CT ACR 464 Phantom

Leverage a sophisticated design to comply with guidelines, and more.

- The only phantom needed to meet American College of Radiology (ACR) accreditation guidelines
- Versatility permits checking of multiple parameters, efficiently

Benefits

- Single phantom permits checking multiple parameters
- Compact design makes the phantom safe to store and easy to transport
- Automated software allows for fast and simple reporting of results

With the CT ACR 464 Phantom, you gain a multi-functional resource for your department. Not only is it essential for compliance, it allows the testing of: positioning and alignment; CT number accuracy; slice thickness; low contrast detectability, image resolution; image uniformity; spatial resolution; inter and intra plane distance measurement accuracy; and more.

Accessories

CT ACR 464 Phantom Body Ring
The CT ACR 464 Phantom can easily be inserted into the Body Ring adapter to permit fast imaging QA for a better indication assessment of a scanner’s performance with large patients.

CT ACR 464 Phantom Extensions
The CT ACR 464 Phantom Extensions accurately represent scatter effects from widebeam CT scanners, thus eliminating the need to add a water bolus or other material when measuring the CT ACR 464 Phantom.

This product is available through JRT Associates  800-221-0111
CT ACR 464 Phantom modules

**Specifications**
- **Material:** Zero HU Solid Water®
- **Diameter:** 20.0 cm (7.9 in)
- **Length:** 16.0 cm (6.3 in)
- **Weight:** 5.3 kg (11.7 lbs)

**Imbedded Test Objects**
- **Water Equivalent Linearity Rod:** Solid Water, Zero HU
- **Bone Equivalent Linearity Rod:** Bone tissue equivalent material
- **Acrylic Linearity Rod:** Cast Acrylic
- **Polyethylene Linearity Rod:** Low Density Polyethylene
- **Low Contrast Module Matrix:** Ciba Geigy CB4 epoxy or equivalent
- **Low Contrast Rods:** Ciba Geigy CB4 epoxy (density adjusted to yield 6 ±0.5 HU difference) or equivalent

**Tungsten Carbide Beads:** 0.28 mm (0.011 in) in diameter grade 25 tungsten carbide beads
- **Line Pair Material:** 6061 Aluminum and Polystyrene
- **Steel Beads Intra-module Homogeneity:** The mean ROI values within any module, test objects excluded, can differ by no more than 2 HU
- **Intra-phantom homogeneity modules 1, 3 & 4:** The average CT number a module must meet the requirements of 0 ±5 HU

**Additional Accessories**
- Phantom Stand
- Hard Case
- Soft Case
- Automated Analysis Software

**MODULE 1**
Positioning and alignment, CT number accuracy and slice thickness.

**MODULE 2**
Low contrast resolution. Features a series of cylinders with different diameters, all at 0.6% (6 HU) difference from the background material.

**MODULE 3**
CT number uniformity assessment. Includes two small targets for testing inplane distance measurement accuracy and more.

**MODULE 4**
High contrast (spatial) resolution. Contains eight high contrast resolution patterns of 4, 5, 6, 7, 8, 9, 10 and 12 line pairs per cm.

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