Battery)	



ATKINS



GX ORION ^{REMOTE} MOTHER UNIT (PN: L3100)

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

GX ORION ^{UV} MOTHER UNIT (PN: L3102)

GX ORION ^{UV & WH} EXTENSION UNIT (PN: L3104)

GX ORION ^{UV} EXTENSION UNIT (PN: L3105)

COMPLIES WITH
ASTM E3022-2018
Standard

COMPLIES WITH
Rolls-Royce RRES 90061
Specification

COMPLIES WITH
USAF
Requirements

COMPLIES WITH
Airbus AITM6-1001
Testing Method

3 Year warranty

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 3-YEAR WARRANTY.

WITH A PLC INTERFACE

GX Orion comes with a PLC interface which can be used to monitor the UV light from a computerized panel.



OPERATE VIA A FOOT PEDAL OR A POWER BUTTON
Can be used as an on/off switch for the UV light to activate the last used intensity and the last recorded timer setting.



OPTION 1: REMOTE CONTROLLED

A remote control allows you to switch on/off the UV and White Light, change the intensity, and set up the timer from a distance.



OPTION 2: WITH UV ON/OFF BUTTON ONLY

GX Orion comes with a UV only option as well.



OPTION 3: WITH UV AND WHITE LIGHT ON/OFF BUTTON ONLY

GX Orion comes with a UV and white light only option as well.



GLASS SURFACE WITH 10 UV LEDS AND 1 WHITE LIGHT

A glass surface prevents damage of sensitive components such as filters and LEDs.



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 foot-prints 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 1 076 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.



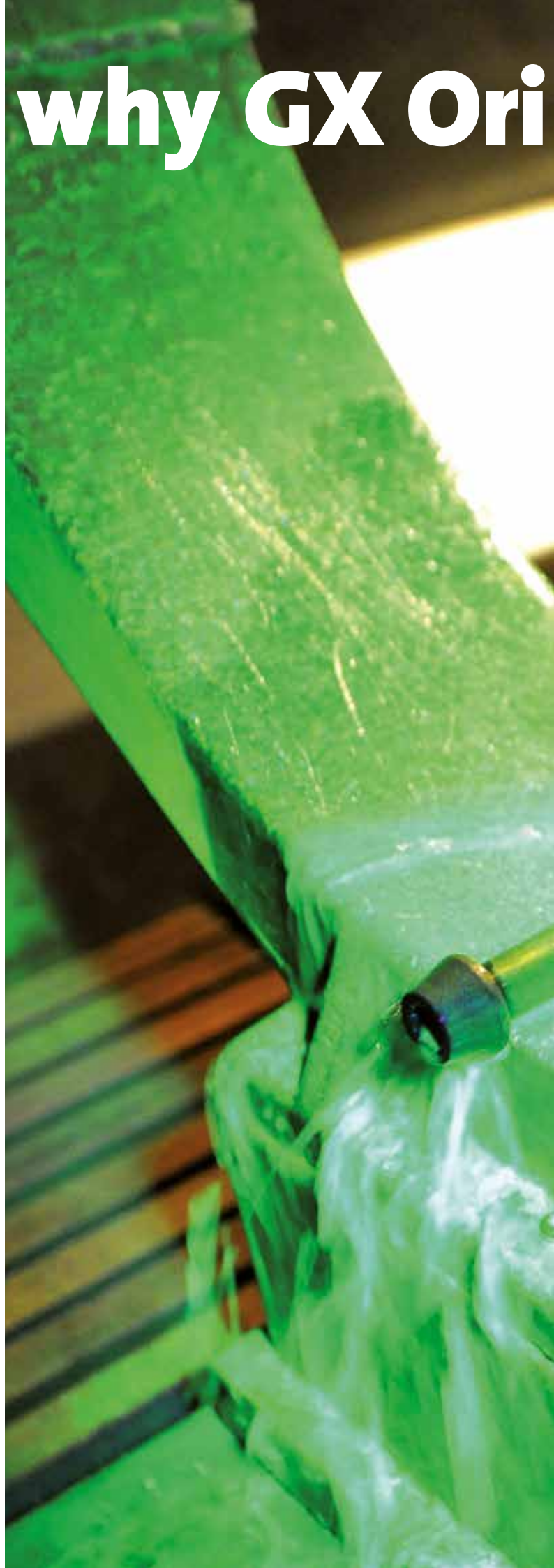
GX ORION "EXTENSION" PACKAGE INCLUDES:

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 best warranty terms in the industry, 3 years.
3. GX Orion has the highest IP class possible, IP68.
4. Zero LEDs out from day of launch, 4 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 1 500 to 7 000 $\mu\text{W}/\text{cm}^2$, at a distance of 15 inches / 38 cm. It has a powerful white light that can illuminate 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.



REMOTE CONTROLLED

A remote control allows you to switch on/off the UV and White Light, change the intensity and set up the timer from a distance.

