

The image is a promotional graphic for the Trasoscan system. The top half shows a blue-tinted photograph of the machine, which is a large, industrial-looking device with a flat bed and a scanning arm. A shoeprint is visible on the bed. The bottom half features a close-up of a shoeprint on a textured surface, with a ruler placed above it for scale. The ruler is marked in centimeters from 1 to 12. A blue diagonal banner across the middle contains the product name and description.

# Trasoscan

SYSTEM FOR SHOEPRINT AND FINGERPRINT EXAMINATION





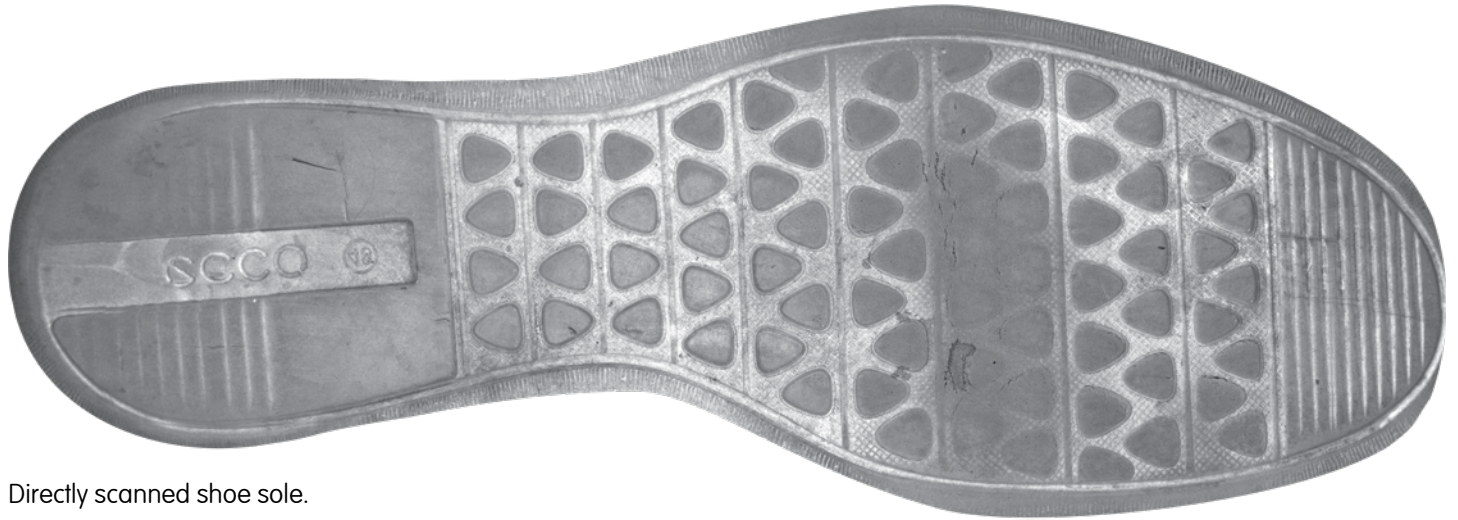
## SYSTEM COMPONENTS

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

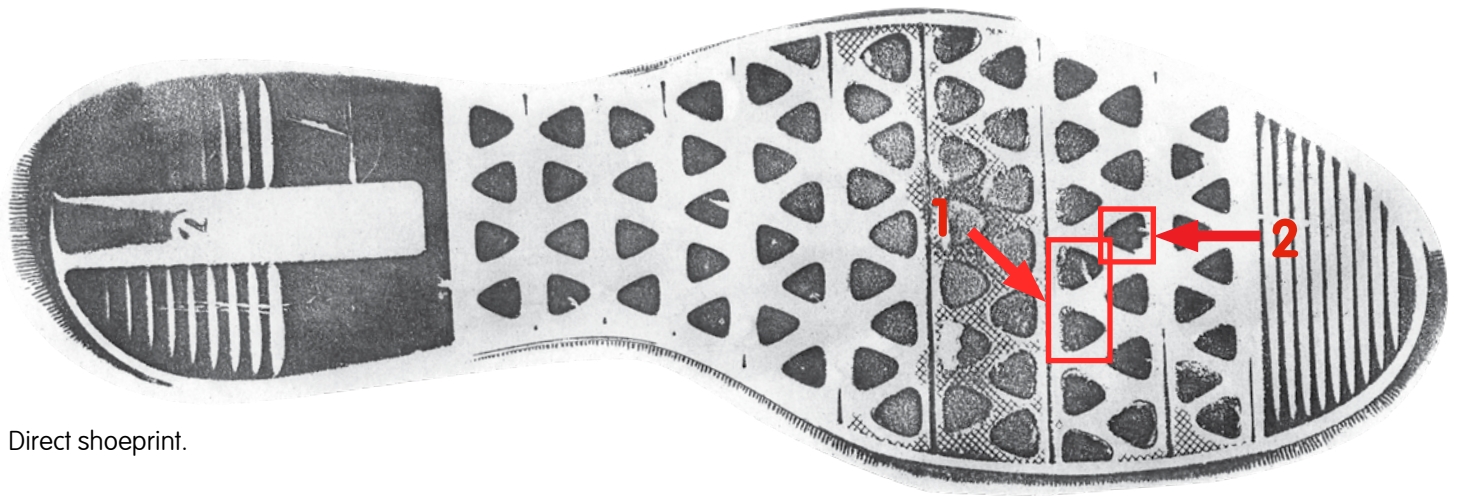
**Vacuum Table and a Pump** – Table with 2 vacuum circuits to improve the flatness of the foils or paper.

