

# Gray Scale Ultrasound Phantom

Model 047



**ZERDINE® Inside**  
A registered trademark of CIRS

## Evaluate Resolving Power as a Function of Depth, Size and Contrast

- Allows rapid visualization of gray scale resolution power at continuous depths from 1 to 12 cm
- Ensure over ten years of reliable use through reinspection and repair services

***Includes best in industry four-year warranty***

The CIRS Gray Scale Ultrasound Phantom is a single, simple tool to assess resolution of masses varying in size, depth and contrast. The phantom's unique design allows for rapid visualization of gray scale resolution power at continuous depths from 1 to 12 cm.

Due to the controlled scatter characteristics of the targets, the Model 047 may be used to evaluate gray scale sensitivity on all diagnostic ultrasound machines with a wide range of transducer frequencies. This phantom is an ideal training tool for learning optimum system setup and evaluating system performance.

Masses may be viewed with either a circular or elliptical cross-section. The mass diameters were selected so the volume imaged would double as the diameter increased. The gray-scale levels were selected to achieve a doubling in signal intensity as you move from mass to mass. The anechoic masses comply with the ACR accreditation program.

The phantom is constructed of Zerdine<sup>1</sup>, a patented, tissue-mimicking material, and is housed in a rugged ABS plastic for increased durability. The Gray Scale Ultrasound Phantom includes foam-lined carry case, certificate of compliance, user guide and 48-month warranty.

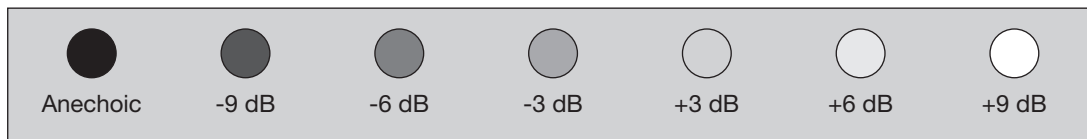
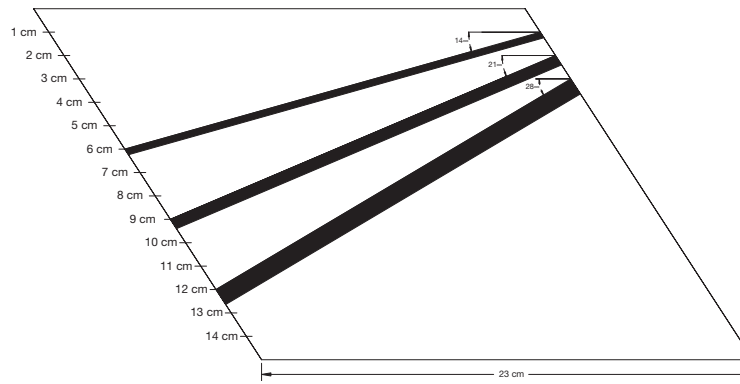
### Compare Gray Scale Sensitivity for Different:

- Imaging Depths
- Target Sizes
- System Settings
- Transducers

<sup>(1)</sup> US Patent # 5196343

# CIRS

900 Asbury Ave • Norfolk, Virginia 23513 • USA • Tel: 757-855-2765 • [WWW.CIRSSINC.COM](http://WWW.CIRSSINC.COM)



Test objects have same speed and attenuation as background

**SPECIFICATIONS**

<b>DIMENSIONS</b>	35 cm x 13 cm x 17 cm (13.8" x 5" x 6.7")
<b>PHANTOM WEIGHT</b>	23 lbs. (10.5 kg)
<b>HOUSING MATERIALS</b>	ABS Plastic
<b>SCANNING WELL</b>	1 cm deep
<b>MEMBRANE</b>	Saran-based laminate
<b>TISSUE-MIMICKING MATERIAL</b>	Zerdine® solid elastic hydrogel Freezing point: 0° C Melting point: Above 100° C Speed of Sound: 1540 m/s Attenuation: 0.5 dB/cm/MHz Other: Compatible with harmonic imaging
<b>TARGETS</b>	Diameters: 2.4, 4 and 6.4 mm Contrast: Anechoic, -9, -6, -3, +3, +6 and +9 dB (with respect to liver-like background)

**MODEL 047 INCLUDES**

QTY	COMPONENT DESCRIPTION
1	Gray Scale Ultrasound Phantom
1	Carry Case
1	Removable Cover
-	48-Month Warranty
-	User Guide
-	Certificate of Compliance

