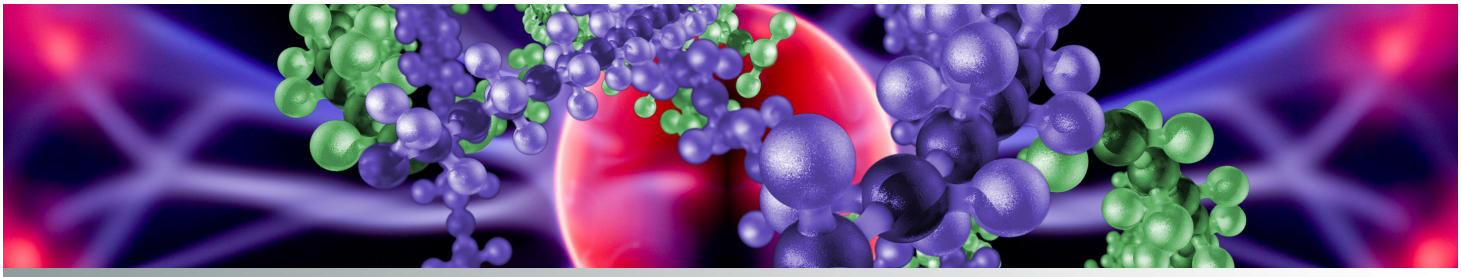
Collimating Adaptor for ORTEC High Purity Germanium Detective



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Technology Summary

This invention builds on the technology in the well-known ORTEC Detective family of hand-held radiation detecting devices, providing additional shielding from background radiation and repeatability of measurement geometry for improved measurement in the field.

The device can be used to make accurate spectral measurements of both small and large bulk sources of radioactivity such as building structures, foundations, vessels, large equipment, chimneys, small core samples, and small containers of loose material. In addition, its configuration can be changed to measure extended sources of radiation. Based on off-the-shelf technology, the invention provides a low cost, portable, robust device that facilitates quick adaptation to the in-field needs of sample measurement. It is simple in design and function, easy to set up, and can be left unattended for long-dwell measurements, thus freeing the operator for other work. The current version has been configured to work with ORTEC Detective devices; however, it can easily be modified to fit various other detectors having the same or similar detecting capability and/or structure.

Patent

Ronald Jake Livesay. *Collimating Adaptor Kit for ORTEC Detective,* U.S. Patent Application 61/537,634, filed September 22, 2011.

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