



FOR IMMEDIATE RELEASE

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Ophir-Spiricon's New Laser Power/Energy Meter Combines High Damage Threshold, High Repetition Rate, and Widest Range of Wavelengths

December 17, 2008 – Ophir-Spiricon, the global leader in precision laser measurement equipment, today announced the **PE50-DIF Pyroelectric Detector**, the first laser power/energy detector to combine high damage threshold and high repetition rates with the widest range of wavelengths in the industry, from UV to Near IR. The PE50-DIF accurately measures high repetition rate lasers over the broadest spectral range – 193 nm to 2.94 μm . The detector measures pulse widths to 10 ms and pulse rates to 3000 Hz. While most high damage threshold detectors require multiple diffusers to cover the spectral range, the PE50-DIF uses a single diffuser for UV, Visible, and Near IR wavelengths. This results in an accurate and flexible system that handles a wide range of measurement requirements.

The **PE50-DIF Pyroelectric Detector** features a 35mm aperture. For short pulses, the detector measures repetition rates to 3000 Hz with pulse widths of up to 30 μs . For long pulses, the detector measures repetition rates to 250 Hz with pulse widths of up to 1 ms. The PE50-DIF provides the highest damage threshold in the industry for UV wavelengths and is among the highest for all others, ranging from 1 J/cm^2 at <100 ns to 40 J/cm^2 at 1 ms. A high accuracy, high repeatability detector, millions of pulses can be measured with no change in calibration.

“Ophir’s PE50-DIF pyroelectric detector features the highest damage thresholds, highest rep rate, and longest pulse widths in the industry,” stated Ephraim Greenfield, VP Engineering, Laser Measurement Group, Ophir-Spiricon, Inc. “Built-in wavelength correction and high damage thresholds

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ensure the PE50-DIF provides the accuracy and repeatability needed for a diverse range of laser measurement applications, from photolithography to Nd:YAG laser welding.”

The **PE50-DIF** Pyroelectric Detector 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 **PE50-DIF** works 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 **PE50-DIF Pyroelectric Detector** is available now. Prices from US\$1500. OEM pricing available on request. The data sheet can be viewed at

<http://www.ophiropt.com/laser/pdf/index.php?item=PE50-DIF>

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 meters, 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

<http://www.ophir-spiricon.com>.

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