

GAMMEX

MAMMOGRAPHY



Mammographic Accreditation Phantom

GAMMEX 156

The Gammex 156 Mammographic Accreditation Phantom has been the #1 phantom listed by the ACR since the start of the MQSA program in 1994. The Gammex 156 provides the physical standard baseline for assuring the quality of the images produced by your mammographic system.

The phantom simulates the x-ray attenuation of a 4.2 cm slab of compressed human breast composed of 50% adipose tissue and 50% glandular tissue. Target objects in the phantom are of known size, shape, and density. These represent the different structures or malignancies found when imaging the breast. Image quality and system sensitivity is evaluated using these targets and

following ACR/MQSA guidelines. The 156 is also an excellent tool to help identify artifacts due to grids, filters, film-processing (for film-screen systems), as well as those produced by digital mammography systems.

Routine use of the Gammex 156 Mammographic Accreditation Phantom helps detect many imaging changes that degrade image quality before they affect clinical results.

The phantom consists of a precision wax insert containing the test objects. The insert is protected by an external acrylic shell. The combination of these materials provides the simulation of a 4.2 cm thick 50%/50% breast. A reference contact radiograph of the insert is included. This provides information on the location

continued

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LASER ALIGNMENT

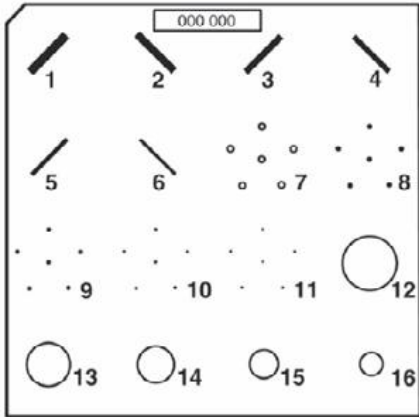
DIAGNOSTIC RADIOLOGY

ULTRASOUND

MAMMOGRAPHY

continued from front...

and orientation of the test objects in the individual phantom. An acrylic test disk provides the test step needed to measure density differences.



Target layout of the Gammex 156

SPECIFICATIONS

Phantom Body

Material Acrylic

Phantom

Dimensions 4.5x10.2x10.8 cm (HWD)
(1.75x4x4.25 in)

Acrylic Base 3.3 cm (1.3 in) thick

Cover 0.3 cm (0.12 in) thick

Acrylic Disk 4 mm thick x 1 cm diameter

Test Objects Nylon fibrils (1.56, 1.12, 0.89, 0.75,
0.54 and 0.40 mm nylon fibers)

Simulated micro-
calcifications (0.54, 0.40, 0.32, 0.24 and
0.16 mm specks)

Tumor-like
masses (2.00, 1.00, 0.75, 0.50, 0.25 mm)

Included is a film, which is a contact image of the wax insert of your Gammex 156.



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