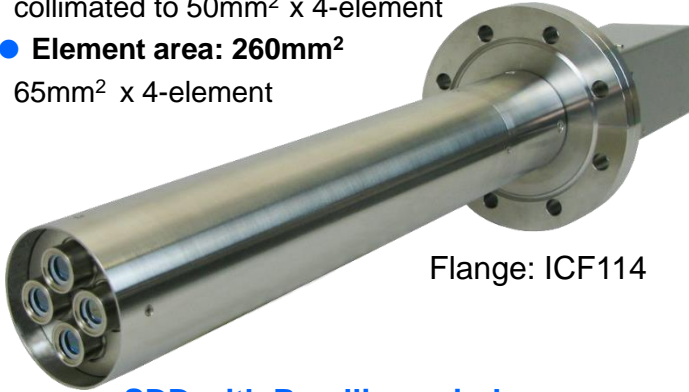# 4-element silicon drift detector system

XSDD50-04BE-SYS

SYSTEM

This system realize high-sensitivity by multiple SDD with ==high-count rate and high-energy resolution!==
It is possible by Transistor Reset Processing and Digital Signal Processing.

10^{-5} Pa
Corresponding Vacuum

- **Sensitive are: 200mm²**
  collimated to 50mm² x 4-element
- **Element area: 260mm²**
  65mm² x 4-element

Flange: ICF114

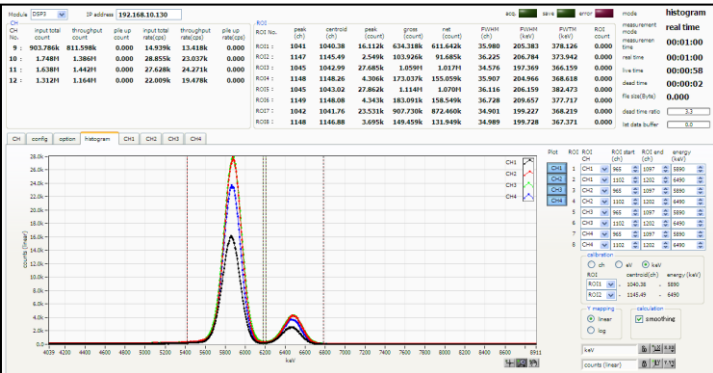**SDD with Beryllium window**
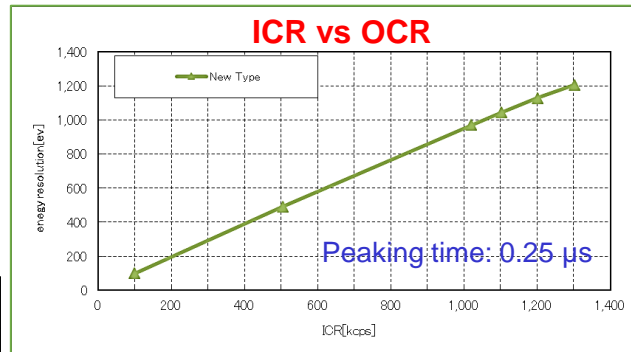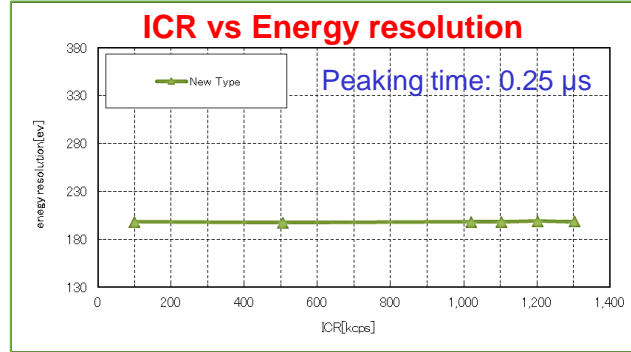Model: XSDD50-04BE

DSP for SDD
ADC: **4ch., 100 Msps, 16-bit**

Model: APU504X

Power supply for SDD
Power supply: **-200V, ±5V, +3.3V**

Model: APU3900

Application window for data collection

ICR vs Energy resolution

Peaking time: 0.25 µs

ICR vs OCR

Peaking time: 0.25 µs

Specifications

Functions	Histogram, List, Waveform, ROI-SCA
Energy resolution	244eV@5.9keV MnKα *OCR: 1000k, Peaking time: 0.25µs
Throughput	Max. 150kcps @ 2us Max. 1000kcps @ 0.15us
Communication I/F	Gigabit Ethernet, TCP/IP
Option	Z-axis movement mechanism, UHV valve
Accessories	Application for data acquisition, Sample program, Instruction Manual

Option example:
Transport with bellows corresponding to the vacuum

CUSTOM MADE for your needs!

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