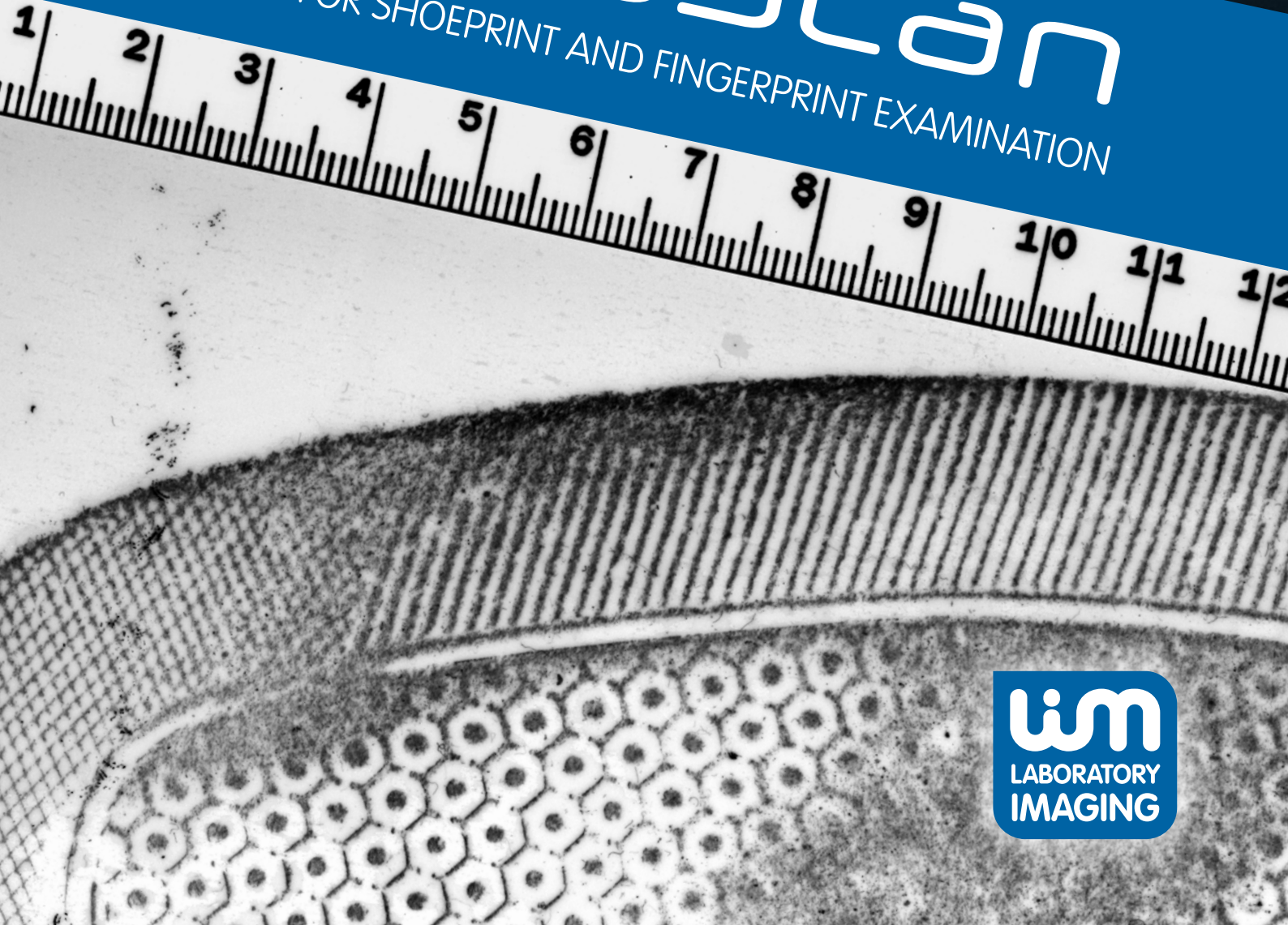
TrasoScan

SYSTEM FOR SHOEPRINT AND FINGERPRINT EXAMINATION



LABORATORY IMAGING

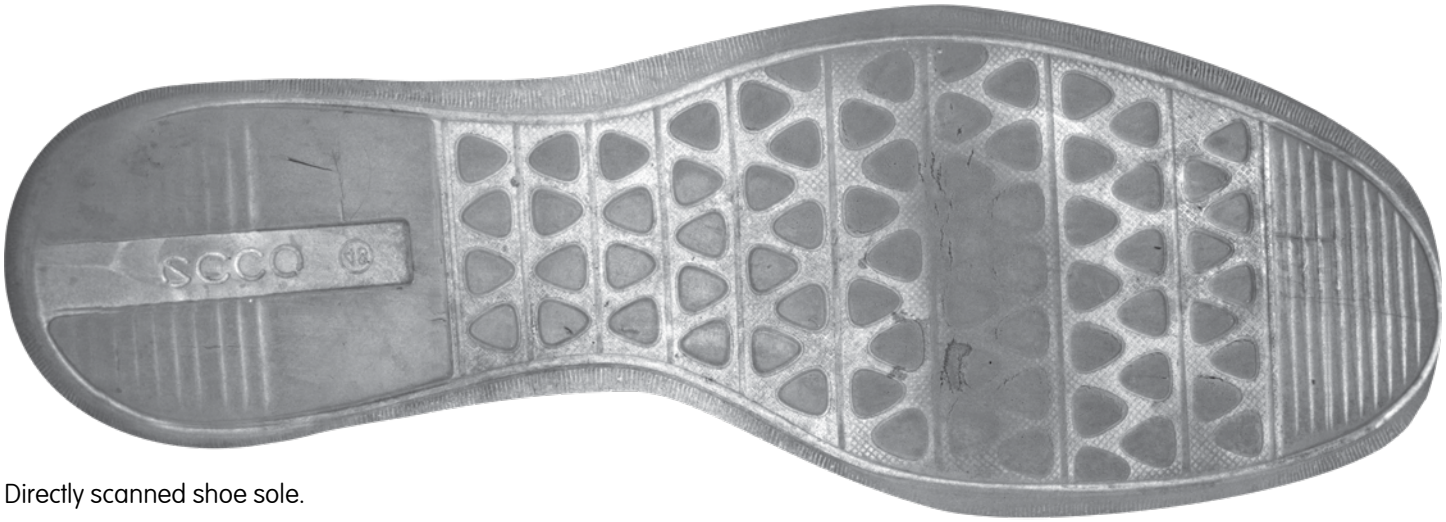
SYSTEM COMPONENTS

TrasoScan Device – Versatile TrasoScan