



FOR IMMEDIATE RELEASE

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Ophir-Spiricon Inc. Introduces Industry's First Real Time, High Power CO₂ Laser Beam Profiler

**New At-Line Beam Monitoring System Handles
Large Beams at High Powers in Real Time, Up to 48 Images/Sec**

EDITORS: High resolution images are available for download
at www.telesian.com/marketing/vpr/os/os042808-01.cfm

April 28, 2008 – Logan, UT – Ophir-Spiricon, the global leader in precision laser measurement equipment, today announced the **II-VI-CO₂-58 Industrial Laser Beam Analyzer**. The II-VI-CO₂-58 is a laser beam profiling system that enables the quantitative measurement and viewing of high power CO₂ beams. The system diagnoses faults quickly, in real-time, and corrects issues related to beam stability, alignment, tuning, and optimization.

The **II-VI-CO₂-58 Industrial Laser Beam Analyzer** is a portable device that can be used to quickly and easily spot check performance on a variety of laser-based machines -- in one or more facilities, or in the field. The system's 58mm clear aperture enables the user to measure large laser beams. The ability to handle up to 10kW of power makes it ideal for high power CO₂ lasers. With the ability to produce up to 48 images per second, users can view transient laser performance in real time. Other systems can take up to 10 seconds to create a single image and mask real-time transient responses.

The **II-VI-CO₂-58 Industrial Laser Beam Analyzer** is designed to work with the industry's leading beam profiling camera, Ophir's **Pyrocam™ III**. The Pyrocam III is a solid state camera based on one of

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the most rugged, stable, and precise IR detector arrays available. It delivers a 1000:1 linear dynamic range for high accuracy profiling. The camera offers 2D or 3D views of laser beam profiles, providing instant alerts about detrimental laser variations.

The **II-VI-CO₂-58 Beam Analyzer** camera connects to a PC through a FireWire interface for advanced analysis capabilities. A Basic Image Viewer presents 3D isometric plots and 2D color contour plots. The company's **LBA-PC-PIII** software also works with the beam analyzer and contains all the algorithms and calculations necessary to make the most accurate measurements, including an ActiveX® interface for extracting data into other applications, 2D and 3D viewing, reference subtraction, user-customized apertures and color palettes, and Z-axis scaling.

“Until now, it was impossible to study the transient effects of high power laser processes in real time,” stated Ephraim Greenfield, VP Engineering, Laser Measurement Group, Ophir-Spiricon, Inc. “In a one-half second CO₂ weld, for instance, the part may burn one-third of the way through the weld. With the II-VI-CO₂-58, you can see, in real time, when the laser beam is getting too small and too intense before the weld is complete. This allows for faster diagnosis of problems, a significant increase in quality parts, as well as lower scrap rates and less downtime.”

Pricing and Availability

The **II-VI-CO₂-58 Industrial Beam Analyzer** is available now. Both horizontal and vertical entry options are available. Prices start at \$30,000 plus the Pyrocam. OEM pricing is available on request.

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. Wholly-focused on laser measurement, the group's modular, customizable solutions serve manufacturing, medical, military, and research industries throughout the world. An unwavering commitment to forward thinking helps keep us “the partner of choice.” For more information, visit www.ophir-spiricon.com.

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