

## APN504X

NIM

20240827

APN504X is a radiation measurement device with digital signal processing (DSP) for X-ray spectroscopy. APN504X does not use conventional spectroscopy amp. It directly input the preamp signal of the detector, such as SDD, Si(Li), SSD, SiPin, etc. And then, it does digital signal processing by high-speed ADC (100MHz, 14Bit) and highly-integrated FPGA. The measurements data are Histogram and Quick scan. These data transferred to the PC via network. The application is attached without cost.

Quick scan mode is a time resolution measurement. In this mode, it sends histogram data to the PC by every outside trigger timing (Min. 10ms), and PC saves data to an HDD consecutively. This mode is most suitable for the QXAES measurement.

- Input 4CH simultaneous sampling
- Resolution [In the case of 19 elements SSD]
  - @5.9keV 139eV 6μs Peaking time
  - 250eV 0.5μs Peaking time \*Comparable Analog 0.25μs
- [In the case of SDD (high-resolution type)]
  - 125eV 2μs Peaking time
  - 145eV 0.5μs Peaking time \*Comparable Analog 0.25μs
- Throughput 1Mcps and more
- Mode Histogram, Quick scan
- Multi function Spectroscopy amp, Timing filter amp, CFD, Input and filter waveform output DAC
- External NIM1U
- Interface TCP/IP, Gigabit Ethernet
- Software Application and Hard/Soft manual

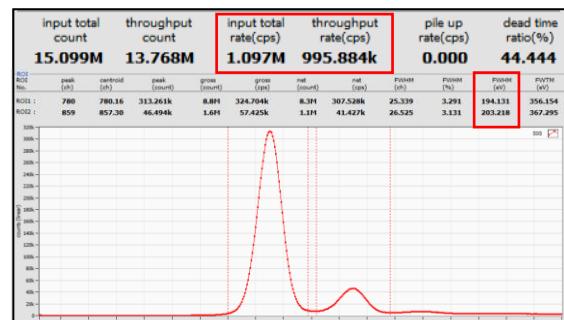
## Quick scan data example

Event#1	CH1 4096ch	CH2 4096ch	CH3 4096ch	CH4 4096ch
Event#2	CH1 4096ch	CH2 4096ch	CH3 4096ch	CH4 4096ch
:				
Event#N	CH1 4096ch	CH2 4096ch	CH3 4096ch	CH4 4096ch



Front

Rear



Emitted light exposure examination

Mn target, ICR 1.1Mcps, OCR 1.0Mcps, FWHM 194eV@5.9keV MnKa 0.15μsPT

[Website](#)

\*Images is for illustration purpose.

\*Please note that contents may change without prior notice.

Manufacture of Radiation and Radioactivity measurement devices

**TechnoAP Co., Ltd.**

2976-15 Mawatari, Hitachinaka-shi, Ibaraki, 312-0012, Japan

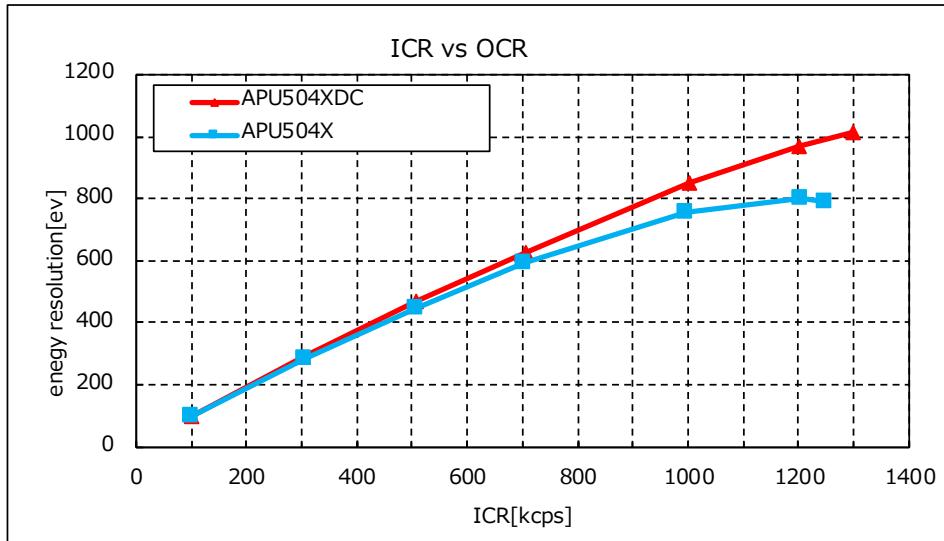
+81-29-350-8011

+81-29-352-9013

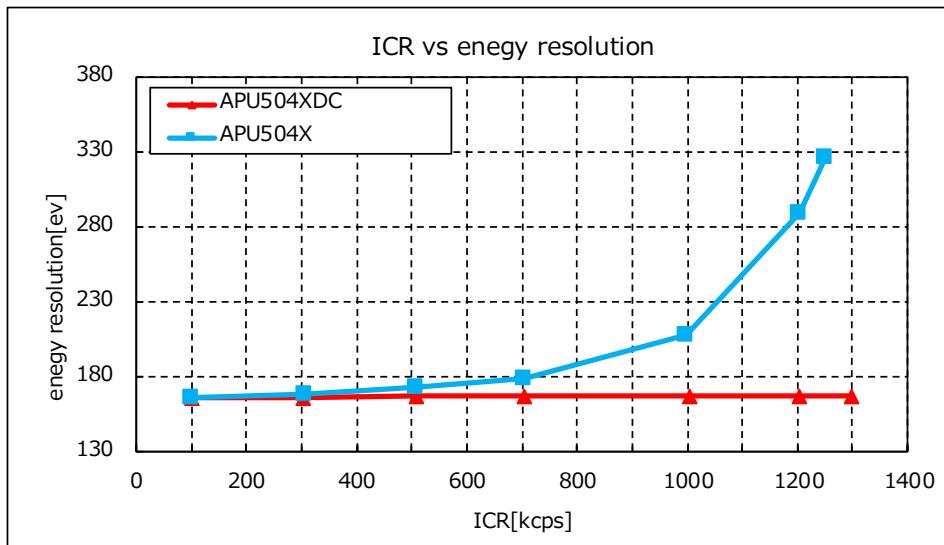
info@techno-ap.com



## Count rate



## Resolution



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

Website



Manufacture of Radiation and Radioactivity measurement devices

**TechnoAP Co., Ltd.**

2976-15 Mawatari, Hitachinaka-shi, Ibaraki, 312-0012, Japan

+81-29-350-8011

+81-29-352-9013

info@techno-ap.com