

Recent developments in the Raman microscope range at WITec

The German nanotechnology company WITec has announced the launch of the new alpha300 *access* micro-Raman system in conjunction with a thorough revision of the long-established alpha300 series.

WITec's line of microscopes for Raman spectroscopy and imaging, atomic force microscopy and near-field microscopy all share a unique modularity that allows for single-technique solutions as well as correlative imaging configurations. Additional methods of analysis can be integrated with any instrument in the series at any time. Sophisticated analysis techniques and high-quality components maintain the alpha300 series' position at the worldwide market's leading-edge.

The newly-developed alpha300 *access* microscope is an entry-level system for micro-Raman single-spot analysis and Raman mapping that extends WITec's product portfolio to lower price segments. "It was specifically engineered for budget-conscious customers with high demands on instrument performance," says Dr. Joachim Koenen, CEO and Head of Sales & Marketing at WITec. Its outstanding spectral quality, optical throughput and signal sensitivity are ensured by the WITec's renowned optical element design. "As with other WITec products, the alpha300 *access* is fully upgradable and expandable with additional functions," clarifies Koenen "This way our customers stay flexible and are able to keep pace with the evolving state of the art."

The latest, most comprehensive overhaul of the alpha300 series to date has made it more flexible, more sensitive and even quicker than ever. Both outright performance and enhanced user-friendliness were prioritized in tandem. "We used our long-term experience and knowledge to optimize the alpha300 series," explains Dr. Olaf Hollricher, CEO and Head of Development at WITec "The focus during development was clearly on quality and performance improvements, usability and flexibility."

Vital to the most recent wave of technical innovation at WITec is the latest optical fiber technology; guaranteeing an extremely high light transmission rate while augmenting the inherent modularity of the alpha300 series. The WITec UHTS spectrometer series with an array of focal lengths and spectral ranges provides optimized spectroscopic systems for individual applications. Together with an extensive collection of microscope components and accessories, including many excitation sources and CCD cameras, WITec has greatly expanded its capabilities in providing customized solutions for specialized application requirements.

The new alpha300 *access* and the entire refreshed alpha300 series of scanning-probe microscopy systems are set to excite new and existing customers. Both innovations will be presented at the WITec booth at Analytica 2016, May 10-13 in Munich, Germany.



Image: Product picture alpha300 *access* and alpha300 series

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About WITec

WITec is a leading manufacturer of confocal and scanning-probe microscopes for state-of-the-art Raman Imaging, Atomic Force Microscopy (AFM) and Scanning Near-field Optical Microscopy (SNOM) in addition to being the developer of the integrated Raman Imaging and Scanning Electron (RISE) microscopy. WITec's headquarters is located in Ulm, Germany, where all WITec products are developed and produced. Branch offices in USA, Japan, Singapore, China and Spain provide a worldwide sales and support network. WITec has been distinguished by its innovative product portfolio and a microscope design that enables combinations of the various imaging techniques within one system. An exemplar of the company's breakthrough development is the world's first integrated Raman-AFM microscope. To this day, WITec's confocal microscopes are unrivaled in sensitivity, resolution and imaging capabilities. Significant innovation awards such as the Achema Innovation Award 2015 for the fully automated *apryon* microscope and a Prism Award 2015 for RISE microscopy document WITec's enduring success and innovative strength.

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