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Ophir-Spiricon Introduces Pyrocam IIIHR, OEM Version of Pyroelectric Laser Beam Profiling Camera for 2D/3D Viewing of DUV, Far-IR, THz Sources

EDITORS: High resolution images are available for download at <http://www.telesian.com/marketing/vpr/os/os021115-01.cfm>

February 11, 2015 – North Logan, UT – Ophir Photonics, global leader in precision laser measurement equipment and a Newport Corporation company, today announced the newest member of the Pyrocam™ family of pyroelectric laser beam profiling cameras at **Photonics West**, the **Pyrocam™ IIIHR**. Designed for OEM applications, this camera features a sensitive, 160 x 160 pixel image array that can profile beams up to ½-inch (12.8 mm) without the need for reduction optics. The higher resolution, 80µm pixel pitch means it can analyze beams up to 20% smaller. Both pulsed and CW (continuous wave) lasers can be measured, from 13 to 355 nm and 1.06 to >3000 µm, including CO² lasers, telecom NIR lasers, and THz sources.

“Lasers are increasingly embedded in novel systems where traditional technologies have not been able to keep up with the pace of miniaturization,” said Gary Wagner, General



Manager (U.S.), Ophir Photonics. “In semiconductor device fabrication, the physical limits of transistor scaling are challenging the exponential improvements predicted by Moore’s Law. Fiber, CO², and solid state lasers are now used to drill, cut, and ablate ever thinner chip layers. At the other end of the spectrum, long wavelength terahertz lasers are being applied to chemical analysis, medical imaging, and wireless communications.”

The **Pyrocam IIIHR** allows users to see the beam for dynamic alignment and proper operation. For high-speed applications, it includes an interface to GigE (Gigabit Ethernet) cameras. A 16-bit A/D converter provides reliable measurement and analysis of both large signals and low level signals in the wings of the laser beam. A signal to noise ratio of 1000:1 means beams of 30 mW/cm² are easily visible.

The **Pyrocam IIIHR** ships with **BeamGage**®, the company’s advanced laser beam analysis software. BeamGage includes more than 55 measurements and calculations, many based on ISO standards. These include fast, off-axis correction of distorted beam images; trend charting; data logging; power/energy calibration; and pass/fail production testing. Laser manufacturers and OEMs can easily import their own custom algorithms created in C#/.NET using **Custom Computations**. BeamGage is based on the patented **UltraCal**™ baseline correction algorithm that helped establish the ISO 11146-3 standard for beam measurement accuracy.

Availability & Pricing

The **Pyrocam IIIHR** pyroelectric laser beam profiling camera is available now. OEM prices available on request.

Pyrocam Data Sheet: <http://ow.ly/IHINP>

About Ophir Photonics

With over 35 years of experience, Ophir Photonics, a Newport Corporation company, 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 the R&D 100 award-winning **BeamTrack** power/position/size meters; **BeamWatch**®, the industry’s first non-contact, focus spot size and position monitor for lasers in material processing; and Spiricon’s **Ultracal**™, the baseline correction algorithm that helped establish the ISO 11146-3 standard for beam measurement accuracy. The Photon family of products includes **NanoScan** scanning-slit technology, which is capable of measuring beam size and position to sub-micron resolution. The company is **ISO/IEC 17025:2005** accredited for calibration of laser measurement instruments. Their 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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