## LABINO NDT 2014

#### **NEW PRODUCTS 2014!**

LED BENCH LIGHT GALAXY • BIGBEAM HELIOS LED • MIDBEAM LED • SUPERXENON UV 50 W OR UV 35 W • RADIOMETER/PHOTOMETER APOLLO



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## DEAR NDT PROFESSIONAL,

Thank you for your interest in the Labino products. In this catalogue you will find all our latest product launches as well as our best-selling NDT products based on LED and MPXL technology. We are known to be the "black lights" specialists. Our products serve not only the needs of non-destructive testing professionals but also non-industrial groups like forensic experts in crime scene investigation, crime laboratories and medical laboratories.

All of us at Labino strive to make our world safer and your job easier by constantly developing and manufacturing stronger and better lamps with new features that can help you uncover even the most hard to find defects. Our guiding values embrace our desire to continuously innovate, commit to excellent service, listen to customer needs, and be able to deliver.

Our future focus is to continue to work closely with our business partners globally. Innovate to new solutions and launch new premium products, involving users and distributors in the process by encouraging collaboration. Quality has always been our key strength. Our commitment to our clients is that we will never compromise on quality. We fully respect and appreciate the investments our clients make in our products and the trust they show to the Labino brand.

The year 2014 marks an important milestone for Labino, our 20-year anniversary. Labino prides itself in that its steady growth and achievements over the years has been purely organic and the outcome of hard work and strong in-house engineering skills. Our position in the global market has strengthened considerably during this time as a result of intense product development, close collaboration with our distributors in over 55 countries and continuous feedback from end users. Thank you! It is your feedback that led to the development of our new generation of products that you can read about in this catalogue. We offer you what you asked for, less weight and more power!

Be part in this process. Help us to understand your future needs, give us your feedback. Feel free to e-mail me directly for any comments that you may have, at lisel.athanasiadis@labino.com.

My kindest regards to you and your team,

Lisel Athanasiadis Managing Director



## **NEW PRODUCTS 2014**

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## LABINO LED LAMPS

The new generation of Labino LED products weigh much less than many comparable products in the market today

Labino is expanding its product range of LED lamps with three new launches, the bench light "Galaxy", MidBeam and BigBeam Helios. These new products are part of a new generation of Labino products that weigh less, than many comparable products in the market today. They are available with a variety of features; and operators of black lights have an opportunity to choose what best suits their needs.

Labino's new LED benchlight, Galaxy, has 12 LEDs, weighs just 2.2 kg and its modular design makes it possible to mount together up to 6 units or 72 LEDs. Each MidBeam carries 4 LEDs and weighs 560 grams, making its battery version a useful tool for inspecting even the most difficult structures.

Labino's best-selling product, BigBeam, offers operators more power as it is equipped with 9 LEDs and its battery model weighs just 1.7 kg. Depending on the model, choose between battery operated or mains operated or choose both (BigBeam DUO). Our newly launched BigBeam Helios is equipped with a new generation LED that generates 40-60% higher intensity than the regular BigBeam, depending on the beam. BigBeam, BigBeam Helios and MidBeam are all available in midlight and floodlight.

Our torches (UVG2/3) and headlights (UVG4/5) carry one LED each and provide the choice of a white light block filter (UVG3 and UVG5) or simply more visible light with clear glass filter (UVG2 and UVG4). Torches are offered in spotlight, midlight or floodlight and headlights are available in midlight or floodlight. Each LED has an estimated life of 30 000 hours. Voltage can be adjusted for use anywhere in the world.

Available features	Bench Light Galaxy <b>New!</b>	BigBeam	BigBeam Helios <b>New!</b>	MidBeam <b>New!</b>	Torches UVG2 / UVG3	Headlights UVG4 / UVG5
Number of LEDs	12-72	9	9	4	I	I
Weight	2.2kg	Mains: I.2 kg Battery: I.7 kg	Mains: 1.2 kg Battery: 1.7 kg	Mains: 440 grams Battery: 560 grams	211 grams	271 grams
No handle		1	1			
Top handle						
Pistol handle		1	1	1		
Battery		1	1	1		1
Mains	1	1	1	1		
White light block filter	1	1	1	1	No / Yes	No / Yes
Spotlight Intensity *					>25 000 μW/cm <sup>2</sup> >20 000 μW/cm <sup>2</sup>	>25 000 μW/cm <sup>2</sup> >20 000 μW/cm <sup>2</sup>
Midlight Intensity *	I 500 – 7 000 μW/cm²	>6 000 µW/cm <sup>2</sup>	>8 500 µW/cm²	>5 000 µW/cm²	>10 000 µW/cm² >8 000 µW/cm²	>10 000 µW/cm² >8 000 µW/cm²
Floodlight Intensity		>3 500 µW/cm²	>5 500 µW/cm²	>4 000 µW/cm²	>2 500 μW/cm <sup>2</sup> >2 000 μW/cm <sup>2</sup>	
Spotlight beam >I 200 µW/cm <sup>2</sup> *					30 mm	30 mm
Midlight beam >I 200 µW/cm <sup>2</sup> *	300 x 250 mm	270 mm	275 mm	200 mm	100 mm	100 mm
Floodlight beam >I 200 µW/cm² *		310 mm	330 mm	250 mm	130 mm	
100 V – 230 V	1	1	1	1	1	1
Available as a kit		1	1	1	1	

\* At a distance of 38 cm (15 inches)

## LED BENCH LIGHT GALAXY

As light as it gets! Supersize it – choose from 12 up to 72 LEDs

The Labino Bench Light Galaxy is part of a new generation of products that Labino is introducing to the market. These unique new lights have one common characteristic: they weigh less, than many comparable products on the market today. Galaxy weighs just 2.2 kilos (4.85 lbs)!

It is not just easy to mount. It is easy for the user of the bench to operate and move around the bench. Bench operators typically conduct repetitive inspections for long hours on a daily basis. Now they have the luxury of working with a super light product.

Galaxy is also compact in size with 7.87 inches (20 cm) long, 5.9 inches (15 cm) wide and 1.6 inches (4.1 cm) high. The user can choose to expand the area that needs to be covered by connecting together up to six Galaxy lights (72 LEDs). Galaxy offers an intensity of 7 000  $\mu$ W/cm<sup>2</sup> at 38 cm and is filtered to emit almost no visible light – 1 Lux / 0.09 Foot Candle (380-780 nm).

Each Galaxy consists of 12 LEDs offering a very even beam. It is also equipped with a white light LED for after inspection. Each LED has an estimated life of 30 000 hours.

This powerful stationery overhead light designed for Non-Destructive Testing offers numerous useful features such as:

(a) Dimmer – the UV light can be dimmed down up to 20% of its full capacity and intensity varying from 1 500  $\mu$ W/cm² to 7 000  $\mu$ W/cm² depending on your needs;

(b) Timer – unnecessary burning time is avoided through a timer (five steps: 0.5h,1.0h, 2.0h,4.0h,8.0h);

(c) Cooling system – The heat generated from the LEDs is managed via a mechanical cooling system – no fans necessary!;

(d) Remote control – used to remotely operate the dimmer of the UV light, the white light and the timer;

(e) Modular design – able to connect up to six units together. One Mother unit can operate maximum three units. If you connect more than tree units, two Mother units are required.

