Kromek GR1-Spectro

Features:

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

The GR1-Spectro is a high-performance gamma-ray spectrometer utilizing a 1-cm^3 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 PSpect software included with GR-1 Spectro provides the spectrum acquisition, display, analysis, and storage functions.

Specifications

- Detector: 10 mm X 10 mm X 10 mm CdZnTe coplanar-grid detector
- Energy range: 20 keV to 3.0 MeV
- Energy resolution: 1.5 – 2.5 % FWHM @ 662 keV
- Energy threshold: 20 keV
- 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: 25 mm X 25 mm X 62 mm
- 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.