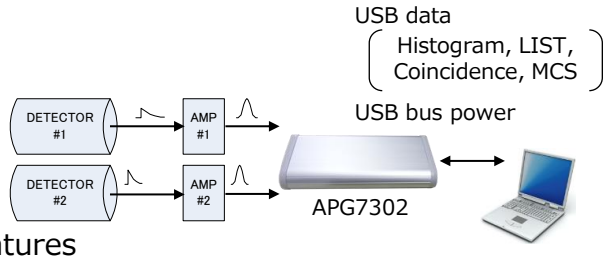
2CH Multi Channel Analyzer

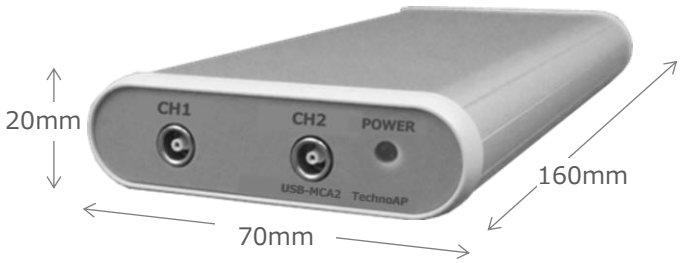
TechnoAP

APG7302

This compact, notebook-sized, high-speed 2-channel Multi-Channel Analyzer (MCA) is equipped with the latest successive-approximation ADC. It features a fixed dead time of 1.0 μs, and the histogram ADC gain can be set up to 16k.In addition to histogram mode, it comes standard with list mode—allowing the storage of detection time, pulse height, and channel data—as well as coincidence mode and MCS mode. Powered entirely via USB bus power, it requires no AC adapter.



Front



Back

Features

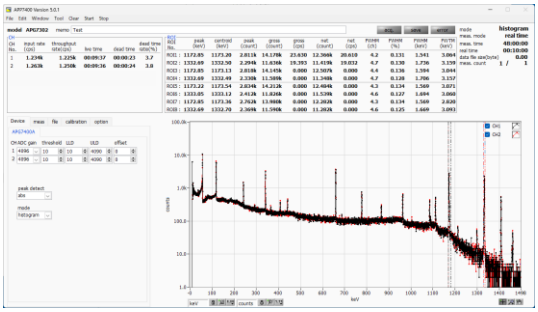
Input	2CH
Fixed Dead Time	1.0μs
Throughput	> 50kcps
ADC Gain	16k, 8k, 4k, 2k, 1k, 512 ch.
Integral Non-Linearity	< ±0.025% (typ.)
Differential non-linearity	< ±1% (typ.)
Mode	Histogram, LIST Coincidence, MCS
Power Supply	USB bus power, No AC adapter required
shape	Lightweight and compact aluminum case
Spectral Analysis includes software	Gauss fit analysis, Dead time correction, Energy calibration Half-width calibration

Event#1 空(4bit) Time(44bit) CH(2bit) PHA(14bit)
Event#2 空(4bit) Time(44bit) CH(2bit) PHA(14bit)
⋮
Event#N 空(4bit) Time(44bit) CH(2bit) PHA(14bit)

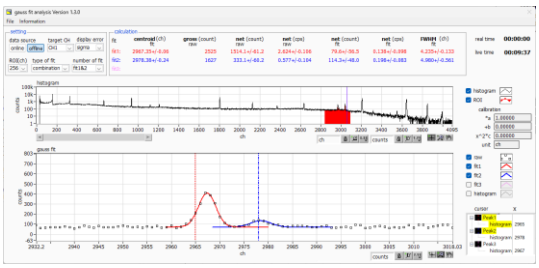
LIST data format

Specifications

Analog Input	2CH, LEMO connector
Input Range	0 to 10V
Input Impedance	1kΩ
Input pulse width	Min 100 ns to Max 100 μs
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
External control	GATE input, VETO input, LEMO connector
LED	POWER
Communication	USB 2.0, USB Mini-B receptacleRecommended for use with USB 3.0 port16k spectrum data transfer in less than 1 secondList data over 100 kcps
Dimensions, Weight	70(W) x 160(D) x 20(H) mm 約230g
Application	Data acquisition control, Spectral analysis software



Histogram Mode



Gaussian fit analysis

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

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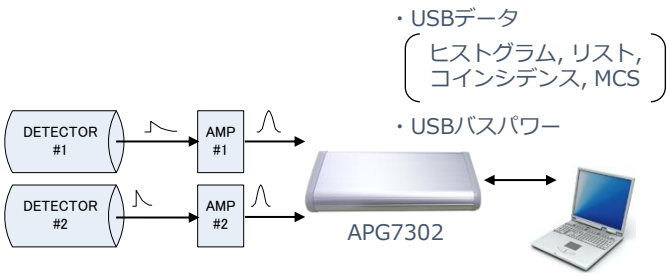
・USBデータ
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・USBバスパワー
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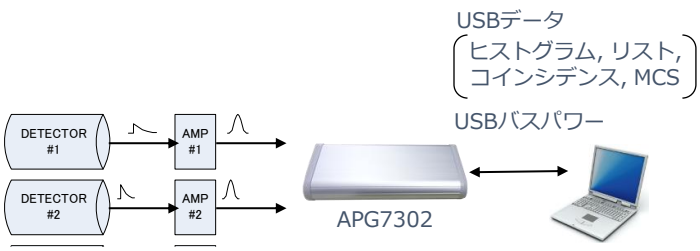
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