Confocal Micro-Raman System

WITec alpha300 *access*

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The alpha300 *access* is a high-quality confocal micro-Raman system that provides a new point of entry to WITec's leading-edge throughput and sensitivity for sub-micrometer chemical analysis.

The new *access* microscope enables single-spot analysis or Raman mapping while delivering exceptional spectral quality. Specifically engineered for budget-conscious customers requiring superior performance, optical throughput and spectroscopic capabilities, it is an ideal access point to WITec's Raman microscopy know-how. Featuring well-established WITec optical components, the system provides uncompromising cutting-edge capabilities. As a member of the alpha300 microscope series it offers full upgradeability to confocal 3D Raman imaging (FAST RAMAN IMAGING®), Atomic Force Microscopy or Scanning Near-field Optical Microscopy, along with the modularity to keep pace with emerging and future challenges.

- *access* to class-leading capability within challenging budget and procurement environments
- *access* to high-performance spectral Raman mapping
- *access* to exceptional spectral quality provided by the WITec UHTS Raman spectrometer series
- *access* to high-quality and ultra-precise optical microscopy components
- *access* to WITec Raman and imaging know-how
- *access* to the future of Raman spectroscopy through upgradeability

01

MULTIPLE LASER EXCITATION SOURCES

... adaptable (single or multi-laser coupling units) for maximum experimental flexibility.

02

RESEARCH-GRADE OPTICAL MICROSCOPE BODY

... with LED Koehler white-light illumination and video camera sample view. (Dark field microscopy optional)

03

MANUAL MICROSCOPY STAGE

... for highly accurate single-point spectral acquisition.

MOTORIZED MICROSCOPY STAGE *(optional)*

... to allow for high-resolution confocal Raman mapping and large-area investigations.

04

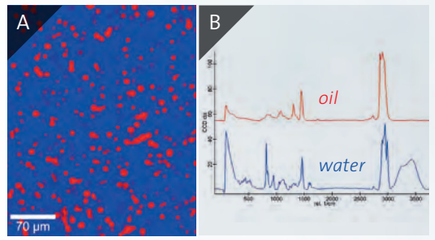
HIGH-QUALITY, ROCK-SOLID MICROSCOPE BASE

... for the highest stability and long-term drift reduction.

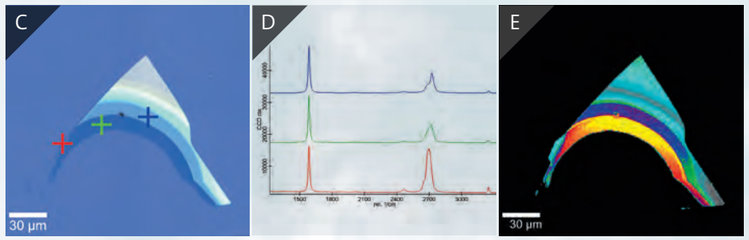
SPECTROSCOPY SYSTEM UHTS 300 VIS – NIR

The lens-based, excitation wavelength-optimized spectrometers of the UHTS series allow more than 70% transmission for high speed and high resolution Raman imaging. The UHTS 300 VIS – NIR spectrometer system is ideally suited for multiple laser configurations between 532 nm and 830 nm and offers advanced spectral quality for demanding requirements. Other spectrometer configurations are available upon request.

alpha300 *access* Applications



Large-area Raman map (**A**) of a pharmaceutical pain relief ointment (emulsion) and corresponding spectra of oil and water with the dissolved active ingredient (**B**).



Raman analysis of a graphene flake: (**C**) White light video image indicating the positions of single micro-Raman spectra acquisitions as shown in (**D**) with corresponding colors. The Raman image in (**E**) reveals its layered structure based on the recorded Raman map.

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