

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



The **Elliot Gold™ Series Flexure Stage** product range is our most popular export. Thousands have been supplied to scientists and engineers around the globe; they recognise that these high-resolution XYZ systems are of exceptional value in terms of price *and* performance.

Features

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

These precision engineered stages are configurable for use in a multitude of applications.



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 right or left-handed configurations to suit your experimental set-up, or for dual-sided alignment.

The positioners can be purchased with standard adjusters, high precision adjusters, or piezo driven actuators in any combination.

An extensive range of accessories and attachments ensure that most applications can be satisfied. If not, **contact us for a custom solution.**

Fiberocryst Amplifiers boost the power and energy output of an existing laser



- Flexible technology:
 - High avg. power
 - High peak power
- Seed laser choice:
 - 1030 nm or
 - 1064 nm
- Optimised for fs to ns pulsed lasers

The **Taranis Amplifier System** is a stand-alone add-on unit from **Fiberocryst** (Booth #4134) that allows a developer to increase the power and energy output of an existing laser installation.

The amplifier design incorporates Fiberocryst's unique **Taranis technology** - a single crystal fibre amplifier ideal for short pulse amplification that delivers a high intensity, linearly polarised laser beam with superb quality and adjustable repetition rate.

The amplifier accepts a wide range of fibre-coupled or free propagation mode seed lasers, boosting them to a higher average power, higher peak power (up to 30 MW) and higher pulse energy. Output is to free space.

Input Laser

- $M^2 < 1.3$
- 100 mW to 50 W
- 300 fs to CW
- 0.1 to 100 MHz

Pump Diode

- 808 or 940 nm
- NA up to 0.22
- 30 to 200 W
- Core dia. 100-200 μm

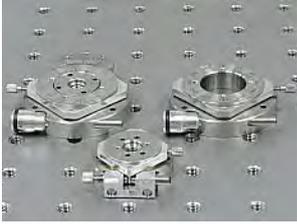
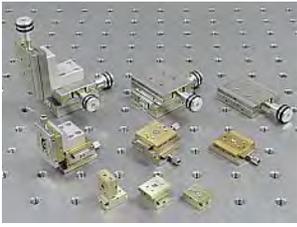
Amplifier output

- Up to 30 MW peak power
- Up to 100 W avg. power
- Pulse down to 500 fs
- $M^2 < 1.3$
- TEM_{00}

Contact us for more details.



Four decades of precision: Miniature slides from Elliot|Martock



Elliot | Martock high-resolution (<math><0.5 \mu\text{m}</math>) 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 adaptors and accessories - such as the MDE270 tilting stage - to complement the series and further enhance flexibility of use. For more information, please contact us.

Gamma Scientific's RS-7 SpectralLED™ range expanded



Fibre-optic version



Integrating sphere model

The recently introduced SpectralLED™ tunable light source from Gamma Scientific (Booth #2636) combines the light of dozens of discrete LEDs - each having a different centre wavelength - to produce output that can be programmed to closely match virtually any illuminant source or the spectrum of any illuminant reflected by a target.



Now new SpectralLED™ models are available with either fibre-optic outputs for awkward to reach places requiring illumination, or as a 1 m integrating sphere system offering ultra-uniform output from a 300 mm diameter port.

Gamma Scientific's SpectralLED™ delivers significantly higher brightness than any competitive product, enabling measurements over a much larger dynamic range and with the capability to illuminate a detector from threshold to saturation. Please contact us for more information.



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



E2300 DAli 3



Piezo-driven alignment

The Elliot Scientific DAli 3 is the latest version of our popular active 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/arrays to waveguide devices



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 driving most third-party 150 V piezo actuators.

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 information on options and specifications, please contact us.

Later this month, meet Elliot Scientific and some of the companies we represent at...



Photonics West

31st January to 2nd February 2017

Booth #4554, Moscone Center, San Francisco

CODIXX	#2023	HOLOEYE	#1737	Micro Laser Systems	#805
Elliot Scientific	#4554	IPG Photonics	#1623	NoIR LaserShields	#3054
Energetiq	#4325	Lambda Research Optics	#1330	Optisource	#300
Fibercryst	#4134	Mad City Labs	#5033	OZ Optics	#4529
Gamma Scientific	#2636	Nufern	#4765	Prizmatix	#4154



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