



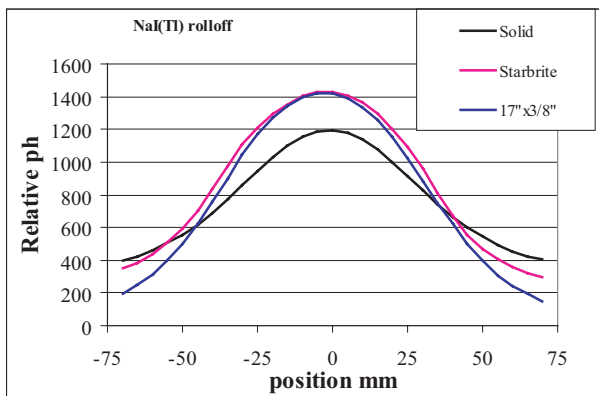
Next Generation Gamma Camera Detector Plate

The StarBrite® scintillation detector is another true innovation in nuclear medicine imaging. The slots in a StarBrite detector assembly help transmit the scintillation light to the exit surface. Because these structures are internal, the forward solid angle acceptance angle is increased and is not limited by critical angle criteria as in the conventional detector designs. The slots also reduce the impact of wide angle reflected light. In general, the slots will significantly reduce the FWHM of the Light Response Function.

These features have been experimentally verified at Saint-Gobain Crystals. They have also been substantiated by Monte Carlo simulation at the University of Pennsylvania. Their results were presented at the 1998 Nuclear Science Symposium. StarBrite detectors are designed for optimal performance, maximizing crystal thickness for improved efficiency for PET applications with slots to improve SPECT performance. Several manufacturers have already designed dual-modality systems that use our StarBrite® detectors.

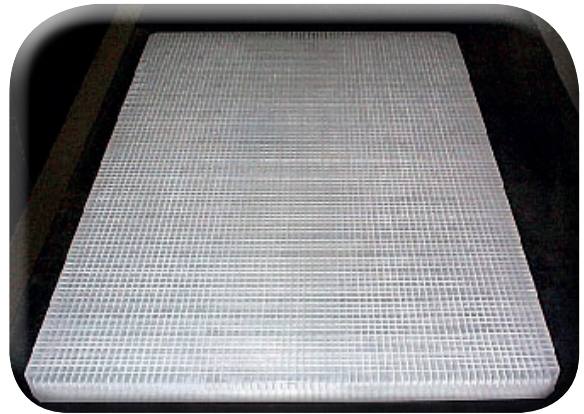
Benefits -

- Increased light output with a narrower FWHM. (See graph)
- Improved performance for applications requiring thicker crystals for PET imaging while minimizing the degradation of low energy performance.



Design Considerations -

The StarBrite® detector is designed to particular OEM requirements. All dimensions including thickness, length, width and slot dimensions may be defined by the application.

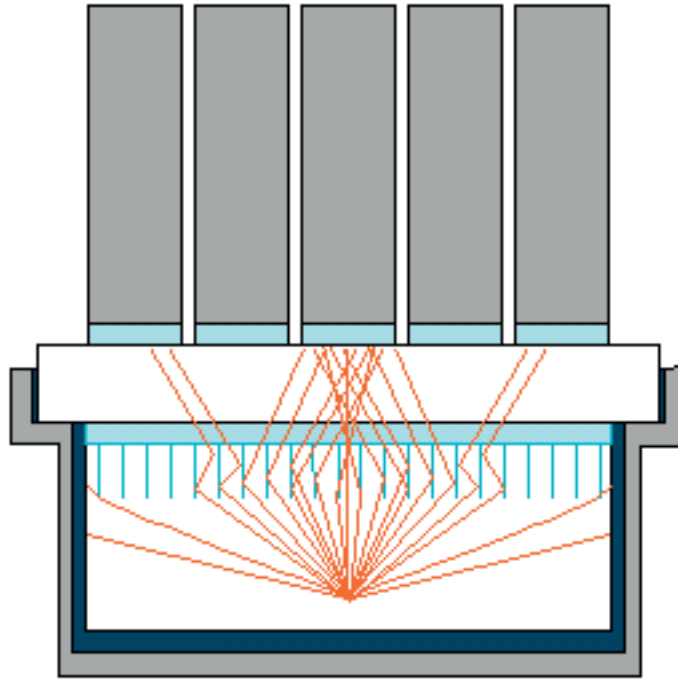




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Performance -

StarBrite® slots overcome limitations of critical angle and further distance by pulling light back in, resulting in greater light output and reduced light spread.



Saint-Gobain Crystals

www.crystals.saint-gobain.com

Manufacturer reserves the right to alter specifications.

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