

kromek[¢] Static Node

kromek* Static Node

Static Node

A discreet way to monitor radiation levels in a fixed location

Connected to the SIGMA network



www.kromek.com

Static Node

Protecting the people and infrastructure of our cities, transport hubs and ports

The Static Node provides continuous radiation monitoring of national infrastructure at a fixed location and is designed to be used in conjunction with the SIGMA platform to provide comprehensive monitoring of radioactive activity. It is discreet, small and highly sensitive to any potential threats.



- High-performance Detection Utilises Kromek's proven CsI and non-He³ detection platforms
- Uninterruptible Power Source
 Seven day battery backup if power is lost
- Embedded PC

No ancillary equipment required to transmit data back to the central network

Unattended

Fixed to infrastructure and transmits to the SIGMA network unaided

Works When Unconnected

Seven day data storage if connectivity is lost

Secure

No user interface, enclosed electronics prevents tampering.Secure emergency plug-in comms

Connectivity

Both wired and cellular connectivity options available

Discreet

Small form factor allows device to be mounted anywhere

Protecting transport hubs and ports

When thousands of people move through a single location, how can we ensure that they are not at risk from a radiation threat?

Everyone cannot be scanned individually, as this is hugely expensive, time consuming and frightening.

Static Node scans inconspicuously in the background, with data sent to a central hub for immediate and decisive decision making.



Static Node



SIGMA Platform

0.25

SIGMA Network

Static Nodes connect to the SIGMA network. Using SIGMA's DTECT web-based user interface, each unit can be monitored in real-time on a map from a remote and centralized location. The location of all units is displayed, and any threats can be identified. Isotope identification, as well as any associated spectral data and other information, is sent to the network instantly. This instant transfer of data allows decisions to be made quickly and efficiently when every moment matters.

Superior Detection and Identification

The Static Node houses Kromek's proven and tested CsI(TI) gamma ray spectrometer and a non-He³ compact thermal neutron scintillator detector. This combination of both gamma and neutron detection enhances the Static Node's ability when identifying both special nuclear material and low gamma emitters. The spectroscopic capability of the Static Node allows instant identification using the SIGMA Network, but also means that associated spectra are sent to the network automatically for secondary adjudication.

Creating the ultimate field of detection

The SIGMA Program

The SIGMA Network, developed as a US DHS/DARPA program, is a comprehensive network providing:

- Cost-effective, continuous radiation monitoring
- Networkable systems covering large cities or regions
- Real-time mapping with increased sensitivity

It has been successfully deployed in cities and with security forces in varying operations: urban, tactical and eventbased scenarios.

Optimal coverage can be obtained using fixed location Static Nodes with Kromek's handheld portable detectors. Networked mobile detectors capable of collectively pooling data support information gained from static detectors and significantly extend real-time coverage of radioactive threats or the illicit trafficking of radioactive materials. This means all areas are covered. Large volume in-land and in-vehicle detectors are also available.





Using SIGMA's DTECT web-based user interface, each unit can be monitored in real-time on a map from a remote and centralized location. The location of all units is displayed, and any threats can be identified.





Kromek Group plc UK NETPark Thomas Wright Way Sedgefield County Durham TS21 3FD | +44 (0) 1740 626060 USA 143 Zehner School Road Zelienople PA 16063 | +1 724 352 5288 sales@kromek.com | www.kromek.com