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ANSI Compliant Neutron Detection in Field Portable Analyzer

Berkeley Nucleonics announces the latest in detector integration with a handheld Isotope Identifier that uses a LaBr gamma detector and a ^3He neutron detector. The new detector module offers ANSI N42.34 compliant neutron detection in a compact package designed for single-hand operation. What's more, it is UN2910 exempt, so special shipping and handling documentation is not necessary.

The ^3He detector module provides reliable coincidence measurements for identification of SNM materials. The size, atmospheric pressure of the gas, moderation and electronics meet UN2910 exempt levels, eliminating the timer-consuming document preparation associated with shipping larger ^3He detectors under US DOT hazardous materials regulations.

Berkeley Nucleonics has delivered ^3He neutron detectors in its flagship Model 935 SAM Isotope Identifiers since 1997. This ^3He detector module for the Model 940 SAM Defender, brings added convenience and capability to radionuclide isotope identification.



“We’ve made exciting advances in the ^3He module”, comments David Brown, Company President. “We chose the IEEE Nuclear Science Symposium as an appropriate venue to introduce the innovative package.”

The company is unveiling the new add-on detector module at the IEEE Nuclear Science Symposium in Orlando, Florida. The ^3He detector is sold as an option to the Model 940 for neutron detection. The detector also includes several options for gamma detection. With gamma and neutron detection, user have the ability to look for materials based on the coincidence of both emissions. Applications also branch into field study, safeguards inspections and treaty compliance. Inspectors are often equipped with numerous devices, so combining a gamma and neutron detector in one handheld system potentially eliminates the need for additional stand-alone detectors.

[About the Company](#)

Berkeley Nucleonics was founded in 1963 as a spin-off from the Lawrence Berkeley National Laboratory. The company has pioneered the development of nuclear electronics for almost 50 years, routinely introducing new technologies through conferences, training seminars and its staff of application engineers. After launching isotope identification technologies in 1995, the company developed an accredited training academy to address the growing need for seminars that cover the practical use of spectroscopic technologies. The company has been recognized by numerous Federal Agencies, including the FBI, the DoD and the DoE. Recent awards include the Cahners Top Ten Products of the Year and a commendation from California Governor Arnold Schwarzenegger’s office. The company headquarters is just north of Berkeley, California with sales and service offices worldwide.

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