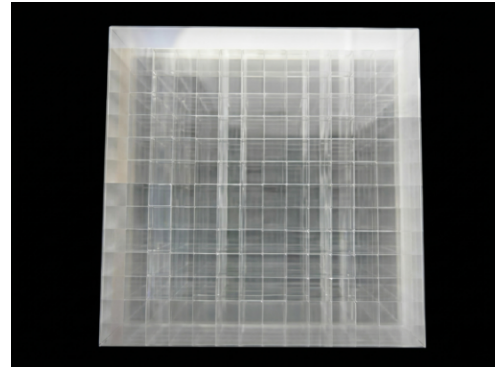


SCINTILLATOR ARRAYS

BGO Array

Product Brochure & Technical Reference

BGO scintillator arrays for gamma-ray detection and PET research. Specify the pixel dimensions, count, pitch, finished envelope and optical isolation rather than relying on material properties alone.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Configuration item	Basis for quotation
Pixel dimensions	Crystal cross-section and length per drawing
Pixel count	Specified rows and columns
Pixel pitch	To be agreed with the inter-pixel stack
Readout face	Marked on the assembly drawing

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

SCINTILLATOR ARRAYS

Configuration & quotation

Define the component around your application

Application examples: PET research: define crystal-to-sensor alignment, light collection and the required imaging or timing measurement.; Gamma-ray imaging: specify pixel layout, readout geometry and how neighbouring signals will be evaluated.; Physics detector development: define the energy range, available volume and required response for the proposed array.

BGO Array Specifications to Confirm

Drawing item	What to specify	Why it matters
Bare crystal size	Width, height and crystal length, with units and tolerances	Defines each scintillator element before the inter-pixel stack is added.
Pixel pitch	Centre-to-centre spacing in both array directions	Defines the alignment pattern relative to the photosensor.
Inter-pixel stack	Reflector, adhesive and any intended gap	Clarifies what occupies the space between adjacent crystal elements.
Finished envelope	Total width, height and thickness, including edge treatment or backing	Defines the component that must fit the holder.
Orientation	Readout face, row direction and any required reference edge	Lets the array drawing and sensor layout use the same reference.

Prepare your quotation

Requested check	Information to agree	How to interpret it
Dimensions and alignment	Drawing revision, tolerances, measurement locations and report requirements	Assess the finished array against the approved drawing.
Pixel light-output uniformity	Test source, sensor, coupling, acquisition settings and calculation method	A percentage is comparable only when its measurement and definition are stated.
Pixel identification or cross-talk	Readout arrangement, irradiation method and evaluation criterion	A flood histogram and an optical cross-talk measurement answer different questions.
Energy or timing resolution	Radiation energy, sensor, electronics, temperature and analysis method	These are detector measurements, not performance guarantees from crystal geometry alone.

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

sales@atrscintillator.com | +86 17796747312

Open product and inquiry page | Hangzhou, Zhejiang, China