

# Labino® SuperXenon<sup>LUMI</sup> Kit



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

**MAKES IT BRIGHT**



Labino® SuperXenon<sup>LUMI</sup> 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.



**X**The Lumicyano™ fluorescence is Yellow 560 nm. It's best when "excited" by UV 325 nm. SuperXenon<sup>LUMI</sup> 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. The lamp can be operated by two different power systems – battery or A/C. You can switch between a battery and power supply unit on the same lamp by switching the docking devices – both fit to the same lamp.

### TECHNICAL SPECIFICATIONS SUPERXENON<sup>LUMI</sup> LIGHT

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



#### Midlight Reflector

- i. Distribution angle (beam): 20°
- ii. Irradiance: 50w bulb  $\approx$  17 000  $\mu$ W/cm<sup>2</sup>=at 38 cm (15")

#### Mains - Voltage

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

#### Battery

- i. 2 200 mAh Lithium-Ion
- ii. Voltage: 14.8 V
- iii. Running time: 1 hour
- iv. Charging time: 1.5 hours

#### Weight & Cables

- i. Weight battery operated: 1.9 kilos (4.19 lbs)
- ii. Weight mains operated: 1.4 kilos (3.09 lbs)
- iii. Cable length: 0.7 meters, fully extended 2.8 meters (9 feet)

#### Additional Information

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

#### Included in the SuperXenon<sup>LUMI</sup> Kit:

- i. 1 SuperXenon<sup>LUMI</sup> Light
- ii. 1 A/C Power Supply Unit or 1 Battery incl. charger
- iii. 1 bag fits 4 bottles of Lumicyano™ (Lumicyano™ dye is not included, please order separately)
- iv. 1 Hard Carrying case (IP65 classified)

#### Distributor:

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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.







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# Lumicyano™

**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

### ADVANCED NDT LTD

[www.advanced-ndt.co.uk](http://www.advanced-ndt.co.uk)

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Existing Process  
Cyanoacrylate



Step 1: Fume



Step 2: Dyes

New Process  
Lumicyano™



One step only!



Helping you solve crimes quicker

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