TIGER OPTICS OFFERS WORLD'S MOST SENSITIVE DETECTION OF MOISTURE IN AMMONIA

THE NEW ALOHA+ H_2O ANALYZER MAKES LEDS BRIGHTER

Warrington, PA (March 4th, 2016) – Tiger Optics, LLC, headquartered in Warrington, PA, announced today that it has developed a new analyzer that refines the detection of moisture in ammonia to levels down to 2 parts-per-billion (ppb), achieving five times the sensitivity of incumbent technology. The ALOHA+ H_2O analyzer will be on exhibit at the Tiger Optics booth (#1050) during the Pittcon Conference at the Georgia World Conference Center in Atlanta, from March 6th to the 10th. Notably, Dr. Florian Adler, Senior Scientist, will present *Cavity Ring-Down Spectroscopy Analyzer for Trace Moisture Detection in Ultra-Pure Ammonia* in the Specialty Gas Analysis session at 1:30 pm on Tuesday, March 8th.

Just five years ago, Tiger introduced its original ALOHA H_2O analyzer for the fast-growing High Brightness Light Emitting Diode (HB LED) market. With that, Tiger met the industry's need to detect moisture in ammonia at levels to 10 ppb, as higher concentrations impair the electroluminescent intensity of HB LEDs and diminish process yields. This directly affects profit margins as brightness determines whether an LED finds use in a flat screen TV or is relegated to the nose of a child's toy.

With the new ALOHA+ H_2O analyzer, Tiger Optics continues to address the evermore exacting needs of HB LED makers, tool manufacturers, purifier makers and the gas companies that supply ammonia, the favored source of nitrogen for the production of Gallium Nitride (GaN) semiconductor wafers, a core component of HB LEDs.

The compact ALOHA+ H_2O analyzer fits two to a 19'' rack and features Tiger's proven, powerful laser-based technology. Often used in remote locations, where skilled technicians and support services are hard to come by, Tiger's products require little maintenance and are easy to install and to operate. As users attest, the analyzers offer a rare combination of sensitivity and robustness.

Founded in 2001, the Pennsylvania-based company has earned its stellar reputation for detecting trace levels of moisture in bulk and specialty gases. For ultra-high purity ammonia analysis, hundreds of Tiger units have been installed around the world. "When we entered the moisture in ammonia analysis market back in 2004, we did so with an analyzer that had the lowest detection limit available. Since then, the 'Lowest Detection Limit' (LDL) is a title that we have maintained," said Lisa Bergson, Tiger Optics' founder and chief executive. "We've developed close relationships with the leading gas manufacturers, purifier makers and end-users of ammonia. When they told us that they needed an analyzer that had limits lower than even our best analyzer, we developed the ALOHA+ H_2O analyzer and reduced the LDL to an astonishingly low level of 2 ppb."

About Tiger Optics

Founded in 2001, Tiger Optics offers over 60 instruments for high-precision gas analysis, as well as atmospheric and environmental monitoring. Based upon powerful, proven Cavity Ring-Down Spectroscopy (CRDS), Tiger products combine outstanding detection capabilities, speed of response, dynamic range, and accuracy, along with continuous auto-calibration, ease-of-use, and freedom from

moving parts and consumables. From the cleanest of semiconductor fabs to the harshest coal-fired stacks, Tiger's gas analyzers and air monitors improve your yields, reduce costs, and ease the burdens of regulatory compliance.

We are also the first ISO 9001:2000 accredited CRDS company, known for our quality, consistency and manufacturing excellence, as well as excellent global support. Please visit us at www.tigeroptics.com.

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