



HPGe Infrared Detectors (Liquid Nitrogen cooled)

Application

High sensitive HPGe infrared detectors are intended for NIR Fluorescence or Raman spectroscopy and similar applications in spectral region from 850 nm to 1.7 μm .

Features

- Highest sensitivity
- Low noise level
- Frequency range up to 300 Hz
- LN2 cooled electronic input stage (JFET and feedback resistor)
- RG 850 window with antireflective coating
- Preamplifier with temperature monitor
- Any type of Dewar vessel is available

Complete Set

- HPGe IR detector in cryostat and LN2 Dewar
- Low noise preamplifier with HV bias supply for detector

Specification

Parameter	Value
Detector area, mm ²	20
Operating Temp, K	77
Noise Equivalent Power (NEP), W	About 10 ⁻¹⁶
Responsivity, V/W	5*10 ¹⁰
Output Impedance, Ohm	10
Output Noise Level, $\mu\text{V}(\text{rms})$	50
Frequency Bandwidth, Hz	1-300
Dewar Capacity, l*	7.5
Liquid Nitrogen Holding Time, days	7
Detector ready for work after filling with LN2, h	2
Distance of detector from window, mm	8-10
Entrance collimator diameter, mm	2

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