

## WITec Raman imaging systems now available through Elliot Scientific



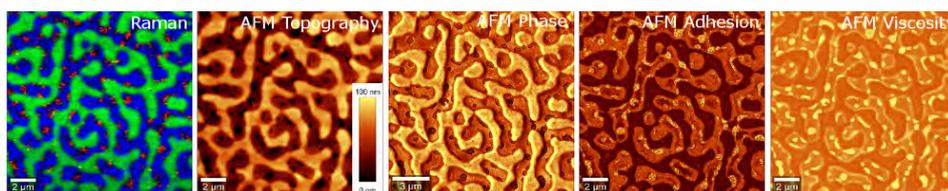
**WITec** is a market leading manufacturer of high-quality micro- and nano-analytical imaging instruments for the geoscience researcher, forensic and materials scientists, pharmaceutical lab technician, semiconductor manufacturer, and food and drinks technologist.

Elliot Scientific is now the exclusive UK and Ireland distributor for WITec confocal Raman microscopes, Atomic Force Microscopes (AFM), and Scanning Near-field Optical (SNOM) Microscopes.

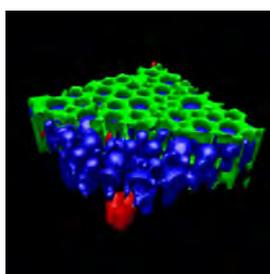
WITec Raman imaging systems offer diffraction-limited spatial resolution (typically down to  $\lambda/2$  of the excitation wavelength,  $\sim 200$  nm) for solid and liquid analysis without the need for labelling or any other sample preparation. The resulting images deliver clear and detailed information related to the sample's chemical compounds and their distribution.

A key feature of WITec's award-winning systems is correlative analysis whereby Raman imaging can be combined with **AFM** or **SNOM** in the one instrument. Combination of the various imaging techniques and switching between the different acquisition modes is simply done by rotating the microscope turret.

**WITec**  
focus innovations



*Combined Raman-AFM measurement of the same sample area of a multicomponent polymer blend*



WITec emerged from the academic world in 1997 and the company's team of scientists and engineers work together on a programme of continuous product innovation to ensure WITec can deliver reliable groundbreaking solutions to the latest imaging challenges.

Elliot Scientific's new Managing Director, Dr. Adrian Knowles, has many years of experience in spectroscopy systems and will be responsible for the new WITec product range.

Please **contact us** for more information.

## Mad City Labs say Nano-ZL ideal for high-speed multiwell plate imaging



*Watch closely...  
500 microns of travel in action*

**MCL**  
MAD CITY LABS INC.

The **Mad City Labs'** Nano-ZL Series are long range, Z-axis nanopositioners specifically designed to hold multiwell plates used in biomedical research.

High-throughput single cell fluorescence microscopy and high speed, high resolution confocal imaging can be accomplished while simultaneously adjusting the Z-axis position to remove the effects of multiwell plate irregularities.

The **Nano-ZL Series** has true flexure guided motion and contains internal position sensing for a resolution of better than 1 nm over the full 500  $\mu$ m travel range, and sub-nanometre for the shorter 100  $\mu$ m travel range. In addition to high resolution spatial imaging, the Nano-ZL step response allows entire Z-section acquisitions with minimal photo bleaching.

For more information, please **contact us**.



## Rugged Monitoring introduce multi-channel capability with new T301 module



The new T301 series is a robust 8 to 24 channel (expandable to 256 channels) fibre optic temperature monitor from **Rugged Monitoring** designed for use in environments where extreme conditions limit conventional temperature sensor/monitor systems.

The instrument has a measurement range of -269 to +300 °C; complete immunity to RFI, EMI, microwave and high voltages; and is compatible with a wide range of GaAs fibre optic temperature sensors from both Rugged Monitoring and other companies.

The T301 is designed for data collection and ease of integration into existing systems. As such it is equipped with an RS-485 interface as standard. Optional interfaces include: RS-232, Gigabit Optical Ethernet, or simple 0-10 V analogue outputs. Please **contact us** for more information.

## Seebeck coefficient measurement made easy with CryoLab as video explains



The Seebeck effect is the direct conversion of temperature differences to electric voltage and vice versa. A thermoelectric device creates voltage when there is a different temperature on each side. Conversely, when a voltage is applied to it, it creates a temperature difference.

By using the **CryoLab from Kryoz**, it is possible to measure the Seebeck coefficient of a material sample, wire or thin film from 373 Kelvin down to cryogenic temperatures. In this informative **video**, Kryoz demonstrate how such measurements are made using their equipment. For more information, please **contact us**.

**Winter Holiday Schedule**  
**Elliot Scientific's offices will be closed from:**  
 ✨ **Tuesday, December 25th. 2018**  
**We re-open at 08:30 GMT on:**  
 ✨ **Wednesday, January 2nd. 2019**

<p>Products 2018</p>	<p>Optical Tweezers 2018</p>	<p>Opto-Mechanics 2018</p>	<p>Previous Newsletter</p>	<p>2017 Newsletters</p>	<p>2016 Newsletters</p>
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