



ACR CT Accreditation Phantom

GAMMEX 464

The Gammex 464 ACR CT Phantom is designed to be an integral part of the American College of Radiology (ACR) CT Accreditation Program. This voluntary program provides physicians with an opportunity for a comprehensive peer review of their CT facility, personnel qualifications, image quality and quality assurance programs. CT accreditation encourages patient's confidence and demonstrates your commitment to quality healthcare to payers, regulatory agencies and employers. The ACR CT Accreditation Phantom can be used for initial QA assessment and routine monthly QA testing to help ensure that patients are receiving the lowest possible CT dose.

Solid Water® construction makes for a convenient, physically stable test device that provides reproducible results over time. The phantom consists of four modules designed to examine a broad range of scanner parameters. It features white scribed markings on the axial, coronal and sagittal axis, and HEAD, FOOT and TOP markings to ensure proper alignment.

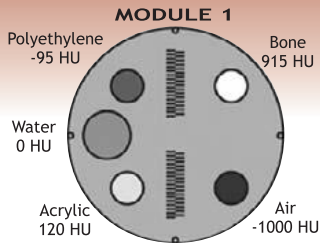
The optional phantom base, Gammex 464-STND (shown above with the phantom) provides stability, makes alignment easier and features built-in leveling devices.

Gammex continued

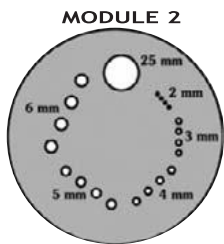


464 PHANTOM

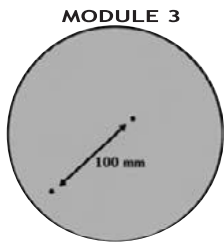
DIAGNOSTIC RADIOLOGY



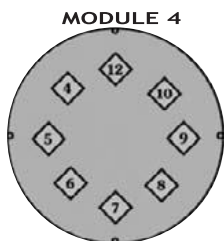
Positioning and alignment, CT number accuracy and slice thickness.



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



CT number uniformity assessment. Includes two small targets for testing inplane distance measurement accuracy.



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

Phantom Construction

Matrix material . . . Solid Water®, 0 ±5 HU
 Length 16 cm (6.30 in)
 Diameter 20 cm (7.88 in)
 Weight 5.3 kg (11.75 lbs)

Imbedded Test Objects

Water equivalent
 linearity rod Solid Water®, 0 HU

Bone equivalent
 linearity rod 915 HU 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 0.011 in diameter grade 25 tungsten carbide beads

Line pair
 material. 6061 Aluminum and Polystyrene

Steel beads 1.00 mm grade 25 chrome steel balls
 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 of a module must meet the requirements of 0 ±5 HU.

Optional Phantom Stand Available
Optional Hard and Soft Cases Available



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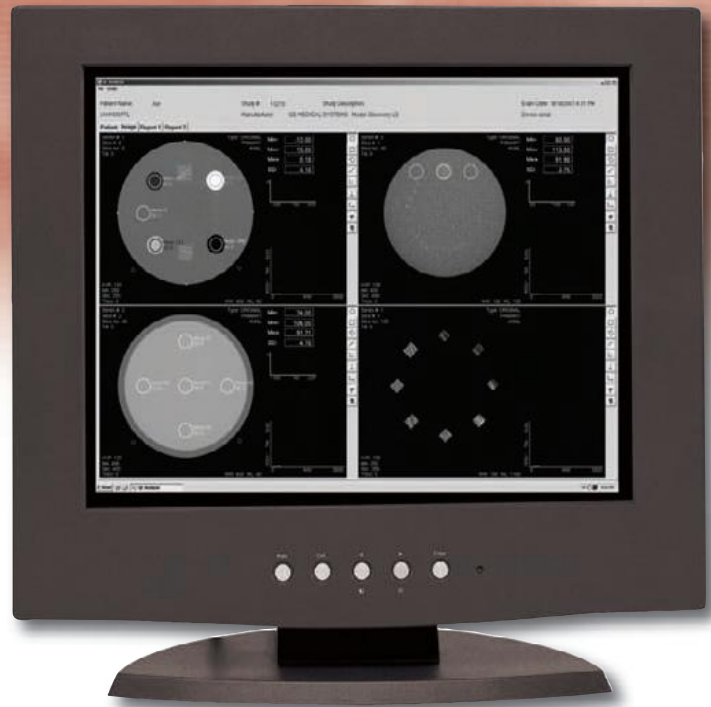
ULTRASOUND



MAMMOGRAPHY



RADIATION ONCOLOGY



Automated CT Software for the Gammex 464 ACR Accreditation Phantom

GAMMEX 464-ACTS

The NEW Gammex 464-ACTS Automated CT Software provides automated data analysis for the ACR accreditation CT Phantom 464. Physicists who have a responsibility for obtaining or maintaining ACR accreditation for one or more CT scanners will appreciate the time savings provided by the new software.