UV LIGHT ON/OFF FUNCTION:

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

WHITE LIGHT ON/OFF FUNCTION:

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

DIMMER FUNCTION:

Display shows the dimmer function in 250 steps. The UV irradiance can be increased (+) to achieve the maximum irradiance of 7000 $\mu\text{W}/\text{cm}^2$ at step 250 or decreased (-) to achieve the minimum irradiance of 1 500 $\mu\text{W}/\text{cm}^2$ at step 1, at a distance of 15 inches / 38 cm.

TIMER FUNCTION:

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.



COMPLIES WITH
ASTM E3022-2018
Standard

COMPLIES WITH
Airbus AITM6-1001
Testing Method

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

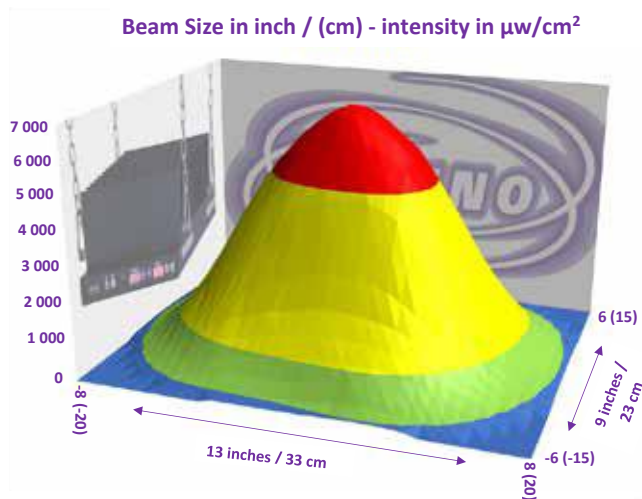
GX Orion^{UV & WH} has been tested to comply with both ASTM E3022-18 and ISO 3059-12 standards. It has also been tested to comply with Airbus AITM6-1001 at a working distance of 21 inches / 53 cm. It generates an intensity of approximately 7 000 $\mu\text{W}/\text{cm}^2$ at 38 cm (15 inches). It has 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.

FACTS ABOUT GX ORION^{REMOTE} AND GX ORION^{UV & WH}

Output Characteristics	GX Orion ^{REMOTE} and GX Orion ^{UV & WH}
Intensity (maximum)	$\approx 7\,000\ \mu\text{W}/\text{cm}^2$
Visible light	$< 3\ \text{lux} / 0.3\ \text{fc}$
Beam $> 1\,000\ \mu\text{W}/\text{cm}^2$	$\varnothing 13\ \text{inches} \times 9\ \text{inches} / 33\ \text{cm} \times 23\ \text{cm}$

At a distance of 38 cm (15 inches)

Beam profile $> 1\,000\ \mu\text{W}/\text{cm}^2$ measured at 15 inches / 38 cm of GX Orion^{REMOTE} and GX Orion^{UV & WH} :



THREE GX ORION^{REMOTE} MOUNTED TOGETHER ON THE LONG SIDE

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



COMPLIES WITH
ASTM E3022-2018
Standard

COMPLIES WITH
Rolls-Royce RRES90061
Specification

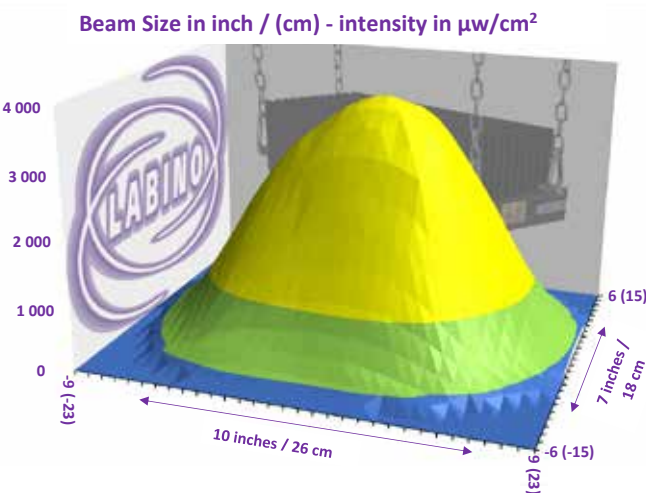
COMPLIES WITH
Airbus AITM6-1001
Testing Method

COMPLIES WITH
USAF
Requirements

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 $\mu\text{W}/\text{cm}^2$ at 38 cm (15 inches). This model does not have a remote, it comes with one UV ON/OFF button.

Beam profile > 1 000 $\mu\text{W}/\text{cm}^2$ measured at 15 inches / 38 cm of GX Orion^{UV}:



FACTS ABOUT GX ORION^{UV}

Output Characteristics	GX Orion ^{UV}
Intensity	$\approx 4\,500 \mu\text{W}/\text{cm}^2$
Visible light	$< 1.5 \text{ lux} / 0.2 \text{ fc}$
Beam > 1 000 $\mu\text{W}/\text{cm}^2$	$\varnothing 10 \text{ inches} \times 7 \text{ inches} / 26 \text{ cm} \times 18 \text{ cm}$

At a distance of 38 cm (15 inches)



THREE GX ORION^{UV} MOUNTED TOGETHER ON THE SHORT SIDE

Multiple GX Orion^{UV} “slave” units can be mounted on a “mother” unit either on the long side or the short side.

