

NEMA PET Scatter Phantom (NU 2-2018)[™]

Model PET/NEMA-SCT/P

Main Features

- The NEMA Scatter Phantom[™] is designed in accordance with the recommendations by the National Electrical Manufacturers Association (NEMA) to standardize the measurement of count rate performance of a scintillation camera in the presence of scatter*
- Is a solid right circular high density polyethylene cylinder
- Has a fillable line source holder parallel to the center axis of the cylinder and offset a distance of 4.5 cm
- The cylinder is made of four sections for ease of carrying/storage

Main Applications

- Acceptance testing with NEMA standard
- Determine the imaging systems relative sensitivity to scatter radiation
- Measure the effects of dead-time and the effects of random events generated at different levels of activity of the line source

Specifications

Outside diameter: ~ 203 mm
Length: ~ 700 mm
Hole diameter: ~ 6.4 mm
Offset distance: ~ 45 mm

Line source insert (polyethylene tubing):

Length: ~800 mm
Inside diameter: ~ 3 mm
Outside diameter: ~ 5 mm
Volume of tubing: ~ 9 mL

Main Material:

Natural High Density Polyethylene

Shipping

Carton: 18" x 18" x 12" Weight: 50lbs.



NEMA PET Scatter Phantom (NU 2-2018)[™]



NEMA PET Scatter Phantom (NU 2-2018)[™] showing tubing



Tubing kit for NEMA PET Scatter Phantom (NU 2-2018)[™]

**Performance Measurements of Scintillation Cameras, NEMA Standards Publication No. NU2, National Electrical Manufacturers Association (NEMA), Washington, D.C., 2001*

**Performance Measurements of Positron Emission Tomographs (PET) NEMA Standards Publication No. NU 2-2018*