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Ophir-Spiricon Announces New Power/Energy Sensor for Measuring Very Low Power and Energy, and Divergent Beams

August 3 2009 – Logan, UT – Ophir-Spiricon, the global leader in precision laser measurement equipment, today announced the **3A-P-FS Very Low Power/Energy Sensor**. The 3A-P-FS is designed to measure very low power and energy light sources and divergent beams, such as LEDs and diode lasers. The 3A-P-FS features a wide, 12mm numerical aperture and a fused silica window in front of the detector. The window, only 7mm from the sensor surface, keeps out air currents and long wavelength background heat, allowing more accurate measurements of lower powers. The sensor can measure divergent beams up to ± 40 degrees.

The **3A-P-FS** measures very low power, pulsed or CW lasers in the 0.19 to 20 μm wavelength range. The sensor's p-type absorber provides a larger aperture and flatter spectral response than broadband devices, maximizing performance across the entire spectral range. Optical power can be measured from 60 μW to 3W, and energy from 20 μJ to 2J.

"There has been an explosion of applications for very low power, divergent light sources, such as LEDs and diode lasers," stated Ephraim Greenfield, VP Engineering, Laser Measurement Group, Ophir-Spiricon Inc. "But most low power detectors recess the sensor well below the surface,



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making them unsuitable for divergent beams. Our engineering team understands that no single absorber can meet the all needs. Thus we have developed a number of types optimized for different applications. The 3A-P-FS makes use of a unique, fused silica window only 7mm from the 12mm diameter absorbing surface. This ensures accurate measurement of lower powers and more divergent beams.”

The **3A-P-FS** very low power/energy sensor 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.

Availability & Pricing

The **3A-P-FS Very Low Power/Energy Sensor** is available now. OEM pricing is 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.

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