



T-I Max

Next-Generation AMC Monitors

GASES & CHEMICALS

CEMS

ENERGY

SEMI & HB LED

ATMOSPHERIC

LAB & LIFE SCIENCE

Based on Tiger Optics' new global platform, the T-I Max series monitors for Airborne Molecular Contaminants (AMCs) deliver unprecedented performance, including:

- Sensitive, absolute measurement technique, using Cavity Ring-Down Spectroscopy (CRDS)
- Dramatically improved speed of response
- Parts-per-trillion detection limits
- Drift-free, with calibration traceable to the world's leading reference labs
- Lowest Cost of Ownership and maintenance

Next-Generation Trace Gas Analyzers for Detection & Continuous Monitoring of Airborne Molecular Contaminants in Semiconductor Cleanrooms

You can spend a long time "looking" for Airborne Molecular Contaminants (AMCs) when the catastrophic product performance or yield loss is discovered at your device final test stage; or you can deploy Tiger Optics' T-I Max series analyzers to locate and to monitor these invisible defect generators, commonly found lurking in and around equipment, personnel, wafer carriers and cleanroom bays.

In today's advanced semiconductor processing, the residual gases, vapors and chemicals emanating from the various materials, accelerated processing operations, and substrate storage and transport have become a critical concern. So much so

that the International Technology Roadmap for Semiconductors (ITRS) now highlights AMC contamination as a key technical challenge in achieving & sustaining low defect rates on devices.

With a particular focus on the major contributors to the "chemical contamination" element of AMCs, the T-I Max series, based on Tiger's new analyzer platform, can detect and continuously monitor HF, HCl, and NH₃ with an unprecedented combination of sensitivity, selectivity, and speed of response.

Tiger Optics' GO-cart for AMCs adds additional flexibility by providing a mobile platform that can be moved quickly to different critical monitoring points.

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Tiger Optics GO-cart™

Surveying different micro-environments in a fab is now fast and easy with Tiger Optics' mobile **GO-cart**. It can be equipped with any combination of **T-I Max** units to monitor simultaneously for the most critical contaminants in cleanroom air.

The GO-cart is easy to move around the fab and comes with the following features:

- Space for up to three **T-I Max** analyzers with low-power, fanless vacuum pumps
- Top-mounted central control touchscreen
- Integrated back-up power supply (optional)
- Conductive ESD paint (optional)



Annual **Performance Verification**

- Low-cost and easy remote verification process, with no need to return the analyzer to the factory
- Annual verification by Tiger Optics ensures that your analyzer continues to meet its original specifications
- Up-to-date Verification Certificate to comply with your QA/QC standards



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