Elliot Scientific

June 2019

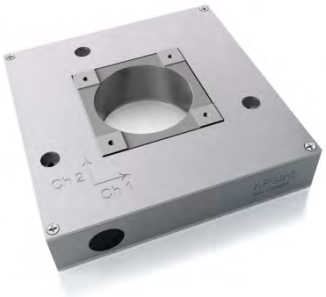
nPoint nanopositioning systems now available through Elliot Scientific

nPoint is a manufacturer of piezo-actuated flexure-based nanopositioning systems for microscopy, metrology, nanofabrication, materials characterisation and the life sciences.

Elliot Scientific is now making the nPoint range available to researchers and OEMs throughout the UK and Ireland. These superbly engineered stages for motion critical applications utilise a unique design that ensures high resonant frequencies yet orthogonality and cross-talk errors are minimised.

nPoint offer "tip and tilt" - for beam steering or high-speed deflection, single, dual (XY), and three-axis (XYZ) positioners, along with DSP-based controllers that allow easy optimisation of piezo system response times, and flexibility in programming for specific applications.

nPoint nanopositioning systems are used in nanolithography, atomic force microscopy (AFM), biophysics, and optical focusing among others.



Standard stages are manufactured from stainless steel, aluminium, or both. Other materials, including invar, super invar, and titanium are available as options for some models. UHV configurations are also available for some products.

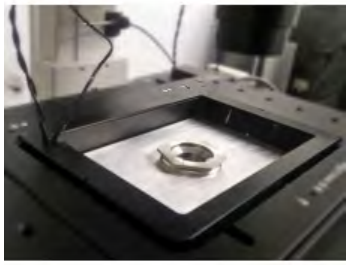
Please **contact us** for details or visit our **nPoint pages**.

Microscope incubators, heated stages and gas controllers for increased cell viability

Microscope Heaters is a Surrey-based designer and manufacturer of equipment for the research microscopy community. Their range of fanless enclosure systems, heated stages and gas controllers for maintaining cell viability within the microscope environment equip many leading university and research institute core facilities.

Vibration-free microscope heating systems deliver the ultimate in thermal homogeneity and stability. Ideal for the more demanding microscopy techniques such as Super Resolution, Optical Tweezers or electrophysiology: even users of x60 or x100 objectives can benefit as focus drift is reduced.

By gently warming the sample area from both sides with a steady flow of heat, thermal equilibrium and microscope stability is easily achieved. In contrast, a typical fan-based system blows external hot air into the system on demand, causing temperature fluctuations and possible contamination.



Solid-state heaters can maintain 1 to 50 °C heat above ambient depending on configuration. This allows for a wider range of samples to be studied, and their inherent reliability means less down time during time-lapse experiments.

A number of standard and custom heated stage solutions, compatible with a wide range of motorised stages, are also offered for specific microscope applications. Typical systems include:

Stage Top Heaters with independent temperature and gas control

Open Heated Inserts for patch clamp and perfusion studies, where access to the sample is essential. Dual temperature control configuration, for controlling the temperature of the heated insert, and the temperature of media entering the sample area is an option.

Intravital Microscopy Imaging System is specially designed for whole animal viability during extended imaging experiments. There are two independent temperature control channels - one for the removable heated insert, the other for a heated blanket.

For more information about these systems and CO_2 gas controllers please **contact us**, or visit the **dedicated web pages**.

EXFO launch the Optical Xplorer™ - a simple-to-use fibre tester

EXFO has developed the industry's first **OFM** (Optical Fibre Multimeter) - The Optical Xplorer™. This simple-to-use tester verifies optical links in seconds, and can automatically explore further when potential issues are suspected.

This new category of specialised instrument will empower technicians, making it the ideal instrument for in-field fibre testing applications. The integrated power checking and light source capabilities, Link Mapper for pinpointing faulty elements or breaks, and single-ended process for testing insertion and optical reflection losses ensures EXFO's Optical Xplorer™ will be the must-have tool in the technician's toolbox.

Minimal training is required to use the Optical Xplorer™, so the user's experience level or testing background does preclude quality results. Please **contact us** for more details.

Next week, meet Elliot Scientific at...

Laser World of Photonics, Munich

June 24th to 27th

Find us on the Mountain Photonics stand: Hall B2 Booth 340

Next month, meet Elliot Scientific at...

Microscience Microscopy Congress, Manchester Central
July 1st to 4th
We are assisting WITec on stand 331

Condensed Matter and Quantum Materials 2019 (CMQM)
St. Andrews University
July 3rd to 5th

The Advanced Materials Show 2019
The International Centre, Telford
July 10th & 11th

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