



NEXSENSE C

RAPID, ROBUST AND RELIABLE DETECTION AND IDENTIFICATION OF CHEMICAL AGENTS

We are one of Europe's leading sensor solutions companies and act as the UK's primary supplier of electronic systems for military platforms in the air, at sea and on land.

Working with key technology partners, our company has developed the NEXSENSE product range. NEXSENSE products capture cutting edge technologies in easy to operate, ruggedised systems that enable the rapid, robust and reliable identification of CBE threats.

NEXSENSE C is a man-portable chemical detection and identification system that enables rapid and robust on-scene analysis of chemical agents from airborne samples. Utilising cutting edge Field Asymmetric Ion Mobility Spectrometry (FAIMS) technology combined with intelligent data processing and advanced algorithms, NEXSENSE C can conduct full atmospheric analysis with automatic agent recognition.

UNPARALLELED SENSITIVITY

NEXSENSE C utilises leading edge FAIMS technology, which can detect chemical agents in concentrations reaching parts per billion.

REDUCED FALSE ALARM RATES

NEXSENSE C offers enhanced selectivity enabling discrimination between different chemical compounds. This ensures reliable performance when faced with interferents and minimal anomalous 'false positive' alerts.

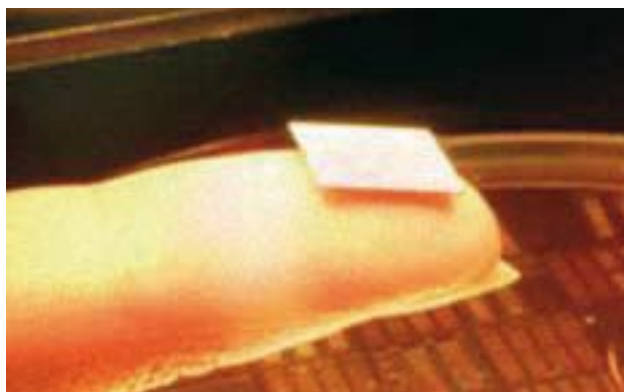
COMPACT SYSTEM DURABLE IN THE HARSHTEST OPERATIONAL ENVIRONMENTS

NEXSENSE C offers highly sensitive detection and identification technologies within a compact lightweight casing that is resilient to the harshest of environments. In addition to meeting military standard ranges, NEXSENSE C has been designed for straightforward decontamination.

KEY BENEFITS

- Ruggedised man-portable system
- Detection and identification on-site
- Rapid response: complete test procedure <10 seconds
- Low incidence of false alarms
- Reconfigurable threat library
- Ambient sampling
- Test procedure requires minimal operator training
- Reliable intelligence, provided in a simple and easily understandable format
- Designed for trouble-free decontamination.

NEXSENSE C Rapid, robust and reliable detection and identification of chemical agents



NEXSENSE C utilises the Owlstone Nanotech detector; a miniaturised FAIMS sensor that is lighter, smaller and more power efficient than other available sensors

TECHNICAL SPECIFICATIONS

Weight

<7kg

Size

32 x 25 x 20 cm

Power

Internal rechargeable batteries, >3 hrs field use
Mains power

Technology

Employs FAIMS technology
Simultaneous positive and negative ion detection of a range of CW agents and TICs

Operational Time

<10 seconds to complete full analysis procedure

Sampling

Standalone ambient operation

Operational Capabilities

Operational in extreme weather and temperatures

Meets military standard ranges

Water resistant

Ruggedised

Wireless capability

Bluetooth enabled

Indoor and outdoor capability.

User Interface

Highly reliable human machine interface

Simple, step-by-step, operating instructions

Microsoft Windows operating system is used on lightweight portable devices to allow remote operation, e.g. PDA.

Decontamination

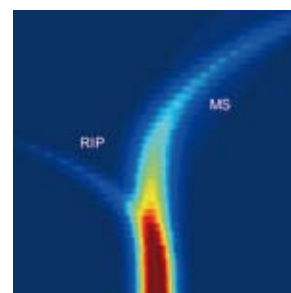
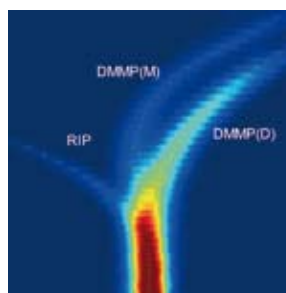
This standalone system is housed within a sealed compartment to ensure a simple decontamination procedure.

Mounting options

Designed to be easily mountable on a variety of platforms.



NEXSENSE C is a standalone system that will conclusively analyse air vapour samples with minimal operator training. It can be easily operated in full PPE kit and provides results in a simple format.



We have developed advanced algorithms that improve the sensor's discrimination capabilities through enhanced data processing and pattern recognition. This combination of Owlstone Nanotech's sophisticated detector and our superior algorithms creates a highly sensitive and reliable discrimination system, NEXSENSE C.