



# HPGe Planar Detectors GPD

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(liquid nitrogen cooled)



DESCRIPTION

Gamma and X-ray HPGe Spectrometer is intended for the conversion of gamma and X-ray quantum energy to signals proportional to their energy level. It is also intended for use as the gamma and X-ray detection component of radiological monitoring equipment for environmental objects in nuclear energetics, industrial production, agriculture, medicine, etc.

FEATURES

- Energy range: 3 keV - 1500 keV (2500 keV)
- Ability to increase energy rate to 20000 MeV/s
- Input window: Aluminum, Beryllium or Carbon-fiber
- HV shutdown protection
- High count rate LED
- Excellent peak symmetry and high resolution
- Variety of cryostat geometries

COMPLETE SET

- HPGe planar detector (p-type)
- SHP Preamplifier with cooling input stage
- Cryostat
- Cooling system (Monolith/Nicole/LN2)
- Cable set

ADD-ONS

- Analysis Software GammaPRO
- Advanced software package MCC-MT
- Lead Shield
- Liquid nitrogen storage and filling system
- Option to choose a preamplifier type with a resistive or opto-electronic feedback high energy rate up to 15000 MeV/sec

Model	Diameter, mm	Detector sensitive area		Energy resolution	
		Area*, mm2	Thickness, mm	at 5.9 keV (eV)	at 122 keV (eV)
GPD-05145	5	20	6	145	465
GPD-08155	8	50	6	155	485
GPD-12165	12	100	7	165	490
GPD-12160	12	100	10	160	490
GPD-16180	16	200	11	180	495
GPD-25300	25	500	13	300	545
GPD-36360	36	1000	13	360	585
GPD-36300	36	1000	15	300	560