Full power is achieved instantly with the start button. The Galaxy is 100% free from UV-B and the LEDs emit almost no visible light due to a white light block filter. It is compliant with ASTM UV-A intensity and wavelength specifications for FPI and MPI. IP65 approved for dust and water jet.

LED: 12 up to 72 Wavelength: 365 nm (peak) Estimated LED life time: 30 000 hours 100% free from UV-B White light block filter Intensity: 1 500–7 000 µW/cm<sup>2</sup> at 38 cm Visible light: <1 Lux (0.09 fc) Length: 7.87 inches (20 cm) Width: 5.9 inches (15 cm) Height: 1.6 inches (4.1 cm) Weight: 2.2 kilos (4.85 lbs) Modular design: 1–6 units Dimmer: 5 steps Timer: 5 steps Cooling system: Mechanical without fan Remote control



#### BENCH LIGHT GALAXY





3 GALAXY MOUNTED TOGETHER





6 GALAXY MOUNTED TOGETHER



#### **BIGBEAM BATTERY (DUO)**



#### **BIGBEAM MAINS**



#### **BIGBEAM IN CASE**

## **BIGBEAM LED**

Large beam, compact size and light weight = prefection! Midlight or Floodlight • Battery and/or Mains operated

A large beam, compact size and light weight provide the key characteristics to the perfect portable UV tool. BigBeam has it all!

The Labino BigBeam is designed to provide its users with a smooth and large light beam. This hand held lamp is based on LED technology and offers you very narrow spectra with a peak wavelength of 365 nm. Each unit consists of 9 LEDs offering a very even beam. Each LED's life is estimated at 30,000 hours. All electronics as well as LEDs are placed in a single housing with the diameter not exceeding 6.1 inches (15.5 cm).

This product is available as Battery and Mains (DUO) or just Mains. The DUO is battery operated, but it is possible to run the unit via mains while charging the battery. The battery has a running time of 2.5 hours (+/- 5%). Each DUO unit is equipped with a current regulator to keep the intensity steady when the battery fades. The mains model is equipped with a 2 meter long extendable cord. Total weight of the DUO model is 1.7 kilos (3.74 lbs) and of the Mains model is 1.2 kilos (2.64 lbs).

BigBeam compact size and light weight makes it easy to use around complex inspection areas but also on benches. The start function provides full power instantly. Both models come with a pistol handle.

BigBeam is 100% free from UV-B. Each BigBeam is equipped with a white light block filter which helps the lamp emitting almost no visble light. It is compliant with ASTM UV-A intensity and wavelength specifications for FPI and MPI. IP65 approved for dust and water jet.

BigBeam is available in two different beams, Floodlight and Midlight. bigBeam is also available on a cable winder for your convinience.

#### **BIGBEAM IS AVAILABLE IN TWO DIFFERENT BEAMS**

	BigBeam			
	Floodlight Midlight			
Intensity *	>3 500 µw/cm²	>6 000 µw/cm²		
Visible light *	<i 0.09="" fc<="" lux="" td=""><td><i 0.09="" fc<="" lux="" td=""></i></td></i>	<i 0.09="" fc<="" lux="" td=""></i>		
Beam >I 200 μW/cm <sup>2</sup> *	310 mm	270 mm		

\* At a distance of 38 cm (15 inches)

LED: 9	Housing diameter:
Wavelength: 365 nm (peak)	6.1 inches (15.5 cm)
Estimated LED life time: 30 000 hours	Weight DUO: 1.7 kilos (3.74 lbs)
100% free from UV-B	Weight Mains: 1.2 kilos (2.64 lbs)
White light block filter	Battery running time:
Power supply:	2.5 hours (+/- 5%)
Battery and Mains (DUO) or just	
Mains (AC)	

\*\*\*For accurate orders please indicate to your distributor your choice of Model (Mains or Duo), beam (Midlight or Floodlight) and the country to be used in\*\*\*

## BIGBEAM HELIOS LED

Increase BigBeam intensity by 40-60% with Helios LED Midlight or Floodlight • Battery and/or Mains operated

Labino Helios LED is the latest generation of LEDs offered by Labino. If your objective is to maximize intensity, in addition to the compact size and light weight benefits BigBeam offers, this is it.

BigBeam Helios provides a much higher intensity, up to 60% higher intensity on the floodlight and 40% higher intensity on the midlight. All other specifications are the same as on page 6.

BigBeam Helios is offered at the same price as the regular BigBeam.

## COMPARISON OF INTENSITY AND VISIBLE LIGHT IN BIGBEAM AND BIGBEAM HELIOS

	BigB	eam	<b>BigBeam Helios</b>		
	Floodlight Midlight		Floodlight	Midlight	
Intensity *	>3 500 µw/cm²	>6 000 µw/cm²	>5 500 µw/cm²	>8 500 µw/cm²	
Visible light *	<i 0.09="" <i="" fc="" fc<="" lux="" td=""><td><i 0.09="" fc<="" lux="" td=""><td><i 0.09="" fc<="" lux="" td=""></i></td></i></td></i>		<i 0.09="" fc<="" lux="" td=""><td><i 0.09="" fc<="" lux="" td=""></i></td></i>	<i 0.09="" fc<="" lux="" td=""></i>	
Beam >Ι 200 μW/cm² *	310 mm	270 mm	330 mm	275 mm	

\* At a distance of 38 cm (15 inches)

BigBeam is available with a case as well for your convenience of carrying it at the inspection area.



BIGBEAM HELIOS BATTERY (DUO)



**BIGBEAM HELIOS MAINS** 



BIGBEAM HELIOS ON A LABINO CABLE WINDER

LED: 9

Wavelength: 365 nm (peak) Estimated LED life time: 30 000 hours 100% free from UV-B White light block filter Power supply: Battery and Mains (DUO) or just Mains (AC) Housing diameter: 6.1 inches (15.5 cm) Weight DUO: 1.7 kilos (3.74 lbs) Weight Mains: 1.2 kilos (2.64 lbs) Battery running time: 2.5 hours (+/- 5%)

\*\*\*For accurate orders please indicate to your distributor your choice of Model (Mains or Duo), beam (Midlight or Floodlight), LEDs (with or without Helios) and the country to be used in\*\*\*





LED: 4 Wavelength: 365 nm (peak) Estimated LED life time: 30 000 hours 100% free from UV-B White light block filter Power supply: Battery or Mains Housing diameter: 3.15 inches (8 cm) Weight battery: 560 grams (1.23 lbs) Weight Mains: 440 grams (0.97 lbs) Battery running time: 1.5 hours (+/- 5%) White light LED: I Cooling system: Mechanical without fan Current regulator

## MIDBEAM LED

Ultra compact and ultra light Midlight or Floodlight • Battery or Mains operated

The Labino MidBeam Light is part of a new generation of products that Labino is introducing to the market. These unique new lights have one common characteristic; they weigh less, than many comparable products in the market today. MidBeam in particular is a hand held lamp, extremely compact in size, with a housing diameter of just 3.15 inches (8 cm)! MidBeam is available as Battery or Mains. The mains operated model weigh just 440 grams (0.97 lbs) and the battery operated model weigh 560 grams (1.23 lbs)! The light weight and compact size makes it extremely easy for the user to operate and carry around even the most difficult inspection areas and structures. This is made possible without compromising the performance of the lamp.

