

APG7300A

This is a high-speed multi-channel analyzer (MCA) with the **latest successive comparison type ADC** in a notebook size. The **fixed conversion time is 500 ns** (including peak detection, ADC conversion, memory rewriting, and peak reset).

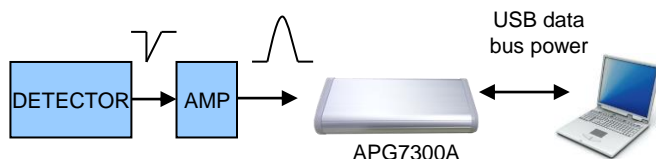
In the newly added **Fast Pulse peak detection mode**, conversion is started after the pulse peak is detected. conversion after the pulse peak is detected, and processing can be completed within the pulse up to 0.25μs pulse shaping and this allows for extremely high throughput.

Features

Fixed dead time	500 ns
Output	100 kcps or more
ADC gain	16k, 8k, 4k, 2k, 1k, 512, 256ch
Integral non-linearity	±0.025% and under (typ.)
Differential non-linearity	±1% and under (typ.)
Power supply	USB bus power
Shape	Lightweight and compact
Communication I/F	Transfer speed: 16k spectral data within 1 second

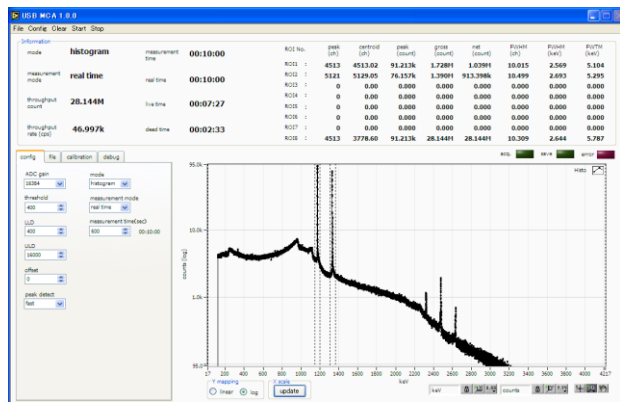


GATE VETO support



Specifications

Analog input	1CH (LEMO 00 series connector)
Input range	0 - 10V pulse
Input impedance	1kΩ
Entrant pulse width	100ns (min.) - 100μs (max.)
Peak detection mode	Fast pulse / Absolute pulse
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 input	LEMO connector, TTL, Active High
External VETO input	LEMO connector, TTL, Active Low
LED	POWER, RUN, ACCEPT
Interface	USB 2.0, USB Mini-B receptacle
Operating System	All versions of Windows OS supported by Microsoft
Accessory	Driver and application software USB cable
External dimensions	70(W) x 140(D) x 20(H) (Unit: mm)
Weight	About 180g
Environmental condition	Operating temperature: 0 - 40 degrees, No dew condensation



Application screen

Sample programs can be downloaded from our website

Python

Linux

LabVIEW

Visual C++

Visual C#

*Images is for illustration purpose.

*Please note that contents may change without prior notice.

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