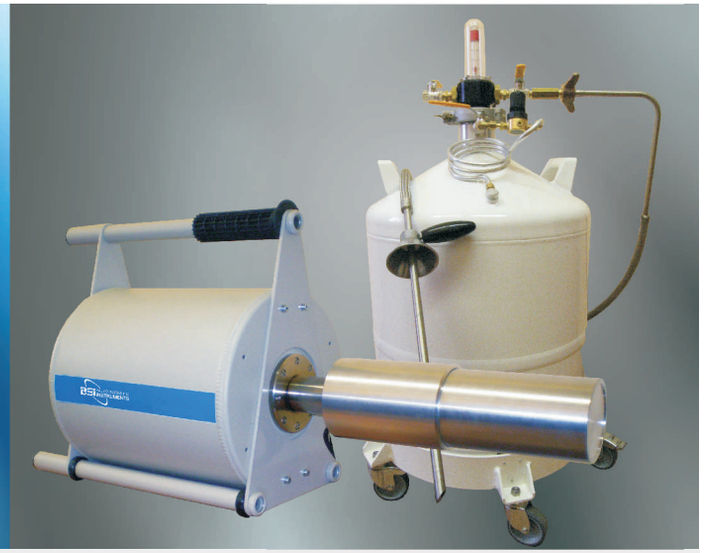


# Portable HPGe Gamma-ray Detectors

(Liquid Nitrogen cooled)

## Application

Detection, accumulation and processing of gamma spectra in field and industry conditions were small dimensions and weight of spectrometer are important.

## Complete set (standard)

- HPGe coaxial detector
- Preamplifier with cooled input stage
- Dewar vessel
- Cable set

## Features

- Light weight aluminum construction
- Detection of radiation in any spatial orientation
- Compact low-consuming electronics
- Available with HPGe Coaxial or Planar detector
- Transportation and storage without cooling
- Input window materials: Aluminum, Beryllium or Carbon-fiber
- Dewar vessels available with different volumes from 1l to 7l

## Accessories (optional)

- Multichannel Analyzer (Digital or Analog-Digital)
- Analytical Software packages:
  - quantitative and qualitative analysis
  - γ-spectra modeling & efficiency registration calculation for complex geometry objects
  - extended radionuclide library
- Hand-cart for Multichannel Analyzer, battery, transformer, etc.
- Additional batteries
- Recharger
- Collimators
- Transport case
- Tripod
- Liquid nitrogen storage and filling system
- Liquid nitrogen sensor and monitor
- Cable set extension

Baltic Scientific Instruments
Ganibu Dambis 26
Riga, LV - 1005
Latvia

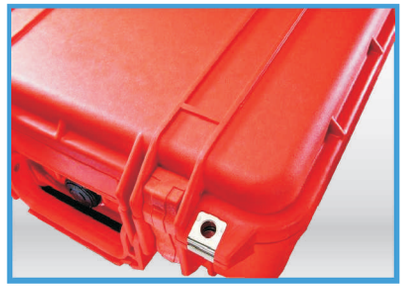
Phone: (+371) 67383947
Fax: (+371) 67382620
Email: sales@bsi.lv
www.bsi.lv

# Specification

| Parameter | Value |
|---|---|
| Energy range, keV | |
| Standard | 40 - 10000 |
| Extended | 3 - 10000 |
| HPGe detector efficiency, % | 30* |
| Energy resolution for 30% efficiency detector, keV | |
| at energy | |
| 122 keV | 0.875 |
| 1.33 MeV | 1.85 |
| Peak to Compton ration | 58:1 |
| Time of cooling after filling with liquid nitrogen, h | 4 - 8** |
| Time of continuous operation, days | 1 - 5** |
| Al end cup thickness, mm | 0.7 |
| Weight of detector with empty Dewar vessel, kg | 5 - 12** |
| Preamplifier cables have standard NIM connectors: POWER DC ±12V – D-Sub-9pin, HV – SHV, OUT – BNC, TEST – BNC | |

* HPGe Detectors are available with efficiency from 10% to 100%

** Depending on Dewar vessel volume and/or detector efficiency

## Accessories