Each MidBeam consists of 4 LEDs offering a very even beam. It is also equipped with a white light LED for after inspection. The start button provides instant power and the light is operated with a multifunctional switch – UV / OFF / White Light – on the handle for ease of use. It is easy for the battery version to switch batteries. The batteries are located inside the pistol handle, making the ergonomics of the unit stable. Four batteries are supplied with each unit and two are needed to operate. The design of the mains version makes it easy to support the light with a common stand on a bench. The location of the cable (coming out from below the handle) makes it easy to operate.

The heat generated from the LEDs is managed via a mechanical cooling system – no fans necessary! MidBeam is 100% free from UV-B and the lamp emits almost no visible light – 1 Lux / 0.09 Foot Candle (380-780 nm) – due to a visible light filter. It is compliant with ASTM UV-A intensity and wavelength specifications for FPI and MPI. IP43 approved for water spray and external bodies. MidBeam comes standard with a carrying case.

#### MIDBEAM IS AVAILABLE IN TWO DIFFERENT BEAMS

	Midlight	Floodlight
Intensity *	>5 000 µw/cm²	>4 000 µw/cm²
Visible light *	<1 Lux / 0.09 fc	<i 0.09="" fc<="" lux="" td=""></i>
Beam >Ι 200 μW/cm <sup>2</sup> *	250 mm	200 mm

\* At a distance of 38 cm (15 inches)

\*\*\*For accurate orders please indicate to your distributor your choice of Model (Mains or Battery), beam (Midlight or Floodlight), and the country to be used in\*\*\*

# LED TORCHES

## LED TORCHES

Small and light Spotlight, Midlight or Floodlight

The Labino UVG2 is a small-sized, lightweight, UV-A LED torch designed for quick inspections in "hard-to-reach" spots. The Labino UVG3 is the same torch equipped with a unique filter for applications where the amount of visible light is critical. This filter eliminates the white light from the lamp and reduces the glare reflected from aluminum when you use the lamp along with UV block goggles.

Both torches reach full power instantly. Therefore, the on/off button is positioned at the back of the lamp to prevent accidental activation. The length of the lamp is 6.3 inches (15.9 cm) and weighs 211 grams (7.4 oz), including battery. The torch contains one ultraviolet light emitting diode (LED) that peaks at 365 nm. The life of each LED is estimated at 30,000 hours. The battery has a running time of 3 hours (+/- 5%) and can be recharged from a normal outlet or vehicle. The torch is also equipped with a current regulator that keeps the UV intensity constant even when the battery fades. Certifications: IP65 approved for dust and temporary water jet.

#### COMPARISON OF INTENSITY AND VISIBLE LIGHT IN UVG2 AND UVG3

	UVG2			UVG3		
	Spotlight	Midlight	Floodlight	Spotlight	Midlight	Floodlight
Intensity *	>25 000 µw/cm²	>10 000 µw/cm²	>2 500 µw/cm²	>20 000 µw/cm²	>8 000 µw/cm²	>2 000 µw/cm²
Visible light *	<8 Lux / 1.86 fc	<5 Lux / 0.46 fc	<2 Lux / 0.18 fc	<1 Lux / 0.09 fc	<i <br="" lux="">0.09 fc</i>	<i <br="" lux="">0.09 fc</i>
Beam >Ι 200 μW/cm² *	30 mm	100 mm	130 mm	30 mm	100 mm	130 mm

\* At a distance of 38 cm (15 inches)

Available as a kit with a customized carrying case for your convinience and to protect the lamp, see page 10.

\*\*\*For accurate orders please indicate to your distributor your choice of beam (Spotlight, Midlight or Floodlight), type of torch (UVG2, UVG3 or White light) and the country to be used in\*\*\*



UVG2 (CLEAR GLASS FILTER)



(WHITE LIGHT BLOCK FILTER)

LED: I

Wavelength: 365 nm (peak) Estimated LED life time: 30 000 hours 100% free from UV-B Clear glass filter or white light block filter Length: 6.3 inches (15.9 cm) Weight: 211 grams (7.4 oz) Battery running time: 3 hours (+/- 5%) Recharge from normal outlet or vehicle Current regulator



UVG DOUBLE KIT



UVG SINGLE KIT

## KITS WITH LED TORCHES

Design your own kit based on your needs and protect your equipment with a carrying case

#### DESIGN YOUR OWN UVG KIT – SINGLE OR DOUBLE TORCH

You can design your own kit based on your needs. Choose one or two torches in your kit. The Single Torch UVG LED kits contain the torch of your choice, one UVG2 LED torch or one UVG3 LED torch with your choice of Spotlight, Midlight or Floodlight; one Charger for use from electrical outlet; one Charger for use in vehicle via cigarette lighter connection; Two batteries (1+1 extra); A belt holster; A carrying case; and UV Block glasses (only included in the single kit).

The double Torch UVG LED kit can combine one UVG2 LED torch and one UVG3 LED torch with the beam of your choice (Spotlight, Midlight or Floodlight ) OR two UVG2 LED torches with the beams of your choice OR two UVG3 LED torches with the beams of your choice. All other accessories are the same as with the single kit including an extra battery (3 in total for double kits).

#### ADD A WHITE LIGHT TORCH

The Labino white light torch is a small-sized, lightweight, white light torch. This torch is perfect for general industrial post inspection use. It is equipped with one LED. The LED creates more than 10 000 Lux (930 fc) at a distance of 1 meter (39.37 inches). The lamp is 6.3 inches (15.9 cm) long and weighs 211 gram (7.4 oz), including battery. At full charge the battery provides up to 4 hours of use. Recharge from a normal outlet or vehicle with included chargers.

Design your own UVG plus White light kit: Combine your own Labino Torch kit based on your needs. The combination kit contains the torch of your choice, one UVG2 LED torch or one UVG3 LED torch with your choice of Spotlight, Midlight or Floodlight, combined with the Labino White light torch in a high quality water proof case. Additional items include one charger for use from electrical outlet; one charger for use in vehicle via cigarette lighter connection; three batteries (2+1 extra); a belt holster; and a carrying case.