The 464-ACTS software will help medical physicists to significantly reduce their time spent analyzing the results of the scan, while providing excellent Region of Interest (ROI) positioning precision. All results are available in report form, enabling the physicist to simplify and speed up the quality control process.

Image Analysis is provided for the following:

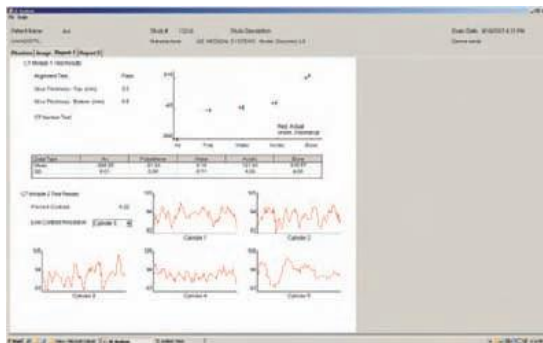
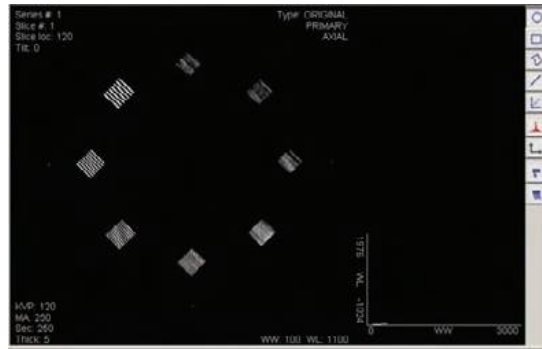
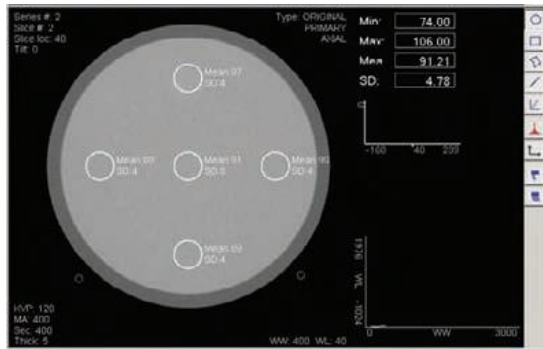
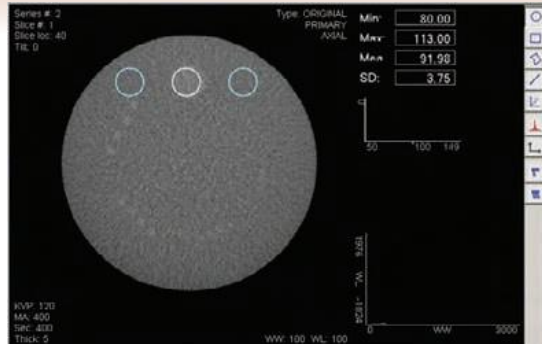
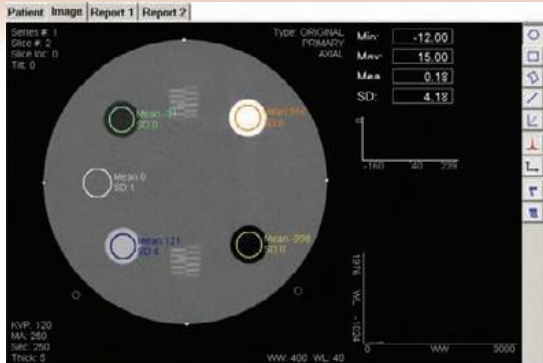
- Slice Thickness
- Measured CT numbers:
 - Polyethylene
 - Bone mimicking material
 - Water mimicking material
 - Acrylic
 - Air
- Low Contrast Resolution
- CT number uniformity and accuracy
- Distance accuracy
- High contrast resolution

Gammex



GAMMEX 464-ACTS

DIAGNOSTIC RADIOLOGY



SPECIFICATIONS

MINIMUM HARDWARE REQUIREMENTS

- Microsoft Windows XP Operating System
- Clean Install
- Service Pack 2
- Intel Pentium-based 1 GHz microprocessor
- 1 GB free hard drive space
- 1 GB RAM
- CD-ROM Drive
- 32 bit Color
- 1280x1024 screen resolution



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