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Ophir-Spiricon Opens New Clean Room for Production of Solid-State, Pyroelectric Detector Arrays for Laser Beam Profiling Cameras

June 27, 2011 – Logan, Utah – Ophir-Spiricon, a member of the Ophir Photonics Group, a global leader in precision laser measurement equipment, has announced the opening of a **clean room** at its new facility in Logan, Utah. The 840 square foot clean room is used for manufacturing the solid-state, pyroelectric detector arrays used in the company's **Pyrocam™** beam profiling cameras.

The new **clean room** houses photolithography and thin film deposition processes. Yellow lighting is used to prevent premature exposure of the photolithography materials used, similar to a “safe light” in a darkroom. The clean room complies with ISO 7 standards for airflow and filtration. Humidity and temperature are tightly controlled. An airlock and protective clothing are also used to decrease contamination.



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“Ophir is committed to building precision, stability, reliability, and versatility into all our products,” stated Gary Wagner, President, Ophir-Spiricon. “The new clean room provides a cleaner production environment. This translates into less defects and better yield for both the lithography and thin film deposition processes. In addition, we can produce larger, more dense arrays with higher pixel fill factors for higher resolution cameras.”

Pyrocam is a solid-state, pyroelectric camera designed to create clear and illuminating images of laser beam profiles. It measures the beam profile of both pulsed and CW lasers, for spectral ranges from 13 to 355nm and 1.06 to >3000µm. This includes DUV, Excimer lasers, CO2 lasers, telecom NIR lasers, and infrared sources to far IR THz. The camera provides 1000:1 linear dynamic range for accurate profiling. An integrated chopper handles CW beams and thermal imaging. Pyrocam is shipped with the company’s **BeamGage®** laser beam analysis software for extensive quantitative analysis and image display.

The **Pyrocam III** data sheet can be viewed at <http://bit.ly/19poHF>

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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