FOR IMMEDIATE RELEASE

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Photon M^2-1780, Industry's First Laser Beam Profiling System to Measure Beam Quality in Real-Time

January 22, 2013 — North Logan, UT – Ophir Photonics Group, the global leader in precision laser measurement equipment and a Newport Corporation brand, today announced the newest version of the **Photon M^2-1780,** the industry's only laser beam profiling system that measures beam quality in real-time. The M^2-1780 automatically measures the M2 beam propagation ratio and all associated ISO 11146 parameters instantaneously, at video rates over 20Hz.

The **M^2-1780** is a CCD camera-based system that works with CW and pulsed lasers down to single shot rates. The CCD is sensitive to wavelengths from approximately 250nm to 1100nm. This compact systems automatically measures with NIST-traceable accuracy to better than 2%; this translates to M^2 measurements with accuracy to -5%.

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"The Photon M^2-1780 is a unique beam profiling device," stated Gary Wagner, General Manager, Ophir Photonics (U.S.). "The instrument allows instantaneous measurement of the entire beam caustic at the frame rate of the camera. This means that even an unstable beam, or one in the midst of being adjusted, can be measured with direct and immediate feedback. The end result is superior laser performance, from improving accuracy in medical aesthetics to reducing production bottlenecks."

The **M^2-1780** uses ten reflective surfaces -- provided by precisely aligned quartz wedges -- to divide the laser beam caustic into ten slices. It then simultaneously focuses them on the CCD detector. This allows the M^2 and other propagation parameters to be determined instantly in real-time. The CCD sensor is divided into ten sectors and the beam is aligned such that each beam measurement position is in one of these boxes. Once aligned, integrated software reports the parameters for each frame the CCD acquires. This makes it possible to make real-time adjustments to the laser and watch the results as direct feedback.

The **M^2-1780** works in conjunction with Photon's **FireWire BeamPro Acquisition and Analysis** software. A Microsoft® Windows based system, BeamPro measures beam spatial characteristics in accordance with ISA 13694 and M^2 parameters in accordance with ISO 11146. The software operates in two modes: M^2 Beam Propagation mode includes a live video window for displaying the 10 beam spots, and Standard mode includes all the beam analysis features that allow for closer inspection of a single beam.

Availability & Pricing

The **M^2-1780** is available now. **M^2-1780** Data Sheet:
http://www.ophiropt.com/user_files/laser/beam_profilers/M2-1780.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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