

# Model L-040-GSE

## Multi-Tissue Ultrasound Phantom



Ludlum Measurements, Inc.

### Introduction

The General Purpose Multi-Tissue Ultrasound Phantom offers a reliable medium of known test objects for repeatable QA assessment of ultrasound scanner performance.

The phantom is made of a solid elastic material. The Zerdine® material has been designed to accurately simulate human liver tissue. The phantom material is unaffected by changes in temperature. It can be subjected to boiling or freezing conditions without sustaining significant damage. The elasticity of the material allows more pressure to be applied to the scanning surface without damaging the material.

The phantom contains a variety of vertical plane and horizontal plane targets, as well as simulated masses, cysts, and an array of resolution targets. The phantom comes with a variety of scanning wells to allow for large sector probes.



### Specifications

Part Number 99-9012

**HEIGHT:** 20.3 cm (8 in.)

**WIDTH:** 17.8 cm (7 in.)

**LENGTH:** 12.7 cm (5 in.)

**MATERIAL:** epoxy resin phantom with calcium carbonate  
Optional carrying case available.

# Model L-610

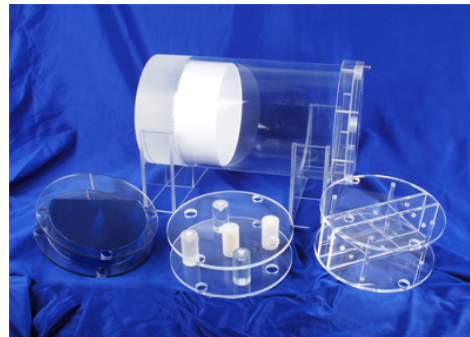
## AAPM CT Performance Phantom

### Introduction

The Ludlum CT Performance Phantom is a modular phantom that provides the user with an efficient method to evaluate the performance of the CT scanners. The 'one' phantom allows for testing of a full range of performance parameters such as noise, spatial resolution, low and high contrast, slice thickness, alignment, and linearity. The phantom design is based on the guidelines provided in AAPM Report #1.

The phantom is made up of an acrylic source tank and several resolution inserts. The inserts include a linearity high contrast insert, beam width insert, low contrast insert and a resolution insert, along with an external resolution and noise ring. Additionally, a 20.3 cm (8.0 in.) ID Teflon® ring, positioned at the base of the tank, is designed to simulate bone density.

Note: The External Whole Body Ring is available as an option. Order Model L-610-411, part number: 99-9440.  
OPTIONAL CASE: Model L-610CS



### Specifications

Part Number 99-9414

**SOURCE TANK:** 21.6 X 20.3 X 32.4 cm (8.5 x 8.0 x 12.75 in.) (OD x ID x L)

#### INSERTS - (OD X L)

LINEARITY/CONTRAST: 19.1 x 6.4 cm (7.5 x 2.5 in.)

RESOLUTION: 19.1 x 6.4 cm (7.5 x 2.5 in.)

BEAM WIDTH: 19.1 x 8.9 cm (7.5 x 3.5 in.)

LOW CONTRAST: 21.6 x 9.5 cm (8.5 x 3.8 in.)

#### OPTIONAL EXTERNAL WHOLE BODY RING:

30.5 x 21.6 x 6.4 cm (12 x 8.5 x 2.5 in. (OD x ID x L)

**TEFLON BAND (BONE RING):** 20.3 x 0.64 cm

(8.0 x 0.25 in.) (ID x Thickness)

**WEIGHT:** 7.8 kg (17.3 lb)

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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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