device with a set of accessories used for scanning all possible pieces of evidence.

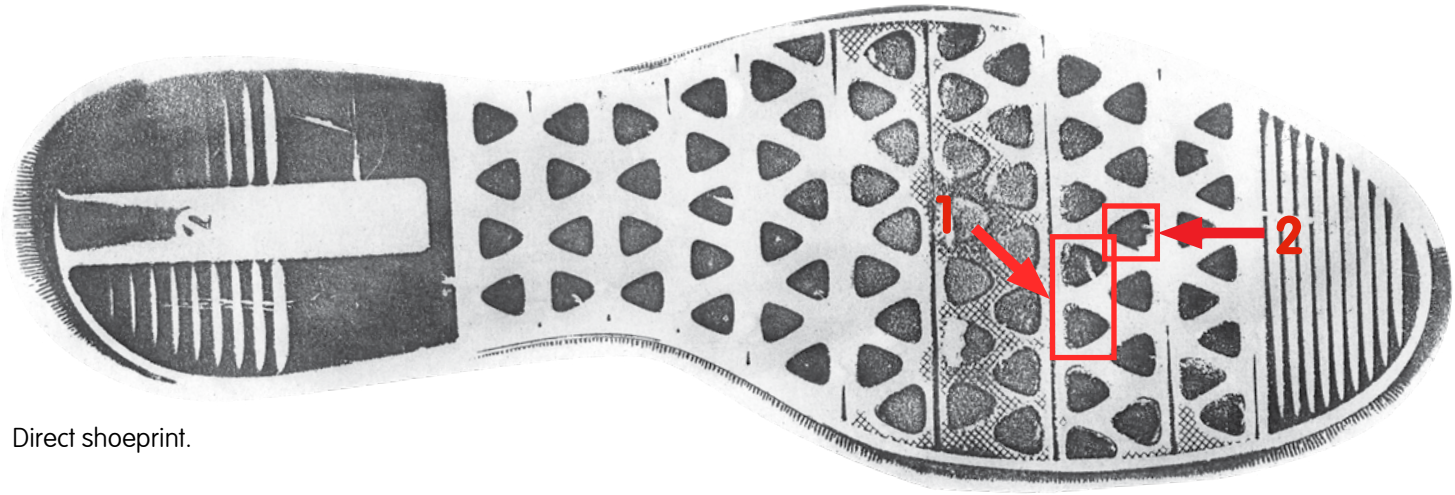
Vacuum Table and a Pump – Table with 2 vacuum circuits to improve the flatness of the foils or paper.

