



next generation detection

OwlSens-C - Advanced Chemical Detector

Portable and Fixed Site Chemical Detection

OwlSens-C is the first of its kind next generation broadband Chemical Detector. Capable of detecting more hazardous chemicals at ultra-trace levels than any other single detector, OwlSens-C's key features include -



- **SENSITIVITY** – detection limits typically below NIOSH's IDLH & 10-minute critical MEL concentration specifications
- **SELECTIVITY** – exceptional ability to resolve similar compounds
- **RAPID RESPONSE** – < 30 second detection; 60 second identification
- **REPROGRAMMABILITY**– Dynamic software updates
- **VERSATILITY** – capability against most gaseous/volatile chemical hazards listed in NIOSH 2010-168C as well as conventional Chemical Warfare Agents and New Generation Threats



Example Deployments

- Battlefield
- Shipboard
- Site Monitoring
- Decontamination
- Site Evaluation
- Reconnaissance

Broadband Detection

- Nerve (G & V class)
- Blister (HD, HN_x, L)
- Emerging Threats
- Blood (CK, AC)
- Chocking (CL, CG)
- Toxic Industrial Chemicals

CONTACT OWLSTONE

Our technical team is exceptionally well prepared to assist with your chemical detection requirements, whether commonplace or specific to your facility.

US Office

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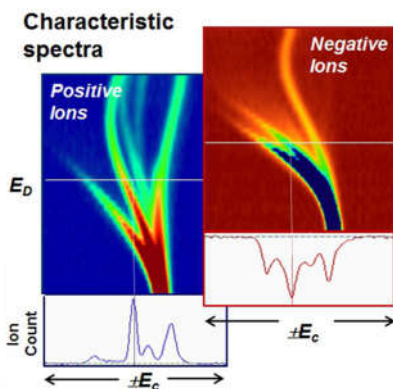
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The Technology

OwlSens-C utilizes a highly-advanced variant of Ion Mobility Spectrometry (IMS). This new method of ultra-fast chemical separation exploits the unique thermal properties of an ionized chemical sample, in a rapidly modulated high electric field. Every chemical has a unique spectral “finger-print”, which enables real-time identification and quantification from an on-board database.

The technology delivers an analytical window greater than double that of other Ion Mobility based separation systems - allowing greatly improved chemical separation and identification. Multi-dimensional datasets are generated and automatically analyzed, on single-second timescales, resulting in faster, more accurate, low-false-alarm rate detection and quantification.

Standard Alarm Levels

- Nerve Agents: GA, GB, GD, GF & VX at $< 0.1\text{mg.m}^{-3}$
- Blister Agents: HD, HN3 & L at $< 1.0\text{mg.m}^{-3}$
- Blood Agents at $< 20\text{mg.m}^{-3}$
- Chocking Agents $< 10\text{mg.m}^{-3}$
- TICs – Fl_2 , HCl, HF, H_2S , NO_2 , PCl_3 , SO_2 at $< 50\text{mg.m}^{-3}$
- Additional TICs Available



Delivering Chemical Detection Capability to the 21st Century Warfighter

Rapid airborne threat detection is a critical requirement in all army, navy and air force operations. In addition to detecting conventional Chemical Warfare Agents (CWAs) OwlSensT provides capability against a wide range of high threat Toxic Industrial Chemicals (TICs) at concentrations well below NIOSH's IDLH / 10-minute critical MEL specifications and is New Generation Threat enabled. Talk to us today to discuss your specific detection requirements.

TECHNICAL SPECIFICATION

Technology	Rapid Thermal Modulation Ion Spectrometry
Ionization Source	Patent-pending non-radioactive source
Dimensions	15.7 × 23.6 × 8.3" = 40 × 21 × 21cm
Weight	12 lbs = 5kg
Mounting	Wall mount (bracket included)
Housing	Rust-resistant stainless steel
Ambient Temperature	-30 to 40°C
Operating Humidity	0 to 95% RH (non-condensing)
Scrubber life	3 months
Power Requirements	13A, 120-240V AC, 50/60Hz
Comms interface	TCP/IP (Ethernet)
Dry contacts relay	3A, 240V AC (50-60Hz) / 48V DC
Electrical compliance	EN61010/UL61010, EN61326 + EN61000

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