BALTIC SCIENTIFIC INSTRUMENTS


# P-type HPGe Coaxial Detectors GCD

(Liquid Nitrogen cooled)

## Application

Detection of Gamma-rays in nuclear energetics and environmental control, in industry and scientific research, in medicine and other applications.

## Complete set

- HPGe coaxial detector
- Preamplifier with cooled input stage
- Different cryostat modifications are available

## Accessories

- Digital or Analog-Digital Multichannel Analyzer
- Analytical software for quantitative and qualitative analysis
- Liquid nitrogen storage and filling system

## Features

- 10% - 160% efficient HPGe coaxial detectors are available
- Energy range from 40 keV to 10 MeV with P-type HP(Ge) Detector
- Well type detectors are available
- High energy rate up to 200000 MeV/s
- Excellent peak symmetry
- Aluminum, Beryllium or Carbon-fiber input window
- Detection of radiation in any spatial orientation depending on cryostat modification
- Manufacture in variable cryostat design is possible
- HV supply protection if detector is warm
- High count rate indicator

Baltic Scientific Instruments
Ganibu Dambis 26
P.O. box 33, Riga
LV - 1005, Latvia

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



# Specification

| Model | Efficiency, % | Energy resolution 122 keV, (eV) | Energy resolution 1.33 MeV, (keV) | Peak/ Compton ratio | Peak Shape FW.1M FWHM | Peak Shape FW.02M FWHM |
|---|---|---|---|---|---|---|
| GCD - 10 175 | 10 | 825 | 1.75 | 41:1 | 1.9 | 2.65 |
| GCD - 15 180 | 15 | 825 | 1.80 | 46:1 | 1.9 | 2.65 |
| GCD - 20 180 | 20 | 850 | 1.80 | 51:1 | 1.9 | 2.65 |
| GCD - 25 185 | 25 | 850 | 1.85 | 55:1 | 1.9 | 2.65 |
| GCD - 30 185 | 30 | 875 | 1.85 | 58:1 | 1.9 | 2.65 |
| GCD - 35 190 | 35 | 875 | 1.90 | 60:1 | 1.9 | 2.65 |
| GCD - 40 190 | 40 | 895 | 1.90 | 62:1 | 1.9 | 2.65 |
| GCD - 50 190 | 50 | 895 | 1.90 | 64:1 | 1.9 | 2.65 |
| GCD - 60 200 | 60 | 1000 | 2.00 | 68:1 | 2.0 | 3.00 |
| GCD - 70 200 | 70 | 1000 | 2.00 | 73:1 | 2.0 | 3.00 |
| GCD - 80 210 | 80 | 1000 | 2.10 | 77:1 | 2.0 | 3.00 |
| GCD - 100 220 | 100 | 1000 | 2.10 | 81:1 | 2.0 | 3.00 |
| GCD - 120 220 | 120 | 1000 | 2.10 | 83:1 | 2.0 | 3.00 |
| GCD - 140 220 | 140 | 1100 | 2.20 | 86:1 | 2.0 | 3.00 |
| GCD - 160 220 | 160* | 1150 | 2.20 | 88:1 | 2.0 | 3.00 |

* Detectors with higher efficiency are available

# Plenty of cryostat geometries available