

## Display colour, intensity and flicker measured with new instruments from Gamma Scientific



**Gamma Scientific** has just introduced two new instruments for display measurements. Both offer colour, intensity and flicker testing of all types of LED, LCD, OLED and Quantum Dot screens.

The GS-1160 is the touchscreen-equipped handheld version, while the GS-1160B is designed for the bench and operates in conjunction with PC-based analysis software. The GS-1160 can also be used as a desktop system as it is supported by the same software.

These **spectroradiometers**, to give them their proper name, deliver faster results with repeatability superior to filter-based instruments. Additional measurement capabilities include gamma, white balance and uniformity.

Data is output on both via USB, or can also be stored on an SD card in the GS-1160 portable model. The GS-1160B can be programmed for custom testing as it has an Application Programming Interface (API). Commands can be sent via RS-232 or the USB.

For detailed specifications and more information about these or other products Gamma Scientific manufacture, please **contact us**.

## HOLOEYE's new PLUTO-2 can be a stand-alone system



**HOLOEYE** revealed a new enhanced electronics driver module for existing and forthcoming Spatial Light Modulator (SLM) panels at LASER World of Photonics.

The **PLUTO-2** features an HDMI interface for addressing phase functions, a USB connection for advanced calibrations, and a trigger sync output for synchronising with external devices - such as colour-switchable lasers. The driver's faster addressing speed allows for a colour-field-sequential (CFS) mode at 180 Hz input frame rate with the matching new PLUTO-2 SLMs and, as a bonus, also offers a more stable phase response.

The PLUTO-2 driver is equipped with a dual-core processor and on-chip memory, enabling user-programmed (Ubuntu™) additional functionality. For example, a slideshow of images can be played back from a USB stick or internal memory without the need for a PC.

For more information about PLUTO-2 or other systems from HOLOEYE, please **contact us**.

## Introducing FEMTO-30: a high pulse energy ultrafast laser with flexible repetition rates



FEMTO-30 in Munich

**Fibercryst** is the only manufacturer of short pulse lasers and amplifiers that utilise the innovative Single Crystal Fibre technology (SCF) - a technology that offers significant performance advantages over existing technologies.

The **FEMTO-30** is Fibercryst's latest and more powerful laser system. This 30 W laser can deliver pulse energies of 160  $\mu\text{J}$  (@ 100 kHz) in pulse widths of less than 800 fs, with repetition rates selectable between 100 kHz and 1 MHz.

A significant feature of this laser is the ability to easily and quickly change the repetition rate to favour the average power or the energy per pulse. This makes it ideal for:

- Cutting and drilling of hard materials
- Cold machining of polymers and composites
- Micromachining and structuring of surfaces, for example medical devices and semiconductors



For more information about this or other lasers and amplifiers from Fibercryst, please **contact us**.

## NoIR adds new frame styles to the 40 series



**NoIR LaserShields** has added 3 medium, 2 large, and 1 petite style to its already broad range. The new **frames** numbered from 41 to 45 accept all NoIR's polymer filters, while frame 46 can also be fitted with filters manufactured from glass.

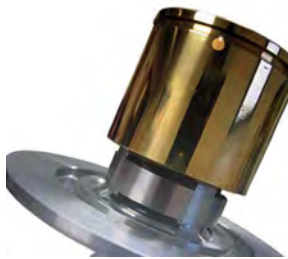
NoIR have been manufacturing high-quality internationally-certified safety eyewear for the protection of laser users in a broad range of fields and applications for many years now. Their filters offer protection from:

- UV, Vis and IR lasers and other ultra-bright light sources
- Multiple waveband devices
- Therapeutic and cosmetic treatments
- Laser pens (For pilots and the emergency services)



Elliot Scientific is able to offer expert advice on selecting the best in cost-effective laser safety. So, if you are an academic, beautician or clinician, we can protect your eyes. **Contact us** with details of your laser or ultra-bright light source application and we will be happy to help.

## Cryospectra add new 1 kW cooling capacity system to their cryorefrigerator range



**CryoSpectra** deliver the simplest way to bring cryogenic temperatures into a vacuum chamber through their uniquely designed cryorefrigeration systems. The high cooling capacity recirculating systems have been bolstered recently with the addition of many new models. The most recent being a 1 kW cooling capacity unit announced at LASER World of Photonics last month.

The CryoSpectra K Series of low acoustic noise cryorefrigerators are especially designed for work in the lab. The closed-loop cooling system ensures maintenance-free operation, while the super-compact cold head guarantees an ultra-low vibration (0.5 nm peak to peak) chilled surface for inside the vacuum chambers of high power lasers or similar systems.

### Features

- High cooling capacity: Up to 1 kW
- Cool-down time: 20 to 30 minutes
- Compact cold head
- Practically vibration-free
- Low maintenance
- Quiet operation

### Applications

- Laser crystal cooling
- High power laser amplifiers
- CEP stabilised laser systems
- Ti:Sapphire amplifier systems
- Quantum Cascade Lasers
- Cryopumping

More than two dozen models deliver between 75 and 170 Kelvin, with each cryorefrigerator offering a particular cooling capacity dependent on compressor size and whether it is air or water-cooled. All types can be water-cooled, but only those operating at the higher temperatures of 130 and 170 K can be purchased as air-cooled units. For more information, please **contact us**.

## LASER World of Photonics photos



The biennial **LASER World of Photonics** Exhibition and Conference took place at the end of June and Elliot Scientific was there along with over 1,200 other exhibitors and more than 32,000 visitors. In other words, there was an awful lot of laser and optics people in Munich!



Elliot Scientific will be exhibiting at the following event next week...



**19th IUPAB and 11th EBSA Congress**  
16<sup>th</sup> to 18th July 2017  
Edinburgh International Conference Centre



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