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JRT Associates
 800-221-0111

**UNMATCHED
 SOLUTIONS
 FOR QUALITY
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Pro-NM Performance ECT

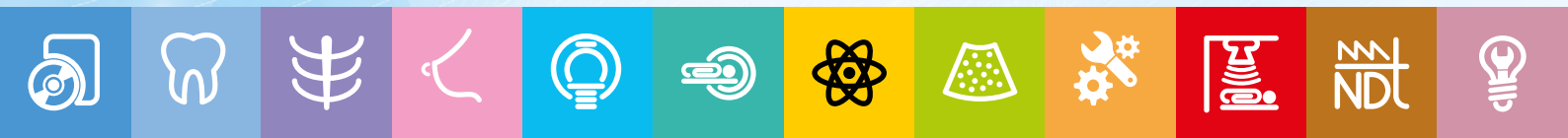
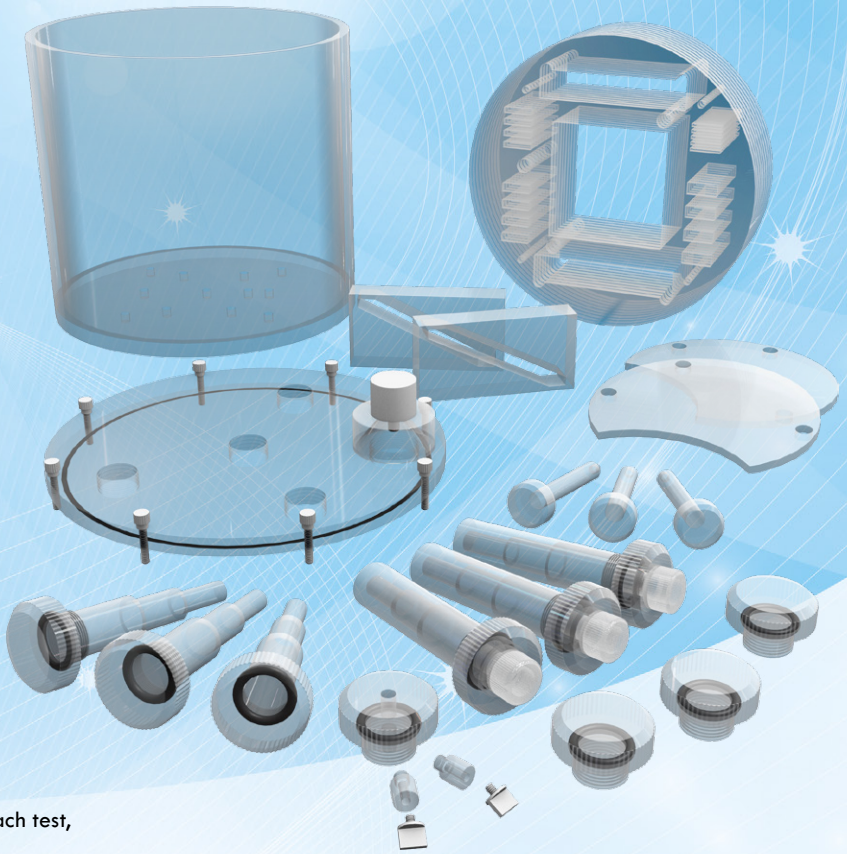
Phantom for **NM systems performance evaluation: routine quality assurance tests, as well as extensive acceptance tests.** It can be used to evaluate: pixel size, spatial linearity, RMS noise, signal to noise ratio (SNR), slice width, uniformity, spatial resolution, point spread function, slice position verification, slice incrementation, accuracy, center of rotation, verification, volume sensitivity and low contrast sensitivity.

**Technical data
 (can be modified to customer specifications):**

- main cylinder:
 - internal cylinder diameter: 206 mm – internal cylinder height: 186 mm
 - cylinder wall thickness: 7 mm
- main insert (slice width, pixel size and high resolution):
 - external diameter 200 mm
 - free square internal 80 x 80 mm
 - consists of 10 x 5 mm discs, 2 spacers and 3 mounting screws
 - contains a pair of channels 20 x 10 mm thick forming two hot ramps whose slope angle tangent is equal to 0.5
 - contains four hot holes 5mm in diameter that are located in corners of the 120 x 120 mm square
 - contains four groups of hot and cold resolution patterns that are 2, 4, 6 and 8 mm thick and correspond to 2.5, 1.25, 0.83 and 0.625 LP/cm
- point source insert (PSF - point spread function):
 - the fill plug can be positioned at the center or at radial plug location
 - source screw contains a well (ø3 x 5 mm) that can be filled with appropriate solution
 - source screw can be mounted outside of or inside the phantom (for in air or scatter measurements)
- low contrast inserts:
 - can be threaded into the phantom in a radial pattern 75 mm of the center axis
 - three cold low contrast rods comprised of three parts: 10, 15 and 20 mm in diameter and 40 mm long
 - three optional hot low contrast rods comprised of three parts: 10, 15 and 20 mm in diameter and 40 mm long that can be filled from the outside
- heavy duty carrying case

Product features:

