



HPGe Mobile Spectrometer WAM Mobile

(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
- Multichannel Analyzer (Digital or Analog-Digital)
- 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
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**
Time of continuous operation, days	1 - 5**
Al end cup thickness, mm	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



Robust and waterproof protective case

