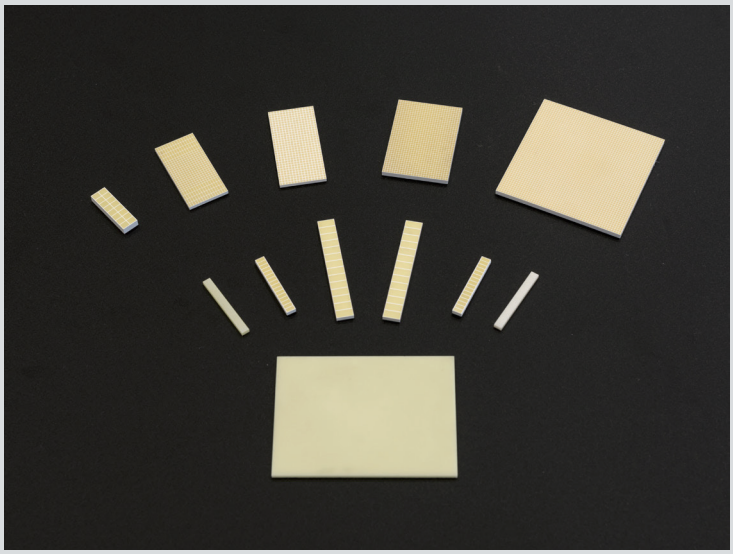
iRay Advanced Material™



- GOS Ceramic Plate / 1D and 2D Arrays

The GOS ceramics produced by iRay are characterized by performance comparable to that of imported products. The company has built a complete automated processing line with the processing capabilities required for products of various specifications, and its products can also be customized according to customer needs.

GOS ceramic(Gd_2O_2S:Pr) belongs to hexagonal system structure, with no harmful to environment, high chemical stability and machinability. GOS doped with rare earth ion has relatively high light output and extremely low afterglow, saying <0.1% after 3 ms. The emission peaks range from 470 ~ 900 nm with spectral sensitivity of silicon photodiodes, now it has been widely used for purposes such as CT scanners, security devices and non-destructive testing.

Scintillation Crystals

GOS Ceramic Scintillators

| High sensitivity and low afterglow |

| Excellent workability |

| No harmful substances |

| Outstanding moisture resistance |

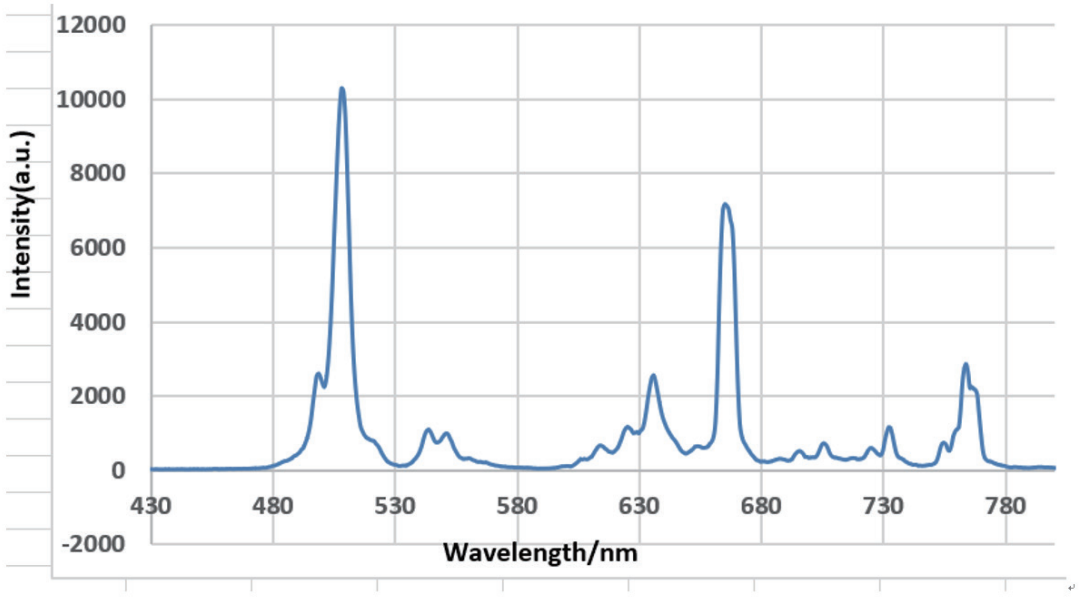
ADVANCED MATERIAL
IMAGING THE FUTURE

Technical Specifications

GOS Ceramic Scintillators

Peak Wavelength (nm)	510
Transparency	Translucent
Light Output (ph/Mev)	27000
Decay Time (μs)	3
Afterglow	< 0.1% after 3 ms
Atomic Coefficient	60
Density (g·cm-3)	7.34
Hygroscopic	No

Charts



X-ray excited luminescence spectrum

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