

## New Year, New Website



It has been a number of years since we last redesigned our website and a lot has happened in that time. Wide screen monitors for computers are now de rigueur, tablet and mobile devices are ubiquitous, and scientific research requires a more multi-disciplinary approach.

To satisfy all these, Elliot Scientific spent several months testing different software products in order to find one that maintained the ease of use of our existing site, yet delivered features expected in the modern web environment.

Do **have a look around**, and if you find any bugs or errors - mobile devices are currently excluded, **let us know** and we might send you a mystery gift. 😊

## Elliot Scientific's Optical Tweezers are on the spot at BiOS EXPO 2015 next month



**Elliot Scientific Optical Tweezers** have proven to be a popular choice of research instrument for trapping experiments by scientists around the world.

Optical Tweezers are an invaluable tool for measuring and exerting forces in the microscopic world. The picoNewton forces that light can exert on minuscule particles have empowered scientists, particularly those in biomedicine, enabling them to perform important studies on single molecules, cells and colloids without inflicting damage.

Elliot Scientific offers the most comprehensive range of optical tweezers available:

- Component based “open architecture” systems
- Self-contained portable, desktop single beam workstations
- Single spot Optical Tweezers for integration with commercial microscopes
- PC controlled multi-spot Optical Tweezers integrated with commercial microscopes
- Force Measurement options -
  - For single trap stiffness: A Quadrant Photodetector (QPD)
  - For multi-trap stiffness: Camera Particle Tracking (CPT) technology

An E3500 Optical Tweezers system equipped with QPD and CPT will be demonstrated in **Booth 8523** at **BiOS EXPO 2015** next month. If you're not going to the exhibition and conference, you can still experience our Tweezers in action by watching these application videos.

For more information, **contact us now**. Custom systems are our speciality.

## 25 Years of Solution Science



Celebrating  
25 years of  
Solution Science

Elliot Scientific  
1990 - 2015

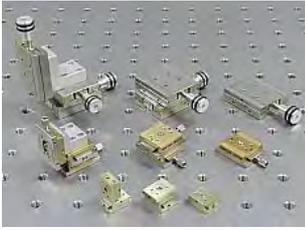
Twenty-five years ago this month, Mike Elliot incorporated Elliot Scientific Ltd. A veteran of both Spectra-Physics and Newport, Mike developed the company in order to support academic and manufacturing sectors globally.

With a long-standing team of experienced scientists and engineers, Elliot Scientific has succeeded in that goal, providing specialist yet balanced advice to ensure that the products and solutions we supply suit the customer's needs.

Elliot Scientific has delivered a quarter of a century of solution science for research and industry, and the company remains committed to Mike's ideal of providing a high quality service at all levels. Here's to the next twenty-five years.

## Elliot|Martock products will be in position at Photonics West

**Elliot|Martock** high-resolution (under half a micron) **precision miniature slides** have been popular with scientists and OEMs for nearly 40 years.



With a useful selection of Small, Very Small and Ultra Small models (with travels of 10, 5 and 3 mm respectively), the range satisfies many requirements for a stable and compact precision stage in both research and industry.

Our market-leading micro-positioners offer single, dual and three axis configurations with a variety of adjustment options such as simple screws to precision micrometers. A number of accessories - such as post adaptors - complement each range to further enhance their flexibility of use, and we also offer tilt and **rotation mechanisms**.



Our **Gold Series Flexure Stages** are our **best export**. Scientists and engineers around the world recognise that these are the **best performing** and **best value** high-resolution XYZ positioners in the world. They feature:

- 20 nm resolution with 2 mm travel per axis
- Excellent operation and superb long term stability
- Great versatility from a petite package



These precision engineered stages are highly adaptable for use in a multitude of situations. Choose from systems preconfigured for fibre launch, such as free space light into photonic crystal fibres, or for alignment of other types of optical device. Note that we offer a number of left and/or right-handed ready-built configurations at lower cost when compared to purchasing individual parts.



Once again, these positioners come with a choice of adjustment options. Simple thumbwheels, precision micrometers, and piezo driven adjusters are available for use in any combination. An extensive range of add-ons, accessories, and attachments ensure that most applications can be satisfied. If not, contact us for a custom solution.

These stages will be demonstrated in **Booth 4642** at **Photonics West** next month. If you're attending the exhibition, do come along and find out more about our UK manufactured Elliot|Martock products. Alternatively, please **contact us** for further details.

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## Photodigm's Mercury package now available for all its laser diode wavelengths

**Photodigm** - **Booth 4443** at **Photonics West** - has redefined the definition of *high power* in single frequency spectroscopic laser diodes by utilising advances in epitaxial design and wafer fabrication, allowing users to immediately notice lower threshold and higher slope efficiencies when compared to earlier generations.



Mercury with 2" flex cable

To accommodate higher powers, Photodigm has developed the Mercury package to overcome the limitations of the commonly used TO-8 mount. Mercury offers many advantages:

- Small volume, only 9.2 x 5.5 x 5.4 mm
- Capacity to handle up to 1 W of laser power
- Low thermal mass for rapid wavelength tuning
- Flex cable breakout of electrical connections
- Test mount for laboratory use (see photo)
- OEM and custom versions available
- Built-in Peltier and thermistor for rapid closed-loop feedback temperature control



Mercury mounted for lab use

For details about these or other products Photodigm offer, **contact us** now.

## International Year of Light: Events to end of February



INTERNATIONAL  
YEAR OF LIGHT  
2015

### e-Luminate Festival & Light: Beyond the Bulb

Cambridge: February 11th to 15<sup>th</sup>

### Society of Light and Lighting Masterclass

Leeds City Museum: February 26<sup>th</sup>

### 24:00:00 - Lighting in the urban age

Fitzroy Street, London: Till March 1<sup>st</sup>

- *Need to measure light or colour?*

Then have a look at **Gamma Scientific** - Booth 5612 at **Photonics West**.

## Scanning Resonant Probe Microscope Kit from Mad City Labs



**SPM-M** is a popular kit from **Mad City Labs** - Booth 8532 at **BIOS EXPO 2015** and **Booth 532** at **Photonics West** - that allows researchers to construct an affordable high performance, closed loop, scanning resonant probe microscope.

By combining the **MadPLL®** instrument package with a Mad City Labs high resolution nanopositioning system, the seamless integration of the hardware and the automated control of MadPLL® means that you can concentrate on getting results, not tweaking parameters.

Applications for the SPM-M Kit include:

- Nanoscale characterisation
- Nanoscale fabrication
  - Optical antennas
  - Nano-optics
  - Semiconductors
  - Data storage



The SPM-M Kit is ideal for research and teaching laboratories - **view a demo video** - offering high performance, versatility, simplicity and excellent value. For more information, please **contact us**.

## Next month see us at BIOS EXPO 2015 & Photonics West, 7th-12th February in San Francisco

### BIOS EXPO 2015

Booth 8523

February 7th-8th

### Photonics West

Booth 4626

February 10th-12th



Website



Product  
Overview  
2015



Optical  
Tweezers  
2015



Components  
Catalogue  
2013



2014  
Newsletters



2013  
Newsletters



Blog



LinkedIn



Facebook



Library  
on Issuu



YouTube Channel