

APG1603

Ideal for **Schottky CdTe detectors and CdZnTe detectors.**

Despite its **thinness and small size**, the APG1603 has achieved **ultra-low noise** characteristics with its unique circuit configuration. It has a high input withstand voltage and can **support 1000V** (BNC connector). It can be used for **CdTe, CZT** and other detectors that require ultra-low noise characteristics. It uses the latest parts and can be manufactured at low cost. Taking advantage of this, we also accept **OEM supply** and **custom-made** production.

750 eV or less

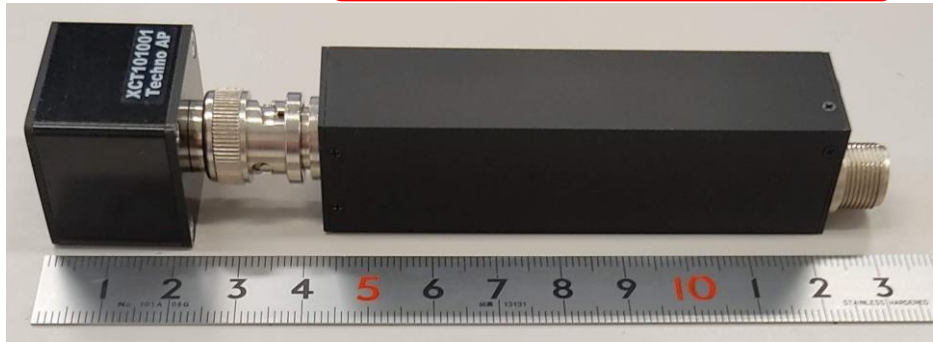


Image photo: Connected to our CdTe detector (XCT101001)

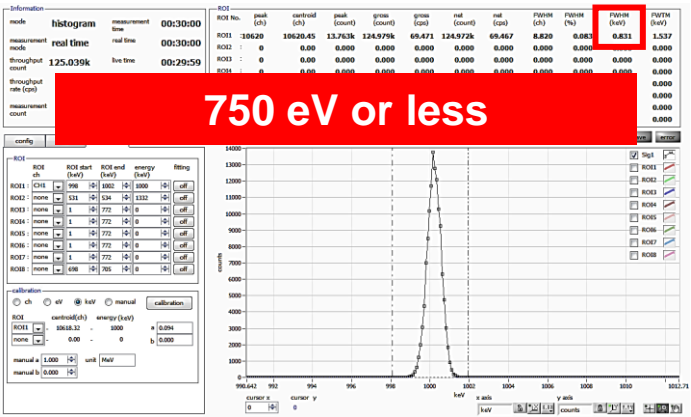
Signal input side

Specifications

Noise characteristics	Capacity load 0 pF: 750 eV (Si) Capacity load 100 pF: 2.7 keV (Si)
Feedback circuit	1 GΩ, 0.5 pF
Rise-time	< 40 ns
Decay-time	100 us
Sensitivity	11 V / pC
Detector bias	±1000 V Max.
Amplification rate	7 times *2 times at high energy
Output impedance	50 Ω
Input coupling	AC
Power Supply	+12V 30mA, -12V 20mA *At no load
Input connector	BNC / SHV
Output connector	BNC
Size	20 (W) x 20 (H) x 102 (D) mm ³ *Without connector
Weight	55g
Available Accessories	Composite cable: CBL-APG1603-2 (BNC, D-sub 9pin conversion)



composite cable: CBL-APG1603-2
not included



Measurement screen with our MCA (APG7300A)