\*\*\*For accurate orders please indicate to your distributor your choice of beam (Spotlight, Midlight or Floodlight), kit (Optional: Double or Single), type of torch(es) (UVG2, UVG3, White light) and the country to be used in\*\*\*

## LED HEAD LIGHTS

Adjustable and light frees your hands during inspection! Spotlight or Midlight

The Labino UVG4 is a LED Head Lamp designed to free the user's hands during an inspection. The lamp can be adjusted in three different angles. The operator can switch the angles of the light during the inspection. The rubber bands are adjustable and fit helmets as well as heads. The battery is located in the back of the structure and there are no cables hanging from the lamp. The Labino UVG5 is the exact same lamp equipped with a unique filter for applications where the amount of visible light is critical. This filter eliminates the white light from the lamp and reduces the glare reflected from aluminum when you use the lamp along with UV block goggles.

Both UVG4 and UVG5 reach full power instantly. The on/off button is positioned at the back of the lamp to prevent accidental activation. Each head light weights 271 grams (9.4 oz). The lamp contains one ultraviolet light emitting diode (LED) that peaks at 365 nm. The life of each LED is estimated at 30,000 hours. The battery has a running time of 3 hours (+/- 5%) and can be recharged from a normal outlet or vehicle via cigarette lighter connection. The lamp is also equipped with a current regulator that keeps the UV intensity constant even when the battery fades. Each unit comes with an extra battery.

The Labino Head Light is also available as white light. This small but powerful tool creates more than 10,000 lux (930 foot Candles) within a distance of one meter. The distribution angle is spotlight.

## COMPARISON OF INTENSITY AND VISIBLE LIGHT IN UVG4 AND UVG5

	UV	'G4	UVG5		
	Spotlight	Spotlight Midlight		Midlight	
Intensity *	>25 000 µw/cm²	>10 000 µw/cm²	>20 000 µw/cm²	>8 000 µw/cm²	
Visible light *	<8 Lux / I.86 fc	<5 Lux / 0.46 fc	<i <br="" lux="">0.09 fc</i>	<1 Lux / 0.09 fc	
Beam >I 200 µW/cm <sup>2</sup> *	30 mm	100 mm	30 mm	100 mm	

\* At a distance of 38 cm (15 inches)

\*\*\*For accurate orders please indicate to your distributor your choice of beam (Spotlight or Midlight), type of lamp (UVG4, UVG5 or White light) and the country to be used in\*\*\*



LED HEAD LIGHTS



BATTERY BOX



HEADLIGHT BATTERY OPEN

#### LED: I

Wavelength: 365 nm (peak) Estimated LED life time: 30 000 hours 100% free from UV-B Clear glass filter or white light block filter Weight: 271 grams (9.4 oz) Battery running time: 3 hours (+/- 5%) Recharge from normal outlet or vehicle Current regulator

## LABINO MPXL LAMPS

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

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

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

UV is dangerous – don't forget to protect yourself. UV block goggles are included in all MPXL lights. You can also purchase faceshields for better protection (see page 16).

Available features	SuperXenon New!	Compact	DUO	TrAc Light	TrAc Light PRO
50W	•	Compact	000		
	✓ ✓				
35W	✓	1	1	1	<i>✓</i>
One housing	✓	1		1	
Two housings (luminary / ballast)			1		1
Weight	Mains 1.4 kg Battery 1.9 kg	2.25 kg	Luminary part 1.2 kg Ballast part 1.5 kg	2.32 kg	Luminary part I.I kg Ballast part 2.4 kg
No handle	✓	1	✓	1	1
Top handle	✓	1	✓	1	1
Pistol handle	1	1	✓	1	1
Battery	<ul> <li>Image: A set of the set of the</li></ul>			✓	1
Mains	<ul> <li>Image: A set of the set of the</li></ul>	✓	✓		
Spotlight Intensity *	45 000 μW/cm² (35 W) 60 000 μW/cm² (50 W)	45 000 μW/cm²	45 000 μW/cm <sup>2</sup>	45 000 µW/cm <sup>2</sup>	45 000 µW/cm <sup>2</sup>
Midlight Intensity *	I2 000 μW/cm² (35 W) I7 000 μW/cm² (50 W)	12 000 μW/cm <sup>2</sup>	12 000 µW/cm <sup>2</sup>	12 000 µW/cm <sup>2</sup>	12 000 µW/cm <sup>2</sup>
Floodlight Intensity *	4 000 μW/cm <sup>2</sup> (35 W) 5 800 μW/cm <sup>2</sup> (50 W)	4 000 µW/cm <sup>2</sup>	4 000 µW/cm²	4 000 µW/cm <sup>2</sup>	4 000 μW/cm²
Spotlight beam >I 200 µW/cm <sup>2</sup> *	I25 mm (35 W) I40 mm (50 W)	125 mm	125 mm	125 mm	125 mm
Midlight beam >I 200 μW/cm <sup>2</sup> *	200 mm (35 W) 230 mm (50 W)	200 mm	200 mm	200 mm	200 mm
Floodlight beam >1 200 µW/cm <sup>2</sup> *	250 mm (35 W) 290 mm (50 W)	250 mm	250 mm	250 mm	250 mm
100 V – 230 V	✓	1	1	1	1
Available as kit	1	1	1	1	1

\* At a distance of 38 cm (15 inches)

## SUPERXENON UV 50 W OR UV 35 W

#### A light handheld device producing an extremely high intensity Spotlight, Midlight or Floodlight • 50 W or 35 W • Battery or Mains

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

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

Both models are available in three important distinctions – floodlight, midlight or spotlight, each giving different beams and intensities. Each lamp obtains full power in 5-15 seconds and can be switched on and off whenever used, without pre-cooling. It is unaffected by magnetic fields and can be used outdoors, even in the rain, as the lamp is IP65 certified. Labino SuperXenon are available with a handle of your choice – top, pistol or no handle (add a mounting bracket instead). Available with a carrying case.

The SuperXenon is equipped with the same filter, filter frame, reflectors and pistol handle as the 135-series.

## COMPARISON OF INTENSITY AND VISIBLE LIGHT IN SUPERXENON UV 50 W AND SUPERXENON UV 35 W

	SuperXenon UV 50 Watt			SuperXenon UV 35 Watt		
	Spotlight	Midlight	Floodlight	Spotlight	Midlight	Floodlight
Intensity *	>60 000 µw/cm²	>17 000 µw/cm²	>5 800 µw/cm²	>45 000 µw/cm²	>12 000 µw/cm²	>4 000 µw/cm²
Visible light *	<i3 <br="" lux="">I.3 fc</i3>	<5 Lux / 0.5 fc	<2 Lux / 0.2 fc	<10 Lux / 1.0 fc	<3 Lux / 0.3 fc	<2 Lux / 0.2 fc
Beam >I 200 µW/cm <sup>2</sup> *	140 mm	230 mm	290 mm	125 mm	200 mm	250 mm

\* At a distance of 38 cm (15 inches)

