



NEW VERSION OF LUMICYANO™  
NOW ON THE MARKET!

## New groundbreaking Latent Fingerprint Solution. 1-Step: “Fume + Dye” and Light with SuperXenonLumi!

Lumikit™ is the new enhanced version of Lumicyano™. It has been especially designed to have a stronger brightness and to develop high level detailed fingerprints under optimal conditions. There is a minimized risk to “over-glue”, thus providing better results than classical super glue, post-treatment dyes or powders. The Lumicyano™ allows you to use your present fuming chamber – Just 1-Step “Fume + Dye” and light with SuperXenon<sup>LUMI</sup> 325 nm!

### FEATURES OF THE NEW GENERATION OF LUMICYANO™

- Stronger fluorescence brightness
- Extended fluorescence observation
- Shelf-life: 1 year
- No need to refrigerate
- Fumes and Dyes simultaneously
- Improves the image of latent prints
- High level details fingerprints better than classical super glue
- Compatible with dyes / powders and DNA analysis
- Works on hard materials
- Employs existing fuming chambers
- Reduces cost and time as no dyeing or cleaning up required



### Lumicyano Powder™ and Lumicyano Solution™ - One-step Fluorescent cyanoacrylate fuming process

Lumicyano Powder™ and Lumicyano Solution™ provides a special Lumikit™ giving stronger fluorescence brightness and an extended fluorescence observation. Lumicyano Powder™ is the new enhanced version of Lumicyano™ one-step fluorescent cyanoacrylate fuming process. It is similar to the cyanoacrylate ‘superglue’ fuming process using a standard fuming chamber, but it removes the post processing stage of dyeing or dusting with powder.

Combined with Lumicyano Solution™, it has been especially designed to have a stronger brightness and to develop high level detailed fingerprints under optimal conditions with a minimised risk to ‘over-glue’, thus providing better results than classical super glue, post-treatment dyes or powders. The process is very sensitive with dyes or powders and is compatible with DNA analysis. Ideal Evidence Samples:

- Non-porous: plastic, metal, glass, adhesive surfaces
- Semi-porous: matt type of paper, card

To obtain the best results from the Lumikit™, please ensure the “Guidelines for use” are strictly followed. Dosage and timing depends on the nature and number of exhibits in the fuming chamber. To observe optimal brightness of the fluorescence, examination and photography are recommended to take place as soon as possible after the fuming cycle has been completed. For Technical Specification of Lumicyano™, please see separate Data sheet.



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



**MAKES IT BRIGHT**

## FEATURES OF THE SUPERXENON<sup>LUMI</sup> LIGHT

The SuperXenon<sup>LUMI</sup> Kit, in combination with a fuming chamber as well as the Lumicyano, provides you with everything you need to start using Lumicyano<sup>™</sup> for fingerprint recognition. Included in the kit: SuperXenon 325nm Light, Power supply or Battery, Goggles, small case in fabric that fits three bottles of Lumicyano<sup>™</sup> solution and one bottle of Lumicyano<sup>™</sup> powder (Lumicyano not included) and a water proof carrying case.

The Lumicyano<sup>™</sup> 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<sup>™</sup>. 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.



**SuperXenon  
Pistol Handle**



**SuperXenon  
Top Handle**



**SuperXenon  
Battery**



**SuperXenon  
A/C Power Supply**

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

### Midlight Reflector

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

### Mains - Voltage

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

### Battery

- 2 200 mAh Lithium-Ion
- Voltage: 14.8 V
- Running time: 1 hour (Charging time: 1.5 h)

### Weight & Cables

- Weight battery operated: 1.9 kilos (4.19 lbs)
- 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, CB-NEMKO, CCL approved
- IP65 classified. dust and

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

- 1 SuperXenon<sup>LUMI</sup> Light
- 1 A/C Power Supply Unit or 1 Battery incl. charger
- 1 bag fits 3 bottles of Lumicyano<sup>™</sup> solution and 1 powder bottle (**Lumicyano<sup>™</sup> is not included, order separately**)
- 1 Hard Carrying case (IP65)

### ADVANCED NDT LTD

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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-ried 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

**ADVANCED NDT LTD**  
[www.advanced-ndt.co.uk](http://www.advanced-ndt.co.uk)

Existing Process  
Cyanoacrylate



Step 1: Fume



Step 2: Dyes

New Process  
Lumicyano™



One step only!



**FUME  
+  
DYE**

## Helping you solve crimes quicker