

For Immediate Release

CyberOptics Semiconductor Introduces WaferSense™ Auto Leveling Sensor

Wireless sensor enables fast, accurate leveling of wafer processing equipment, improves yield and throughput.

BEAVERTON, OR., September 30, 2004 -- CyberOptics Semiconductor, a subsidiary of CyberOptics Corp. (Nasdaq: CYBE), announces WaferSense™ Auto Leveling Sensor (ALS), a wireless, wafer-like device that enables quick and accurate leveling of semiconductor wafer processing and automation equipment. WaferSense ALS reduces total cost of tool ownership and eliminates time-consuming changes to wafer process equipment.

WaferSense ALS is designed to be handled like a 150mm, 200mm or 300mm wafer. Thin and lightweight, the leveling tool can be placed in cassettes, FOUPs, on end effectors, aligners, in load locks and process chambers to quickly ensure that all stations are level and coplanar. The device provides precise pitch and roll measurements – accurate to ± 0.03 degrees – that can be logged to relate coplanarity with yield and determine the ideal tool adjustments for best yields. Atmospheric and vacuum compatible, the wireless device does not outgas, and has a HEPA filter that contains any particulate matter within the sensor.

Process engineers, maintenance and field service engineers are often tasked with leveling semiconductor equipment due to tool set-up and commissioning, failures, preventative maintenance or tool reconfiguration. This process can take several hours to accomplish, causing equipment down-time and loss of revenue. Compared to traditional wired or manual methods, WaferSense ALS reduces the time it typically takes to accomplish this task to about one hour, since the user is not required to break down the equipment or defeat the vacuum chamber.

“Misaligned wafer processing equipment can take a considerable toll on a semiconductor manufacturer’s bottom line,” said Evelyn Brosnan, Vice President of Marketing at CyberOptics Semiconductor. “WaferSense ALS is designed to help engineers quickly and accurately make leveling and coplanarity adjustments so fab equipment can get online faster. Improved yield and throughput are realized by reducing scrap and enabling the production of more good die per unit time.”

WaferSense ALS allows engineers to easily set levels or take level measurements using LevelView’s real-time “level bubble” graphic feedback. Levels can be set to any reference plane within the sensor’s operating range. Users can define Go/No Go regions and log data and notes for future reference. Parametric readouts for battery life, sensor temperature and connection status are visually represented within the control panel.

The WaferSense sensor operates at least six hours without recharging. Once it is returned to its charging case it can recharge automatically. Its accompanying WaferSense link (Bluetooth® communication) plugs into a laptop's USB port for wireless communications with the sensor, and operates with Windows 98SE, 2000, ME and XP operating systems.

WaferSense Auto Leveling Sensor Key Specifications

- 150mm, 200mm and 300mm form factors
- Accuracy ± 0.03 degrees RMS
- Precision ± 0.003 degrees
- Operating range ± 4.0 degrees
- Thin (9mm) and lightweight (150mm, 110g; 200mm, 150g; 300mm, 200g)
- Bluetooth communications link
- Operates for six hours without recharging
- For use with Windows® 98SE, 2000, ME and XP operating systems

WaferSense ALS package includes the leveling sensor, USB compatible link (Bluetooth communication), LevelView™ software application, charging/storage case and carrying case.

About CyberOptics Semiconductor:

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 electronic assembly and semiconductor capital equipment companies. For more information, visit the web site at: www.CyberopticsSemi.com, e-mail CSsales@cyberoptics.com, or call 800-366-9131.

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