

Miniature spectrometers from Spectral Products are packed with great features



Spectral Products is a leading designer and manufacturer of sophisticated instruments such as spectrometers, monochromators, light sources and related equipment.

Their **SM miniature spectrometers** deliver numerous features and high performance within a small footprint. The series is based on a crossed Czerny-Turner configuration and also uses unique linear variable long pass filters to give broadband simultaneous wavelength coverage that is free of higher order interference.

A wide selection of UV/VIS/NIR (regular and back-thinned/TE-cooled CCD) and NIR/MIR (InGaAs, PbS, and PbSe) detectors enable Spectral Products to offer more than a dozen models to suit applications found in science and industry. For example:

- Raman spectroscopy
- Colour/LED measurement
- Luminescence spectroscopy
- Laser breakdown spectroscopy
- Arc, spark & plasma spectroscopy
- Picosecond laser analysis & ratiometry
- Spectrophotometry & spectroradiometry
- Process control, diagnostics & calibration
- Emission & excitation fluorescence spectroscopy



All detectors are thermo-electrically cooled for optimal operational stability, and ruled or holographic gratings are fitted depending on the chosen wavelength range. In addition, different slit sizes are available to alter the spectrometer's resolution. Please **contact us** for further details.

Need a really low-noise diode laser controller? Meet the D2-105 from Vescent Photonics



Vescent Photonics offer a superbly specified diode-laser current source based on the well-documented **Libbrecht-Hall (PDF)** circuit. With a current noise density of under 100 pA/√Hz, Vescent's D2-105 outputs less noise than any other commercially available laser controller.

Combined with two-stages of temperature control, to provide sub-mK stability, the **D2-105's** ultra-low current noise, servo controlled (> 10 MHz) frequency stability and lack of mains' induced harmonics is ideally suited for precision spectroscopy and metrology applications.

In addition, a connection to the laser current output SMA enables direct writing of sidebands by means of extremely high speed modulation of the injection current. This eliminates the need for expensive AOMs, EOMs, and lock-in amplifiers.

An example of how a D2-105 benefitted an experiment has been detailed in this recent paper from Laboratoire ARTEMIS *et al*: **Efficient diode laser line narrowing using dual, feed-forward + feed-back laser frequency control**

For more information about this or other electronics and lasers Vescent manufacture, please **contact us**.

Latest Elliot Scientific brochure now in print and online



Our new **Product Overview for 2017** is now available. This latest brochure from Elliot Scientific details the broad range of products and equipment we offer from leading companies around the globe, and our own ranges designed and manufactured in-house.

- **Lasers, LED light sources & other illumination systems**
- **Optics, spatial light modulators, fibre-optics & components**
- **Precision micro and nanopositioning devices & alignment systems**
- **Microscopy, optogenetics & equipment for biophotonics**
- **Spectroscopy, microspectrophotometry & Raman**
- **Sensors/Instrumentation for measuring temperature & magnetism**
- **Materials research test equipment & cryogenic probe stations**

Download the **brochure here**, or request a printed copy by **contacting us**. Alternatively, pick one up at any UK conference or exhibition we are attending.

CODIXX colorPol® polarisers are sturdy filters



The CODIXX range of tough, dichroic glass-based colorPol® polarisers pass or stop polarised light, modulate or reduce brightness, diminish noise and lots more. With over two dozen standard colorPol® versions available for use throughout the UV, Vis, NIR and mid-IR wavelength ranges, CODIXX have released two catalogues to help you choose the right polariser for your application.

CODIXX colorPol® polarisers deliver:

- High contrast ratios
- High transmittance values
- Large acceptance angles
- Resistance to UV radiation and chemicals
- Resistance to temperatures up to +400 °C



The **colorPol® catalogue** is complemented by a **High Transmission Brochure** especially for the telecoms industry. Do **contact us** for details about both standard and custom filters.

Superior pitch adjuster screw sets from Kozak Micro are perfectly matched



Kozak Micro manufactures super-smooth adjustment screw sets with threads as fine as **508 TPI (0.05 mm pitch)**. Available through Elliot Scientific in the UK and Ireland, these adjusters can be purchased in single or OEM quantities.

Proprietary manufacturing on a variety of customised machine tools enables Kozak Micro to produce adjusters in a range of pitches that are superior to industry standards.

Elliot Scientific offers 6 imperial and 4 metric thread pitch ranges of matched-set micropositioning adjustment screws and unbraked bushings that deliver the highest precision and smoothest movement by far for the most demanding of applications. Please **contact us** for more information.



Up to 508 TPI

Elliot Scientific will be exhibiting at the following events next month...



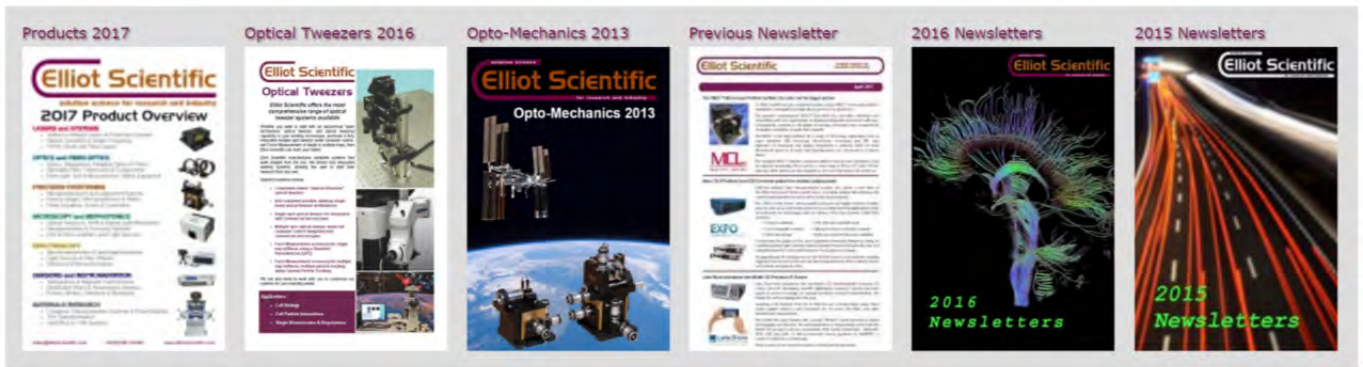
Photonex Scotland Roadshow

14th June 2017
University of Strathclyde



LASER World of Photonics

26th to 29th June 2017
Munich



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