

SCINTILLATION CRYSTALS

LuAG(Pr) Scintillation Crystal

Product Brochure & Technical Reference

Praseodymium-doped lutetium aluminum garnet for scintillation detector development. Review the UV optical path, sensor response and timing acceptance method for the quoted crystal.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Property	Reference value	Use in specification review
Density	6.73 g/cm ³	Existing ATR material reference; confirm the quoted grade
Peak emission	Near 310 nm	Review sensor response and optical-path transmission
Decay time	About 22 ns	Material reference; not detector coincidence timing resolution
Light yield	22,000-23,000 photons/MeV	Existing ATR reference; confirm source, integration method and optical collection
Hygroscopicity	Non-hygroscopic	Protect optical surfaces and define assembly handling requirements
Hardness	8 Mohs	Material reference; does not establish a minimum machinable size

Reference values and options for selection. Confirm the material grade, geometry, test conditions and acceptance criteria for the quoted configuration.

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Configuration & quotation

Define the component around your application

LuAG(Pr) Configuration Specifications

Parameter	Specification to confirm
Crystal dimensions	Cross-section, length and tolerances per drawing
Surface finish	Identify polished faces and other required finishes
Readout face	Mark the optical coupling face on the drawing
Acceptance testing	Agree measurement conditions and acceptance limits
Chemical formula	Lu ₃ Al ₅ O ₁₂ :Pr
Crystal structure	Garnet
Photosensor	Provide the model and response near the emission band

Prepare your quotation

RFQ input	Information to provide
Material / format	State the material or grade, crystal, screen, panel or bar format and intended application.
Geometry / finish	Provide a drawing, dimensions, tolerances, surface treatment and wrapping or support requirements.
Readout / acceptance	Give the optical readout arrangement and define the test conditions and acceptance criteria.
Order details	Provide quantity, destination and the required delivery schedule.

Reference values and options for selection. Confirm the material grade, geometry, test conditions and acceptance criteria for the quoted configuration.

Send drawings for engineering review

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Open product and inquiry page | Hangzhou, Zhejiang, China