

# CT ACR 464 Phantom

## Multi-Modality CT Accreditation

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



The CT ACR 464 Phantom enables comprehensive testing, including positioning and alignment accuracy, CT number accuracy, slice thickness, low contrast detectability, image resolution and uniformity, spatial resolution, and inter- and intra-plane distance measurement accuracy.

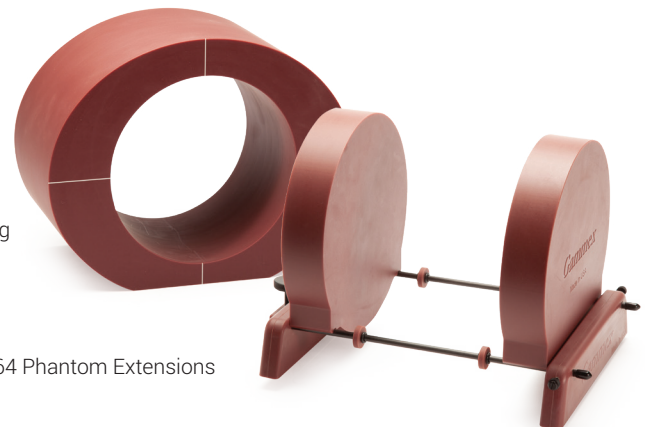
### RapidCHECK™ Integration

For faster CT Image Quality Analysis, use RapidCHECK to create trending reports and an easily searchable permanent record. Define baseline with your initial scan using RapidCHECK with the CT ACR 464 Phantom. RapidCHECK will suggest tolerance values based on ACR guidelines and empirical measurements. With the baseline set, each scan is evaluated and scored against your defined tolerances.

### Accessories – Phantom Body Ring & Extension Kit

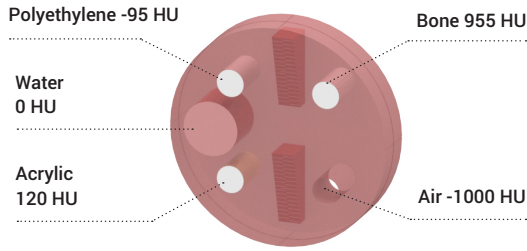
- Easily insert phantom into Body Ring adapter for a better assessment of scanner performance of large patients
- Extensions accurately represent scatter effects from widebeam CT scanners, eliminating the need for a water bolus or other material when measuring

CT ACR 464 Phantom Body Ring



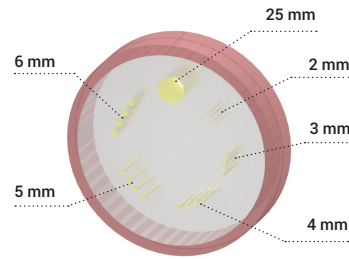
CT ACR 464 Phantom Extensions

# CT ACR 464 Phantom modules



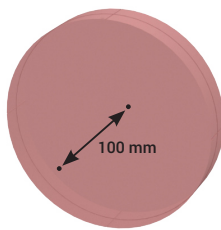
## MODULE 1

Positioning and alignment, CT number accuracy and slice thickness.



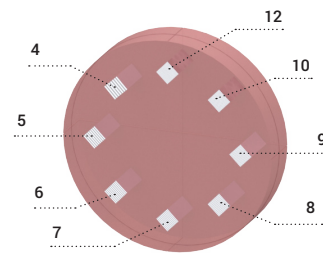
## MODULE 2

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.

## Specifications

<b>Material:</b>	Zero HU Solid Water®
<b>Diameter:</b>	20.0 cm (7.9 in)
<b>Length:</b>	16.0 cm (6.3 in)
<b>Weight:</b>	5.3 kg (11.7 lbs)

### Imbedded Test Objects

<b>Water Equivalent Linearity Rod:</b>	Solid Water, Zero HU
<b>Bone Equivalent Linearity Rod:</b>	Bone tissue equivalent material
<b>Acrylic Linearity Rod:</b>	Cast Acrylic
<b>Polyethylene Linearity Rod:</b>	Low Density Polyethylene

<b>Low Contrast Rods:</b>	6 ±0.5 HU Contrast rods, in sizes ranging from 2 mm to 6 mm, plus 25 mm
<b>Tungsten Carbide Beads:</b>	0.28 mm (0.011 in) in diameter grade 25 tungsten carbide beads
<b>Line pair Material:</b>	6061 Aluminum and Polystyrene
<b>Intra-phantom homogeneity modules 1, 3 &amp; 4:</b>	The average CT number a module must meet the requirements of 0 ±5 HU

### Additional Accessories

Phantom Stand
Soft Case
RapidCHECK™ Image Analysis Software