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Ophir Photonics Announces Laser Sensors That Measure High Laser Powers Without Water Cooling

EDITORS: High resolution images are available for download at http://www.telesian.com/marketing/vpr/os/os120815-01.cfm

December 7, 2015 – North Logan, UT – Ophir Photonics Group, the global leader in precision laser measurement equipment and a Newport Corporation company, today announced four new thermal laser sensors designed for measuring high pulse energies without the need for large, water-cooled devices. Designed for use with high powered lasers, the **L40(150)A, L40(150)A-LP1, L50(150)A,** and **L30C-LP1-26-SH** are compact sensors that measure high laser energies up to 8000J. The high power laser irradiates the sensor for a short time, from 0.1 to 1s, and the energy of the pulse is used to calculate laser power.

"With the advent of higher power lasers across a broad range of applications, there is a need to measure power and energy without requiring large, often

cumbersome, water-cooled devices," said Ephraim Greenfield, CTO of Ophir Photonics Group. "Today's lasers can be switched on and off precisely, delivering a rectangular pulse of energy. Our new, compact non-water cooled laser sensors use these short pulses of 0.1 to 1 sec to make laser power measurements up to 8000W or higher."

The **L40(150)A** and **L50(150)A** are general purpose, convection/ballistic-cooled laser power/energy sensors that measure laser power from 100mW – 150W and laser energy from 100mJ – 4000J; up to 8000J with a pulse of 0.5sec. Each sensor features a large 50mm aperture and broad spectral response of 0.19 – 20µm.

The **L40(150)A-LP1** is a convection/ballistic-cooled laser sensor. The LP1 coating has a much higher damage threshold for continuous power and long >1ms pulse measurements. It measures laser power from 100mW – 150W and energy from 100mJ – 4000J; up to or 8000J with a pulse of 0.5sec. The sensor has a large 50mm aperture and spectral range of 0.25 – 2.2µm, and 2.94µm.

The **L30C-LP1-26-SH** is a conduction-cooled laser sensor with a high damage threshold LP1 coating for measuring high pulse energy and intermittent power. The sensor measures up to 10W of continuous power (100W for two minutes) and energy to 2000J; up to 4000J with a pulse of 0.5sec. It features a spectral response of 0.25 – 2.2µm. A smart sensor interface

Availability

The **L40(150)A, L40(150)A-LP1, L50(150)A,** and **L30C-LP1-26-SH** are available now. OEM pricing is available on request.

- L40(150)A data sheet: http://ow.ly/V3cU3
- L40(150)A-LP1 data sheet: http://ow.ly/V3cZP
- L50(150)A data sheet: http://ow.ly/V3d2Y
- L30C-LP1-26-SH data sheet: http://ow.ly/V3d4p

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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