FOR IMMEDIATE RELEASE

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Ophir Photonics Announces Compact, Low-Cost Integrating Sphere and Photodiode Detector System for Optical Power Measurement

EDITORS: High resolution images are available for download at http://www.telesian.com/marketing/vpr/os/os121014-01.cfm

December 10, 2014 – North Logan, UT – Ophir Photonics Group, the global leader in precision laser measurement equipment and a Newport Corporation brand, today announced a new system for narrowband optical power measurement, the 3A-IS Optical Power Sensor and AUX-LED Self-Absorption Accessory. The 3A-IS is a compact, easy-to-use integrating sphere and photodiode sensor system. It is designed to measure the optical power of divergent, narrowband light sources from 350nm – 1100nm, such as lasers and LEDs. The AUX-LED is an accessory for the 3A-IS that corrects the effects of self-absorption.
The **3A-IS** power detector has a unique design that uses two 40mm integrating spheres in series, and a photodiode detector. The light intensity on the sensor is significantly reduced, allowing measurement of powers up to 3W power, well beyond the powers measurable by standard photodiodes.

The **AUX-LED** is a current regulated LED source that provides a self-absorption correction when measuring UV-LEDs operating in the 365nm – 400nm range. Additional AUX-LED wavelengths are available on request for specific UV, visible, and IR wavelengths.

“Self-absorption in integrating sphere measurements is a well-known issue,” said Dr. Efi Rotem, Project Manager at Ophir Photonics. “The device under test disturbs the geometry and throughput of the sphere by absorbing or reflecting some of the light inside, which causes a measurement error. This problem is solved using an auxiliary lamp installed inside the sphere. Measurement of the auxiliary lamp before and after the device under test is in place, enables to correct the effect of self-absorption. Spectrometer based systems require a wide band auxiliary lamp such as a tungsten lamp to cover the entire spectral range of the spectrometer.”

When using the **3A-IS** for measuring narrowband sources with a known wavelength, the auxiliary lamp should also have the same spectral characteristics as the device under test. The **AUX-LED** replaces a wideband auxiliary lamp with a LED for a specific wavelength band such as UVLEDs at 365nm-400nm, IRLEDs at 800nm-850nm, etc.

The **3A-IS** power meter feature a “Smart Connector” interface that operates with the company’s **StarLite**, **Nova II**, and **Vega** smart displays, and **Juno** PC interface. The display is automatically configured and calibrated when plugged into one of the company’s laser measurement heads.

**Availability**
The **3A-IS Optical Power Sensor** and **AUX-LED Self-Absorption Accessory** are available now. OEM pricing available on request.

**3A-IS** and **AUX-LED** product page: [http://ow.ly/FC1vm](http://ow.ly/FC1vm)

**About Ophir Photonics**
With over 35 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 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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