



CyberOptics to Present ‘High Precision Sensing Technology for Semiconductor Inspection and Measurement’ at SEMICON West

Minneapolis, Minnesota — June 2019 — [CyberOptics® Corporation](http://www.cyberoptics.com) (NASDAQ: CYBE), a leading global developer and manufacturer of high-precision 3D sensing technology solutions, will present at SEMICON West, at the Moscone Center in San Francisco, CA on July 10 in the North Hall E, Room 20 at 11:15am. The company will also exhibit at the show in booth #5769.

Tim Skunes, VP of R&D at CyberOptics, will present the technical paper ‘High precision sensing technology for semiconductor inspection and measurement applications.’ The semiconductor packaging industry continues to advance, with new designs adding more layers, finer features and more I/O channels for higher bandwidth and lower power consumption. In addition to the increased complexity, shiny and mirror-like surfaces present inspection challenges.

For mid-end and advanced packaging inspection and measurement, CyberOptics will demonstrate the new proprietary NanoResolution Multi-Reflection Suppression (MRS) sensor technology that meticulously identifies and rejects multiple reflections caused by shiny components and mirror-like features. Effective suppression of multiple reflections is critical for highly accurate measurements.

Offering an unparalleled combination of high accuracy, high resolution and speed, MRS sensors are widely used for inspection and measurement in the SMT, semiconductor and metrology markets. The new 3- micron NanoResolution MRS sensor enables metrology grade accuracy with superior 100% 2D and 3D inspection performance for features as small as 25-micron.

Further, it is two to three times faster than alternate solutions in the marketplace. With data processing speeds in excess of 75 million 3D points per second, the NanoResolution MRS sensor delivers throughput greater than 25 wafers (300mm) per hour. 100% 2D and 3D inspection can be completed simultaneously at high speed, versus an alternate, slow method that requires two separate scans for 2D and 3D, and only a sampling of a few dies of the 25 wafers.

This best-in-class MRS sensor technology is ideally suited for the inspection of CPU sockets, IC package, solder balls and bumps, copper pillars, and other advanced packaging and mid-end semiconductor applications where high precision and speed are needed to improve yields, throughput and process control.



Solder Ball and Bump



CPU Socket



Copper Pillar



Flip Chip

For more information, visit www.cyberoptics.com.

About CyberOptics

CyberOptics Corporation (www.cyberoptics.com) is a leading global developer and manufacturer of high precision sensing technology solutions. CyberOptics’ sensors are used in SMT, semiconductor and

metrology markets to significantly improve yields and productivity. By leveraging its leading edge technologies, the company has strategically established itself as a global leader in high precision 3D sensors, allowing CyberOptics to further increase its penetration of key vertical markets. Headquartered in Minneapolis, Minnesota, CyberOptics conducts worldwide operations through its facilities in North America, Asia and Europe.

Statements regarding the company's anticipated performance are forward-looking and therefore involve risks and uncertainties, including but not limited to: market conditions in the global SMT and semiconductor capital equipment industries; the timing of orders and shipments of our products, particularly our 3D MRS-enabled AOI systems; increasing price competition and price pressure on our product sales, particularly our SMT systems; the level of orders from our OEM customers; the availability of parts required to meet customer orders; unanticipated product development challenges; the effect of world events on our sales, the majority of which are from foreign customers; rapid changes in technology in the electronics and semiconductor markets; product introductions and pricing by our competitors; the success of our 3D technology initiatives; the market acceptance of our SQ3000 3D CMM system, products for semiconductor mid-end and advanced packaging inspection applications and CyberGage360 product; costly and time consuming litigation with third parties related to intellectual property infringement; and other factors set forth in the company's filings with the Securities and Exchange Commission.

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