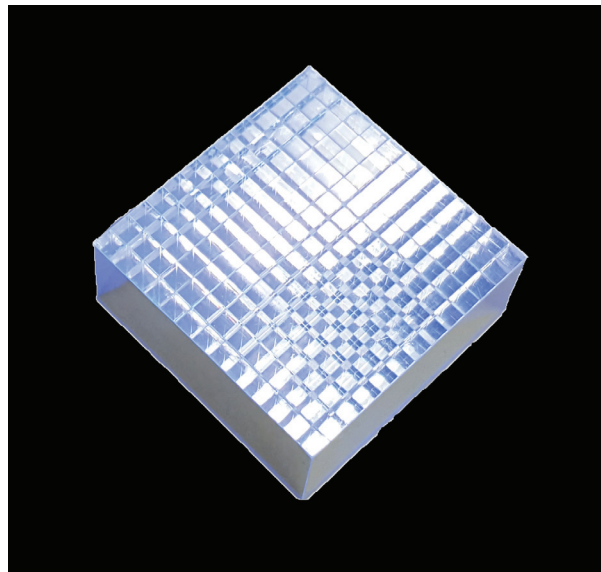


PRECISION SCINTILLATOR ARRAYS FOR RADIATION IMAGING

Precision imaging arrays of Eljen plastic scintillators consist of highly polished square bars assembled into a single physical unit. ESR™ reflector foil is bonded to all surfaces inside the block for light piping within each pixel and to achieve > 70% optical isolation between pixels. Multiple layers of ESR can be used to increase pixel isolation. A single layer of ESR is also laminated to the external sides and the closed face of the array.

(ESR: Trademark of 3M Corporation)

General Array Specifications	
Scintillator Types	Most Eljen plastic scintillators
Pixel Square Cross-Section	0.75 mm to 10 mm
Pixel Length	10 mm to 60 mm
Pixel Width Tolerance (typical)	± 0.02 mm
Pixel Position Tolerance (typical)	± 0.08 mm absolute in both directions
Lateral Array Sizes Available	20 x 20 mm to 200 mm x 200 mm



13 x 13 Array of PSD Plastic Scintillator

Mates precisely to H9500 Multi-Anode PMT

Pixel Size: 2.80 mm x 2.80 mm x 15.0 mm

Pixel positions accurate within 0.05 mm

Revision Date: 10/2017



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