

APU102G / APU102S

This is capable measurement dual input signal desktop form digital spectrometer. Each channel can completely independent measurement. HV power supply and preamp power supply are dual too, simultaneous measurement 2 semiconductor detector.

Also included is updated spectrum analysis software capable of real-time updates and run independent.

Features

Suitable Detectors	Semiconductor Detector such as Ge, CdTe, Si etc. Scintillator Detector such as LaBr3(Ce), NaI(Tl) etc.
Energy Resolution	1.6~2.2keV@1.33MeV, Ge Semiconductor Detector
Throughput	> 200kcps
Integral Non-linearity	< ±0.025% (typ.)
Differential Non-linearity	< ±1.0% (typ.)
Mode	Histogram, List, Wave
Spectrum Analysis Software	Gauss Fit Analysis, Peak Search Analysis, Dead Time Adjustment, Energy Correction, Half Width Correction

Specifications

Analog input	2 channel by BNC connector, Range: ±1V, Input Impedance: 1 kΩ
Analog gain	Coarse Gain: x1, x2, x5, x10 Fine Gain: x0.5~x1.5
ADC	100Msps, 16bit
ADC Gain	16k, 8k, 4k, 2k, 1k, 512, 256 ch.
Digital Processing	Trapezoidal Filter Rise Time 0.1~0.120μs(0.01μs step) Flat-top Time 0.05~2μs(0.01μs step) Timing Filter, Baseline Restorer, Pileup Rejecter, Auto-pole zero, Auto-threshold etc.
Digital Gain	Coarse Gain x1, x2, x4, x8, x16, x32, x64, x128 Fine Gain x0.3333~x1.0000
HV power supply	2 channel by SHV connector, G-type 0V~±5000V (max 0.67mA) S-type 0V~±4000V (max1mA) Ripple Noise 5mVp-p, SHV connector
Preamplifier power supply	2 channel ±12V, ±24V, D-sub9 pin connector
External Control	GATE Input, VETO Input, LEMO Connector
Communication I/F	Gigabit Ethernet, TCP/IP, UDP
Power consumption	12V (1.0A), AC power adapter
Dimension Weight	210(W)x45(H)x275(D) mm *attachment excluded, approximate1900g
Application	Data Measurement Control, Spectrum Analysis Software

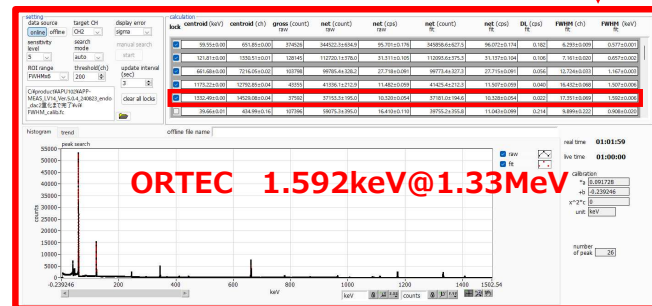
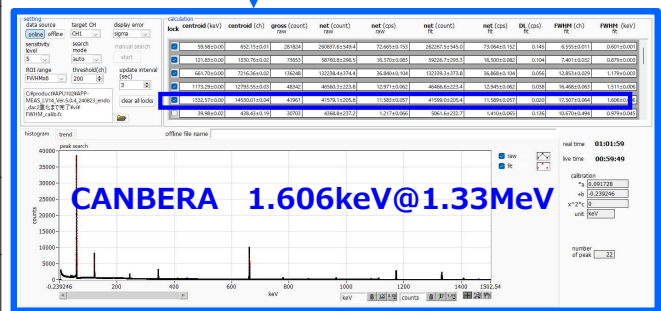


front



back

ORTEC-Ge CANBERA-Ge
Simultaneous measurement



Peak Search Analysis

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

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