

Labino® Nova Torch



8 LAMPS | SMALL | LIGHT WEIGHT PERFECT LIGHT BEAM

MAKES IT BRIGHT

- The Labino Nova Torch is a cordless battery operated torch light based on the LED technology
- The new Nova Torch Light range consists of eight (8) high intensity alternate forensic light sources for crime scene investigation as well as laboratory use
- The light emitting diodes emit a beam of light that is "evenly" distributed
- The torch can be operated with 1 Li-ion battery and offers 180 minutes running time when fully charged
- Its compact size makes it easy to work with and with an instant start function you get full power immediately
- The torch has a low weight for easier handling
- The new Nova Torch light is supplied with tripod for hands-free operation
- Nova Torch Lights are available individually or as cased sets which include 4 goggles, 1 tripod, 1 care charger, 2 battery charger, carrying case and other accessories, please see below



TECHNICAL SPECIFICATION

LED

• UV:	365 nm	>16 000μW/cm ²
• Purple:	0,6 lm	144 mW
• Blue:	23 lm	354 mW
• Green:	60 lm	127 mW
• Amber:	20 lm	40 mW
• Red:	34 lm	209 mW
• Cyan:	45 lm	136 mW
• White:	92 lm	309 mW

Battery

- 2200 mAh Lithium-Ion, 3.7 volts
- Running time: approx. 3 hrs
- Charging time: approx. 8 hrs
- Requires one (1) battery to operate

Charger

- One (1) 100-240 VAC charger for use from electrical outlet
- One (1) 12 V charger for use in vehicle via cigarette lighter connection
- Capacity: two batteries can be charged simultaneously

Dimensions

- Length: 15.9 cm (6.3 inches)
- Weight exc. battery: 166 gr (5.8 oz)
- Weight inc. battery: 211 gr (7.4 oz)

Certificate

- All components included in the Labino Torch Light lamp are RoHS certified according to 2002/95/EG

Included in the Kit

- 8 Lamps
- 10 Li-ion batteries (one for each lamp + 2 extra)
- 2 Chargers
- 1 Car charger
- 4 goggles (UV-block, red, orange & yellow)
- 1 Tripod
- 1 Carrying case with custom designed interior (IP67)

DISTRIBUTOR:



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Wavelength sheet



MAKES IT BRIGHT

Led Light Colour	Wave-length	Band-width	Typical output	Suitable spectacles For Contrast	General applications
UV	365 nm	350-395nm	16 000 $\mu\text{W}/\text{cm}^2$	 Orange Red	General searching Body fluids Fingerprints Bruising Flourescent dyes, powders, stamps and markers
Purple	400 nm	395-405nm	0,60 lm or 144 mW	 Orange Yellow	Searching for the enhancement of skin injuries, i.e. abrasions and bruises
Blue	455 nm	440-460nm	23 lm or 354 mW	 Orange Yellow	General searching Body fluids Fibres Basic Yellow 40 Cyanoacrylate
Cyan	505 nm	490-520nm	TBA	 Orange Red	Ninhydrine, DFO and Superglue (treated fingerprints) and Body fluids
Green	530 nm	520-550nm	60 lm 127 mW	 Orange Red	Ninhydrine and DFO (treated fingerprints) Body fluids
Amber	590 nm	588-595nm	20 lm 40 mW	 Red	Ninhydrine (treated fingerprints)
Red	625 nm	620-645nm	34 lm 209 mW	 Red	Ninhydrine (treated fingerprints) Hair
White	-	7000-8300 °K	92 lm 309 mW		General searching (foot prints, hair fibre) Ninhydrine (treated fingerprints)

INCLUDED IN THE LABINO TORCH LIGHT NOVA KIT

Tripod



8 Lamps



2 Chargers
1 Car charger
10 Batteries



4 Goggles



1 Case





MB ARIS

CSI AND FORENSIC LAB KIT



OPTION 1: FULL MB Aris CRIME KIT (Article Number LI17) Includes 4 lamps (1 UV-365nm, 1 Green-530nm, 1 Blue – 455nm, 1 Amber-590nm), 3 contrast goggles (red, orange, yellow), 1 UV protective goggles, 1 charging PSU, 1 external charger for wall outlet, 1 car charger, 2 extra batteries, 1 carrying case to fit all four lamps, forensic camera filter kit.



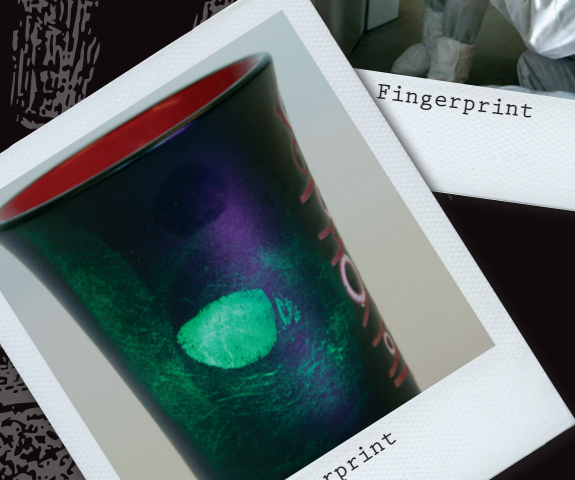
Fingerprint



Belt - Semen
Light source:
Labino MB Aris



Shoewear - Semen
Light source:
Labino MB Aris



Fingerprint



OPTION 2: MB Aris SINGLE 530 (Article Number LI15)

