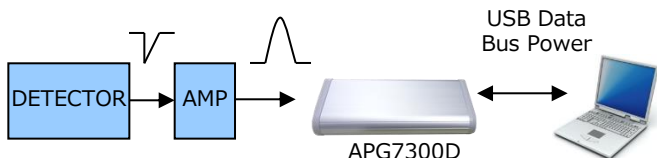# Multi Channel Analyzer

TechnoAP

APG7300D

The latest model D features a high-speed multichannel analyzer (MCA) with a successive approximation ADC, all in a compact notebook-sized design. Updated spectral analysis software now comes standard. The fixed dead time, including peak detection to ADC conversion, memory rewriting, and peak reset, is just 1μs. In Fast Pulse peak detection mode, processing can be completed within a pulse, with pulse shaping starting as early as 0.25 μs after detecting the peak, ensuring exceptional throughput. Furthermore, it operates solely on USB bus power, eliminating the need for an AC adapter.

DETECTOR → AMP → APG7300D ↔ USB Data Bus Power

front

back

Features

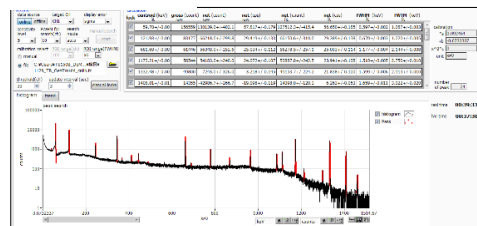|	
Dead Time	1μs
Throughput	> 50kcps
ADC Gain	16k, 8k, 4k, 2k, 1k, 512 ch.
Integral Non-linearity	< ±0.025% (typ.)
Differential Non-linearity	< ±1% (typ.)
Power Connector	USB Bus Power (No AC adapter required)
Shape	Light Compact Aluminum Case
Spectrum Analysis Software	Gauss Fit Analysis, Peak Search Analysis, Dead Time Adjustment, Energy Correction, Half Width Correction

Histogram Mode

Gauss Fit Analysis

Peak Search Analysis
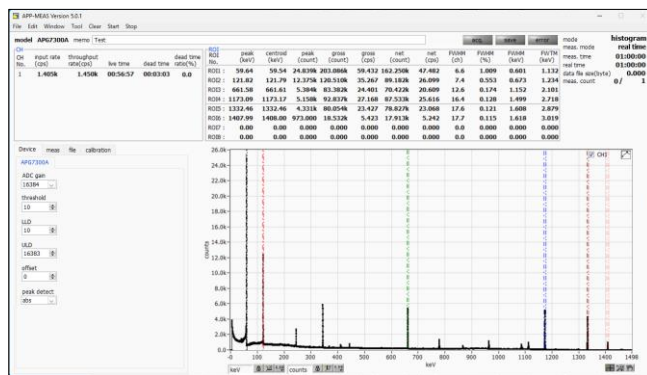
Specifications

Analog input	1CH, LEMOコネクタ
Input range	0から10V
Input impedance	1kΩ
Entrant Pulse Width	100ns (min.) to 100μs (max.)
Peak Search 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
Mode	Histogram
External Control	GATE Input, VETO Input, LEMO connector
LED	POWER, RUN, ACCEPT
Communication I/F	USB 2.0, USB mini B receptacle * 16k Spectrum Dada Delivery: less than 1 second
External Dimensions Weight	W70 x D160 x H20mm About 180 g
Application	Data Measurement Control, Spectrum Analysis Software
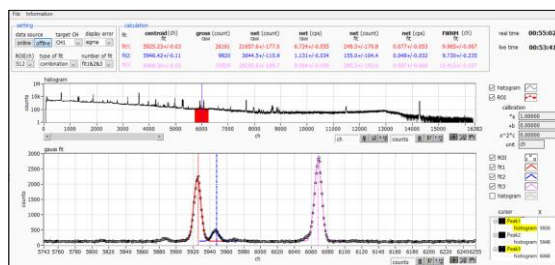
*Images is for illustration purpose.
*Please note that contents may change without prior notice.

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