

## New fibre laser range now available to researchers through Elliot Scientific from IPG Photonics



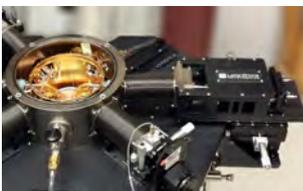
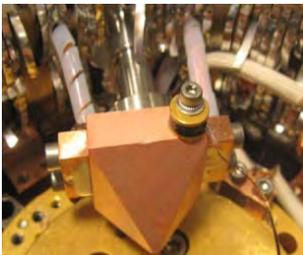
A broader range of **IPG Photonics'** reliable diode-pumped lasers and amplifiers using doped optical fibres as gain media are now available to researchers through Elliot Scientific, including the newly introduced Raman series of orange and red lasers.

The four groups of laser systems, encompassing dozens of individual models, offer a choice in terms of power output, polarisation mode, pulsed or continuous wave, plus single or multimode, and single frequency options. Choose from:

- Raman lasers: Orange or Red wavelengths**  
 Up to 20 W from a super-compact lightweight optical head linked to a small air-cooled control module makes these lasers ideal for adaptive optics and guide star applications, flow cytometry, holography and spectroscopy
- 1.0 micron Ytterbium-doped fibre lasers & amplifiers**  
 Continuous wave (CW), Q-switched and single frequency diode-pumped solid-state fibre lasers, as well as diode-pumped fibre amplifiers, for coherent or spectral beam combining, sensors, He3 pumping, optical tweezers and SHG applications
- 1.5 micron Erbium-doped fibre lasers, amplifiers & broadband sources**  
 Around 1500 nm, only IPG Photonics offers the widest range of devices in a variety of powers and configurations for a multitude of scientific uses
- 2.0 micron Thulium-doped fibre lasers**  
 Medical and other research applications abound for these compact, high-power, wavelength-selectable, single-mode CW or pulsed sources operating in the 1900 to 2400 nm spectral region

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

## New THz-frequency contact probing for cryogenic applications from Lake Shore



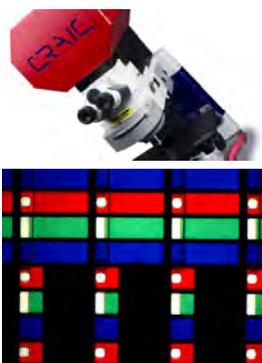
**Lake Shore** has released details of their new THz-frequency contact probes for cryogenic applications. Compatible with Lake Shore's **CPX, CPX-VF, CRX-4K, and CRX-VF** systems, the THz probe arm offers:

- Precise on-wafer contact THz probing of millimetre wave devices
- New measurement possibilities for next-generation electronics
- THz probes can be combined with standard DC/RF/microwave probe arms
- Features a low-loss THz waveguide
- Supports vector network analysers (VNAs) with suitable frequency extenders
- Enables calibrated S-parameter and other hf electrical measurements at cryogenic temperatures and in magnetic fields

Signal deterioration at frequencies above 75 GHz has limited high-frequency contact measurement of electronic devices at room temperature, let alone cryogenic ones. Now Lake Shore's breakthrough technology of a specially developed low-loss THz-frequency waveguide delivers excellent signal integrity over longer distances, at lower temperatures, and with superior arm mobility. All without interfering with the other probes in the system.

[Download the THz probe arm flyer here](#) or [contact us](#) for more details.

## Photoluminescence microspectroscopy from CRAIC Technologies



**CRAIC Technologies' microspectrophotometers** can acquire photoluminescence spectra from microscopic sample areas throughout the UV, visible and NIR regions. In addition, the time dependencies of these spectra can be monitored using CRAIC's own kinetic software TimePro™.

Photoluminescence encompasses short-term fluorescence, long-term phosphorescence, and any other type of photon emission that a sample exhibits. As more products and devices utilise ever smaller photoluminescent (PL) light sources in ever more demanding environments, the ability to test those devices with ultra-high spatial resolution and fidelity becomes increasingly important. CRAIC Technologies microspectrometers are ideally suited for both research and quality control of such devices as they can quickly characterise and qualify PL devices.

For more information about products from CRAIC Technologies and their applications, [contact us now](#).

## New Neoptix OmniFlex 2 multi-channel temperature monitor



Neoptix has added to their fibre optic temperature measurement range with the **OmniFlex™ 2 System**, a fully upgradeable, multi-channel temperature monitor field upgradeable to as many as 104 channels.

The OmniFlex 2 System allows use of several types of plug-in OmniModules in the same chassis. These modules can easily be mixed and matched to meet the needs of specific test projects. The current OmniModules are:

- 4-channel direct measurement module operating at 10 Hz/channel
- 4-channel multiplexed module operating at 250 ms/channel
- 8-channel multiplexed module operating at 250 ms/channel
- 16-channel 0-10 V analogue output module

The basic OmniFlex 2 chassis is a standard 3U in height that can accommodate up to 6 OmniModules, while a 6U version can be fitted with a total of 13. Additional chassis can be cascaded by linking them via a router.

The unit can be controlled by its onboard colour touchscreen, or remotely using a web browser via Ethernet. The latter method is more comprehensive, as it enables remote module configuration, data-logging capabilities, full electrical isolation, and optional WiFi connectivity. For more information, please **contact us**.

Website

Product Overview 2016

Optical Tweezers 2015

Components Catalogue 2013

2014 Newsletters

2013 Newsletters

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