1 Green-530nm lamp, 1 orange goggles, 1 charging PSU,
1 external charger, 1 car charger, 2 extra batteries,
1 carrying case, 1 forensic camera filter kit



**EASY
TO
OPERATE**



OPTION 3: MB Aris SINGLE 590 (Article Number LI16)

1 Amber-590nm lamp, 1 red goggles, 1 charging PSU,
1 external charger, 1 car charger, 2 extra batteries,
1 carrying case, 1 forensic camera filter kit



**POWERED
BY TWO
Li-on
BATTERIES**



OPTION 4: MB Aris SINGLE 455 (Article Number LI14)

1 Blue-455nm lamp, 1 yellow goggles, 1 charging PSU,
1 external charger, 1 car charger, 2 extra batteries,
1 carrying case, 1 forensic camera filter kit



**CHARGE
WITHOUT
REMOVING
BATTERIES**



Included in forensic camera filter kit:

3 Filters (Red, Orange and Yellow) sized 100 x 84 mm
(3.9 x 3.3 inch) each, 1 filter frame, carrying case,
8 camera adaptors (Ø 49 mm, Ø 52 mm, Ø 55 mm,
Ø 58 mm, Ø 62 mm, Ø 67 mm, Ø 72 mm, Ø 77 mm).



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UNIQUE ALS POWERFUL | WIDE BEAM

The TrAc Finder™ is the most powerful ALS lamp with the widest light beam available on the market. The lamp meets the needs of criminal investigators who need an *intense* ALS that has a *wide* light beam and easy-to-change filters.

The TrAc Finder consists of a Crime Kit:

- 4 interchangeable forensic filters
- 3 different colored goggles in protective pouch
- 1 rugged professional carrying case
- +
- 1 portable battery operated “TrAc” UV lamp and charger (see website for available models) (lamp sold separately)

Changing forensic filters is quick and easy. Simply “click-off” one filter and “click-on” another.

MAKES IT BRIGHT



**TrAc Finder consists of a Crime Kit
(1 case, 4 filters and 3 goggles)
and a TrAc lamp of your choice**

TECHNICAL SPECIFICATION

Forensic filters

- UV Crime Filter:
wavelength 310-400 nm
(peaks at 365 nm)
- General Crime Filter:
wavelength 400-525 nm
- Blue Crime Filter:
wavelength 415-485 nm
- Green Crime Filter:
wavelength 485-530 nm

Forensic goggles

- Yellow goggles
Transmit 2% at 480 nm
- Orange goggles
Transmit 2% at 549 nm
- Red goggles
Transmit 2% at 583 nm

Professional carrying case

- Rugged, sturdy and well suited to mobile operations in the field
- IP65 certified – water, wind, dust resistant
- Custom designed foam interior to suit each lamp model

Spotlight – for field use

- Distribution angle
(beam) 3.5°

Midlight – for laboratory use

- Distribution angle
(beam) 20°

Manufactured in Sweden





The Lumicyano™ - A groundbreaking Latent Fingerprint Solution. Saves Time and Money!

MAKES IT BRIGHT



Labino® SuperXenon^{LUMI} Kit, in combination with a fuming chamber, provides you with everything you need to start using Lumicyano™ for fingerprint recognition.

Lumicyano™ is a fluorescent cyanoacrylate. It removes the post-processing stage of staining or dusting with powder. Furthermore, if needed it's compatible with future DNA analysis. The Cyanoacrylate Fuming Method is a well-proven means of developing latent fingerprints. One of the drawbacks with the 'superglue method' is that the final image obtained is not always easy to photograph. Since the chemical deposits left after reaction are white, there may not be sufficient contrast between the fingerprint and the substrate. You can use a colorant that turns the fingerprint

fluorescent. But this post-treatment poses several problems. The products in question are toxic and carcinogenic and have to be used in a fume cupboard. In addition, this process can take up to 48h. To overcome this, Lumicyano™ is a unique one-step process undertaken in a standard fuming chamber at 120°C and 80% humidity. It emits a "cyanoacrylate fluorescent fume" clearly and sharply defining the latent fingerprint in yellow. All you need to do is illuminate it with UV 325 nm.



XThe Lumicyano™ fluorescence is Yellow 560 nm. It's best when "excited" by UV 325 nm. SuperXenon^{LUMI} 325 nm is specially designed to be used together with Lumicyano™. It is one of the most powerful handheld UV lamps on the market. The 50 w Xenon bulb offers an extremely high UV intensity, providing a very clear excitation of fluorescent material.

