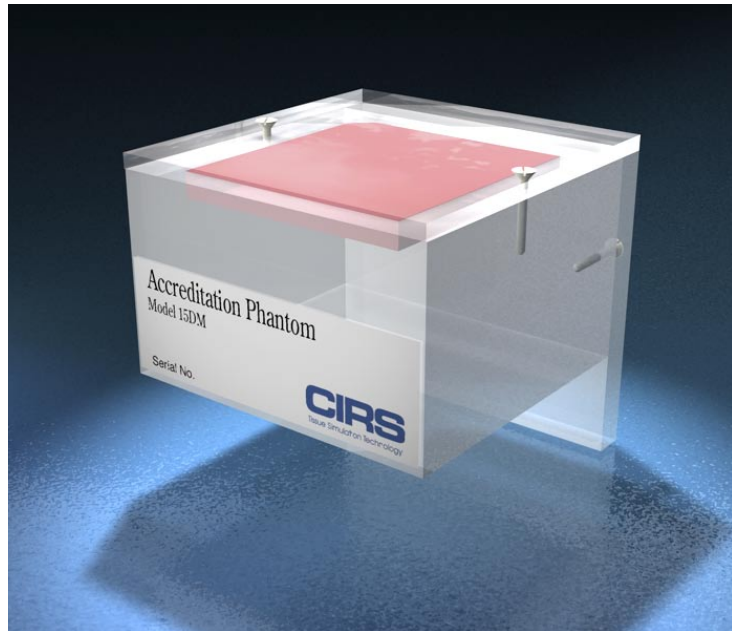


# Digital Mammography Accreditation Phantom

*A Compact Version of the Mammographic Accreditation Phantom*

The Digital Mammography Phantom was designed to evaluate image quality in digital mammography systems currently used for stereotactic biopsy and localization. This phantom is a miniaturization of the CIRS Model 015, Mammography Accreditation Phantom used for routine mammography quality control. Objects within the phantom simulate calcifications, fibrous calcifications in ducts, and tumor masses.

The 4.4 cm thick Digital Mammography Phantom is made of a 7 mm wax block insert containing 12 sets of test objects, a 3.4 cm (approx. 1-3/8") thick acrylic base, and a 3 mm (1/8") thick cover. All of this together approximates a 4.2 cm compressed breast of average glandu-



**Model 015DM**

lar /adipose composition. Included in the 5x5 cm wax insert are aluminum oxide ( $Al_2O_3$ ) specks to simulate micro-calcifications. Four different size nylon fibers simulate fibrous structures and four

different size lens shaped masses simulate tumors.

Phantom includes a operating instructions, reference faxitron x-ray image and magnifying lens.

*Tissue Simulation & Phantom Technology*

**CIRS**

2428 Alameda Avenue • Suite 212 • Norfolk, Virginia 23513 • USA  
(800) 617-1177 • (757) 855-2765 • FAX (757) 857-0523  
www.cirsinc.com • admin@cirsinc.com

# Model 015DM Specifications

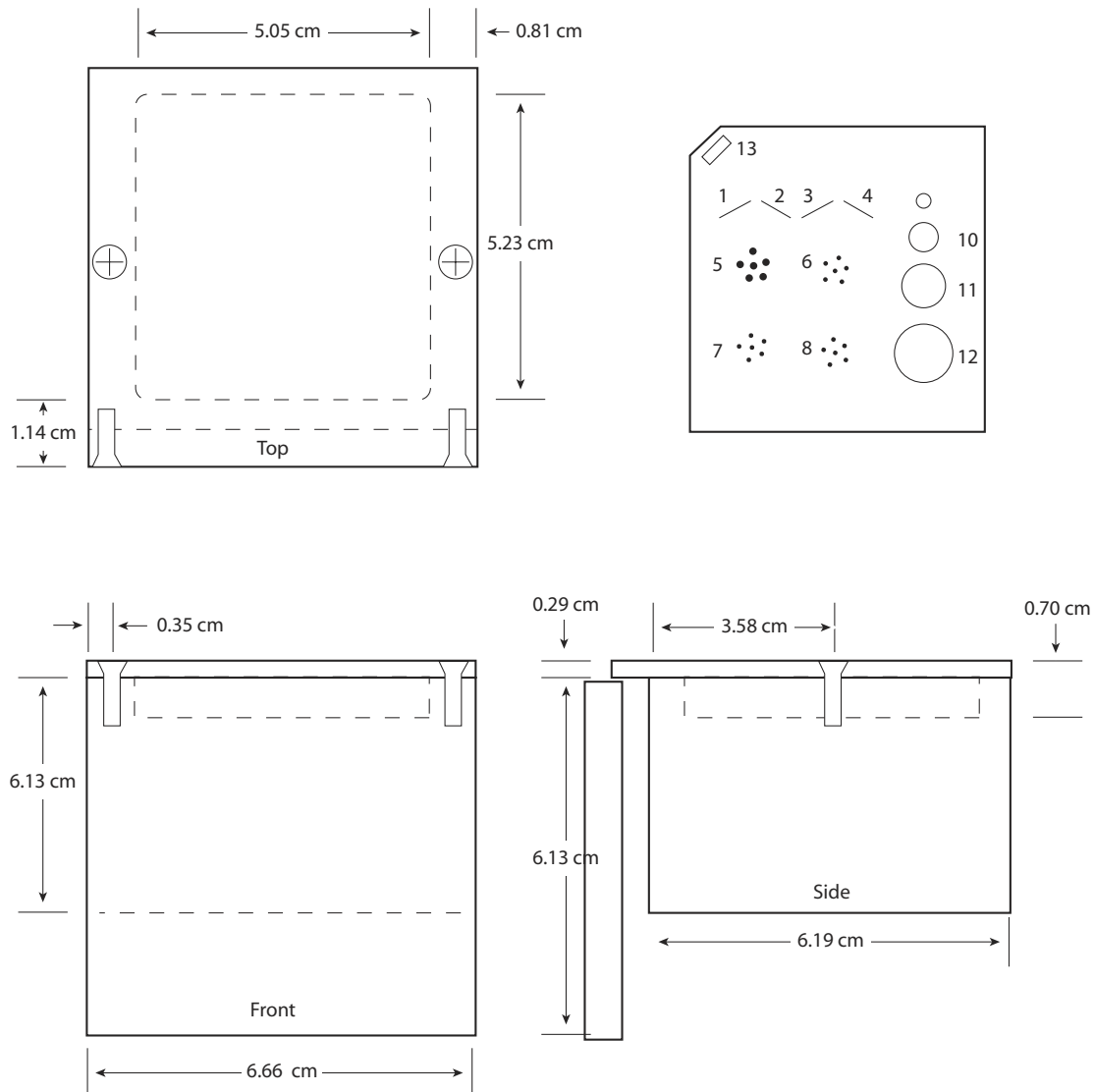
## PHANTOM BODY

MATERIAL: ACRYLIC

LENGTH: 6.66 CM

WIDTH: 6.19 CM

DEPTH: 4.0 CM



## WAX INSERT

### FIBERS

1. 0.89 mm nylon fiber
2. 0.75 mm nylon fiber
3. 0.54 mm nylon fiber
4. 0.40 mm nylon fiber

### SPECKS

5. 0.54 mm  $Al_2O_3$  speck
6. 0.32 mm  $Al_2O_3$  speck
7. 0.24 mm  $Al_2O_3$  speck
8. 0.16 mm  $Al_2O_3$  speck

### MASSES

9. 0.25 mm (thickness) mass
10. 0.50 mm (thickness) mass
11. 0.75 mm (thickness) mass
12. 1.00 mm (thickness) mass