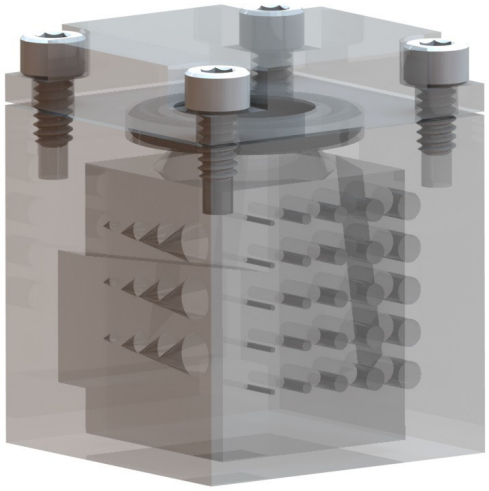
Phantech

RADIOLUMINESCENCE IMAGING PHANTOM

The interaction of radioactive emissions with scintillation material results in the production of low level light, called radioluminescence. Commercial radioluminescence systems feature a scintillation probe that is placed very close to a radioactive source to generate a two-dimensional image. The Phantech radioluminescence phantom is an easy fillable cube with each side containing a distinct pattern used to characterize, calibrate and/or correct scintillation probes. The patterns allow the assessment of edge detection, field uniformity, line detection, point detection/depth sensitivity and resolution.

FEATURES

- ☑ Single fluid volume
- ☑ Plastic Hardware
- ☑ Easy to fill
- ☑ Five useful patterns
- ☑ 3D printed



(At Left): Computer-aided design (CAD) rendering of the phantom assembly. Two custom printed pieces form the filled volume, which features 5 separate patterns that can be used for characterization, calibration, and correction (see below). An o-ring seals the chamber when assembled to prevent leaking and the assembly is held together with plastic fasteners.

The patterns featured inside the phantom volume, each on a separate side of the phantom. From left to right: A large field source with a defined edge (Edge Detection), a uniform source (Field Uniformity), A line source (Line Detection), Pointed sources at varying depths (Point Detection and Depth Sensitivity), and sources of varying diameters at a fixed depth (Resolution).

INNOVATIVE HARDWARE AND SOFTWARE FOR MEDICAL IMAGING

For more information, including pricing, contact us today at:

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