

This is a digital spectrometer that combines the three functions required for a silicon drift detector: **Multi-channel analyzer (MCA), High-voltage power supply and Preamplifier power supply**. For measurement, the preamplifier signal of the detector is directly input, and digital signal processing is performed using a high-speed ADC (100 MHz, 14-bit) and a highly integrated FPGA. **Data is transferred to the PC via Ethernet.**

ROI-SCA
Quick-Scan



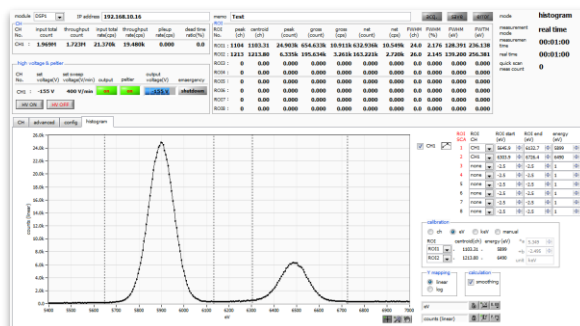
FRONT



BACK

Features

Energy Resolution	125 eV @ 5.9 keV, Peaking Time 2 μ s 145 eV @ 5.9 keV, Peaking Time 0.5 μ s
Output	1 Mcps or more
Functions	Spectroscopy amplifier ROI-SCA Quick-Scan Filtered waveform output DAC



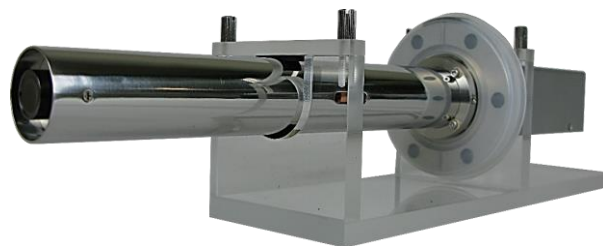
Specifications

Analog Input	1 channel, Input range: ± 1 V Input Impedance: 1 k Ω
Analog Gain	Coarse x5, x10, x20
Sampling Rate	100 Msps, Resolution: 14-bit
ADC GAIN	8192, 4096, 2048, 1024, 512, 256 ch.
Digital Processing	Trapezoidal Filter 0.1 to 16 μ s Fine Gain: x0.333 to x1.0 Baseline Restorer Pileup Rejector
High Voltage Power supply	-200 V, Max.: 1 mA
Preamplifier Power supply	± 5 V, Max.: ± 60 V
Peltier cooling Power supply	+ 1.7V, Max.: 1 A
Communication I/F	RJ-45 connector, Ethernet TCP / IP or UDP
Dimensions	210 (W) x45 (H) x275 (D) mm *without connectors
Weight	1530 g
Power consumption	AC 100 V (AC adapter included)

Data acquisition software included

Python, Linux, LabVIEW, Visual C++, Visual C#

We provide sample program free



**Silicon Drift Detector
manufactured by TechnoAP**

*Images is for illustration purpose.
*Please note that contents may change without prior notice.