LUCIA Forensic 8.20 Software – Active – for Acquisition (active) Workstations – Software providing full computer control of the TrasoScan Device and integrating all above-mentioned features, including scanning and analysis. PC is delivered with the system.

LUCIA Forensic 8.20 Software – Passive – for Analysis (passive) Workstations – Software providing all image processing and comparison tools – everything needed for analysis. Additional PCs can be delivered with the system or existing PCs can be used.



Directly scanned shoe sole.



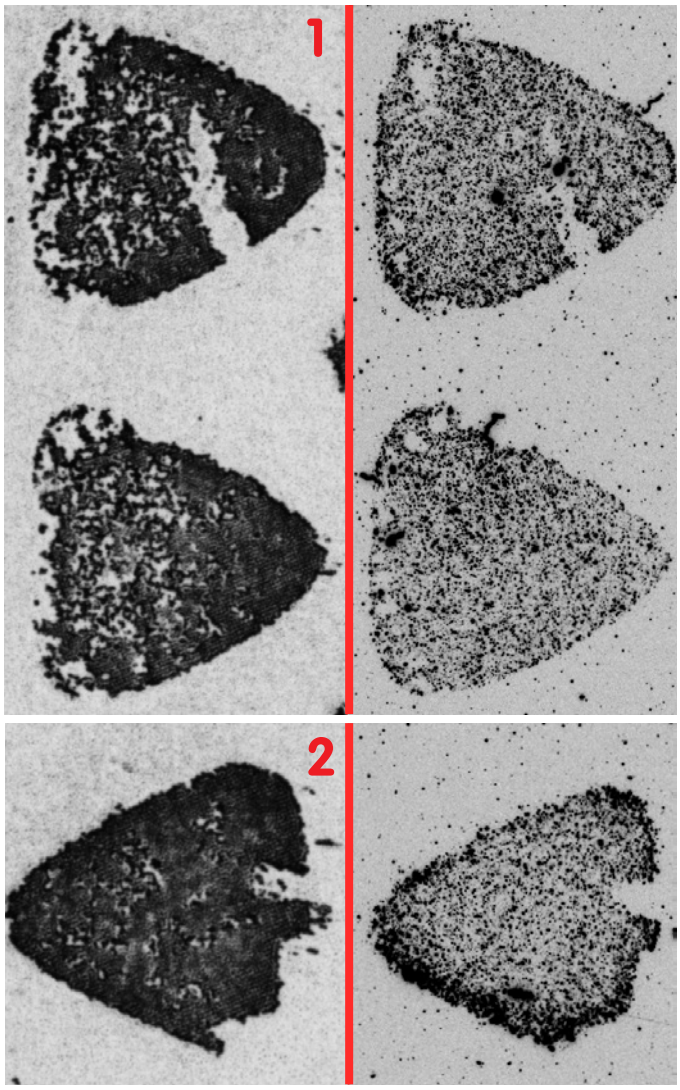
Direct shoeprint.

