

XSDD1T50-01Be-SYS

Utilizing a latest 1 mm-thick SDD, it enables measurement up to high-energy ranges. Combined with the APU101X preamp optimized for reset-type SDDs, it achieves high count rate and resolution.

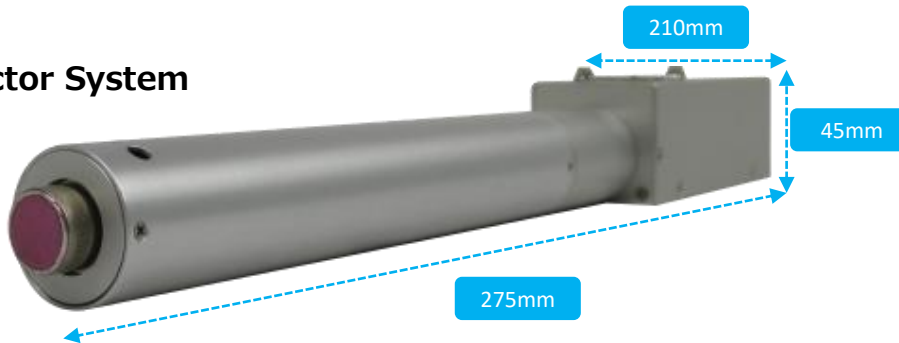
1 mm-thick Silicon Drift Detector System

Model: XSDD1T50-01Be

Active Area: 40 mm²

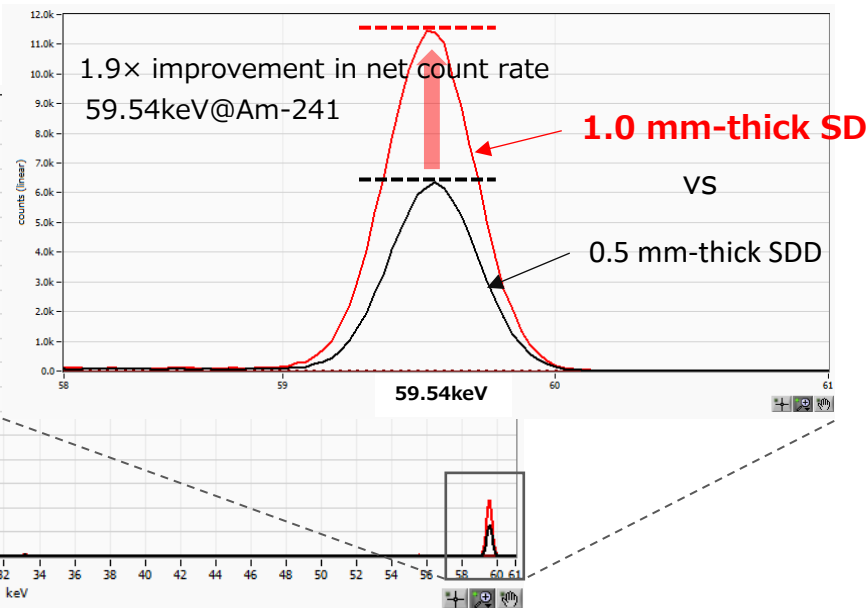
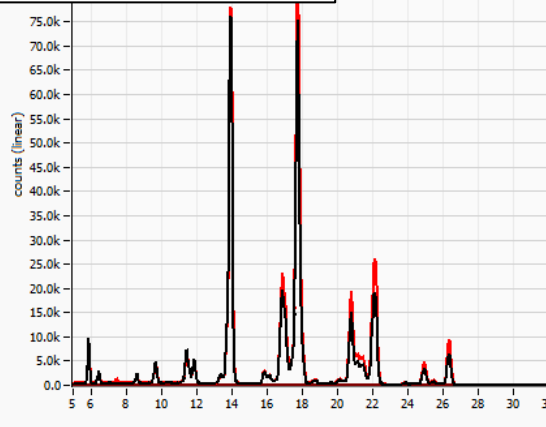
(70 mm² collimated to 40 mm²)

Window Material: 12.5 μm Be



Using Am-241 radioactive source

Red: 1.0mm thick
Black: 0.5mm thick



High-count-rate Signal Processing module APU101X

Operating Mode	Histogram, List, Quick-Scan, ROI-SCA
ADC Sampling	100Msps 16-bit
Energy Resolution (typ.)	129 eV @5.9 keV 2 μs 150 eV @5.9 keV 0.15 μs
SDD with built-in power supply	-1000 V , ±5 V , +1.8 V
Throughput	Max 150 kcps : 2 μs Max 1000 kcps : 0.15 μs
Communication	Ethernet (TCP/IP)
Dimensions (mm)	210 (W) x 45 (H) x 275 (D)

Quick-Scan Function & ROI-SCA Function

