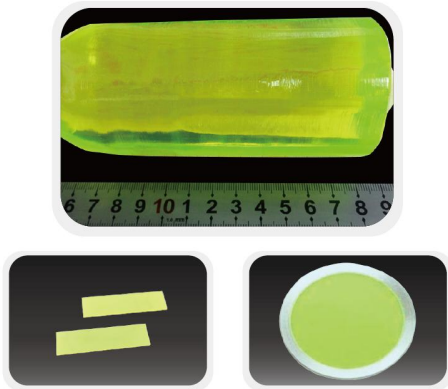


LuAG(Ce) Scintillator



LuAG:Ce is a typical scintillation crystal with garnet structure, the light yield is 25000 Photons/MeV, it also has many other excellent properties, such as high density, large Z_{eff} and good mechanical property. LuAG:Ce thin slice coupled with FOP and CCD can be well applied in X-ray microscopy and micro-nano CT where good spatial resolution is expected.

Basic Information

- Growth technique: Czochralski
- Dimension(max): : \varnothing 80mm x 100 mm
- Available items: Single crystal, thin slice

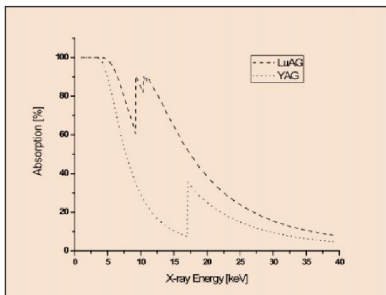
General Properties

Density(g/cm ³)	6.7
Radiation resistance(rad)	1x10 ⁶
Wavelength of emission max(nm)	520
Light output(Photons/MeV)	25,000
Decay time(ns)	60
Hygroscopic	No
Effective atomic number	63
Hardness(Mho)	8.0

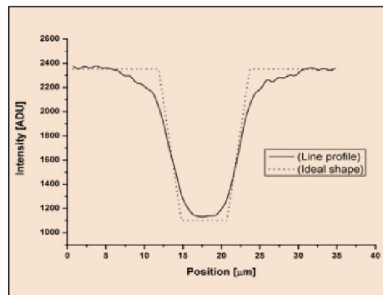
Characterization

Dimension of LuAG(Ce): 25 x 25 x 1 mm

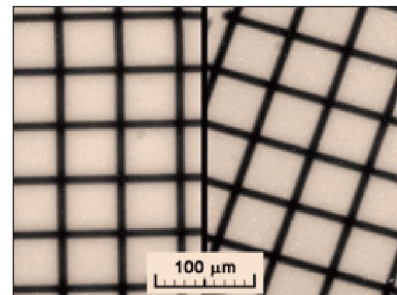
PMT: R1306; Reflector: 50 nm Aluminum coating; Radiation source: Cesium¹³⁷; HV: 650V



X-Ray Absorption curve



Line profile of the grid wire



Spatial resolution

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