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Optimet™ Announces New Non-Contact Laser Sensor for 3D Measurements with Sub-micron Precision; Supported by Optimet LabVIEW® SDK

July 22, 2014 — Jerusalem, Israel — Optimet™ — developer of non-contact measurement sensors and scanners for complex objects with hard-to-measure geometries and a Newport Corporation brand — today announced the **ConoProbe Mark10-HD**, a very high precision non-contact laser sensor for distance and 3D measurements to sub-micron levels. The Mark10-HD is designed for 2D, 3D, surface contour, volumetric measurements for quality control, inspection, and metrology applications. Based on the company's Conoscopic Holography technology, the sensor delivers very high precision measurements down to 0.5µm with wide angular coverage to 150° in all directions. The small laser spot size provides high lateral resolution for accurate measurements of small features and small radii. The Mark10-HD can be easily integrated into customer software using the company's Smart 32 SDK or the new **LabVIEW® SDK**.

“The high precision Mark10-HD sensor is an



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ideal replacement for mechanical touch measurement probes,” stated Reuven Silverman, General Manager of Optimet Israel. “Our patented Conoscopic Holography technology gives the sensors a unique versatility not available with other measurement systems. It works on complex surfaces, materials, geometric patterns, and even shiny machined parts. Special calibration of the sensor for semi-transparent materials allows scanning of dental impressions, wax, plastic, and translucent materials.”

The **Mark10-HD** is based on Optimet’s patented Conoscopic Holography technology. The laser source and detector are collinear, so narrow bore holes, steep angles, and other complex shapes can easily be measured without the limitations of triangulating angles. Grooves and other deep concavities can be measured in a ratio of up to 1 (diameter) to 10 (depth). The sensor also features a fast measurement speed of up to 9000Hz, no averaging as each measurement counts.

The sensor also includes an autoexposure feature that increases dynamic range in real time without the need to change laser power. Objects with both bright and dark features can be inspected without changing laser power. Optional interchangeable lenses, from 16mm to 50mm, are housed in a single head, making replacement fast and simple.

The **Mark10-HD**, as well as all of Optimet's sensors, can be easily integrated into customer systems using LabVIEW. All SDK functions are available as VI blocks. Users can quickly access functions using the LabVIEW help menu. Sample LabVIEW code is included.

Availability

The **ConoProbe Mark10-HD** is available now. Data sheet: <http://optimet.com/mark10hd.php>

About Optimet

Optimet™ (Optical Metrology Ltd.), an Ophir Photonics / Newport Corporation brand, provides sophisticated, non-contact measurement sensors and scanners for distance, 2D, and 3D measurements of complex, hard-to-measure objects. Products include point sensors, line sensors, and scanners based on the company’s patented distance measurement technique called **Conoscopic Holography**; this allows measurement of narrow holes, steep angles, and other difficult shapes to sub-micron levels. Found in more than 5000 installations worldwide, the modular, customiz-

able solutions are used in a range of surface metrology applications, including in-process inspection, quality control, and reverse engineering, in the automotive, aerospace, electronics, display, steel, and dental CAD/CAM industries. For more information, visit www.optimet.com

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