Power: 50 W or 35 W Wavelength: 365 nm (peak) Estimated bulb life time: 2 000 hours Power supply: Battery or Mains (AC) Length: 25 cm (9.8 inches) Housing diameter: 15.5 cm (6.1 inches) Weight Mains: I.4 kilos (3.1 lbs) Weight Battery: I.9 kilos (4.2 lbs) Battery running time: I hours (+/- 5%) Current regulator Top handle, No handle or Pistol handle



#### SXH (TOP HANDLE)



#### SXNH (NO HANDLE)



SXPH (PISTOL HANDLE)



\*\*\*For accurate orders please indicate to your distributor your choice of Model (Battery or PSU or both), beam (Spotlight, Midlight or Floodlight), and the country to be used in\*\*\*



#### COMPACT 135 UV (MOUNTING BRACKETS)



COMPACT HI35 UV (TOP HANDLE)



#### COMPACT PHI35 UV (PISTOL HANDLE)



DUO SI35 UV (MOUNTING BRACKETS)



DUO OSHI35 UV (TOP HANDLE SHORT)



DUO PSI35 UV (PISTOL HANDLE SHORT)

## COMPACT AND DUO UV 35 W

#### High intensity and great convinience Spotlight, Midlight or Floodlight • 35 W • Mains operated

Labino Compact and Duo UV lamps are based on MPXL technology and are operated via mains. These 35 W UV lamps carry a very high UV intensity, creating extreme excitation of fluorescent material, which makes it possible to see things, in daylight and at great distances. The Labino Compact lamp contains the trigger ballast (electronics) and bulb in a single housing, making it easier for the operator to use and move around large inspection areas – it weighs 2.25 kilos (5 lbs).

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

Both models are available in three important distinctions – floodlight, midlight or spotlight, each giving different beams and intensities. Each lamp obtains full power in 5-15 seconds and can be switched on and off whenever used, without pre-cooling. It is unaffected by magnetic fields and can be used outdoors, even in the rain, as the lamp is IP65 certified.

Compact and DUO are both available with a handle of your choice – top, pistol or no handle (add mounting brackets instead, see page 16).

#### INTENSITY AND VISIBLE LIGHT IN COMPACT & DUO

	Labino Compact & Duo				
	Spotlight Midlight Floodlight				
Intensity *	>45 000 µw/cm²	>12 000 µw/cm²	>4 000 µw/cm²		
Visible light *	<10 Lux / 1.0 fc	<3 Lux / 0.3 fc	<2 Lux / 0.2 fc		
Beam >I 200 µW/cm² *	125 mm	200 mm	250 mm		

\* At a distance of 38 cm (15 inches)

Power: 35 W Wavelength: 365 nm (peak) Estimated bulb life time: 2 000 hours Power supply: Mains operated Length Compact: 24 cm (9.4 inches) Length DUO: Luminary: 15 cm (5.9 inches) Ballast: 19 cm (7.5 inches) Housing diameter: 15.5 cm (6.1 inches) Weight Compact: 2.25 kilos (5 lbs) Weight DUO: Luminary 1.2 kilos (2.6 lbs) Ballast 1.5 kilos (3.3 lbs) Top handle, No handle or Pistol handle

\*\*\*For accurate orders please indicate to your distributor your choice of beam (Spotlight, Midlight, Floodlight), handle (top handle, pistol handle, or no handle) and the country to be used in\*\*\*

### TRAC LIGHT AND TRAC LIGHT PRO UV 35 W

#### High intensity and portability! Spotlight, Midlight or Floodlight • 35 W • Battery operated

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

The Labino TrAc Light lamp contains the trigger ballast (electronics), battery and bulb in a single housing. The light weight characteristic of this product – 2.32 kilos (5.1 lbs) – as well as the advantage of battery operation, removes any constraints to the user who can move freely around large inspection areas, up and down ladders and difficult structures. The battery has a running time of 1.3 hours and each unit is equipped with a current regulator to keep the intensity stable when the battery fades.

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

Both models are available in three important distinctions – floodlight, midlight or spotlight, each giving different beams and intensities. Each lamp obtains full power in 5-15 seconds and can be switched on and off whenever used, without pre-cooling. It is unaffected by magnetic fields and can be used outdoors, even in the rain, as the lamp is IP65 certified. Labino TrAc Light and TrAc Light Pro are both available with a handle of your choice – top, pistol or no handle (add mounting brackets instead, see page 16).

## INTENSITY AND VISIBLE LIGHT IN TRAC LIGHT & TRAC LIGHT PRO

	Labino	Labino TrAc Light & TrAc Light PRO					
	Spotlight	Spotlight Midlight Floodlight					
Intensity *	>45 000 µw/cm²	>12 000 µw/cm²	>4 000 µw/cm²				
Visible light *	<10 Lux / 1.0 fc <3 Lux / 0.3 fc <2 Lux / 0.2 fc						
Beam >Ι 200 μW/cm <sup>2</sup> *	125 mm	200 mm	250 mm				

\* At a distance of 38 cm (15 inches)

Power: 35 W Wavelength: 365 nm (peak) Estimated bulb life time: 2 000 hours Power supply: Battery Length TrAc Light: 24 cm (9.4 inches) Length TrAc Light PRO: Luminary: 15 cm (5.9 inches) Ballast: 19 cm (7.5 inches) Housing diameter: 15.5 cm (6.1 inches)

Weight TrAc Light: 2.32 kilos (5.1 lbs) Weight TrAc Light PRO: Luminary 1.1 kilos (2.4 lbs) Ballast 2.4 kilos (5.3 lbs) TrAc Light battery running time:1.3 hours (+/- 5%) TrAc Light PRO battery running time: 2.5 hours (+/- 5%) Current regulator Top handle, No handle or Pistol handle

\*\*\*For accurate orders please indicate to your distributor your choice of beam (Spotlight, Midlight, Floodlight), handle (top handle, pistol handle, or no handle) and the country to be used in\*\*\*



#### TRAC LIGHT

TRAC LIGHT PRO



TRAC LIGHT IN CASE



TRAC LIGHT PRO IN CASE

## ACCESSORIES AVAILABLE FOR EACH LIGHT

Accessories		MPXL Lights	LED BigBeam	LED MidBeam	LED Torches	LED Head Lights
UV Block Visor	3	V	J	J	J	1
UV Block Goggles Santa Cruz	9	J	J	J	J	V
UV Block Goggles Armamax *	ACV3	J	J	5	J	J
UV Block Goggles XC	2	J	J	\$	J	V
Belt Holster					J	
Friction Arm	X	J	J	J		
Tripod	T				J	
Mounting Yolk and Brackets for stationary mounting	<b>\$_1</b> 7	J	J			
Cable Winder	40		J			
Protection Clear Glass Filter	0	1	J			
Customized Carrying Case		J	J	J	1	

 $\ast$  Included with all MXPL Lights, Galaxy, BigBeam and MidBeam

## APOLLO METER

Radiometer and Photometer in one instrument – small enough to fit in a pocket

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

#### **COMPACT & LIGHT**

The Apollo Meter is ergonomic and easy to use due to its light weight chassis, separate cable connected sensor unit and compact size.

