

New DAli 3 delivers fast auto-alignment with precision via piezo-driven stages



E2300 DAli 3



E1100 Piezo Controller



Piezo-driven alignment

The **Elliot Scientific DAli 3** is the latest version of our popular automated photonic device alignment system for the following applications:

- Fibre-to-laser diode alignment
- Fibre-to-waveguide alignment
- Fibre-to-fibre coupling
- Fibre array-to-device alignment
- Compensation for epoxy drift during pigtailling
- Compensation for drift during long-term characterisation
- Simultaneous alignment of input & output fibres (or arrays) to waveguide device



A typical DAli 3 system now consists of our new 3-channel **E1100 piezo controller**, the USB-equipped DAli 3 interface, and a PC or laptop for driving the easy to use software.

Although designed to complement the piezo-driven versions of the Elliot Gold™ Series range of flexure stages, such as the **MDE123** and **MDE125**, it is also suited to other piezo devices working on 0 to 150 volts.

DAli 3 incorporates the latest in electronics and uses complex software algorithms to quickly deliver precision automated alignment. It does this by locating and optimising an optical feedback signal derived from the components being aligned. It then adjusts their relative position to optimise the signal and therefore their accurate alignment.

The software and hardware package includes many features to enhance use, while also providing the necessary flexibility to allow it to be incorporated into a wide range of photonic alignment tasks for development, test and production applications.

For more information, options and specifications, please [contact us](#).

Elliot|Martock Gold Series Flexure Stages are of exceptional value to scientists and engineers



The **Gold Series Flexure Stages** are Elliot Scientific's greatest export. Scientists and engineers around the globe recognise that these high-resolution XYZ positioners outperform rivals and are of exceptional value - both in terms of price and usefulness.

Features

- 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.

The positioners can be purchased without adjusters, or select from simple thumbwheels, precision micrometers, and piezo driven actuators 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](#).

Four decades of precision: Miniature slides from Elliot|Martock



Elliot Martock high-resolution (< 0.5 μm) **precision miniature dovetail 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.

These market-leading micro-positioners offer single, dual and three axis configurations with a variety of adjustment options such as simple screws to precision micrometers. Small or very-small **rotary stages** with a variety of bore sizes complete the line-up.

Elliot Scientific also offers a range of accessories - such as the **MDE270 tilting stage** and various post adaptors - to complement each range and further enhance their flexibility of use.

For more information, please [contact us](#).

Economic laser trapping with Elliot Scientific Optical Tweezers



Optical Tweezers have been around for a long time. Over 40 years have passed since Arthur Ashkin and his colleagues described the single-beam gradient force trap and sparked a realisation in many scientists that this novel instrument would be a powerful tool for use in the course of their research. However, the costs and complexities of building Optical Tweezers were often prohibitive.

With the development of easy to use 'straight out of the box' systems by Elliot Scientific, Optical Tweezers have come down from the heights of esoteric research and can be found in many labs around the world.

At Photonics West, Elliot Scientific will be showing how we economically add laser trapping to existing commercial research microscopes, and demonstrating the versatility of our Optical Tweezers with **video of real-life experiments**.

If you cannot get to the show, our latest **Optical Tweezers Brochure** describes all the systems we offer; from open architecture kits to complete computer-controlled multiple spot trapping systems with force detection and more.

From Tuesday, meet Elliot Scientific and some of the companies we represent at...

SPIE. PHOTONICS WEST

Photonics West

16th to 18th February 2016

Booth #4555 North Hall, Moscone Center, San Francisco

CODIXX #2023	IPG Photonics #1523	NoIR LaserShields #1301
Elliot Scientific #4555	Kinetic Systems #5428	Nufern #4867
Energetiq #4559	Kozak Micro Adjusters #4435	Optisource #300
Gamma Scientific #5342	Lambda Research Optics #416	OZ Optics #4529
HOLOEYE #2532	Mad City Labs #532	Prizmatix #5072
Integrated Optics #2511	Micro Laser Systems #902	Vescent Photonics #4159