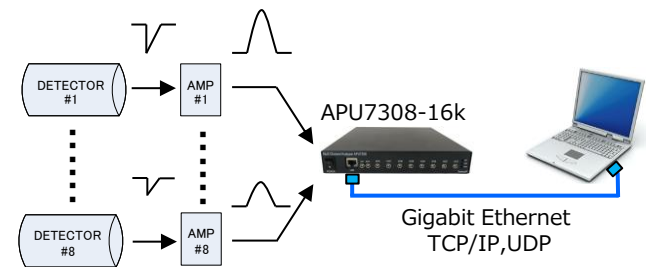


APU7308-16k

This high-speed 8-channel Multi-Channel Analyzer (MCA) is equipped with the latest successive approximation ADC. The histogram supports 16k channels. It comes standard with spectral analysis software capable of real-time updates. The fixed dead time is 1  $\mu$ s (including peak detection, ADC conversion, memory rewriting, and peak reset).

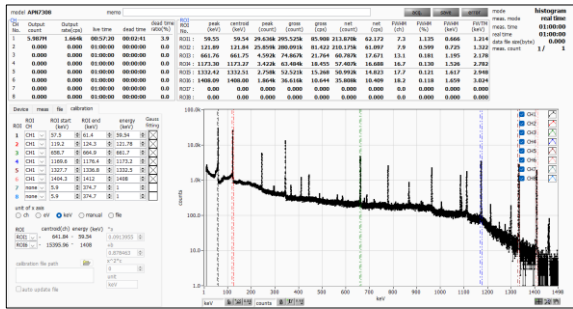
In Fast Pulse Peak Detect Mode, after detecting the pulse peak, conversion begins, and processing can be completed within the pulse for pulse shaping times as short as 0.25  $\mu$ s, delivering exceptionally high throughput. Commands and data are transmitted and received via Ethernet.

As it complies with standard Ethernet specifications, it can be easily integrated into existing systems.



Features

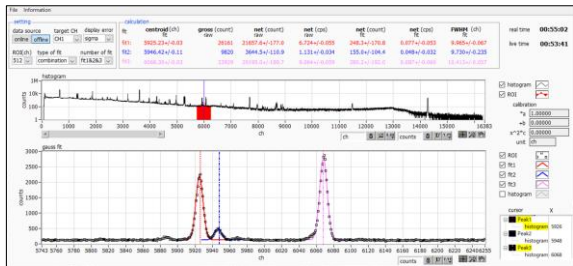
Fixed Dead Time	1 $\mu$ s
Throughput	> 50kcps
ADC Gain	16k, 8k, 4k, 2k, 1k, 512 ch.
Integral Non-Linearity	< $\pm 0.025\%$ (typ.)
Differential non-linearity	< $\pm 1\%$ (typ.)
Power Supply	AC adaptor
Shape	Lightweight and compact unit case
Spectral Analysis includes software	Gauss fit analysis, Peak search analysis, Dead time correction, Energy calibration, Half-width calibration



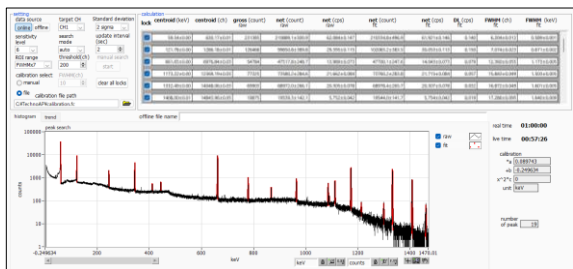
Histogram Mode

Specifications

Analog Input	8CH, LEMO Connector
Input Range	0 to 10V
Input Impedance	1k $\Omega$
Input pulse width	Min 100ns to Max 100 $\mu$ s
Peak detect mode	Fast pulse / Absolute pulse
Threshold	0-50% of full scale, configurable from PC
ADC LLD	0-100% of full scale, configurable from PC
ADC ULD	0-100% of full scale, configurable from PC
Mode	Histogram, LIST, MCS
External control	GATE input, AUX input, LEMO connector
LED	POW, RUN, DET
Communication	Gigabit Ethernet, TCP/IP and UDP
Dimensions·Weights	210(W) x 250(D) x 37(H) mm Approximately 800g
Application	Data acquisition control, spectral analysis software



Gaussian Fit Analysis



Peak Search Analysis