- Dimensions Meter: 168x74x35mm
- Dimensions Sensor: 96x47x24mm
- Total weight, including sensor: 350 gram (12.3 oz)
- Sensor cable length: 1 meter (39 inches)

#### DESIGNED FOR NON DESTRUCTIVE TESTING

The Apollo meter is engineered for use in Non Destructive Testing. The visible light sensor is specially designed to measure visible light at short wavelengths (near UV) and starts measuring at 380 nm. The spectral sensitivity of the Apollo visible light sensor closely relates to the reception of the human eye (CIE Standard Observer). The visible light sensor has got a non-fluorescent silicone photodiode.

#### ACCURATE AND RELIABLE

The visible light meter is extremely accurate as it is designed according to the CIE Standard Observer. The sensor is designed without any fluorescent filters and the sensor is a non-fluorescent silicone photodiode.

- Accuracy Visible light: +/- 3 %
- Accuracy UV light: +/- 4 %

#### EASY TO OPERATE

The back light in the display comes on automatically when measuring in a dark area and it provides an auto ranging for both visible light and UV light. The meter features both hold and peak functions.

- Hold function: Push "hold button" to store the value
- Peak function: The sensor automatically stores the highest value measured

#### LOW ENERGY - LONG BATTERY LIFE

Due to the low energy required to operate the instrument the batteries lasts long.

- Running time without using back light: Approximately 350 hours
- Running time using the back light: Approximately 35 hours
- Standby life time: Minimum 1 year



#### RADIOMETER/PHOTOMETER APOLLO

LCD display Automatic back light High contrast LCD 2 x 16 character alphanumeric display Read update: 1.7 Hz Sampling rate: 15 Hz Units: Provides measurements in both metric (lux) and imperial (foot candle) UV-A sensor Spectral range: 315-390 nm\* Measurement range: 1-100 000 µw/cm2 (0.01-1000w/m2) Visible light sensor Spectral range: 380-700 nm\*\* Measurement range: 0.1-5000 lux (0.009-464.5 fc) Battery operated: 2 × 1.5 V R6 (AA Battery)

\*Complies with ISO 3059, ASTM E1444 and E1417 \*\*Complies with CIE Standard Observe



6 BOTTLES LABINOIL 25 ML



#### UVG2 SPOTLIGHT TORCH



LABINOIL DYE KIT



LABINOIL I LITRE

## LABINOIL DYE

Leak detection made fast and easy! A complete leak detection kit with fluorescent dye and UV torch

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

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

The kit includes six 25 ml bottles of LabinOil dye and one UVG2 Spotlight LED torch (specifications on page 9) as well as accessories (two chargers including vehicle charger, UV block goggles, belt holster and three batteries) and a carrying case.

The LabinOil dye can be purchased in different volumes:

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

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

## DISTRIBUTOR LIST

#### NORTH AMERICA

CANADA

AVOFIX NDT LTD. (Service Center) 7490 Bath Road MISSISSAUGA L4T IL2, Ontario Tel: +1 9 056 774 430 Fax: +1 9 056 775 440 www.avofix.com

CANADIAN NDE TECH. Toronto Office 124 Skyway Avenue TORONTO, Ontario, M9W 4Y9 Tel: +1 416 213 8000 Fax: +1 416 213 8004 1140 Rue Leger

Quebec Office VALLEYFIELD, Quebec J6S 5B9 Tel: +1 450 373 8580 Fax: +1 450 373 6297 www.candet.ca

QUALITY NDE (Service Center) Quebec Office 164 St-jean Baptiste MERCIER, Quebec J6R 2C2 Tel: +1 450 691 9090 Fax: +1 450 691 6101

Ontario Office 275 Sheldon Drive, Unit 3 CAMBRIDGE, Ontario NIT IA3 Tel: 519-894-9069 Fax: 519-622-9413 www.qualitynde.com

NDT VISIONS INC. Montreal Office 8100 Trans Canada Highway Suite K, Bay 25 ST-LAURENT, QC H4S IM5 TEL: 514-745-2445 FAX: 514-745-2440 www.ndtvisions.com

Alberta Office 41, 4612-62 Street RED DEER, AB T4N 6T3 TEL: 403-342-7777 FAX: 403-342-7711

#### UNITED STATES OF AMERICA

BERG ENG. & SALES, CO. Inc. (Service Center) 3893 Industrial Ave. ROLLING MEADOWS, IL 60008 Tel: +1 847 577 3980 Fax: +1 847 577 0474 www.bergeng.com

EASTERN NDT (Service Center) 1404 City Point Rd. HOPEWELL, VA 23860 Tel: +1 804 458 1661 Fax: +1 804 458 1780 www.easternndt.com

FEOLE TECHNOLOGIES INC. 2220 Plainfield Pike CRANSTON R.I. 02921 Tel: +1 401 943 3141 Cell: +1 401 640 9579 Fax: +1 401 942 5322 www.feole.com

HOCKER INCORPORATED (Service Center) 13402 Weiman Road HOUSTON, TX 77041 Tel: +1 713 464 5829 Fax: +1 713 464 3192 www.hockerinc.com

#### MAGWERKS 501 Commerce Dr. DANVILLE, IN 46122 Tel: +1 317 241 8011 Fax: +1 317 241 8015

www.magwerks.com MPM PRODUCTS California Office (Service Center) 1718 East Grevillea Court ONTARIO, CA 91761 Phone: 909.947.8464 Toll Free: 800.429.0128 Fax #: 909.947.3257 www.mpmproducts.com

MPM Texas Office 415 Lillard Road ARLINGTON, Tx 76012 Phone: 817.261.5566 Toll Free: 800.262.5567 Fax #: 817.261.5555

MPM Oregon Office 6521-B Southeast Crosswhite Way PORTLAND, OR 97206 Phone: 503.775.0400 Fax #: 503.775.0200

MPM Utah Office 1596 West 2650 South Unit 104 OGDEN, UT 84401 Phone: 801.392.5008 Fax #: 801.392.5199

MPM Minnesota Office 10305 West 70th Street EDEN PRAIRIE, MN 55344 Phon 918 740-0290

NEWCO INC. (Service Center) 2811 West Palmetto Street FLORENCE, SC 29501 Tel: +1 843 669 2988 Fax: +1 843 664 0197 www.newcoinc.com

TEST EQUIPMENT DIST. LLC. CUSTOMER CARE CENTER (Service Center) 1959-D Parker Court STONE MOUNTAIN, Georgia 30087 Toll Free: +1 800 962 1788 Tel: +1 770 978 0083 Fax: +1 770 978 0115 www.tedndt.com

