



## News Release

### **CyberOptics Semiconductor Introduces WaferSense™ Auto Leveling System for Reticles (ALSR) and adds Anodized Option to wafer-like WaferSense ALS**

*Both products enable fast, precision leveling of wafer processing equipment and ensure the same consistent inclination results.*

**BEAVERTON, OR - May 11, 2006** -- CyberOptics Semiconductor, a producer of precision products used for measuring critical parameters in semiconductor processes and equipment and a subsidiary of CyberOptics Corp. (Nasdaq: CYBE), announces its new WaferSense™ ALSR, a wireless auto leveling system in a reticle-like format and the release of its wafer-like WaferSense ALS in a new anodized aluminum housing.

With WaferSense ALSR engineers and technicians are now able to get real-time feed back of level conditions in reticle handling equipment such as reticle stockers. This is the first wireless tool of its kind that will allow users to “see” what the reticle “sees” and adjust set-ups accordingly to prevent scratching and particle generation at this critical point in the fab. With this capability it is possible to check and verify alignment and level of the handling systems to prevent scratching and misalignment to allow for higher die yields and longer reticle/pellicle life, while considerably speeding the checking or adjusting inclination, so the equipment can be returned to productive use faster.

CyberOptics Semiconductor also developed a new WaferSense ALS package – an anodized aluminum housing to join the family of WaferSense ALS devices that have been previously offered in electroless nickel-plated form. This device also benefits fab users by speeding level checks and adjustments and making equipment setup accurate and repeatable.

Both devices provide precise pitch and roll measurements – accurate to  $\pm 0.03$  degrees – that can be logged to relate inclination with yield and determine the ideal equipment adjustments. Vacuum compatible, the wireless devices operate at pressures as low as  $10^{-6}$  Torr.

Equipment 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 downtime and loss of revenue. Compared to traditional wired or manual methods, the WaferSense ALSR and WaferSense ALS can significantly reduce the time it takes to complete this task, as the user is not required to break down the equipment or defeat a 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 precision wireless leveling products make inclination adjustments, quick and accurate so fab equipment can get back online faster. And because they output real data, fab engineers don’t have to rely upon eyeballing or estimation. WaferSense data ensures consistent results to optimize their equipment’s setup to limit scrap, improve uptime, and harness better yields.”

WaferSense ALSR and WaferSense ALS devices allow engineers to easily take level measurements using LevelView’s real-time “bubble” graphic feedback. Levels can be set to any reference plane within the sensor’s operating range ( $\pm 4$  degrees from absolute). 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 for correct and effective use of the devices.

WaferSense leveling wafers operate more than four hours without recharging, and once returned to a charging case they recharge automatically. The 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 ALSR Key Specifications**

- Accuracy  $\pm 0.03$  degrees
- Operating range  $\pm 4.0$  degrees
- Packaging – anodized aluminum, polycarbonate
- Form factor – SEMI reticle (152.4 mm x 152.4 mm x 9 mm)
- Operating temperature – 20 degrees C to 70 degrees C
- Bluetooth communications link
- Operates 4.5 hours without recharging
- For use with Windows® 98SE, 2000, ME and XP operating systems

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

#### **WaferSense Auto Leveling Sensor Key Specifications**

- Form factors - 150mm, 200mm and 300mm
- Accuracy  $\pm 0.03$  degrees
- Operating range  $\pm 4.0$  degrees
- Packaging – available in electroless nickel plated or new anodized aluminum, polycarbonate
- Thin (9mm) and lightweight (150mm, 110g; 200mm, 135g; 300mm, 220g)
- Bluetooth communications link
- Operates 4.5 hours without recharging
- For use with Windows® 98SE, 2000, ME and XP operating systems

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

#### **About CyberOptics Semiconductor:**

CyberOptics Semiconductor designs and delivers precision products that measure critical parameters in semiconductor processes and equipment. 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](http://www.CyberopticsSemi.com), e-mail [CSsales@cyberoptics.com](mailto:CSsales@cyberoptics.com), or call 800-366-9131.

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