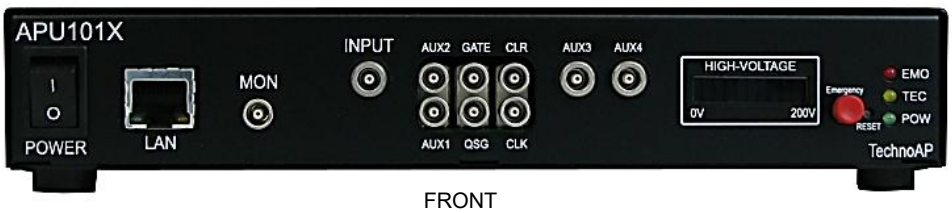
Digital Spectrometer for X-ray

TechnoAP

APU101XR

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 Msps, 16bit) and a highly integrated FPGA. Data is transferred to the PC via Ethernet.



FRONT



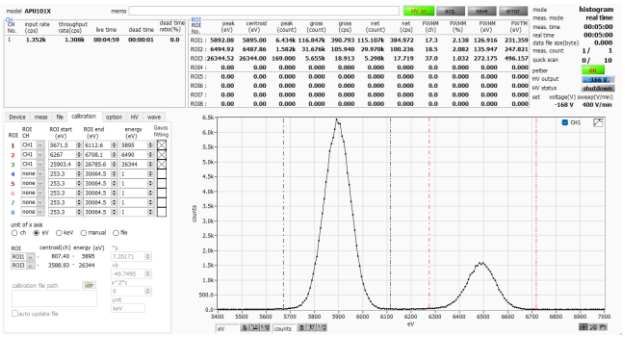
BACK

Features

Energy Resolution	125-135eV@5.9keV, Peaking Time 2μs 150eV@5.9keV, Peaking Time 0.15μs
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 kΩ
Analog Gain	Coarse x1, x2, x5, x10
Sampling Rate	100 Msps, Resolution: 16bit
ADC GAIN	4096, 2048, 1024, 512, 256 ch.
Digital Processing	Trapezoidal Filter 0.1 to 16 μs 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 mA
Peltier cooling Power supply	+ 1.8 V, Max.: 1 A
Communication I/F	RJ-45 connector, Ethernet TCP / IP & UDP
Dimensions	210 (W) x 45 (H) x 275 (D) mm *without connectors
Weight	1550 g
Power consumption	AC 100 V (AC adapter included)



*Data acquisition software included



Silicon Drift Detector
manufactured by TechnoAP

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

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