TED Michigan Office 1370 Piedmont TROY, Michigan 48083-1917

TED California Office 1844 West 11th (Unit E) UPLAND, California 91786

TED Portland Office 5476 S.E. International Way MILWAUKIE, OR 97222

TED Georgia Office 1959-D Parker Court STONE MOUNTAIN, Georgia 30087

TED New Jersey Office 220 West Parkway (Unit 11B) POMPTON PLAINS, New Jersey 07444-1060

TED Utah Office 3072 South 300 West SALT LAKE CITY, UT 84115 QSA Baton Rouge Office 6765 Langley Drive 70809 Baton Rouge, LA Tel: +1 225 751 5893 Fax: +1 225 756 0365

Houston Office (Service Center) 3200 Awesome Lane LaPorte, TX 775 71 Tel: +1 713 944 32 00 Fax: +1 713 944 38 00 www.sentinelndt.com

#### EUROPE

AUSTRIA MITTLI Hegergasse 7 1030 WIEN Tel: +43 | 798 66 || 0 Fax: +43 | 798 66 || 31 www.mittli.at

BELGIUM

CHIELENS BVBA Adelaarstraat 8 9051 GENT Tel: +32 9 222 22 60 Fax: +32 9 222 60 48 www.chielens.be

SADECHAF Campus Blairon 30 B-2300 TURNHOUT Tel: +32 14 41 11 19 Fax: +32 14 43 98 33 www.sadechaf.be

#### BULGARIA

NEXUS P.O. Box 50 1330 SOFIE Tel: +359 8 885 509 74 Fax: +359 2 971 83 74 www.nexus-bg.com

**CROATIA** IDEF (Service Center) Kranjceviceva 30 10000 ZAGREB Tel: +385 I 364 663 7 Fax: +385 I 364 663 5 www.idef.hr/kontakt.htm

#### CZECH REPUBLIC

ENERGOSERVIS SPOL (Service Center) Dukelska IIII 43001 CHOMUTOV Tel: +420 474 628 954 Fax: +420 474 628 954 www.defektoskopie.cz

#### DENMARK

FOXDAL NDT (Service Center) Gadagervej 15 DK-2620 ALBERTSLUND Tel: +45 4364 4300 Fax: +45 4364 4307 www.foxdal.com

#### FINLAND

SINTROL (Service Center) Ruosilantie 15 00390 HELSINKI Tel: +358 9 5617 360 Fax: +358 9 5617 3680 wvw.sintrol.fi

#### FRANCE

CEGELEC SA TSA 30000 72, avenue de la Liberté 927 39 NANTERRE CEDEX Tel: +33 | 69 88 67 67 Fax: +33 | 69 88 67 68 www.ndt.cegelec.com

#### GERMANY

AB ANGELIKA BUSCH e.K. (Service Center) Brummgasse 18 97877 WERTHEIM Tel: +49 9342 8561 0 Fax: +49 9342 8561 60 www.ab-busch.de

#### HUNGARY

GRIMAS Kft. Pulí Sétány 2-4 1214 BUDAPEST Tel +361 420 5883 Fax +361 276 0557 www.grimas.hu

#### ITALY

C.G.M. CIGIEMME S.P.A. Via Adda 21 20090 OPERA (MI) Tel: +39 02 57 600 400 Fax: +39 02 57 603 618 www.cgm-cigiemme.it

#### LITHUANIA

UAB VEGASTEL Pavasario str: 41-72 LT-89162 MAZEIKIAI Tel: +370 443 21389 Fax: +370 443 21383 www.vegastel.eu

#### NETHERLANDS

MATCON Insulindeweg I5 NL-1462 MJ MIDDENBREEMSTER Tel: +31 299 684 468 Fax: +31 299 684 374 www.matcon.com

#### NORWAY

HOLGER TEKNOLOGI AS (Service Center) P.O.Box 122 Holmlia 1202 OSLO Tel: +47 23 1694 60 Fax: +47 22 6110 30 www.holger.no

#### POLLAND

NDT SYSTEM ul. S. Twardowskiego 21 01643 WARSZAWA Tel: +48 228 325 030 Fax: +48 22 8339 677 www.ndt-system.com.pl

#### PORTUGAL

WELDNDT Rua Bartolomeu Velho n° 689 – Hab 63 4150-124 PORTO Tel: +351 618 179939423 Fax: +351 618 1799 wvvv.weldndt.pt

#### ROMANIA

TOTAL CONTROL SRL Calea Calarasi nr 38 (B) RO-030624 BUCHAREST 3 Tel: +4031 4256155 Fax: +4021 2123151 www.tcontrol.ro

#### NAMICON

Str. Emil Racovita 35-39, Vila AD 01 077190 VOLUNTARI, jud. ILFOV Tel: + 40 21 528 0151 / 0152 Fax: + 40 21 528 0150 www.namicon.com

#### RUSSIA

EXPERT NK (Service Center) Altufevskoe shosse, d. 41A 127410, MOSKVA Tel. +7(495) 660-94-49 Fax. +7(495) 660-94-49 www.expertnk.ru

#### SLOVAKIA

SLOVCERT Podunajská 36 821 07 BRATISLAVA, Slovakia Tel: +421 2 455 257 09/710 Fax: +421 2 456 421 82/183 www.slovcert.sk

#### SLOVENIA

LITOSTROJ Litostrojska 50 SI -1515 LJUBLJANA Tel: +386 I 5824 100 Fax: +386 I 5824 41 76

#### SPAIN

UTILES Y MÁQUINAS INDUSTRIALES S.A. (Service Center) Bilbao Office c/ José M. Ugarteburu, 2 48007 BILBAO Tel: +34 944 46 62 50 Fax: +34 944 46 05 41 www.umi.es

Madrid Office Avda de Madrid 43 Local 28850 TORREJON DE ARDOZ Tel: +34 90 210 70 20 Fax: +34 91 678 43 66 www.umi.es

#### SWEDEN

AB KONTROLLMETOD (Service Center) Södra Långebergsgatan 18 421 32 VÄSTRA FRÖLUNDA Tel: +46 31 748 52 50 Fax: +46 31 748 52 60 www.kontrollmetod.se

KARL DEUTSCH NORDISKA Allmogeplatsen 33 724 80 VÄSTERÅS Tel: +46 21 35 70 00 Fax: +46 21 35 90 10 www.kdn.se

#### SWITZERLAND

FISCH UND PARTNER AG (Service Center) Postfach 624 8600 DUBENDORF Tel. +41 44 821 01 15 Fax +41 44 821 10 16 www.fischundpartner.ch

#### TURKEY

KTM LTD. (Service Center) Cevad Dundar Cad. Kavacikh Is Merkezi No: 15/12 OSTIM-06370 Ankara Tel: +90 3 123 544 676 Fax: +90 3 123 544 797 www.ktm.com.tr

#### UNITED KINGDOM

ADVANCED NDT (Service Center) Orchard House Orchard Close Severn Stoke WORCESTER WR8 9JJ Tel: +44 I 905 37I 460 Fax: +44 I 905 37I 477 www.advanced-ndt.co.uk

