



TIGER OPTICS TO SHOWCASE THREE NEW PRODUCTS AT SEMICON WEST

San Francisco, CA (July 11, 2017)— With three new products, Tiger Optics LLC demonstrates its abiding commitment to help Semiconductor manufacturers perfect the exacting techniques of advanced device fabrication. The company will display its HALO QRP moisture analyzer at the SEMICON West show (July 11-13) and introduce two new products to monitor for airborne molecular contaminants (AMC).

Tiger Optics' newest HALO product was developed for manufacturers using Low-temperature Epitaxy (LT-Epi). With the shift to lower and lower deposition temperatures and pressures, moisture has become the main culprit in oxide defects. The HALO QRP ("quite reduced pressure") can monitor each process step and report real-time moisture concentration to the tool control system. In this way, timely decisions can be made to prevent wafer defects and minimize tool downtime. The HALO QRP easily operates at 1 Torr or less, in comparison to the company's HALO RP, which is limited to 50 Torr.

Tiger Optics is equally focused on its customers' growing concerns with ambient molecules that lead to contamination of wafers. From its inception in 2001, Tiger has specialized in addressing the demanding challenges of semiconductor fabrication, providing optimal reliability, consistency, and space-savings. These priorities informed its development of the new T-I Max platform for continuous AMC monitoring. Each T-I Max monitor is designed to rapidly measure a specific analyte, with no cross-contamination or interference from other chemicals in the air. The T-I Max line excels in detecting less than 1 ppb or lower traces of the three most damaging molecular contaminants in cleanrooms: hydrogen chloride (HCl), hydrogen fluoride (HF), and ammonia (NH₃). As with all Tiger Optics monitors, the T-I Max utilizes the company's powerful, proven Cavity Ring-Down Spectroscopy (CW CRDS).



At SEMICON West, the Warrington, PA-based company also unveils its new state-of-the-art mobile cart to package its analyzers for cleanroom environments. The AMC Cart can easily accommodate up to four T-I Max analyzers, with two fitting comfortably in each of two standard 19” racks. Small, light, yet sturdy, the cart also provides great convenience and control with its newest feature: a top-mounted central control touchscreen for the analyzers.

“Building on our decades of work with bulk and specialty gas in the sub-fab, we are also in the cleanroom, serving the industry’s tools and their micro-environments,” said Tiger chief executive Lisa Bergson.

About Tiger Optics

Tiger Optics LLC makes laser-based gas analyzers that help advance science and industry with the world’s most powerful molecular analysis. More than 2,500 robust Tiger units work in semiconductor fabrication plants, gas manufacturers, chemical companies and environmental monitoring shelters, as well as serving over 20 national metrology institutes. Please visit www.tigeroptics.com.

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CONTACT:

Drew Thomson

Business Manager: Semiconductor & LED

Tiger Optics, LLC

dthomson@tigeroptics.com or 215-343-6600, extension 110