

ENCAPSULATED SCINTILLATORS

Encapsulated NaI(Tl)

Product Brochure & Technical Reference

Encapsulated NaI(Tl) scintillator components for gamma measurement. Select the active crystal dimensions, moisture protection, housing, optical window and photosensor interface.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Design Item	Available Option	Notes
Metal container	Aluminum or stainless steel	Selected according to weight, mechanical strength, environment and mounting requirement.
Optical window	K9 glass, quartz or sapphire	Window choice depends on optical coupling, mechanical strength and environmental requirement.
Geometry	Cylindrical encapsulated NaI(Tl)	Common for PMT-coupled gamma-ray detection modules.
Custom mechanical features	Special flanges, mounting fixtures or other modifications	Provide drawing for review.
Maximum crystal size	Dia. 150 mm x height 400 mm	Subject to specification, encapsulation and performance review.

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

Application examples: Gamma-ray spectroscopy and isotope identification systems; Radiation survey and portable monitoring instruments; Laboratory radiation counting systems

Typical Specification

Model	Crystal Size	Encapsulation	Energy Resolution, Cs-137
Nal-D25H25	Dia. 25.4 x 25.4 mm	Aluminum housing with K9 glass window	<=8.0% at 662 keV or better
Nal-D25H40	Dia. 25.4 x 40.0 mm	Aluminum housing with K9 glass window	<=8.0% at 662 keV or better
Nal-D40H40	Dia. 40.0 x 40.0 mm	Aluminum housing with K9 glass window	<=8.0% at 662 keV or better
Nal-D50H50	Dia. 50.8 x 50.8 mm	Aluminum housing with K9 glass window	<=8.0% at 662 keV or better
Nal-D63H63	Dia. 63.5 x 63.5 mm	Aluminum housing with K9 glass window	<=8.0% at 662 keV or better
Nal-D76H76	Dia. 76.2 x 76.2 mm	Aluminum housing with K9 glass window	<=8.0% at 662 keV or better
Nal-D127H127	Dia. 127 x 127 mm	Aluminum housing with K9 glass window	<=8.0% at 662 keV or better

Prepare your quotation

RFQ Item	Information to Provide
Application	Gamma spectroscopy, survey meter, counting system, environmental monitoring or detector module.
Crystal size	Crystal diameter, height and tolerances, plus housing outline, window clear aperture and preferred listed model if applicable.
Encapsulation	Aluminum or stainless housing, K9/quartz/sapphire window, flange and mounting features.
Performance target	Energy resolution at Cs-137 662 keV, light output, uniformity and inspection requirement.
Readout	Your intended PMT, SiPM or photodiode and its optical coupling interface; define the photosensor and electronics separately from the crystal package.
Order information	Quantity, packaging, inspection report and 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