**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.



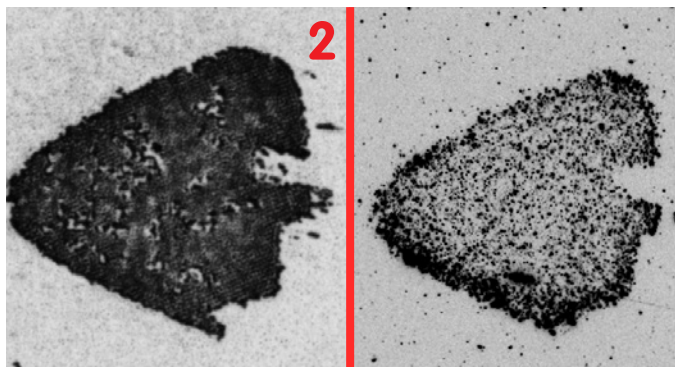
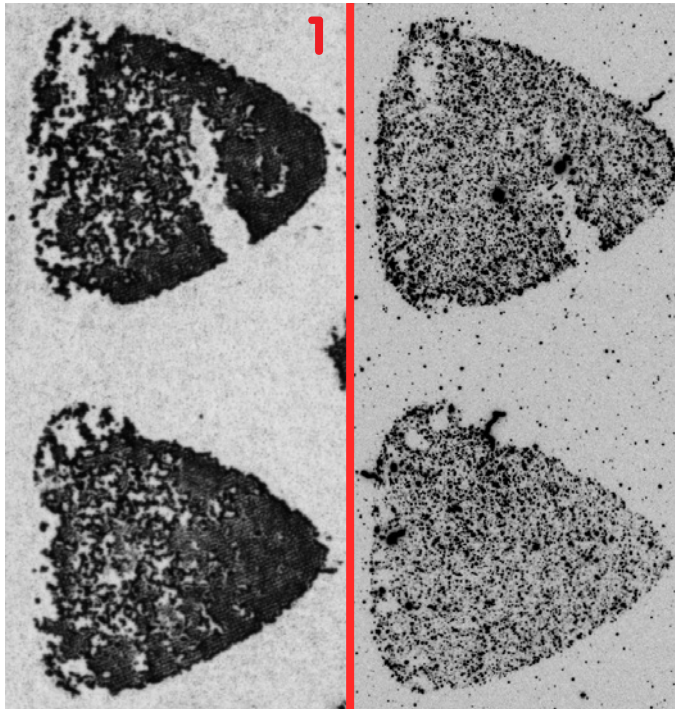
Shoeprint cast.



## TRASOSCAN APPLICATIONS

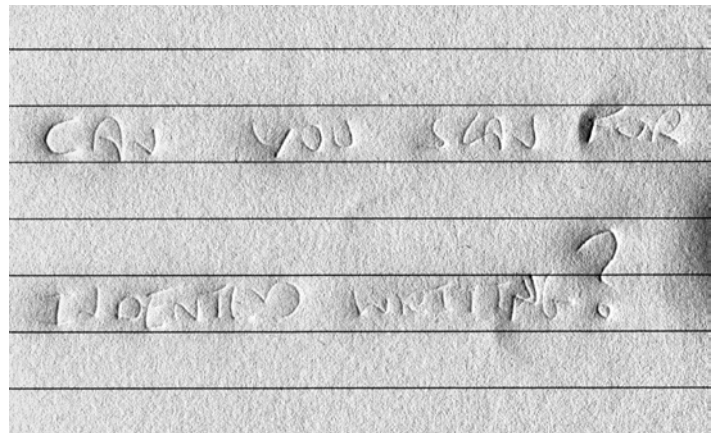
TrasoScan System is a completely versatile solution for scanning, examination, and comparison of all kinds of forensic evidence including:

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

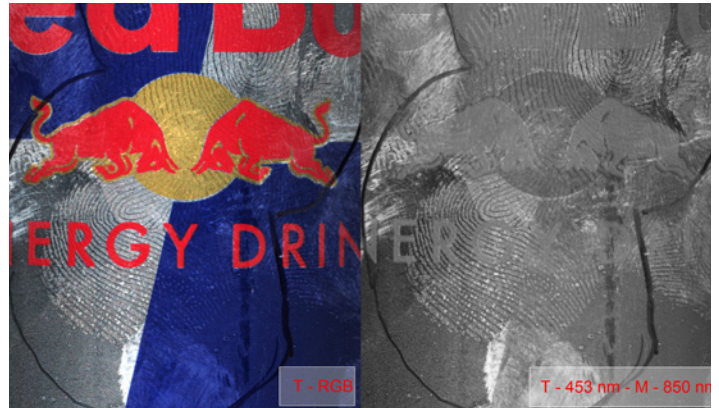


## SYSTEM PROVIDES

- 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.



