



FOR IMMEDIATE RELEASE

For more information contact:

Gary Wagner, President, Ophir-Spiricon, [gary.wagner@ophir-spiricon.com](mailto:gary.wagner@ophir-spiricon.com)

Shari Worthington, PR Counsel, Telesian Technology, [sharilee@telesian.com](mailto:sharilee@telesian.com)

## Ophir-Spiricon Introduces Industry's First Built-In Photodiode Trigger for High Accuracy Laser Beam Profiling Cameras

**USB 2.0 Beam Profiling Cameras Capture Up to 1.9 Million Pixels,  
Provide Photodiode Trigger Options**

June 15, 2009 – Munich, Germany – Ophir-Spiricon, the global leader in precision laser measurement equipment, today announced the industry's first **built-in photodiode trigger** for beam profiling cameras at **LASER World of Photonics**. The trigger is part of the company's **USB 2.0 Silicon CCD Cameras** designed specifically for laser beam measurement applications, the **SP503U** and **SP620U**. These cameras accurately capture and analyze wavelengths from 190nm – 1550nm, both continuous wave (CW) and pulsed mode.

The **SP camera's** built-in photodiode trigger includes new firmware that analyzes background lighting and provides offsets, allowing reliable triggering on a variety of energy levels, including energies as low as 10uJ. The internal photodiode trigger also includes a pre-trigger function that predicts when the next pulse will arrive and opens the shutter in time to see short, ns pulses.



Ophir-Spiricon Inc.  
60 West 1000 North  
Logan, UT 84321  
Tel: 435-753-3729  
Fax: 435-755-5454  
[www.ophir-spiricon.com](http://www.ophir-spiricon.com)

“The new built-in photodiode trigger for the SP cameras is the most sensitive in the industry,” stated Gary Wagner, President of Ophir-Spiricon Inc. “It can be triggered from something as low contrast as reflected light around a lab setup. This means a user can set the camera up in front of a pulsed laser, turn on the beam profiling program, and capture scattered laser light at even the most challenging nanosecond pulse widths.”

Ophir-Spiricon provides the only photodiode triggers in the industry. Two options are available: the new **SP cameras**’ built-in trigger that can synch up to 1000Hz, and an external trigger that can synch to 500Hz. If the lab setup is such that scattered light from the laser does not get to the built-in photodiode, the external photodiode trigger can be used and placed in a different location from the camera.

### **SP503U and SP620U Beam Profiling Cameras**

Ophir-Spiricon’s **SP cameras** feature the highest dynamic range in the industry, up to 64dB, and a programmable, high-speed electronic shutter. The new beam profiling cameras include the easy to setup, easy to use USB 2.0 interface. They are available in two, ultra-slim versions: the SP503U has a resolution of 640 x 480 pixels, and the SP620U has a resolution of 1600 x 1200 pixels, over 1.9 million pixels, the highest in the industry. Both cameras include a set of filters that allow for effortless measurement of power levels, from microwatts to watts, when used in combination with the automatic shutter and gain control.

The cameras also include the industry’s most advanced beam analysis software, Ophir-Spiricon’s **LBA, BeamStar, or BeamGage™**. BeamGage, the next generation of laser beam analysis systems, is the industry’s first beam profiling software to be newly designed, from scratch, using the most advanced tools and technologies. Based on UltraCal™, Ophir-Spiricon’s patented baseline correction algorithm that helped establish the ISO 11146-3 standard for beam measurement accuracy, BeamGage provides high accuracy results, guaranteeing the data baseline (zero-point reference) is accurate to 1/8th of a digital count on a pixel-by-pixel basis.

### **Pricing and Availability**

The **SP503U and SP620U USB 2.0 CCD cameras** are available now. Both cameras include the new built-in photodiode trigger and a choice of beam analysis software packages: LBA, BeamStar, or BeamGage. OEM pricing is provided 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 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](http://www.ophir-spiricon.com).

###

### **For more information, contact:**

Gary Wagner, President  
Ophir-Spiricon Inc.  
60 West 1000 North  
Logan, UT 84321  
Tel: 435-753-3729  
E-mail: [gary.wagner@ophir-spiricon.com](mailto:gary.wagner@ophir-spiricon.com)  
Web: [www.ophir-spiricon.com](http://www.ophir-spiricon.com)

### **PR Office:**

Shari Worthington  
Telesian Technology  
49 Midgley Lane  
Worcester, MA 01604  
Tel: 508-755-5242  
E-mail: [sharilee@telesian.com](mailto:sharilee@telesian.com)

© 2009, Ophir-Spiricon Inc. Ultracal and BeamGage are trademarks of Ophir-Spiricon Inc. All other trademarks are the registered property of their respective owners.