

Model 940 Radioactive Isotope Identification Device Surveillance and Measurement (SAM)



emergency response • homeland security • hazmat • cargo monitoring • health physics • emergency response

homeland security • hazmat • cargo monitoring

Features:

- Completely portable isotope identification system in one hand
- Identification of multiple radionuclides concurrently within one second
- Special Nuclear Material (SNM) detection, enhanced with integrated neutron detection option
- Spectra and user settings transfer easily to PC through CompactFlash card, Ethernet, or USB adapter
- Operates for over 6 hours on standard AA batteries

Applications:

Emergency Response, Law Enforcement, Homeland Security, Undercover Surveillance, HAZMAT, Industrial, Medical, Radiation Safety, Passenger and Freight Monitoring, Non-proliferation Enforcement, Health Physics, Environmental Waste Monitoring, Unattended/Remote Monitoring



The SAM 940

New radioactive isotope identification instruments from Berkeley Nucleonics Corporation (BNC) offer specialized options for use in the health physics, law enforcement and homeland security industries. The SAM Defender (standard resolution) and SAM Resolver (high resolution) are portable radiation identification systems developed to provide simple operation for the first responder who needs to react quickly, as well as detailed analyses for the sophisticated technical user. Several modes of operation give all users the information they need right at their fingertips.

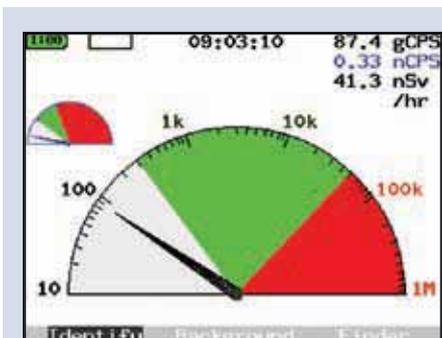
Detector Options:

The SAM systems offer several detector choices:

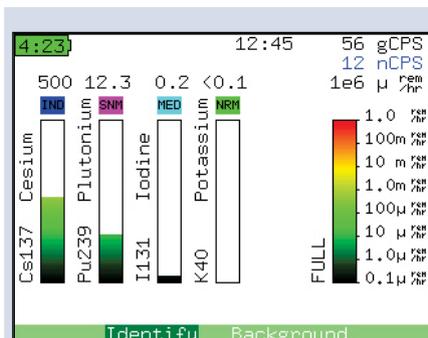
Sodium Iodide: For isotope identification, good efficiency and optimum price/performance, the Sodium Iodide option (NaI) gives users fast and accurate identification at an excellent value. The NaI option utilizes advanced algorithms to discriminate peaks and identify sources in real time.

Lanthanum Bromide: For the professional spectroscopist, an optional LaBr detector is available for the SAM system. This new material offers the end users a typical resolution of 2.8% at 662 KeV and ensures the spectroscopic reports have unparalleled analytical capability.

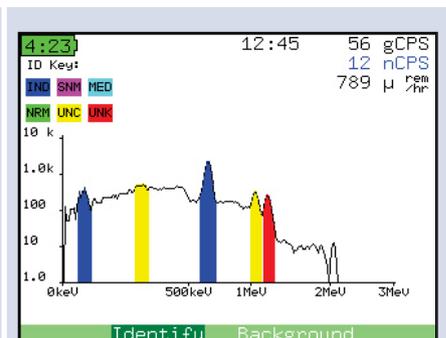
Lithium: For Sensitive Nuclear Material detection or safeguarding of WGPu, the Lithium (⁶Li) option for the SAM system allows users to alarm on neutrons and perform a variety of coincidence checks, comparing peak analysis with the presence of neutron radiation.



Quickly determines location of materials and where to collect data for further analysis.



Continuously displays detected isotopes, class, and dose rate for multiple source identification.



Color coded peaks depict source category, intensity, and stored data.

First Isotope Identifier RIID Designed After ANSI 42.34

For years, the Surveillance and Measurement System (SAM) family of instruments has been synonymous with high overall performance in a portable isotope identifier. The earliest SAM model was the first real-time radiation area monitor capable of isotope identification in one second. A later model was the first device to give field operators the ability to identify sources on the move without having to stop and hold position while the instrument collected data. BNC continues its legacy of technical progression with the release of the Model 940 designed in response to ANSI 42.34 (American National Standard Performance Criteria for Hand-held Instruments for the Detection and Identification of Radionuclides).



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