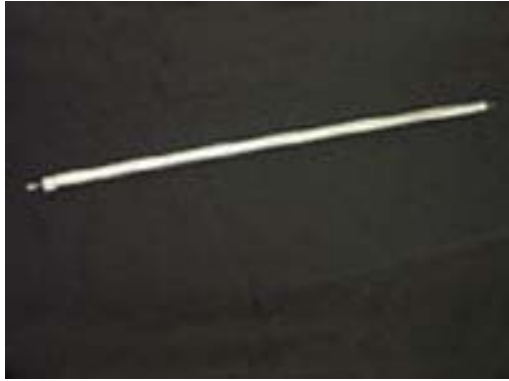


PET Phantoms

PET Sensitivity Phantom - NEMA 2001



The phantom consists of six concentric tubes that slide into each other. The innermost tube is fillable. The outer tubes are placed over the filled inner tube and imaged, adding a tube for each image. The resulting images allow the user to determine the system's sensitivity.

Five internally stacked concentric aluminium tubes – all 700 mm in length

SPECIFICATIONS:

1st Tube

Inside Diameter: 3.9 mm
Outside Diameter: 6.4 mm

2nd Tube

Inside Diameter: 7.0 mm
Outside Diameter: 9.5 mm

3rd Tube

Inside Diameter: 10.2 mm
Outside diameter: 12.7 mm

4th Tube

Inside Diameter: 13.4 mm
Outside Diameter: 15.9 mm

5th Tube

Inside Diameter: 16.6 mm
Outside Diameter: 19.1 mm

6th Innermost Tube

(a fillable polyethylene tube)

Inside Diameter: 1 mm
Outside Diameter: 3 mm

PET Sensitivity NEMA 2001 Phantom

PET Scatter Phantom - NEMA 2001



- 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.
- The NEMA 2000 PET Scatter Phantom is designed in compliance with the recommendations of the National Electrical Manufacturers Association (NEMA-2000 Standard) to standardize the measurement of count rate performance of a scintillation camera in the presence of scatter.
- The phantom contains a fillable line source that runs parallel to the centre axis of the cylinder and offset a distance of 4.5 cm. The cylinder is made of four sections for ease of carrying and storage. There are two lock knobs and a rod to fasten the four sections together.

SPECIFICATIONS:

Cylinder Outside Dimension: 20.3 cm dia x 70 cm long

Cylinder Hole Size: 6.4 mm

Cylinder Hole Offset: 4.5 cm

Line Source Dimensions: 5 mm O.D. x 80 cm

Line Source Inside Diameter: 3.2 mm

PET Scatter Phantom NEMA 2001

