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Pro-CT MultiEnergy

04-801



The Pro-CT MultiEnergy phantom is designed for the evaluation and characterization of multi-energy and spectral CT systems. Its modular construction combines a large elliptical body with a central head module, providing two clinically relevant geometries within a single phantom platform.

A configurable set of tissue-equivalent and material-specific inserts enables assessment of system response to a wide range of materials. Available inserts include water- and adipose-equivalent materials, iodine solutions at multiple concentrations, iodine cores of different diameters, calcium solutions, and blood- and brain-equivalent materials. This configuration supports material differentiation, quantitative evaluation, and performance assessment in multi-energy CT imaging.

Technical data:

- Elliptical body geometry: 300 x 400 mm.
- Central Ø 200 mm head module integrated into the body geometry.
- Three-section construction for easy lifting 55 mm per section, 165 mm total axial length.
- Table mount: support with adjustable legs and a screw mechanism for clamping the three phantom sections together during positioning and scanning
- Inserts: water/tissue, iodine, calcium, blood, brain.
- Dedicated 5.0 mg/mL iodine core inserts with Ø 2 mm, Ø 5 mm and Ø 10 mm cores.
- Insert identification: unique end-face patterns are machined into each insert for easy visual identification and software-based automatic recognition



Inserts:

No.	Description
1	True Water H ₂ O
2	Adipose tissue
3	Pro-Water
4	Iodine 0.2 mg/mL
5	Iodine 0.5 mg/mL
6	Iodine 1.0 mg/mL
7	Iodine 2.0 mg/mL
8	Iodine 5.0 mg/mL
9	Iodine 10.0 mg/mL
10	Iodine 15.0 mg/mL
11	Iodine 20.0 mg/mL
12	5.0 mg/mL Iodine core, Ø 2 mm
13	5.0 mg/mL Iodine core, Ø 5 mm

No.	Description
14	5.0 mg/mL Iodine core, Ø 10 mm
15	Calcium 0 mg/mL
16	Calcium 5 mg/mL
17	Calcium 10 mg/mL
18	Calcium 20 mg/mL
19	Calcium 50 mg/mL
20	Calcium 100 mg/mL
21	Calcium 200 mg/mL
22	Calcium 300 mg/mL
23	Blood v1, pe: 1.10
24	Blood v2, pe: 1.07
25	Blood v3, pe: 1.03
26	Blood + Iodine 2.0 mg/mL
27	Blood + Iodine 4.0 mg/mL
28	High-Equivalency Brain

Product features:

- complies with:
 - IEC 61223-3-5
 - IEC 61223-2-6
- CE marked
- the manual provides detailed guidelines for carrying out each test, results assessment and registration