

GR1-Spectro Gamma Ray Spectrometer



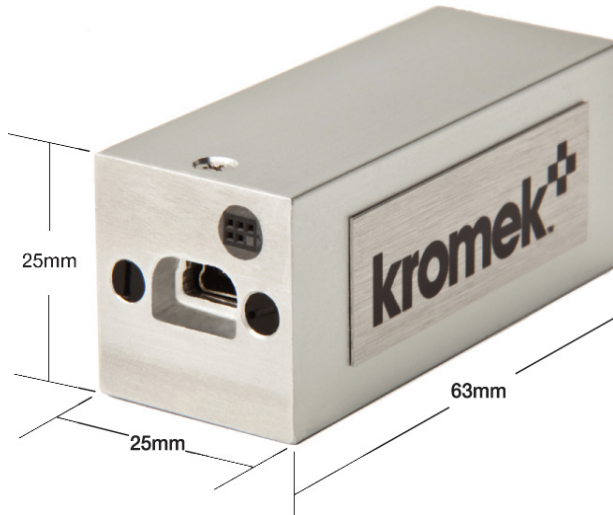
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GR1-Spectro Gamma Ray Spectrometer

Features

- High spectral resolution
- High efficiency
- USB powered
- Compact
- Simple to use



The Kromek GR1-Spectro is a high-performance gamma ray spectrometer utilizing a 1-cm³ CdZnTe detector. It is completely self-contained, with built-in preamplifier, shaping amplifier, baseline restorer, pulse height digitizer, and HV supply. The digitized pulse heights of detected gamma-ray signals are sent to a PC via the USB.

The unit is powered entirely from the USB bus, so no external power supply is needed. The KSpect software included with the Kromek GR1-Spectro provides the spectrum acquisition, display, analysis, and storage functions.

Specifications

- Detector: 10mm x 10mm x 10mm CdZnTe coplanar-grid detector
- Energy range: 20 keV to 3.0 MeV
- Energy resolution: 2.0 – 2.5% FWHM @ 662 keV
- Electronic noise: <10 keV FWHM
- Maximum throughput: 32,000 counts/s
- Number of channels: 4096 (12 bit)
- Differential non-linearity: < ± 1%
- Integral non-linearity: < ± 0.02%
- Power consumption: 250 mW
- Dimensions: 25mm x 25mm x 63mm
- Weight: 60 gram

Other products available

- K101-Source Low-Power, Low-Noise Regulated High-Voltage Supply
- K102- Multi-Channel Analyser sends data to a PC via a USB bus

