

ePulse: Laser Measurement News

July 2009

Welcome to **ePulse: Laser Measurement News**, a review of new developments in laser analysis, beam diagnostics, and beam profiling. Each issue contains industry news, product information, and technical tips to help you solve challenging laser measurement and spectral analysis requirements. Please forward to interested colleagues.

Laser Measurement Business

The Future of Photonics & Opportunities for Growth

We have only scratched the surface when it comes to harnessing optoelectronics and its ability to better our lives. Especially in today's economic climate, it's easy to see the world as half empty and forget that we are in the midst of a number of exciting photonic revolutions! Find out more in Gary Wagner's article, [Photonics Future](#).

Tutorials

New Industrial Beam Profiling for High Power CO₂ Lasers

ModeCheck™ is a portable industrial beam profiling system that enables the quantitative measurement and viewing of high power CO₂ beams. With this development, toxic mode burns are now a poor substitute for understanding how your laser is operating. Find out [why the mode burn is history](#).

Verifying the Output of Your Aesthetic Lasers and Light Sources

Aesthetic lasers and light sources (such as IPL, intense pulsed light) have blossomed over the last two decades. This article discusses the different applications and how lasers are used, from hair removal to tattoo removal to vascular lesions. Find out more in Burt Mooney's article, [Lasers in Aesthetics](#).

Laser Power Measurement: What To Do With All Those Cables?

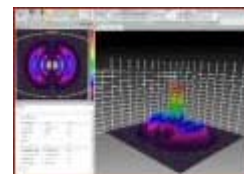
One of the inconveniences in the measurement of laser power and energy is what to do with the cables connecting the display to the sensor. They have limited flexibility and clutter the workspace. Sometimes, due to their stiffness, a motion of the cable moves the sensors and misaligns the set up. To solve these problems, Ophir has designed Quasar, a wireless interface. Find out more in Yoram Shalev's article, [Wireless Measurements](#).

FAQs: Power/Energy Meters

Why do people need or want to buy power/energy sensors? Why do they want to measure their laser beams? Why wouldn't they

Video of the Month

Make sure the laser beam you expect is the one that is delivered. See how beam profiling can help you get the most performance out of your laser. [Watch the beam profiling video](#).



Laser Survey & Spiricon Goodies

We're on a hunt for information that will help laser users better understand the challenges being seen in the field. Complete this short survey and we'll send you a 1GB flash drive and enter you in the drawing for an iPod Touch. [Complete the survey before August 31, 2009](#).

2009 Power Meter & Beam Profiling Catalogs

Download the 2009 Ophir-Spiricon Laser Measurement Catalogs today. Tutorials and new products in [Power Meters](#) and [Beam Profiling](#).

Fast Ship Program

Ophir-Spiricon's new [Fast Ship program](#) provides one-day shipment of the most popular power/energy, beam profiling, and M2 laser measurement equipment.

Laser Q&A

Does the damage threshold of a thermal head depend on power level?

Find out at [Laser Q&A](#).

just assume the lasers are working the way the manufacturer said? Read the [FAQ](#).

I can understand why a power meter head needs to be recalibrated, but why do I have to have my display recalibrated? Read the [FAQ](#).

FAQs: Beam Profiling

Will my current Ophir-Spiricon camera work with the new BeamGage software? Read the [FAQ](#).

Will I be able to use my FireWire or USB Ophir-Spiricon camera with LBA or BeamStar after upgrading to BeamGage? Read the [FAQ](#).

News from LASER World of Photonics 2009: What's New in Laser Measurement

Industry's First Built-In Photodiode Trigger for High Accuracy Beam Profiling Cameras

Ophir-Spiricon's **USB 2.0 Silicon CCD Camera Series**, the **SP503U** and **SP620U**, now include the industry's first **built-in photodiode trigger** for beam profiling. The trigger is designed specifically for laser beam measurement applications. New firmware analyzes background lighting and provides offsets, allowing reliable triggering on a variety of energy levels, including energies as low as 10uJ. Find out [more](#).

Laser Energy Sensors Provide Highest Damage Threshold, Widest Range of Wavelengths

The **PE50BF-DIF Pyroelectric Detector** has the highest damage threshold and widest spectral range in the industry. The energy sensor has a fast broadband absorber that accurately collects measurements from 193nm to 3µm at pulse rates to 120Hz. While most high damage threshold detectors require multiple diffusers to cover the spectral range, the PE50BF-DIF uses a single diffuser to cover UV, Visible, and Mid-IR wavelengths. Find out [more](#).

On-Site Seminars

Ophir-Spiricon has begun conducting a limited number of on-site beam diagnostic seminars for major laboratory facilities and academic institutions focusing on photonic developments. These educational seminars will include such topics as "Power vs energy: Which do you measure and why," "Focused spot analysis: When it makes sense," and "M2 beam propagation analysis." For more information or to schedule a seminar, contact Kevin Kirkham at Kevin.Kirkham@ophir-spiricon.com or call 435-753-3729.

Trade Shows

[Optics & Photonics](#)

August 4-6, 2009
San Diego Convention Center
San Diego, California

[ICALEO 2009](#)

November 2-5, 2009
Hilton, Walt Disney World Resort
Orlando, Florida

About Ophir-Spiricon Inc.

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. Wholly focused on laser measurement, the group's modular, customizable solutions serve manufacturing, medical, military, and research industries throughout the world. Since 1978, an unwavering commitment to forward thinking has kept us "the partner of choice" in optoelectronics.

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