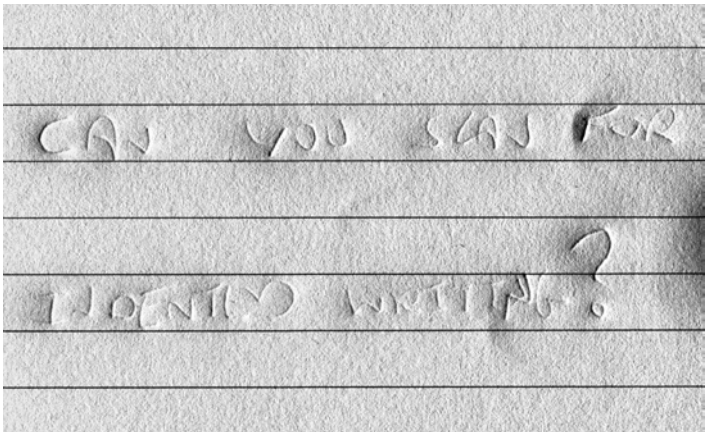
Shoeprint cast.

TRASOSCAN APPLICATIONS

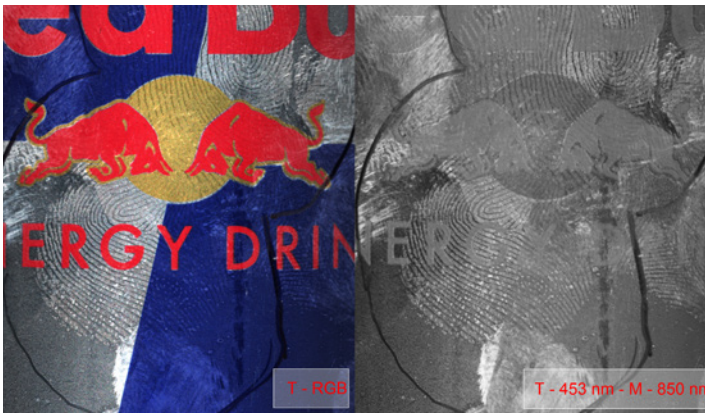
TrasoScan System is a completely versatile solution for scanning, examination, and comparison of all kinds of forensic evidence including:

- Shoeprints (black / white / transparent foil).
- Fingerprints (direct visualization, or treated with typically used powders).
- Shoe soles, documents, and various other objects.





Handwriting impression – the page under – Bottom 505 nm.



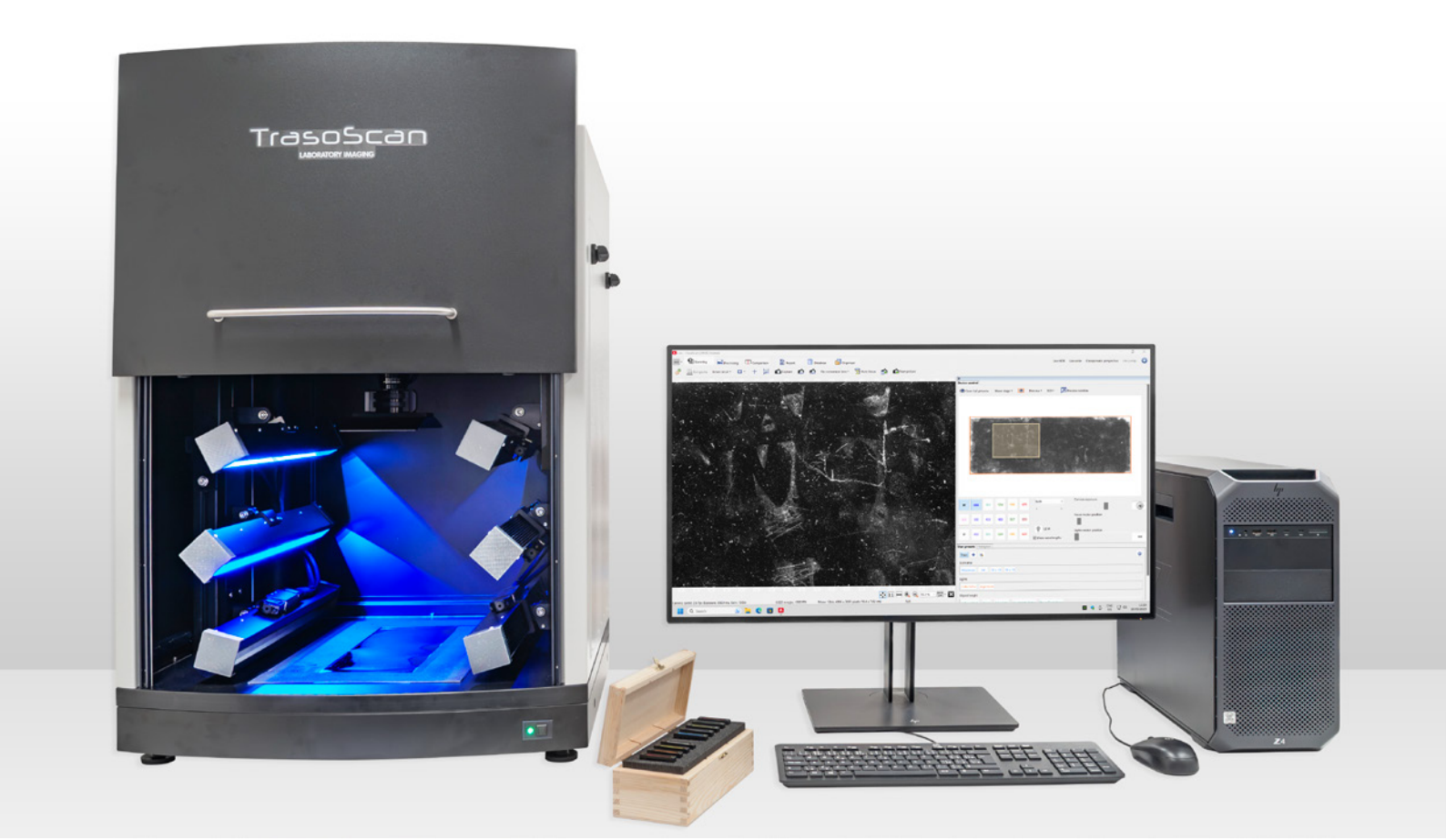
Fingerprint on a can processed with Cyanoacrylate – Top RGB and subtraction of top 457 nm and middle 850 nm.