Handwriting impression – the page under – Bottom 505 nm.



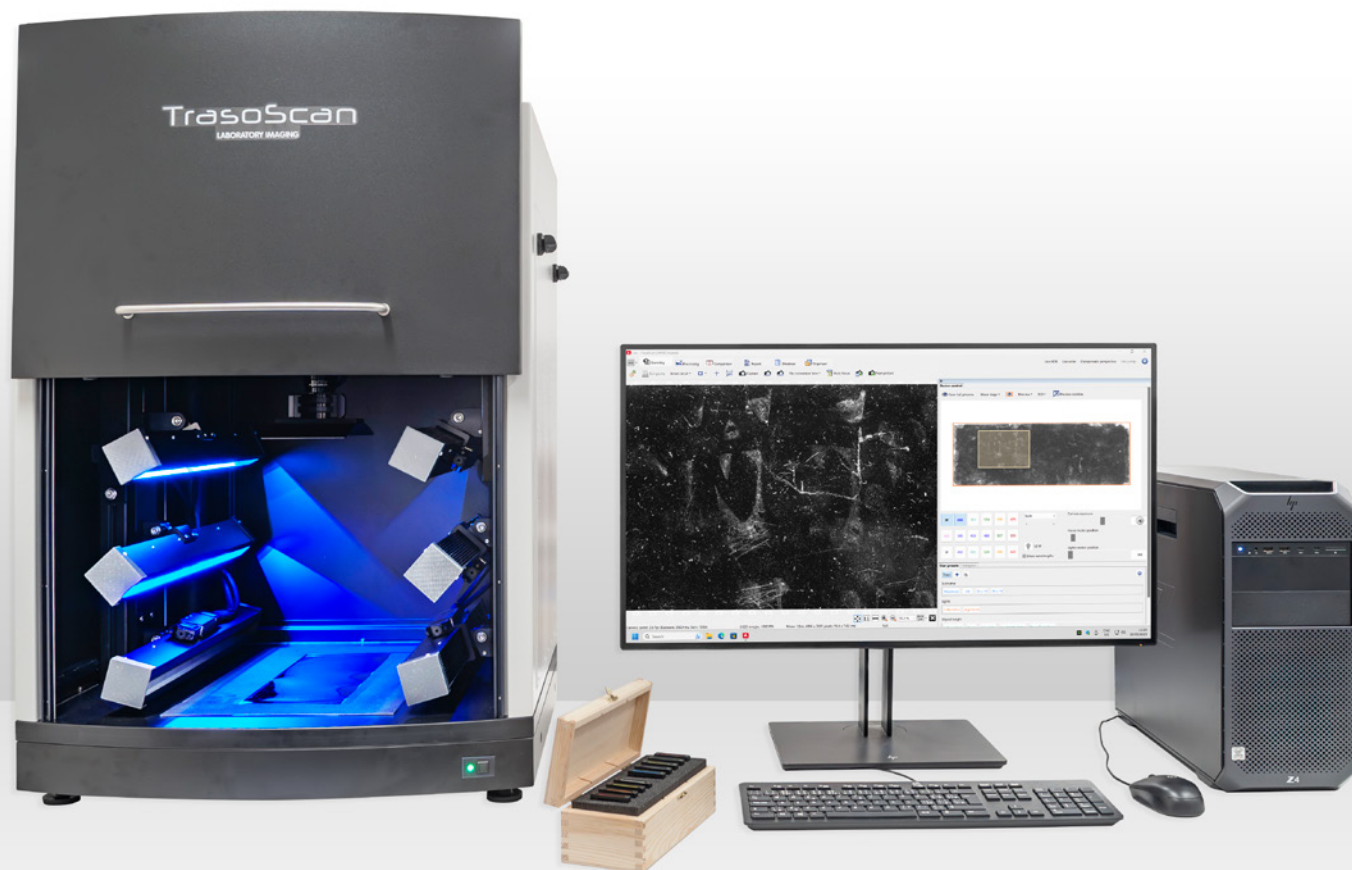
Fingerprint on a can processed with Cyanoacrylate – Top RGB and subtraction of top 457 nm and middle 850 nm.




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



Fingerprint on a mobile phone display (directly scanned).



|  |   |
|--|---|
| 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).<br>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) |   |
| 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 11, 31.5" 4K UHD monitor.   |

- 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.