

WITec Introduces *apyron* - The Next Generation of Automated Raman Imaging Systems

High-resolution imaging meets high-resolution spectroscopy

Ulm, Germany, WITec launches its fully automated, easy-to-use, class-leading Raman imaging system *apyron* at Pittcon 2015 in New Orleans. With its unrivaled spectral resolution in 3D confocal Raman imaging and extremely sensitive laser power determination with a mouse click, *apyron* surpasses any previous standard of performance. “WITec’s tried and tested modularity makes the *apyron* exceptionally versatile: Raman newcomers, industry labs with measurement routines and time-critical analyses, as well as scientists with challenging experiments can explore Raman imaging beyond the established frontiers of their fields”, says Dr. Olaf Hollricher, Managing Director, R&D at WITec.

The *apyron* fully automated Raman microscope system includes laser wavelength selection with subsequent adjustment of all associated spectrometer and microscope components to ensure optimized system performance. The absolute laser power determination and regulation in 0.1 milliwatt steps preserves delicate samples and guarantees the reproducibility of measurement conditions. The UHTS 600, a new 600 mm focal length spectrometer designed specifically for automated Raman imaging, enables challenging experiments at even very low light intensities. Versions are available for a wide variety of excitation wavelengths and optimized for their specific lasers.

Spectral resolution is unprecedented, down to 0.1 rel 1/cm per pixel (@633 nm excitation). Highly detailed spectral information is given for every image pixel, and more than 16 mio. Raman spectra can be acquired in a single dataset. The system setup includes TrueSignal to maximize the light into the fiber output of the microscope. Thus, *apyron* delivers images with outstanding spectral and spatial resolution in 3D, limited laterally only by physical law.

While extremely sophisticated, *apyron* is also an easy-to-use, push-button instrument. Pre-defined calibration routines are integrated to facilitate quick and user-friendly system maintenance with consistently high system performance.

“*apyron* has been developed to erase the boundary between ease-of-use and ultimate capability in Raman imaging.” explains Harald Fischer, WITec Marketing Director, “It sets a new benchmark for automated Raman imaging systems regarding sensitivity, speed and operator convenience.”

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Pittcon - Press Conference & Live Demo

The new microscope will be introduced at a press conference at Pittcon 2015, New Orleans, USA, March 10th, 11 a.m., Convention Center, room 353. Dr. Joachim Koenen, WITec CEO, and Harald Fischer, WITec Marketing Director will be present to discuss the latest news at WITec.

A live demonstration of *apyron* can be experienced at the show from March 9th to the 12th, WITec Booth No. 743.

335 words

Press Image Download Link: <http://www.witec.de/assets/Press/WITecApyron.jpg>

Figure Caption: The new automated Raman Imaging system *apyron*

Further information: <http://www.witec.de/products/raman/apyron-automated-raman-imaging/>

About WITec:

WITec is a leading German manufacturer of confocal and scanning-probe microscopes for state-of-the-art Raman, Atomic Force (AFM), and Scanning Near-Field Optical Microscopy (SNOM). WITec's headquarters is located in Ulm, Germany, where all WITec products are developed and produced. Branch offices in USA, Japan, Singapore, and Spain ensure a worldwide sales and support network. From the company's founding in 1997, 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 document WITec's enduring success and innovative strength.

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