

TRACER 1000™

World's 1st Mass Spectrometer Trace Detector



The Value of Mass Spectrometry

Mass Spectrometry - Has Arrived

- ▶ Security technology customers have been requesting trace detection mass spectrometers for over a decade.

Mass Spectrometry - Game Changer

- ▶ Mass Spectrometry is recognized throughout the world as the laboratory gold standard for chemical detection and identification.
- ▶ The National Institute of Standards and Technology (NIST) uses mass spectrometry to identify and catalog over 267,000 chemical compounds.
- ▶ Mass Spectrometry used for trace detection works by creating a unique spectrum for each sample and then matching to a library of known threats.
- ▶ Mass Spectrometry is best known for its ultra-high accuracy and near zero False Alarm Rate (FAR).

Unlimited Library - Maximum Safety

- ▶ Mass Spectrometers can continually update to a virtually unlimited threat library to identify thousands of explosives, narcotics and CWAs.
- ▶ Mass Spectrometry can also have an extensive library of known confusants or masking agents reducing false alarms even lower.
- ▶ The Mass Spectrometer's library can be updated instantly from either a USB flash drive or via a secure VPN connection.
- ▶ Mass Spectrometer detection capabilities and false alarms are not compromised with the addition of each new threat compound.

Near Zero False Alarm Rate - Expensive Problem - Solved

- ▶ The low FARs greatly improve passenger flow and safety.
- ▶ The low FARs eliminate the expensive secondary screening process now costing hundreds of millions each year.
- ▶ The low FARs convert unnecessarily delayed passengers into new retail buyers earning airports hundreds of millions in lost revenue.
- ▶ The low FARs relieve the unnecessary frustrations for passengers and security personnel.

100% Up-time

- ▶ Mass Spectrometry technology has an excellent up-time record and does not require constant recalibration, long bakeout periods and redundant back-up systems.