



BNC

# An Analysis Tool for Health Physicists

▼ **Health Physicists Save Time by a factor of 10**



◆ BNC has a new technology that gives Health Physicists greater capability. Many screening and surveying activities are slowed down due to long acquisition and analysis times. Characterization of a site can be slow and tedious. Now, with BNC's SAM Series, these tasks are performed in 10%\* of the usual time.

◆ Unique capabilities that provide for fast, efficient and accurate screening include the ability to operate in high background environments. BNC's systems can strip and reset the background every 1-2 seconds, allowing users to perform analysis in a 'Time-Slice' manner. Each time interval is quantified on the fly. Users can obtain full and isotope-specific dose rate with mixed sources.



Model 905 Benchtop

◆ During routine screening of people for contamination, a Health Physicist can quickly identify isotopes of high concern, and disregard non-threatening activity. Identification of hot spots is easy, and done in real-time. Time consuming whole-body counting exercises can often be avoided using a simple SAM system.



Model 935 Portable

◆ Our interface is well developed to meet both HP's daily needs and perform remarkably when employed in emergency response situations. Because of the sophistication of the MCA, the seasoned Health Physicist will have all the reporting and algorithm capabilities. Analysis of shipments and receivables, small article, portal and other routine requirements are performed faster by an order of magnitude. An Easy Mode and Detail Mode offer the non-technical user instant reporting and emergency response capability.

## Optional Neutron Detector

◆ A Health Physicist is often required to perform analysis when there may be potential shielding of hot materials. Environmental waste monitoring may have a high degree of uncertainty. For example, SNM (Sensitive Nuclear Material) may be shielded in containers, vehicles, scrap metal, or other various enclosures. For these applications, BNC's versatile SAM Series offer an optional moderated four inch <sup>3</sup>He neutron detector. This device yields a thermal neutron sensitivity of 12.7 cps/nv.

\* 0.5 second acquisition, analysis and ID in one second



▼ **Full and isotope-specific dose rate with mixed sources**

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