TECHNICAL SPECIFICATIONS SUPERXENON^{LUMI} LIGHT

For Technical Specification of Lumicyano™, please see separate Data sheet



Midlight Reflector

- Distribution angle (beam): 20°
- Irradiance: 50w bulb $\approx 17\,000\text{ }\mu\text{W}/\text{cm}^2$ at 38 cm (15")

Mains - Voltage

- 100 -230 VAC
- Operated by separate PSU with self-selecting voltages

Weight & Cables

- Weight mains operated: 1.4 kilos (3.09 lbs)
- Cable length: 0.7 meters, fully extended 2.8 meters (9 feet)

Additional Information

- Top Handle or Pistol Handle
- Mechanical Stability (bulb): MIL-STD 810
- Service life (bulb): $\approx 2\,000$ hrs
- Wavelength: UV-A, peak 325 nm
- Start-up time: full power after 5-15 sec
- Material in housing: Magnesium Alloy
- The housing is via pre milled slots prepared for mounting devices
- CE approved

Included in the SuperXenon^{LUMI} Kit:

- 1 SuperXenon^{LUMI} Light
- 1 A/C Power Supply Unit
- 1 bag fits 4 bottles of Lumicyano™ (Lumicyano™ dye is not included, please order separately)
- 1 Hard Carrying case (IP65 classified)



Global
Forensics

Lumicyano™

Lumicyano™ – Supercharged Superglue for Fingerprint Recognition

Lumicyano™ is a fluorescent cyanoacrylate. It removes the post-processing stage of staining or dusting with powder while preserving the DNA for future analysis.



The Cyanoacrylate Fuming Method is a well-tried and tested means of developing latent fingerprints. It has proved its worth countless times as an effective tool for professional investigators.

One of the drawbacks with the 'super glue method' is that the final image obtained is not always easy to photograph if on a white substrate. Since the chemical deposits left after reaction are white, there may not be sufficient contrast for an effective photograph to be taken. To overcome this, forensic scientists undertake an additional process either by dusting or dyeing. This takes time and effort. This one step process is undertaken in a standard fuming chamber at 120°C and 80% humidity.

Lumicyano™, manufactured by Crime Scene Technology, is a fluorescent cyanoacrylate.

Its chemical makeup emits a "cyanoacrylate fluorescent fume" during the fuming process, clearly and sharply defining the latent fingerprint in yellow under UV-light. If required, the fluorescence can be refreshed days later.





We have had requests for Lumicyano™ from over 40 countries.

Fingerprint experts from a number of countries have reported finding marks they believe would not have been found with conventional treatments.

Technical guidance notes and a detailed paper on the use of lights, goggles and filters to maximise the effectiveness of the results are now available.

Many users have reported increased resolution and definition of fingerprint ridges and pores. Users are also reporting that by varying the light sources, goggles, and camera lenses filters, they achieve high resolution fingerprints without noise background as Lumicyano™ is deposited only onto the fingerprint ridges.

“Ridge detail enhancement was so improved we were able to see pore details.”

“This will save us a lot of time and money as well as giving us good results.”

Dosage & Timings

Dosages depends on the nature and numbers of supports in the chamber, as Lumicyano™ does not “over-glue” the quantity used and timings can be increased with no risk. Find recommended parameters and minimal amounts as follows:

Cabinet Capacity	Fuming Timings	Lumicyano™
170 litres	20 minutes	1.0g
650 litres	25 minutes	3.0g
2000 litres	30 minutes	4.5g

Light Source & Camera Filters

The Lumicyano™ fluorescence is Yellow 560nm.

It's best when “excited” by one of two wavelengths of light:

UV 300nm - 350nm

425nm - 530nm

The use of coloured filters to photograph the fluorescent fingerprints are recommended to get optimal contrast:

Deep Yellow 520nm

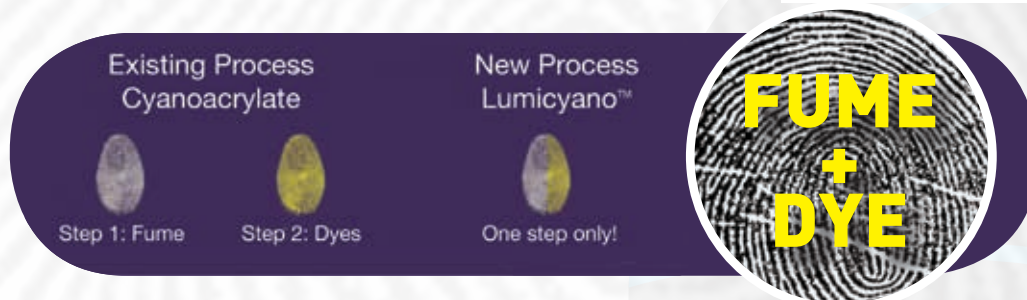
Orange 550nm

Benefits of Lumicyano™

- Fumes and Dyes simultaneously
- Improves the image of latent prints
- Better resolution and ridge definition than with classic Superglue
- Compatible with dyes / powders and DNA analysis
- Works on hard materials
- Two wavelength options for fluorescing
- Employs existing fuming chambers
- Reduces cost and time as no dying required or cleaning up

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Helping you solve crimes quicker