FOR IMMEDIATE RELEASE

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Ophir Photonics Introduces
Fast Axial Thermal Laser Sensors for OEMs;
Fast Response Time, Over 2000J Pulse Energy

October 31, 2012 — North Logan, UT – Ophir Photonics Group, the global leader in precision laser measurement equipment and a Newport Corporation brand, today announced the Fast Axial OEM Sensor. The sensor is based on a novel thermopile design that provides significantly faster response times and higher power levels. Response times are up to 20 times that of traditional thermopile sensors; power and energy levels are up to 2000J for single pulses and over 20KW average power. The Fast Axial OEM Sensor is designed to handle a wide array of laser beam sizes, from 20mm to 180x180mm.

The Fast Axial OEM Sensor operates on the principle of axial heat flow in the direction of incident laser or light beams. This is instead of the usual radial flow sensor where heat flows from the center out-
wards. In the Axial Sensor, heat flows through a thermopile deposited as a thin layer on the surface of the heat sink. Heat flows only a small distance axially into the substrate. This results in significant improvements in response times and support for higher power levels.

“Ophir offers OEM sensors for any type and wavelength of laser, for any power or configuration,” said Gary Wagner, General Manager, Ophir Photonics (U.S.). “The Fast Axial OEM Sensor is based on a unique design that delivers response times up to 20 times better than the best radial thermopile sensors, reaching 10-90% response time in 50ms. The novel design allows the sensor to be configured to support very large beams, up to 180x180mm capable of measuring over 2000J per pulse. The sensor can also handle high powers. The 180x180mm configuration can handle over 20kW of average power.

High speed, small aperture versions of the Fast Axial OEM Sensor can be used as internal monitors of high power industrial lasers; the fast response time means better control of laser power. The smaller version can measure up to 150W.

Availability & Pricing
The Fast Axial OEM Sensor is available now for custom configuration. OEM pricing on request.

Specifications
http://www.telesian.com/marketing/vpr/os/os_fast_axial_sensor_ds.pdf

About Ophir Photonics
With over 30 years of experience, Ophir Photonics, a Newport Corporation brand, 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 Ophir-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’s 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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