- Complies with:
 - NEMA Standards Publication (NU 1-2001) Performance Measurements of Scintillation Cameras
 - NEMA Standards Publication (NU-1 2007) Gamma Cameras
 - AAPM Report No. 9 - Computer Aided Scintillation Camera Acceptance Testing
 - AAPM Report No. 22 - Rotating Scintillation Camera SPECT Acceptance Testing and Quality Control
 - ACR-SNM (Res. 5 – 2011) technical standard for diagnostic procedures using radiopharmaceuticals
- CE certified
- the Manual provides detailed guidelines for carrying out each test, results assessment and registration



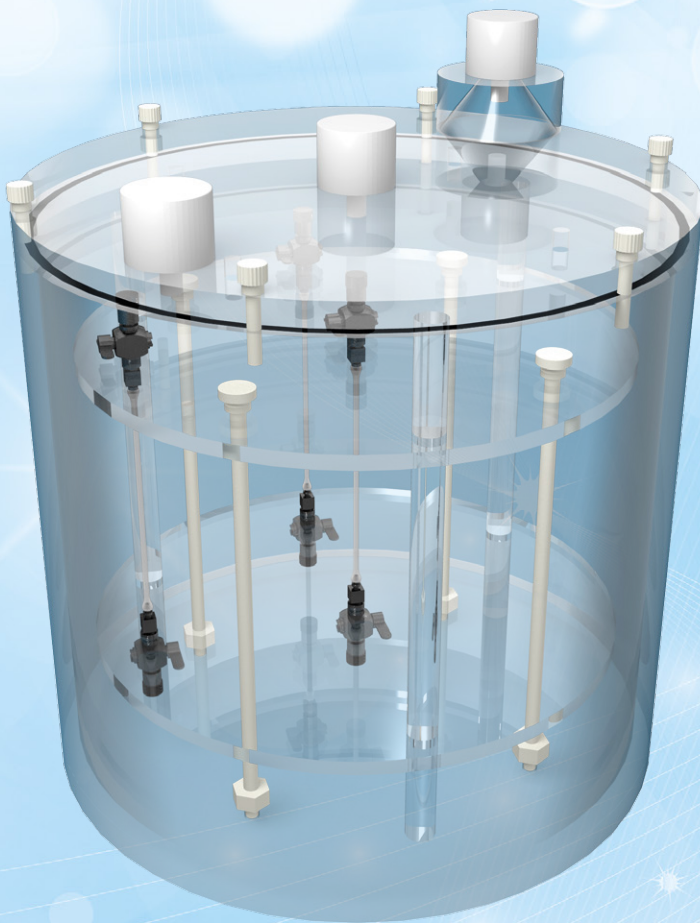
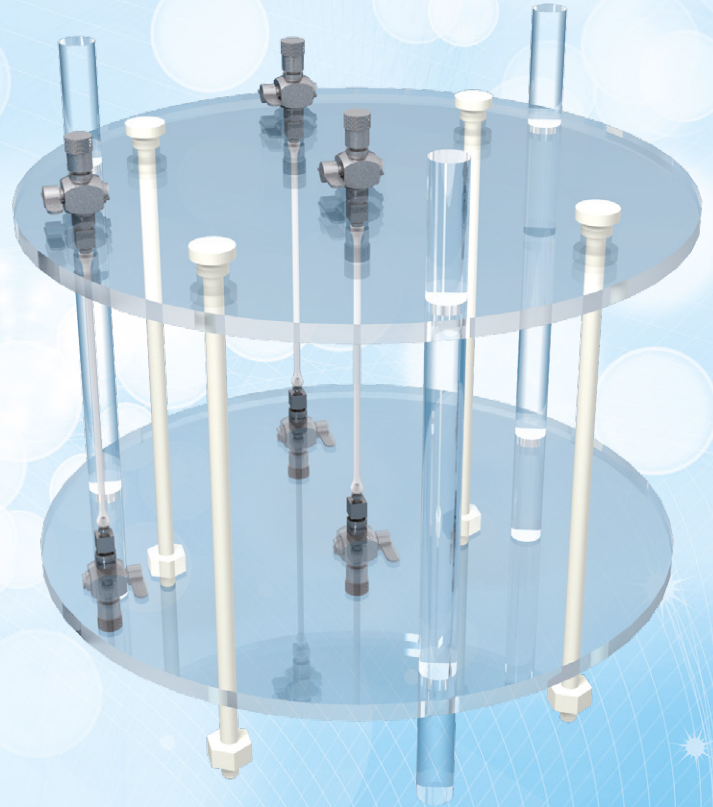


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Pro-NM Linear Source Module

This module can be used as a standalone in air or in water if mounted in the Pro-NM Performance cylinder. It can be used to evaluate changes of radius-of rotation on spatial resolution, spatial resolution measurement in air and in water, quantitative evaluation of reconstruction filters and scatter compensation methods.



Technical data

(can be modified to customer specifications):

- insert diameter: 186 mm
- diameter of line sources: 1 mm
- spacing of line sources: 75 mm
- useful height of line sources: 70 mm
- stopcocks with luer connection allow for easy and safe filling and draining of line sources

Product features:

- Complies with:
 - NEMA Standards Publication (NU 1-2001) Performance Measurements of Scintillation Cameras
 - AAPM Report No. 9 - Computer Aided Scintillation Camera Acceptance Testing
 - AAPM Report No. 22 - Rotating Scintillation Camera SPECT Acceptance Testing and Quality Control
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