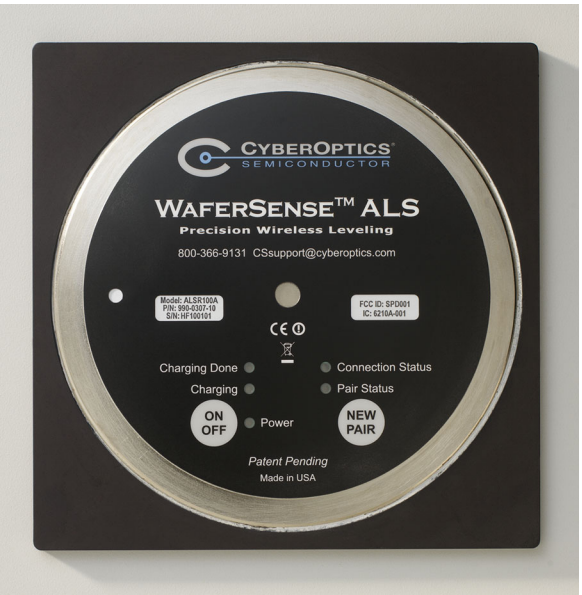
WaferSense™ ALSR

(Automatic Leveling System - Reticle Form Factor)



Precision Wireless Leveling

WaferSense™ ALSR moves through your reticle handling equipment to take critical level measurements. The reticle form factor makes it compatible with your existing automation, while its wireless communication provides real-time, accurate data to speed your tool setup and maintenance. This data can be logged to define your equipment's optimal setup and prevent scratching and particle generation at this critical point in the fab.

Wireless, reticle-like leveling tool for real-time, accurate measurements

Wireless data communication makes adjustments fast and accurate. WaferSense™ ALSR – a wireless package with the unique ability to capture inclination data – is the best solution for in-situ level checks.

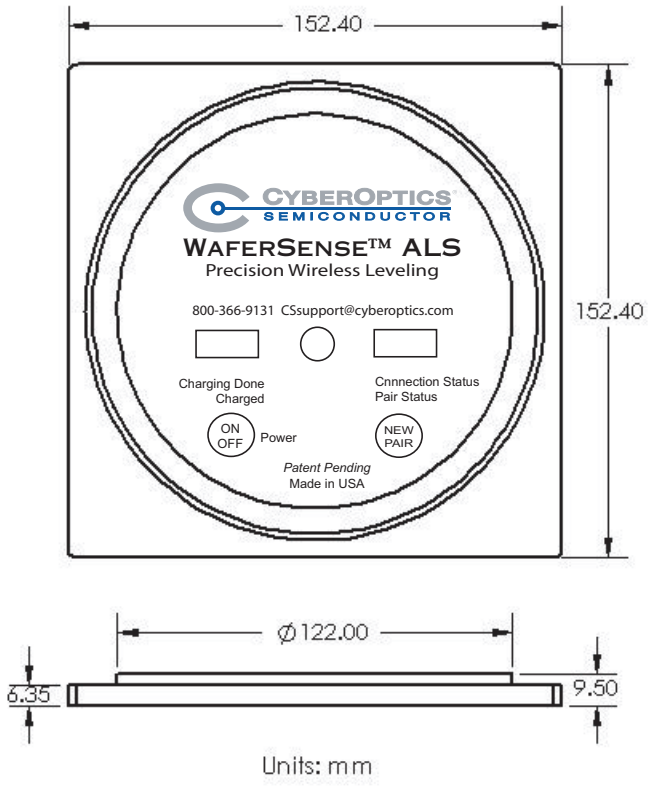
Reticle form factor facilitates access to all stations for optimal setup. The reticle-like shape allows you to get real-time feed back of level conditions in reticle handling equipment (e.g. reticle stockers). You can quickly verify alignment and inclination of the handling systems to prevent scratching and misalignment, so your equipment can be returned to productive use faster. Optimally setup equipment has higher yield and longer reticle life so you can operate more economically.

Leveling based on accurate data improves the performance of your equipment. Reviewing and storing the accurate measurements taken with ALSR (accurate to ±0.03°) is fast and easy with LevelView™, an intuitive graphical user interface included with the device. LevelView's real-time digital readout enables consistent and reliable capture of level data either referenced to Earth's gravity or to a user-defined plane.

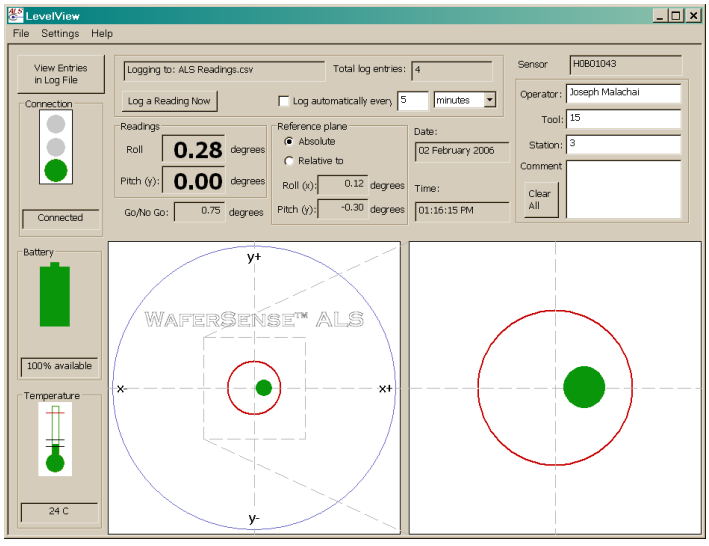
Features

- **Wireless, reticle-like package.** Handled exactly like a reticle and can be placed anywhere a reticle can.
- **Form factor.** SEMI reticle (152.4 mm x 152.4 mm), 9 mm tall.
- **Package.** Hard anodized aluminum, polycarbonate.
- **Reports tilt in two dimensions.** Pitch and roll display allows quick, accurate level adjustments during tool setup and/or maintenance.
- **Operating range.** ±4° from absolute.
- **Accuracy.** ±0.03° at optimum temperature.
- **Vacuum compatible.** The instrument can be used from atmospheric to 10^{-6} Torr.
- **Operating temperature.** 20°C – 70°C; optimum 20°C – 30°C.
- **Power.** Powered by internal battery; available battery operating time 4.5 hours.
- **Bluetooth communications.** Uses the 2.4 GHz radio frequency band to communicate with USB 1.1 communications box.
- **USB 1.1 communications box.** Connects to host system.
- **LevelView™ application software.** Graphical user interface provides the user with real-time visual feedback, and digital readout allows for more precise adjustments.
- **Data logging.** All measurement information can be saved manually or automatically. Data can be imported into Excel spreadsheet for analysis or displayed in LevelView.
- **Relative measurements.** Zero position may be set to any reference plane within the sensor's operating range for easy relative measurements.
- **Operating systems.** For use with Windows 98SE, ME, 2000 and XP operating systems.
- **Product components.** Product kit includes leveling reticle, USB communications box, and application software (LevelView™).
- **Calibration service.** Recommended annually.

Dimensions



LevelView™



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