

Introducing Siskiyou: Now available in the UK and Ireland through Elliot Scientific

Siskiyou Corporation has been producing popular laboratory mechanicals for over 40 years; designing from the outset with quality and flexibility in mind. This concept has ensured Siskiyou components outperform and outlast competitive products.

Siskiyou do not aim at single disciplines, such as Photonics or Life Sciences, but craft their products to provide users with the modular tools for constructing systems that are only limited by their imagination.

Over the year, the Elliot Scientific newsletter will feature selected products from the Siskiyou range. This month...



IXF Series: A monolithic flexure mount range

The IXF range of optical mounts offer exceptional stability for optics up to 2" in diameter. Performance is achieved through the use of monolithic flexure construction, in which the entire mount - both plates and springs - are fabricated from a single piece of metal.

This unique configuration yields improved heat transfer through the mount over the traditional kinematic constructions, resulting in significantly better pointing stability in the presence of temperature changes.

The IXF range is available in both steel and aluminium versions. Steel construction offers superior mechanical and thermal stability, while aluminium confers lower weight and vacuum compatibility.

The tip/tilt flexure mounts are specifically designed for OEM applications. They have a wide variety of optic mounting options, including bulkhead mounting as either a front adjusted or through the bulkhead adjusted mount.

In addition, these versions have M4 (8-32) mounting holes on two edges for post mounting and locks on the adjustment screws.

Top adjust versions have a novel actuating mechanism to eliminate rotational torque being applied to the axis under adjustment.

Designed to be either panel or bracket-mounted; Siskiyou flexures provide the ultimate in stability, even in challenging environments.

Product features

- Available for ½", ¾", 1" and 2" optics
- Lockable 100 tpi adjustment screws
- One-piece aluminium or nickel-plated steel construction
- Metric or imperial models
- Special beamsplitter versions with 45° cutouts (*right*)
- Single axis mount also available (*left*)
- UV and vacuum compatible options



Standard IXF flexure



Top Adjust IXF



Single axis mount

If you want to see some more of the Siskiyou precision positioning products Elliot Scientific currently offer, then visit our growing [Siskiyou products page](#).

Mad City Labs' Nano-ZL is ideal for high-speed multiwell plate imaging



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 µm travel range, and sub-nanometer for the shorter 100 µm 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](#).



New UV laser source for CRAIC Technologies' 20/30 PV™ Microspectrophotometer

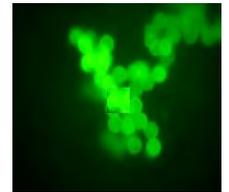


The introduction of new UV laser sources will dramatically enhance the capabilities of the 20/30 PV™ microspectrophotometer from CRAIC Technologies in terms of both fluorescence and photoluminescence microspectroscopy.

The major application will be to serve as an intense excitation source for fluorescence and photoluminescence (PL) microspectroscopy. This will broaden the range of materials that can be caused to emit photons via a luminescent process.

The 20/30 PV™ microspectrophotometer combines the latest technologies to allow the user to see and measure UV-visible-NIR range transmission, absorbance, reflectance, emission and fluorescence spectra of sample areas smaller than a micron across. Thin film thickness and colour spaces can also be determined.

Scientists in the UK and Ireland involved in forensics, geology, gemology, biochemistry and spectroscopy among others, **contact us now** to discuss specifications and pricing.



Award-winning Vibrating Sample Magnetometer from Lake Shore Cryotronics



Two videos detailing the 8600's capabilities are online

The 8600 Series VSM, from Lake Shore Cryotronics, raises the bar for magnetometer performance and convenience by combining high sensitivity, rapid measurement speeds, and ease of operation for faster and more accurate measurements.

The entire 8600 Series system was conceived with a focus on a clean, ergonomic design that simplifies the researcher's interaction with the system. For this reason, it won the 2017 R&D 100 award from R&D Magazine.

The 8600 has a number of temperature options. These include a cryostat, a high-temperature oven, and a single stage variable temperature insert. The combined temperature range of the options is 4.2 to 1273 K, and all three options quickly slide into place and are auto-detected by the system's software - **video demonstrations**.

8600 Series Features

- 0.25×10^{-7} emu noise floor at 10 sec/point
- 10 ms/pt data acquisition rate & 10,000 Oe/s field ramp rate
- Rapid, repeatable temperature option exchange
- High stability of $\pm 0.05\%$ per day
- Fields to 3.26 T
- Widest temperature range: 4.2 K to 1273 K



The magnet poles are also easily adjusted with a specially designed indexed positioning system that allows the pole gap to be set at one of six repeatable positions, eliminating the need to recalibrate after each change. Please **contact us** for more details.

This month, meet Elliot Scientific at...



Photonics West

30th January to 1st February 2018: Booth #4953, Moscone Center, San Francisco

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