

ENCAPSULATED SCINTILLATORS

X-Ray NaI(Tl) Scintillator

Product Brochure & Technical Reference

NaI(Tl) scintillator components configured for X-ray detection. Define the entrance window, crystal geometry, energy range and readout arrangement for the measurement.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Design Item	Available Option	Engineering Notes
Metal container	Aluminum or stainless steel	Selected according to weight, mechanical strength, mounting and operating environment.
Optical window	K9 glass, quartz or sapphire	Used on the readout side for optical coupling to PMT or other sensor.
Entrance window	Beryllium or aluminum	Chosen according to low-energy photon transmission, mechanical requirement and handling constraints.
Crystal geometry	Thin disk NaI(Tl)	Typical listed height is 1 mm for low-energy photon response.
Custom mechanical options	Special flanges, mounting fixtures or other modifications	Provide drawing for 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: Soft X-ray detection and counting instruments; Low-energy gamma-ray measurement; Am-241 60 keV reference-source measurements

Typical Specification

Model	Diameter	Height	Encapsulation	Energy Resolution, Am-241
Nal-D25H1	25.4 mm	1 mm	Aluminum housing, K9 glass window, beryllium entrance window	$\leq 18\%$ at 60 keV
Nal-D38H1	38.1 mm	1 mm	Aluminum housing, K9 glass window, beryllium entrance window	$\leq 18\%$ at 60 keV
Nal-D50H1	50.8 mm	1 mm	Aluminum housing, K9 glass window, beryllium entrance window	$\leq 18\%$ at 60 keV

Prepare your quotation

RFQ Item	Information to Provide
Application	Soft X-ray, low-energy gamma, Am-241 measurement, survey instrument or custom module.
Photon energy	Target energy range, source, required threshold and measurement geometry.
Crystal size	Diameter, thickness, tolerance and preferred standard model if applicable.
Entrance window	Beryllium or aluminum, window thickness if specified, and safety/handling requirement.
Readout	PMT or other sensor, optical window, coupling and electronics interface.
Order information	Quantity, drawing, 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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