Accessories for GX Series

GX Orion	
UV Block Visor (PN: S400)	
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})	



Apollo 2.0 (Single Kit PN: M505, Double kit PN: M506)

Radiometer/photometer measuring UV and visible light via a wireless sensor. Apollo 2.0 is traceable to NIST (National Institute of Standards and Technology) and is in compliance with ISO 3059-12. We calibrate Apollo 2.0 in accordance to ISO / IEO 17025. Our accreditation has been certified by SWEDAC and carries the accreditation number 10391. Our Apollo 2.0 dual meter calibration services are now offered in Chicago (USA), Houston (USA), Toronto (Canada), Stockholm (Sweden), Bilbao (Spain), St. Etienne de Tulmont (France) and Singapore. All authorized calibration centers follow a specific process proprietary to Labino, all have the same equipment, and all receive the same training.



WIRELESS SENSOR

Measures up to a distance of 5 meters (16 feet) from the Reader unit.



BATTERY POWERED

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.



RED OLED SCREEN

Red OLED screen for easy readings in a dark environment and a peak function to identify the highest reading.



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 2.0 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 2.0 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" button stores the highest value measured.

SPECTRAL SPECIFICATION APOLLO 2.0

UV Light Sensor	
Spectral Sensitivity:	320 nm to 400 nm
Operation Range:	0 to 50,000 $\mu\text{W}/\text{cm}^2$
Accuracy:	UV Light: +/- 4 %
White Light Sensor	
Spectral Sensitivity:	450 nm to 650 nm
Operation Range:	0 to 10 000 Lux (930 fc)
Accuracy:	Visible Light: +/- 3 %



APOLLO 2.0 SINGLE KIT PACKAGE INCLUDES:
Reader unit, Sensor unit, Calibration certificate, Carrying case.



APOLLO 2.0 DOUBLE KIT PACKAGE INCLUDES:
Reader unit, two sensor units, Calibration certificate, Carrying case.

Accessories for Apollo 2.0

Apollo 2.0

Olympos measurement stand (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.



PLATES CAN BE USED INTERCHANGEABLY
 Different size plates can be used interchangeably on the Olympos stand to measure any Labino UV-A light you have. For example, all BB 2.0 Series lights can make use of the same large size plate.

ADJUSTABLE SCALE
 The plates that accommodate the lights can be adjusted up or down along the 20 inch / 50 cm line.



APOLLO 2.0 READER UNIT
 The wireless feature allows accurate readings of the UV intensity, preventing accidental movements from connecting cables. Apollo 2.0 can provide readings from a distance of 5 meters (16 feet).



APOLLO 2.0 SENSOR UNIT
 Apollo 2.0 compact wireless sensor can be placed at a fixed position on the Olympos stand, providing accurate UV readings for all handheld Labino UV lights.

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



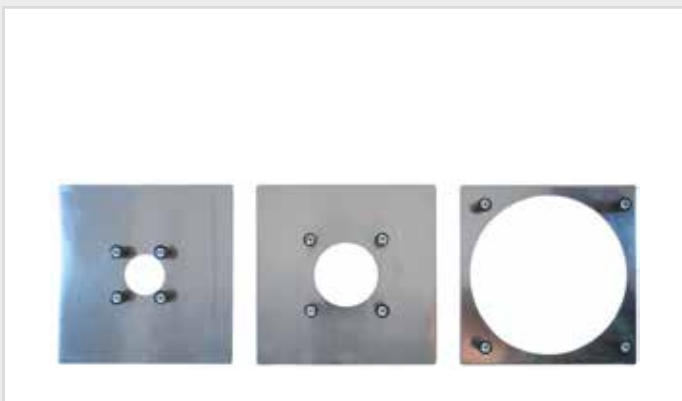
MEASURING MB 3.0 SERIES UV-A INTENSITY WITH OLYMPOS

Hercules, Zeus, Hermes, Selene and Atlas can all be measured using the same medium size plate.



MEASURING UVG3 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.



THREE DIFFERENT SIZE PLATES THAT FIT ALL LABINO HANDHELD LIGHTS

Olympos measurement stand comes with three different size plates that can be used interchangeably on the stand. This enables all Labino handheld LED blacklights (UVG 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 small plate is used for all UVG 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 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
HERCULES EX	
L3000	Hercules Ex

BB 2.0 SERIES 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 ORION 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 ^{UV & WH} or GX Orion ^{UV}
A604	Power Button for GX Orion ^{REMOTE}
A606	Power Button for GX Orion ^{UV & WH} or GX Orion ^{UV}
APOLLO 2.0	
M505	Apollo 2.0 Single Kit (1 reader, 1 sensor)
M506	Apollo 2.0 Double Kit (1 reader, 2 sensors)
M507	Apollo 2.0 sensor unit only
M508	Apollo 2.0 reader unit only
GENERAL ACCESSORIES	
A542	Olympos Measurement Stand for Apollo 2.0/BB 2.0 Series/MB 2.0 Series/UVG Series
S400	UV Block Visor
S505	UV Block Goggles "XC"



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