



NexSense C

Introduction

SELEX Galileo has developed a first-of-type compact chemical detector, capable of detecting and identifying all Toxic Industrial Chemicals (TICs) and Chemical Warfare Agents (CWAs). The only chemical detector of its kind in the marketplace, NexSense C is Wi-Fi and Bluetooth enabled and can be immediately connected to an existing network for remote monitoring.

Product Capability

The man-portable NexSense C has been extensively tested by a number of key UK organisations, from the UK Home Office, DSTL at Porton Down and TNO in the Netherlands to the Fire Brigade Institute of North Rhein-Westphalia in Germany. NexSense C is due to commence a series of important evaluations across the USA in early 2011.

The unique differentiator which sets NexSense C apart from other chemical sensing systems in the marketplace is the accuracy and depth of the information which it is able to draw from its environment. This extra data will enable blue light response services to respond appropriately to emerging crises, minimising their impact on the local community. This capability has been developed using sophisticated data processing techniques developed over many years, extracting information from radar and electro-optic signals.

Most chemical detectors are based on Ion Mobility Spectrometry (IMS) technology. NexSense C is the only fielded product to use Ultra High Frequency Field Asymmetric Ion Mobility Spectrometry (UHFAIMS). This technology allows significantly increased sensitivity and reduced false alarm rate compared with existing available devices.

Recent independent testing has identified that it is substantially more sensitive than competing products at measuring key CWAs down to fractions of their Immediately Dangerous to Life & Health (IDLH) levels.

Future Developments

During early 2011 the first development NexSense C HH (hand held) will be available for demonstration. This will include a similar simple-yet-comprehensive operator interface and threat database that can be easily extended.

Beyond the introduction of NexSense C HH, initial work is being carried out to add an explosive detection capability.

Conclusion

SELEX Galileo's NexSense C is the only fielded chemical detector to use the UHFAIMS detection capability with its associated high sensitivity and low false alarm rate.

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