

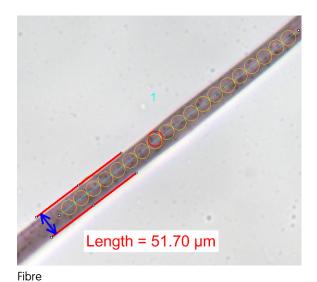
## SYSTEM FOR MICROSPECTROMETRY



Combination of a fully equipped scientific grade Nikon microscope with a high precision motorized stage and a quality spectrometer guarantees an universal microspectrometry solution for analysis of various forensic traces including fibres, paint chips or inks. Camera image (approximately 3.2 x 2.0 mm for 5x objective) and spectrum of a defined area within the camera image (circle with a typical diameter of 40 µm for 5x objective) are viewed simultaneously. The spectrometer probe size can be tuned to the requested lateral resolution by selecting a proper pinhole in the spectrometer mount. A simple click within the camera image will move the sample spot directly into the spectrometer view with 1 µm precision. Any number of points within the whole sample can then be marked, automatically scanned and averaged to obtain the final spectrum. Transmittance/reflectance, absorbance and colorimetry modes are available. Acquired spectra can be stored into the database for archiving, exported into MS Excel or transformed into a simple PDF report.

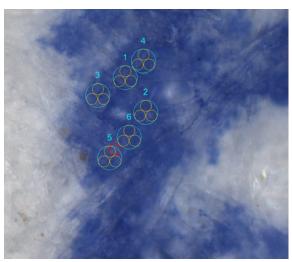
## HIGHLIGHTS

- Versatile spectrometer for near UV VIS near IR spectroscopy
- 2.3 MP color CMOS camera allowing a simultaneous live camera image
- High precision and repeatability (1 µm) XY stage with a long travel range (up to 100 mm)
- Precision stage control (joystick or single click in the software)
- Modular versatile Nikon microscope for brightfield/darkfield microspectroscopy with episcopic and diascopic illumination, polarized light microscopy including a set of objectives (5x 40x) and fluorescence microscopy (optional)
- All-in-one software integration live spectrum, live camera image, stage control, definition of scanning points, automatic scanning, spectrum analysis and reporting

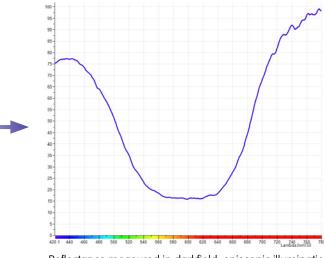


78.0 77.0 76.0 75.0 74.0 73.0-72.0 71.0-70.0 69.0 68.0 67.0 66.0 65.0 520 540 560 500 580 600 420.1 480 620 640 660 680 700 720 740 Lambda (nm) [a]

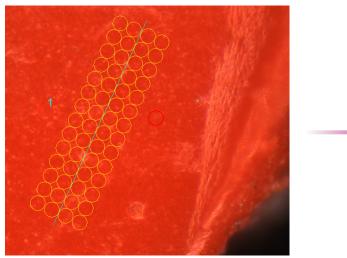
Transmittance measured in brightfield, diascopic illumination



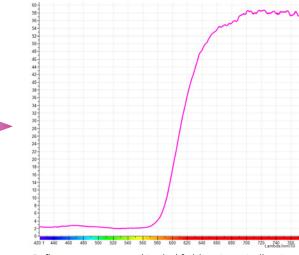
Stamp ink



Reflectance measured in darkfield, episcopic illumination







Reflectance measured in darkfield, episcopic illumination