Fingerprint treated with polycyano (365 nm excitation, 400 nm UV cut filter).

SYSTEM PROVIDES

- Versatile multispectral illumination in 3 pairs of LED panels, true RGB scanning available.
- Motorized autofocus guarantees 1000 DPI resolution regardless of object thickness.
- Real-time camera image – 100 x 70 mm area at fixed 1000 DPI resolution.
- Scanning of area up to 400 x 210 mm at 1000 DPI resolution.
- Scanning of objects of a height of up to 22 cm.
- All accessories, filter holder, and a vacuum pump.
- Complete software integration, all tools for image processing, comparison, measurement, annotations, and reporting.

Fingerprint on a mobile phone display (directly scanned).



SPECIFICATIONS

Resolution	1000 PPI
Live image FOV	100 x 70 mm
Scanning area	400 x 210 mm
Illumination angles	12°, 45° and 60°
Illumination panels	3 pairs of high-power LED panels with up to 120 W total power.
Illumination colors	RGB-W panel for standard visualization (6 LEDs including white, red, green, blue, orange). UV-BG-Y panel for fluorescence excitation (6 LEDs including UV, violet, blue, green, yellow, IR).
Wavelength range (when using RGB-W and UV-BG-Y panels)	W UV IR
Accessories	Shoe holder, set of emission filters (UV cut, yellow, orange, red) with holders, set of close-up lenses (0.25D, 0.5D, 1.0D, 1.5D, 2.5D).
PC Workstation	64-bit high performance PC with Windows 10, 31.5" 4K UHD monitor.

FEATURES AND HIGHLIGHTS

- All-in-one device providing maximum versatility including illumination suitable for fluorescent dyes and powders, oblique illumination, RGB scanning, and scanning of large objects. Vacuum working table with evacuated regions suitable for standard foil sizes for removing parasitic reflections and for improving quality.
- Straightforward user-friendly software interface for routine scanning, image documentation, and comparison including a wide scale of image processing and enhancement tools and a wide range of comparison modes.
- Various comparison modes (horizontal, vertical, freely rotatable, and freely shaped split line, transparency, transparent foil mode, tiled mode with up to 16 objects side by side).
- Comprehensive image manager for image organizing during comparison – many images can be opened at once and displayed images quickly swapped, the whole comparison can be stored including mutual image positions, etc. for sharing with other experts.
- Integrated comprehensive image browser with much larger and higher quality thumbnails than in Windows Explorer.

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