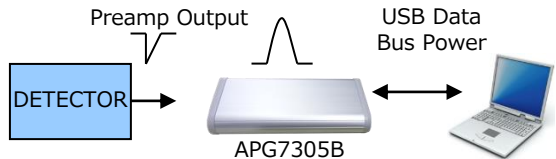


## APG7305B

This compact USB-connected multichannel analyzer (MCA) features digital signal processing to achieve semi-Gaussian waveform shaping in its spectroscopic amplifier. Updated spectrum analysis software is now standard, allowing real-time updates. Parameters like shaping time, gain, and pole zero can be programmably adjusted from a PC. Operating solely on USB bus power eliminates the need for an AC adapter. It boasts low noise, wide gain range, and various shaping times, suitable for use with semiconductor detectors, proportional counters, and scintillation detectors. Additionally, its automatic gated Baseline Restorer ensures exceptional stability and high resolution.

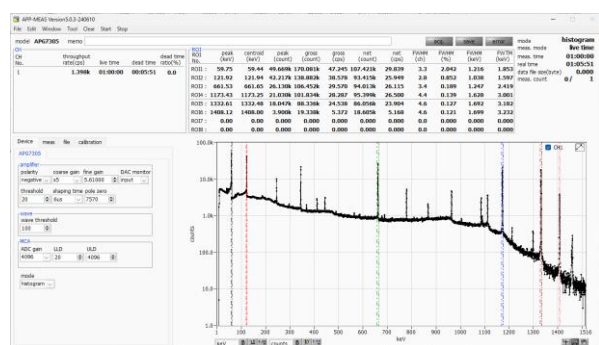
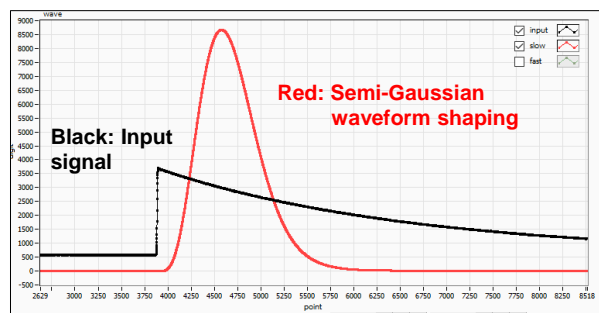


### Features

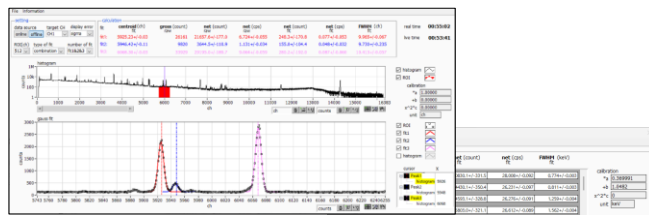
Pulse Shape	Semi-Gaussian peaking time 2.2τ
Shaping Time	0.25, 0.5, 1, 2, 3, 4, 6, 8, 10 μs
Throughput	> 50kcps
ADC Gain	4k, 2k, 1k, 512 ch.
Integral Non-linearity	< ±0.025% (typ.)
Differential Non-linearity	< ±1% (typ.)
Mode	Histogram, Shape Reading
Power Connector	USB Bus Power (No AC adapter required)
Shape	Light Compact Aluminum Case
Spectrum Analysis Software	Gauss Fit Analysis, Peak Search Analysis, Dead Time Adjustment, Energy Correction, Half Width Correction

### Specifications

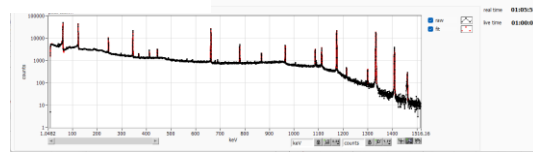
Analog input	1CH, LEMO Connector
Input range	±1.5V Preamp Decay Signal
Input Impedance	1kΩ
Baseline Restorer	Auto Active Gate
Gain	×1~500
Threshold	0-50 % Full-scale from PC
ADC LLD	0-100 % Full-scale from PC
ADC ULD	0-100 % Full-scale from PC
Mode	Histogram
External Control	GATE Input, VETO Input, DAC Monitor Output, LEMO connector
LED	POWER
Communication I/F	USB 2.0, USB mini B receptacle * 4k Spectrum Data Delivery: less than 1 second
External Dimensions	70 (W) x 160 (D) x 20 (H)mm
Weight	About 230 g
Application	Data Measurement Control, Spectrum Analysis Software



**Histogram Mode**



**Gauss Fit Analysis**



**Peak Search Analysis**

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

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