New software provides uncompromising performance, speed, and usability for Raman, AFM, and SNOM

The new WITec Suite software is now available for all WITec imaging systems. It was specifically developed to acquire and process large data volumes of large-area, high-resolution measurements and 3D imaging while providing speed, performance, and usability. Through the software architecture and graphical user interface an integrated and consolidated functionality is available incorporating the various techniques and measurement modes from Raman, to AFM, to SNOM, fluorescence and luminescence.

An intelligent computer resource management provides the capabilities for the generation and visualization of even large data sets. The high-speed data acquisition allows for example the measurement and recording of over 1300 Raman spectra in only one second. Furthermore data sets including several million image pixels, each containing the information of e.g. a complete Raman spectrum or an AFM pulsed force mode-curve, can be generated, processed, and imaged smoothly with WITec Suite.

Another focus of WITec Suite is the improved and simplified usability. The software design provides a clear and intuitive menu guidance and an individually adjustable user interface to be suitable for all experience levels and user requirements. The smart access options for all principle functions, including for example the circle mouse menu, accelerate the workflow and smooth the first steps into the software and an accessible learning curve.

"WITec imaging systems are well-known for their exceptional imaging qualities. Unprecedented performance and speed facilitate the acquisition of large data volumes and the generation of 3D images and large-area scans." explains Dr. Olaf Hollricher, R&D Director at WITec "The capabilities of WITec Suite match perfectly with the requirements for high-speed data acquisition and processing of large data volumes and provide an accomplished combination of comprehensive data analysis and ease-of-use."

WITec Suite includes Control FOUR, a powerful software tool for measurement control and data acquisition, and Project FOUR, a user friendly data evaluation and processing software. The license terms facilitate the installation of Project FOUR on an unlimited number of computers permitting the user to process data and generate images wherever required.

Text information:

342 words; 2,381 characters (with blanks)

Image:
www.witec.de/assets/Uploads/Images/WITec_Suite_Software_3DRaman_Image_Honey.png
3D Raman Image of a pollen in crystalline honey. Data were acquired and processed with the new WITec Suite software. Image parameters: 150 x 150 x 50 pixels = 1,125,000 Raman spectra, scan area: 50 µm x 50 µm x 50µm, integration time per spectrum: 12.2 milliseconds, total acquisition time: 3h 50 min.

About WITec:

WITec is a leading 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. For more information, please visit www.witec.de.

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