RSL NDT (Service Center) Unit 9, Murcar Ind. Estate Bridge of Don ABERDEEN AB23 8JW Tel: +44 | 224 822 600 Fax: +44 | 224 823 491 www.rsIndt.com

#### ASIA

#### CHINA

BEIJING DEYUPANA NDT Co. (Service Center) Room 1601/7, Graceful Garden No. 20, Shouti South Road 100044 Haidian Dist. BEIJING Tel: +86 10 8835 5151 Fax: +86 10 8835 5137 www.deyupana.com.cn

PU HUI INSPECTION TECH. Room 108A, No.413, West Meilong Rd, Minhang District, SHANGHAI 200241 Tel: +86 21 5102 8113 Fax: +86 21 5102 8113-806 www.ph-tek.com

#### INDIA

SQUAREMAG SYSTEMS Plot No.91, Prashanthnagar, Industrial Estate, KUKATPALLY Hyderabad – 500072 Tel: +91 98 49 64 71 07 www.squaremagsystems.com

FERROCHEM NDT SYSTEMS LTD Plot No. C-98, Additional Jejuri Industiral Area, MIDC, Jejuri PUNE, Maharashtra Zip Code: 412303 Tel: +91-8888649870 www.ferrochemndtsystems.com

#### INDONESIA

PT. NDT INSTRUMENTS Jalan Mandala Raya No. 11 JAKARTA Barat 11440 Tel:+62 21 5695 4188 Fax:+62 21 5695 8379 www.ndt-instruments.co.id

#### JAPAN

NIHON DENJI SOKKI Co. 8-59-2, Sunagawa-cho Tachikawa-city TOKYO Tel: +81 425 373 511 www.j-ndk.co.jp

NIHON MATECH Corp. 3 rd. FL., Ichibancho West Bldg. 10 Ichibancho, Chiyodaku 102-0082 TOKYO Tel:+81 3 3221 7531 Fax: +81 3 3221 7240 www.matech.co.jp

#### KOREA

INFOTECH INC. 664-Ho, Jinsung Praza 6th floor, 533-7, Sang3-Dong, Wonmi-Gu, Bucheon-Si, KYUNGGI-DO, 420-861 Tel: +82 32 612 8252 Fax:+82 32 232 0431 www.infotc.co.kr

#### MALAYSIA

NDT INSTRUMENTS PTE LTD. 50 Ubi Avenue 3, #05-20 Frontier, Singapore 408866 SINGAPORE Tel: +65 6571 0668 Fax: +65 6571 0647/0669 www.ndt-instruments.com

#### PHILIPPINES

NDT INSTRUMENTS INC. Room 203 GEDCOR Square Building, Ninoy Aquino Avenue, Corner Irasan Street, SAN DIONISIO, Philippines 1705 Tel: +632 826 26 69 Fax: +632 822 7130 www.ndt-instruments.com

#### SINGAPORE

NDT INSTRUMENTS PTE LTD (Service Center) 50 Ubi Avenue 3, #05-20 Frontier, SINGAPORE 408866 Tel: +65 6571 0668 Fax: +65 6571 0647/0669 www.ndt-instruments.com

#### TAIWAN

AI-KWANG TECH CO. LTD (Service Center) No. 88, Alley 28, Lane 369 Fong Ren Road REN WU TOWNSHIP Kaohsiung County Tel: +886 7 3757 377 Fax: +886 7 375 7378

#### THAILAND

NDT INSTRUMENTS 44/156 Soi Nimitmai 6/2 Minburi Minburi, BANGKOK, Thailand 10510 Tel: +66 2 181 0208 Fax: +66 2 914 62 67 www.ndtthailand.com

#### VIETNAM

KIM TÀI LINH Co. Ltd 58, 20 Street, Ward 5, Dist Go Vap. HO CHI MINH CITY Tel: +84 8 39 847 477 Fax: +84 8 39 847 478 www.kimtailinh-ndt.com.vn

#### OCEANIA

#### AUSTRALIA CHEMETALL (AUSTRALIA) 17 Turbo Drive 3153 BAYSWATER NORTH Tel: +61 3 9729 6253 Fax: +61 3 9720 1711

#### NEW ZEALAND

CHEMETALL (NEW ZEALAND) 664 Rosebank Road AVONDALE, Auckland New Zealand, 1026 Tel: +64 9 820 3888 Fax: +64 9 820 3979 www.chemetall.com

#### MIDDLE EAST

#### IRAN

PARTO NAMAYE (Service Center) PO Box 14198364 No.17, Zand Ave., North Jamalzadeh St. TEHRAN Tel: +98 21 66 43 59 76 Fax: +98 21 66 92 72 76

#### ISRAEL

R.B.M. Ltd. 21st Atir-Yeda St. KFAR-SABA Tel: +972 9 7674431 Fax: +972 9 7676898 www.rbmltd.co.il

#### SAUDI ARABIA

SAMIR PHOTOGRAPHIC P.O Box 599 21421 JEDDAH Tel: +966 2 682 8219 Fax: +966 2 683 0820 www.samir-photo.com

#### UNITED ARAB EMIRATES

NON-DESTRUCTIVE TESTING CO. (LLC) P.O Box 41879 DUBAI Tel: +971 4 3979 585 Fax: +971 4 3979 586

PETRO MAT FZCO P.O. Box 261812, Jebel Ali Free Zone. , DUBAI, UAE Tel: 00971-4-8808983 Cell: 00971-50 4771836 Fax: 00971-4-8808984 www.petromat.ae

#### LATIN AMERICA

#### ARGENTINA

DV INGENIERIA SRL Migueletes III7 pb "A" CAP FED 1426 Tel: +54 II 4772-7254 Fax: +54 II 4772-7254

#### BRAZIL

KUBIKA COMERCIAL LTDA Kubika Comercial Ltda Rua Sta Veridiana, 340-A 02128-000 SAO PAULO-SP Brazil Tel: + 55 II 69091302 www.kubika.com.br

#### AFRICA

#### SOUTH AFRICA

GAMMATEC NDT 13 King Street DUNCANVILLE, Ext. 3 Vereeniging, 1936 Republic of South Africa Tel: +27 16 454 – 0260 Fax: +27 16 423 – 3442 www.gammatecsa.com

#### LABINO CONTACTS

Corporate Mailing Address: LABINO AB Industrivägen 17 171 48 Solna SWEDEN

Visiting Address: LABINO AB Industrivägen 17 171 48 Solna SWEDEN

Manufacturing Address: LABINO Manufacturing & Service, Vågsnäsvägen 8, 892 42 Domsjö SWEDEN Fax: +46 660 148 15

> Customer Service & Sales: Phone: +46 8 83 90 70 Fax: +46 8 83 90 23 Iabino@labino.com

Technical Support: Phone: +46 8 83 90 70 Fax: +46 8 83 90 23 technicalsupport@labino.com

Accounting and Finance: Phone: +46 8 83 90 70 Fax: +46 8 83 90 23 accounting@labino.com

www.labino.com

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