Epic-Crystal

Efficient, Professional
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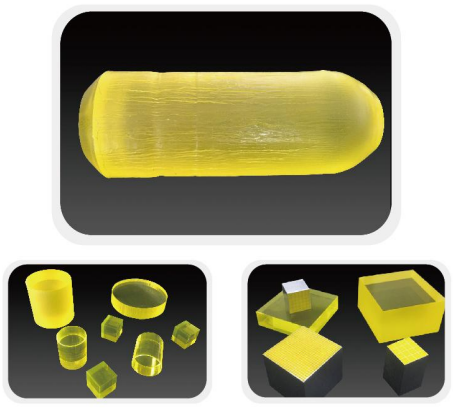
GAGG(Ce) Scintillator



Ce:GAGG, ($Gd_3Al_2Ga_3O_{12}$) is a new scintillator that have high photon yield, fast decay time and no intrinsic activity, it is suitable for gamma spectroscopy and medical imaging applications, also the radiation resistance of GAGG is excellent, which can be used in some high dose industries.

Basic Information

- Growth technique: Czochralski
- Dimension(max): Ø 60 mm x 180 mm
- Achieved items: single crystal, linear and 2 dimensional array

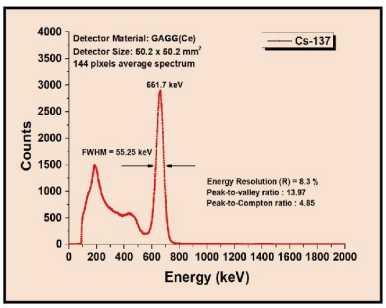
General Properties

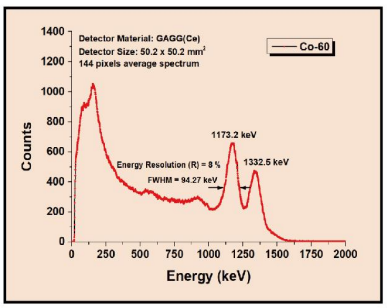
Density(g/cm^3)	6.63
Radiation resistance(rad)	1x10^6
Wavelength of emission max(nm)	540
Light output(Photons/Mev)	50,000
Decay time(ns)	88
Self-radiation	No
Hygroscopic	No
Refractive index	1.9
Hardness(Mho)	8.0

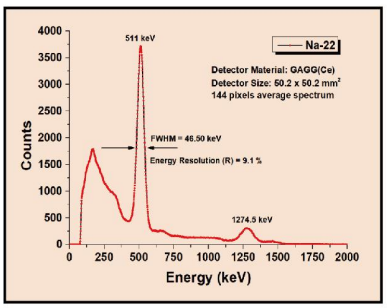
Characterization

12x12 GAGG array, 4.20 mm pitch

Radiation source: Cs^{137}, Co^{60}, Na^{22}; Reflector: Barium sulfate($BaSO_4$); Readout:SiPM







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