



FOR IMMEDIATE RELEASE

For more information contact:

Gary Wagner, President, Ophir-Spiricon, [gary.wagner@ophir-spiricon.com](mailto:gary.wagner@ophir-spiricon.com)

Shari Worthington, PR Counsel, Telesian Technology, [sharilee@telesian.com](mailto:sharilee@telesian.com)

## Ophir-Spiricon's New PE50BF Series Laser Energy Sensors Provide Highest Damage Threshold, Widest Range of Wavelengths

June 16, 2009 – Munich, Germany – Ophir-Spiricon, the global leader in precision laser measurement equipment, today announced at **LASER World of Photonics** the **PE50BF-DIF Pyroelectric Detector**, the energy sensor with the highest damage threshold and widest spectral range in the industry. The PE50BF-DIF has a fast broadband absorber that accurately collects measurements from 193nm to 3 $\mu$ m at pulse rates to 120Hz. While most high damage threshold detectors require multiple diffusers to cover the spectral range, the PE50BF-DIF uses a single diffuser to cover UV, Visible, and Mid-IR wavelengths. This results in an accurate and flexible system that handles a wide range of measurement requirements. The sensor works with most types of pulsed lasers, from short to long pulse, and from low to high energy.

The **PE50BF-DIF Pyroelectric Detector** features a 35mm aperture that measures repetition rates to 120Hz with pulse widths of up to 5ms. The detector provides the highest damage threshold in the industry for UV wavelengths and is among the highest for all others, ranging from 4 J/cm<sup>2</sup> at <100ns to 80 J/cm<sup>2</sup> at 5ms. A high accuracy, high repeatability detector, millions of pulses can be measured with no change in calibration. A non-diffuser version is also available, the **PE50BF**. Its 46mm aperture has the



Ophir-Spiricon Inc.  
60 West 1000 North  
Logan, UT 84321  
Tel: 435-753-3729  
Fax: 435-755-5454  
[www.ophir-spiricon.com](http://www.ophir-spiricon.com)

highest damage threshold of any non-diffuser detector on the market, 800mJ/cm<sup>2</sup> for Q switched lasers.

“The PE50BF-DIF is the most versatile laser energy sensor on the market,” stated Ephraim Greenfield, VP Engineering, Laser Measurement Group, Ophir-Spiricon, Inc. “It is the only energy sensor that can measure from Far UV to IR, from short Q switched pulses to millisecond pulses, and from hundreds of micro Joules to dozens of Joules. It is also the only detector that can measure laser energy without damaging it. This makes it ideal for pulse-to-pulse measurements from high energy Nd:YAG pump lasers, from the fundamental 1064nm to the quadrupled 266nm line, and for measuring all the energy per pulse from broadly tunable OPO’s and OPA’s.”

The PE50BF and PE50BF-DIF work with all Ophir smart displays or PC interfaces, including the **Orion PE, Nova, Nova II, Vega, LaserStar, USBI, Pulsar, and Quasar**. 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 **PE50BF** and **PE50BF-DIF Pyroelectric Detectors** are available now. OEM pricing available.

### **About Ophir-Spiricon**

Established in 1978, Ophir-Spiricon is part of the Ophir Optronics Laser Measurement Group. The Laser Measurement Group provides a complete line of instrumentation including power and energy sensors, beam profilers, and spectrum analyzers. Dedicated to continuous innovation in laser measurement, the company holds a number of patents, including **Ultracal™**, the baseline correction algorithm that helped establish the ISO 11146-3 standard for beam measurement accuracy. The company’s modular, customizable solutions serve manufacturing, medical, military, and research industries throughout the world. For more information, visit [www.ophir-spiricon.com](http://www.ophir-spiricon.com).

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#### **For more information, contact:**

Gary Wagner, President  
Ophir-Spiricon Inc.  
60 West 1000 North  
Logan, UT 84321  
Tel: 435-753-3729  
E-mail: [gary.wagner@ophir-spiricon.com](mailto:gary.wagner@ophir-spiricon.com)  
Web: [www.ophir-spiricon.com](http://www.ophir-spiricon.com)

#### **PR Office:**

Shari Worthington  
Telesian Technology  
49 Midgley Lane  
Worcester, MA 01604  
Tel: 508-755-5242  
E-mail: [sharilee@telesian.com](mailto:sharilee@telesian.com)

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