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

Web-site



Manufacture of Radiation and Radioactivity measurement devices

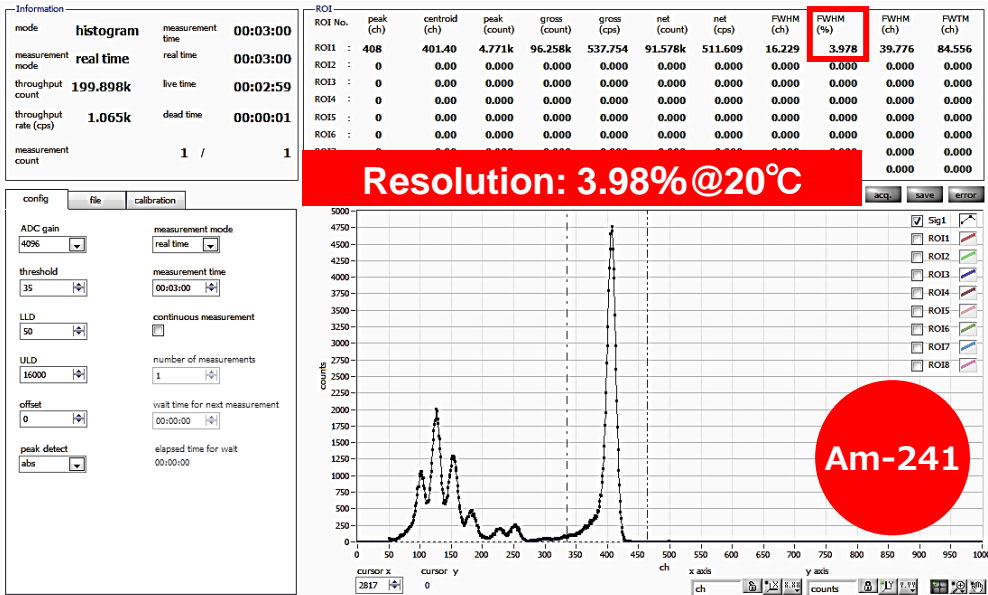
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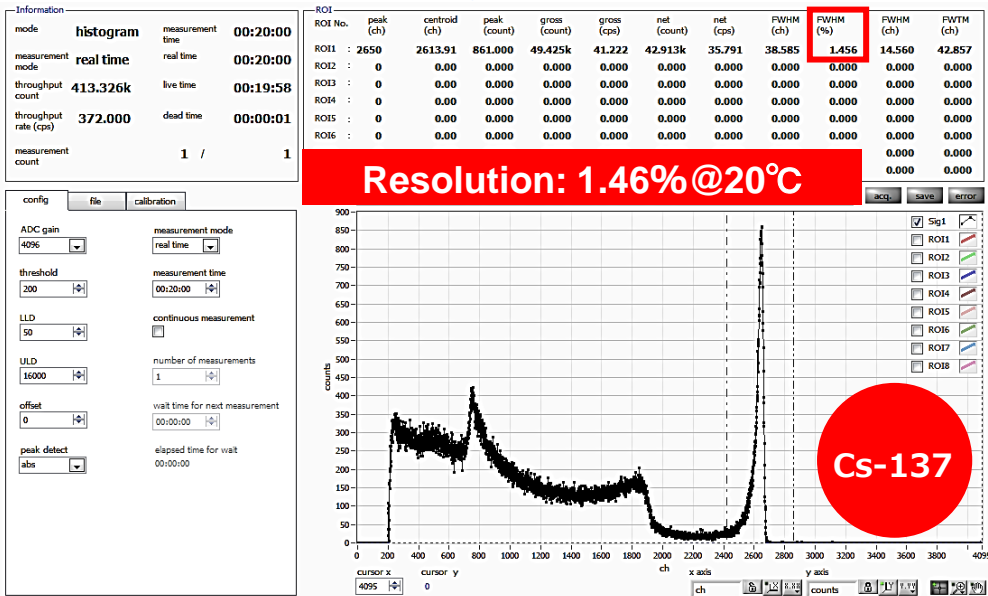
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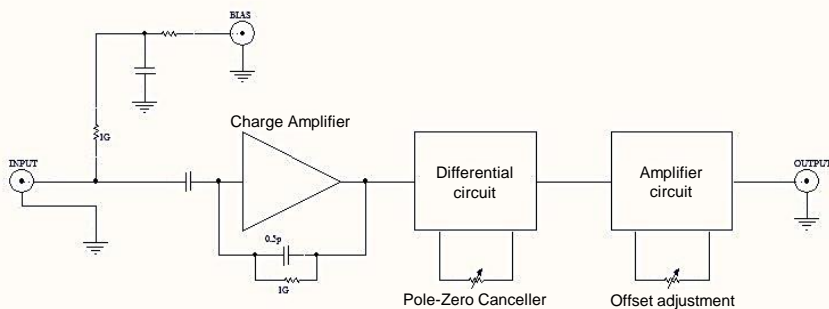
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Energy spectrum when using CdTe detector 10 × 10 × 1 mm



Energy spectrum when used CZT detector 10 × 10 × 5 mm



Internal block diagram

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