

NEWS RELEASE

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CyberOptics Semiconductor Introduces Vibration-Monitoring Software to Japanese Market at SEMICON, Demonstrates Metrology Application's Role in Metrics-Based Process Controls

Vibration Software Filters Out Accepted Vibration Frequencies in a Process to Identify Anomalies

CHIBA, Japan, Dec. 2, 2009 – CyberOptics Semiconductor, a subsidiary of CyberOptics Corp. (Nasdaq:CYBE), introduced its latest vibration-monitoring software to the Japanese market at [SEMICON Japan](#) and demonstrated the metrology application's role in setting metrics-based process controls at fabs.

Yukinobu Hayashi, an applications engineer at [CyberOptics Semiconductor](#), demonstrated at Makuhari Messe how engineers use the software to apply precise data on [equipment vibration](#) and acceleration to establish yield-based vibration tolerances and controls for fab processes and technicians.

“We know that at the most efficient fabs in Japan precise metrics-based controls are helping to drive margins, and they'll only become more important at the next-generation fabs being planned,” said Yukinobu Hayashi, an applications engineer at CyberOptics Semiconductor. “And, certainly, software plays a key role in how our industry collects and applies data toward metrics-based standards -- now vibration is an even greater part of the overall equation.”

Hayashi added that the de facto method for measuring the amplitude and frequency of equipment vibration -- listening for noises and visually monitoring wafer movements -- doesn't give engineers the vibration data they need to improve processes.

“Fab managers in Japan facing further automation see equipment vibration as one of their primary metrology concerns,” Hayashi said. “They know vibration is tied to equipment failure, particle contamination and drops in yield and cycle time – so they're looking for precise metrology data to manage vibration.”

Hayashi and the CyberOptics team showed how engineers identify vibration anomalies with the software by filtering out acceptable acceleration offsets -- produced by regular slow-moving equipment or high-frequency noises between 1 to 200 Hz.

Engineers use the company's latest [vibration-monitoring software](#) to set low, high or band-pass filters of equipment vibration frequencies. Engineers may, for instance, filter out vibrations of 20 Hz and below and monitor vibrations of 21 Hz and above.

CyberOptics' latest application, AVS 1.6, works with the wireless [WaferSense® Auto Vibration System \(AVS\)](#) to help engineers quickly contrast vibration by equipment, run time and technician

to set process controls. The software, for instance, allows engineers to generate an overview CSV file in Excel that contains a color-coded summary table of peak accelerations and vibration excursion across multiple data log files.

CyberOptics Semiconductor demonstrated its set of vibration-monitoring applications, VibeView™ and VibeReview™, and its entire line of [WaferSense metrology devices](#) at SEMICON Japan at booth D2-607.

For more details on the software and download instructions, visit <http://www.cyberopticssemi.com/downloads/wafersense/avs/>. Visit the company's Japanese-language site at <http://jp.cyberopticssemi.com/>.

The [WaferSense](#) family of devices includes the Airborne Particle Sensor (APS), Auto Leveling System (ALS2), Auto Teaching System (ATS) and Auto Gapping System (AGS). Each device follows the processing life of a wafer and reports real-time metrology data.

About CyberOptics Semiconductor, Inc.

CyberOptics Semiconductor develops automated products that seamlessly measure critical parameters in semiconductor fabrication processes and equipment. The company's pioneering WaferSense® line includes wireless metrology devices for vibration, leveling, gapping, teaching and sensing airborne particles in semiconductor process equipment. The company is the largest producer of [reflective wafer-mapping sensors](#) and a leading provider of [frame grabber machine vision boards](#) under its HAMA Sensors™ and Imagenation™ brands. CyberOptics Semiconductor is a subsidiary of CyberOptics Corp. (Nasdaq:CYBE), one of the world's leading providers of process yield and throughput improvement solutions for the electronic assembly and semiconductor fabrication industries. For information, visit <http://www.cyberopticssemi.com/>, e-mail CSsales@cyberoptics.com or call 800-366-9131.

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 impact of current economic conditions on the Company's performance; the timing and magnitude of any potential recovery in financial performance resulting from the global economic downturn; the need for a valuation allowance with respect to our deferred tax assets; 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 for meeting customer orders; the effect of world events on our sales, the majority of which are from foreign customers; product introductions and pricing by our competitors; the timing of and our ultimate ability to return to profitability in 2010; success of anticipated new OEM and end user opportunities and other factors set forth in the Company's filings with the Securities and Exchange Commission.

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