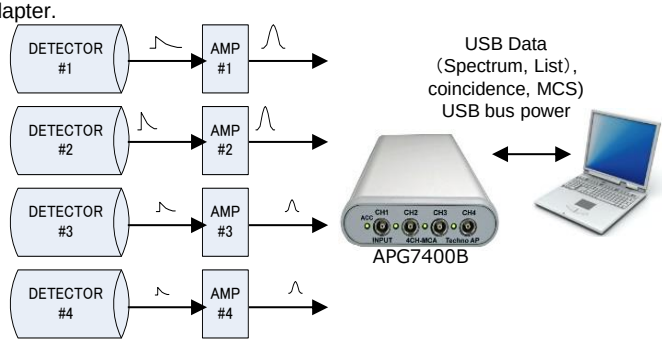
4CH Multi Channel Analyzer

TechnoAP

APG7400B

The latest model is a 4-channel high-speed multichannel analyzer (MCA) featuring a compact notebook-sized successive approximation ADC. It now includes updated spectrum analysis software as standard that can be dynamically updated. The fixed dead time, encompassing peak detection, ADC conversion, memory rewriting, and pulse reset, is set at 1.5µs. Alongside the histogram mode, it offers a standard list mode for saving time, waveform height, and CH data upon detection, as well as coincidence and MCS modes. Powered solely by USB bus power, it operates without the need for an AC adapter.



front

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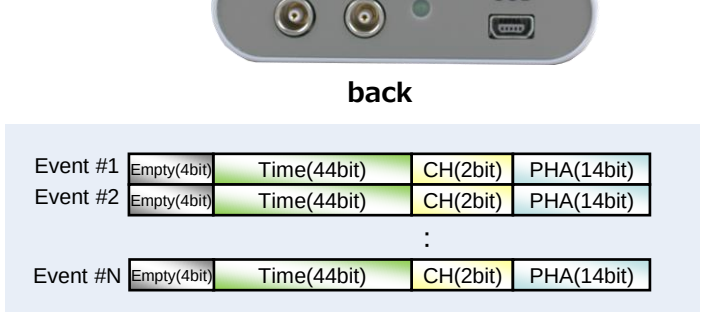
Features

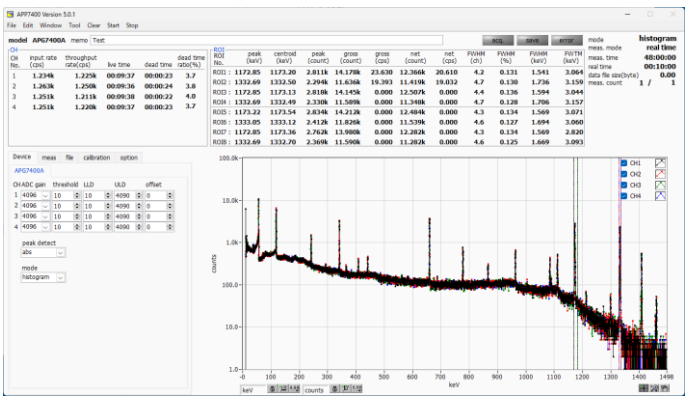
Input	4 channels
Dead Time	1.5µs
Throughput	> 50kcps
ADC Gain	4k, 2k, 1k, 512 ch.
Integral Non-linearity	< ±0.025% (typ.)
Differential Non-linearity	< ±1% (typ.)
Measurement Mode	Histogram, List, Coincidence, MCS(multi channel scaler)
Power Connector	USB Bus Power (no AC adapter required)
Shape	Light Compact Aluminum Case
Spectrum Analysis Software	Gauss Fit Analysis, Dead Time Adjustment, Energy Correction, Half Width Correction

Specifications

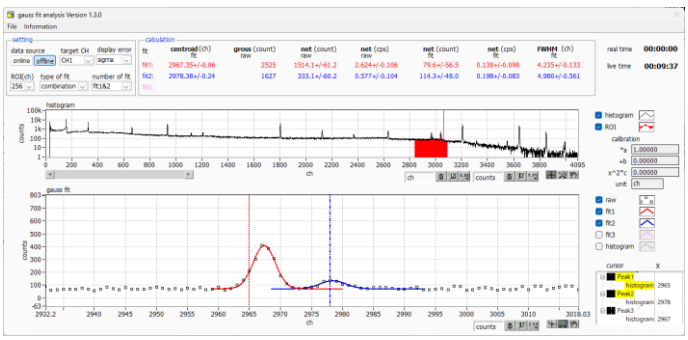
Analog input	4 channels, LEMO connector
Input range	0 to +10 V
Input impedance	1 kΩ
Entrant Pulse Width	100 ns (min.) to 100 µs (max.)
Threshold	0-50 % Full-scale from PC
ADC LLD	0-100 % Full-scale from PC
ADC ULD	0-100 % Full-scale from PC
External Control	GATE Input, VETO Input, LEMO connector
LED	POWER, RUN, ACCEPT(each CH)
Communication I/F	USB 2.0, USB mini B receptacle * Recommendation: USB 3.0 * 16k Spectrum Dada Delivery: less than 1 second * List Data: 100kcps or above
External Dimensions Weight	W70 x D160 x H20mm About 230 g
Application	Data Measurement Control, Spectrum Analysis Software



List Data Format



Histogram Mode



Gauss Fit Analysis

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

TechnoAP Co., Ltd.
2976-15 Mawatari, Hitachinaka, Ibaraki, Japan
Postcode:312-0012 info@techno-ap.com
TEL:+81-29-350-8011 FAX: +81-29-352-9013

https://www.techno-ap.com

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