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For more information contact:

Gary Wagner, President, Ophir-Spiricon, gary.wagner@us.ophiropt.com

Shari Worthington, PR Counsel, Telesian Technology, sharilee@telesian.com

Ophir Photonics Group Introduces Pyro-C Line of Laser Energy Sensors; Combine High Damage Threshold, High Repetition Rates, and Wides Range of Wavelengths

May 24, 2011 – Munich, Germany – Ophir Photonics Group, the global leader in precision laser measurement equipment, today announced at LASER World of Photonics the **Pyro-C** line of **Pyroelectric Laser Energy Sensors**. An upgrade to the company's PE line of pyroelectric pulsed sensors, the Pyro-C detectors provide the industry's lowest measurable energy, longest measurable pulse width, and highest accuracy. The sensors are compact devices that provide a user adjustable threshold, preventing false readings in noisy environments.

Like the **PE Series** before it, the **Pyro-C** sensors are the only laser energy detectors in the industry to combine high damage threshold and high repetition rates with the widest range of wavelengths, from UV to Near IR. They accurately measure high repetition rate lasers over the broadest spectral



Ophir-Spiricon, LLC
3050 North 300 West
Logan, UT 84341
Tel: 435-753-3729
Fax: 435-755-5454
www.ophiropt.com/photronics

range – 150nm to 12 μ m. The Pyro-C line includes:

- **PE10-C**: lowest measureable energy, down to 1 μ J, high repetition rates to 25kHz, 12mm aperture
- **PE25-C/PE50-C**: energies from 8 μ J to 10J, repetition rates to 10kHz, pulse widths to 5ms, 24.5mm and 46mm apertures
- **PE50-DIF-C**: similar to PE50-C but with diffuser to allow high energy densities to 1J/cm²

Each product above is also available in a version that features a high damage threshold **BF coating**. The models are the **PE10BF-C**, **PE25BF-C**, **PE50BF-C**, **PE25BF-DIF-C**, **PE50BF-DIF-C**. This coating allows the sensors to deliver the highest damage thresholds, to 0.8 J/cm² without diffuser and up to 4J/cm² with diffuser. It also allows pulse widths to 20ms.

While most high damage threshold detectors require multiple diffusers to cover the spectral range, the **Pyro-C** sensors use a single diffuser to cover UV, Visible, and Near IR wavelengths. This results in an accurate and flexible system that handles a wide range of measurement requirements.

“Ophir’s Pyro-C pyroelectric detectors are high accuracy, high repeatability detectors that can measure millions of pulses with no change in calibration,” stated Ephraim Greenfield, CTO, Ophir Photonics Group. “Built-in wavelength correction and high damage thresholds ensure these laser energy sensors provide the accuracy and repeatability needed for a diverse range of laser measurement applications, from photolithography to Nd:YAG laser welding.”

The **Pyro-C** sensors can do virtually everything a standard thermal head can do, such as power measurement with repetitive pulses, single shot energy, and laser power tuning. Users are provided with a wide range of information about the laser being tested, including pulse energy, average power, frequency, minimum and maximum values, missing pulses, time jitter, and standard deviation. Pulse energies can be displayed numerically or in graphs. Up to 50,000 points of data can be stored on-board in nonvolatile memory and can be sent to a computer for analysis and storage.

The **Pyro-C** line of laser energy sensors works with most Ophir smart displays or PC interfaces, with all new features supported in the **Nova II**, **Vega**, and **Juno**. Each display features a “Smart Connector” interface that automatically configures and calibrates the display when plugged into one of the company’s measurement heads.

Pricing and Availability

The **Pyro-C Pyroelectric Energy Sensors** are available now. OEM pricing is available on request. The data sheets can be viewed at:

http://www.ophiropt.com/laser/pdf/PE9_PE9-F_PE10-C_PE10BF-C.pdf

http://www.ophiropt.com/laser/pdf/PE25-C_PE25BF-C_PE50-C_PE50BF-C.pdf

http://www.ophiropt.com/laser/pdf/PE50-DIF-C_PE25BF-DIF-C_PE50BF-DIF-C.pdf

About Ophir Photonics Group

With over 30 years of experience, the Ophir Photonics Group provides a complete line of instrumentation including power and energy meters, beam profilers, spectrum analyzers, and goniometric radiometers. Dedicated to continuous innovation in laser measurement, the company holds a number of patents, including Ophir-Spiricon's **Ultracal™**, the baseline correction algorithm that helped establish the ISO 11146-3 standard for beam measurement accuracy. The recently acquired Photon family of products includes **NanoScan** scanning-slit technology, which is capable of measuring beam size and position to sub-micron resolution. The company's modular, customizable solutions serve manufacturing, medical, military, and research industries throughout the world. For more information, visit <http://www.ophiropt.com/photonics>

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Gary Wagner, President

Ophir-Spiricon, LLC

3050 North 300 West

North Logan, UT 84341

Tel: 435-753-3729

E-mail: gary.wagner@us.ophiropt.com

Web: www.ophiropt.com/photonics

PR Office:

Shari Worthington

Telesian Technology

49 Midgley Lane

Worcester, MA 01604

Tel: 508-755-5242

E-mail: sharilee@telesian.com

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