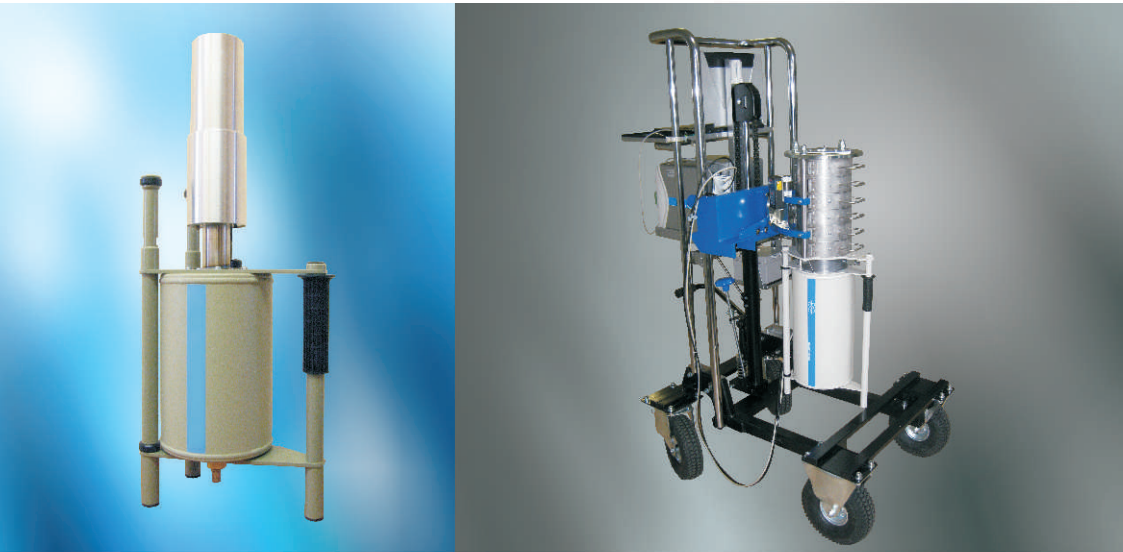


# Specification

Parameter	Value
Energy range, keV	40 - 3000
HPGe detector efficiency, %	30*
Energy resolution for 30% efficiency detector, keV at energy	
122 keV	0.8
1.33 MeV	1.8
Peak to Compton ration	58:1
Time of cooling after filling with liquid nitrogen, h	4
Time of continuous operation (depending on Dewar vessel volume), h	24, 48, 96
Weight of detector with Dewar vessel, kg	7
1.5l	11
3.0l	15
5.0l	

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



## HPGe Mobile Spectrometer for Field Application

(Liquid Nitrogen cooled)

### Application

Registration of Gamma and X-ray spectra for the radiological control of environmental objects, industrial and agricultural products, objects and plants of nuclear energetics and enterprises dealing with the storage and processing of radioactive wastes

### Features

- Optimal size and weight for mobile application
- Placed on a hand trolley with lead shield set with collimators
- Minimal time to reach the proper temperature mode for the detector after filling with liquid nitrogen
- Simplicity of operating and servicing the device
- Laser measuring point indication
- 360° orientation
- Highest detector position is up to 1.3m

### Complete set

- HPGe semiconductor detector for Gamma spectroscopy with planar or coaxial detector with preamplifier in portable cryostat
- Digital or Analog-digital spectrometric device
- Analytical software package
- Lead shielding with collimators
- Hand trolley and transport case
- Laser range indicator
- Accessories: funnel for liquid nitrogen filling, recharger, etc.
- Cable pack and documentation

Specially developed software package allows simulation of gamma spectra and spectrometer registration efficiency calculation for complex shape objects using Monte-Carlo method.

Baltic Scientific Instruments  
 Ganību Dambis 26  
 P.O. box 33, Rīga  
 LV - 1005, Latvia

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

