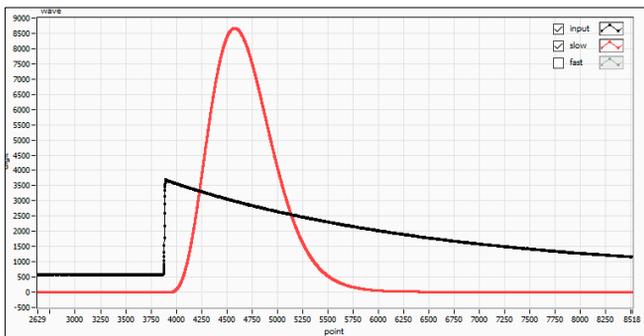


# APG7305A USB-MCA-amp

MCA with a spectroscope amplifier with USB bus power operation

20190122

- Shaping time: 0.25 us or more. 0.625 and 0.125 us are not supported
- ADC gain: 16 k, 8 k, 4 k, 2 k, 1 k, 512, 256
- Power supply: USB bus power, AC adapter not required
- Software: Driver & application included



**Black: Input signal**

**Red: Semi-Gaussian waveform shaping**



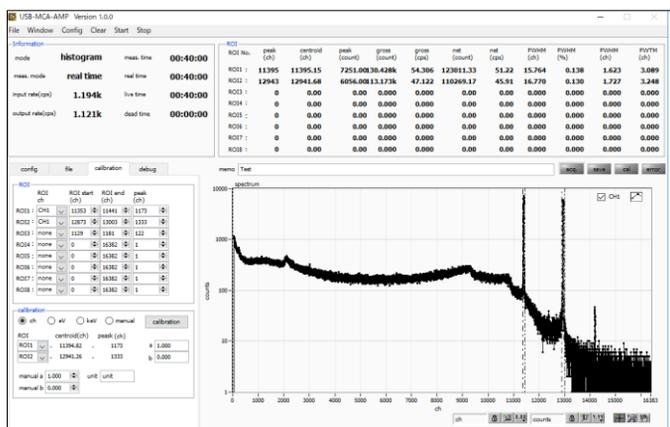
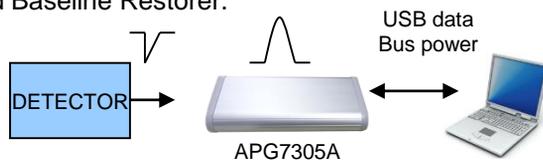
APG7305A USB-MCA-amp

## ◆ Overview

APG7305A is a notebook size USB connected multichannel analyzer (MCA) that realizes semi-Gaussian waveform shaping of spectroscopic amplifier by digital signal processing.

Parameter settings such as shaping time, gain, and pole zero can be changed from PC to programmable. Since it operates only with USB bus power, the AC adapter is unnecessary and it is easy to carry.

It has low noise, wide gain, a large number of shaping times, and it is compatible with a wide range of detectors such as semiconductor detectors, proportional counters and scintillation detectors. Moreover, it is possible to obtain a very stable and high resolution by the automatic gated Baseline Restorer.



Application screen

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

Website



## ◆ Specifications

Analog input	1 channel, LEMO connector
Input range	± 1.5 V preamplifier decay signal
Pulse shape	Semi-Gaussian peaking time 2.2τ
Shaping time	0.25 us or more. 0.625 and 0.125 us are not supported
Baseline Restorer	Auto Active gate
Gain	×1 to 500
ADC Gain	16k, 8k, 4k, 2k, 1k, 512, 256 ch
Peak detect mode	Absolute pulse
Throughput	50 kcps or more
Integral nonlinearity	±0.025 % or less
Differential nonlinearity	±1 % or less
Threshold	0-50 % Full-scale from PC
ADC LLD	0-100 % Full-scale from PC
ADC ULD	0-100 % Full-scale from PC
External GATE VETO input	LEMO connector, TTL, High / Low
Measurement Mode	Spectrum / WAVE
Communication I/F	USB 2.0, USB mini B receptacle
OS	Windows 10, 8.1 and 7
Accessories	CD-ROM (driver, application) USB cable
Dimensions (unit: mm)	70 (W) x 160 (D) x 20 (H)
Weight	約230g

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

order@techno-ap.com