

## Model 054GS

## Multifunktionsfantom från CIRS

*Now with gray scale and improved sensitivity targets!*

The CIRS Model 054GS General Purpose Ultrasound Phantom offers all the features of the original Model 054 but now contains gray scale targets and improved sensitivity targets that exceed the phantom requirements outlined in the ACR accreditation program.

The Model 054GS is constructed from the patented solid elastic material, Zerdine® (1). Zerdine is a durable, reliable and accurate tissue mimicking material. The Model 054GS background material mimics the acoustic properties of soft tissue. A removable water well and endocavity cover extends the use of the phantom by allowing evaluation of all transducer configurations: linear, curvilinear and inter-cavity.

CIRS ultrasound QA phantoms all come standard with a robust housing, rugged carry case, 4-year warranty, user guide and data sheet.

(1) US PATENT# 5196343



Model 054GS

Exceeds ACR Accreditation requirements

## Performance Measurements

- Dead Zone
- Horizontal Distance Accuracy
- Vertical Distance Accuracy
- Depth of Penetration
- Image Uniformity
- Axial Resolution

# Model 054GS Specifications:

**MATERIAL:** Zerdine, solid elastic water-based polymer  
Freezing Point: 0° C  
Melting Point: Above 100° C

**ATTENUATION COEFFICIENT:**  
0.5 dB/cm-MHz  
0.7 dB/cm-MHz available upon request

**SPEED OF SOUND:**  
1540 m/s ± 10 m/s

**SCANNING WELL:**  
15 x 10 x 1 cm deep

**SCANNING MEMBRANE:**  
Saran-based laminate

**VERTICAL PLANE TARGETS:**  
Number of Groups: 1  
Number of Targets Per Group: 10  
Depth Range: 18 cm  
Spacing: 2 cm  
Material: 0.1 mm Nylon monofilament

**HORIZONTAL PLANE TARGETS:**  
Number of Groups: 1  
Number of Targets Per Group: 7  
Depth Range: 9 cm  
Spacing: 2 cm  
Material: 0.1 mm Nylon monofilament



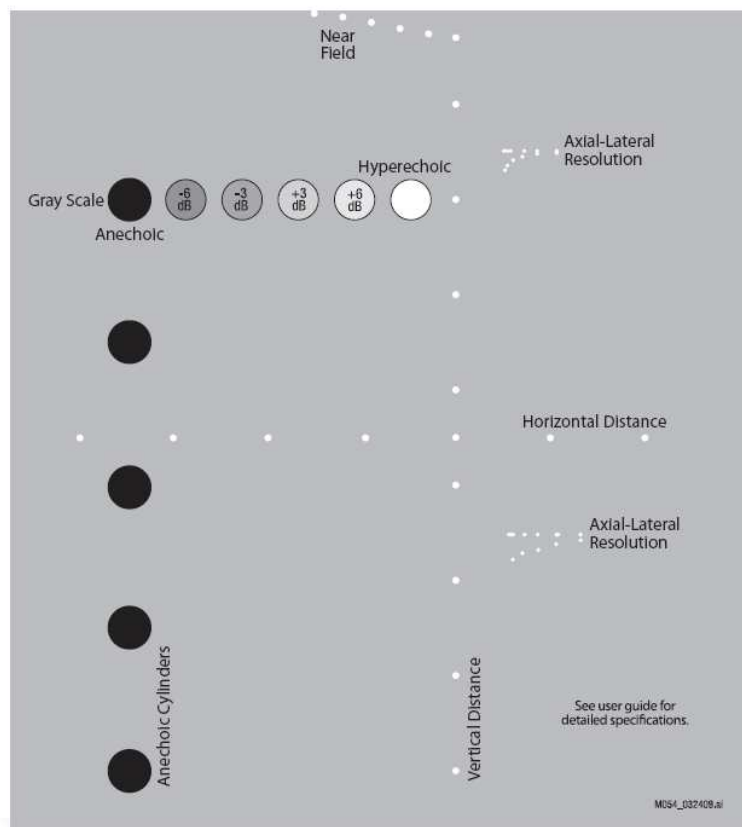
Phantom includes detachable scanning wells and air tight case.

**NEAR FIELD TARGETS:**  
Number of Groups: 1  
Number of Targets Per Group: 6  
Depth of Targets: 1, 2, 3, 4, 5 & 6 mm  
Material: 0.1 mm Nylon wire

**AXIAL - LATERAL RESOLUTION TARGETS:**  
Number of Groups: 2  
Number of Targets Per Group: 12  
Depth: 3 & 11 cm  
Spacing: 0.5, 1, 2, 3, 4 & 5 mm  
Material: 0.8 mm Nylon wire

**ANECHOIC CYLINDERS:**  
Number of Targets: 5  
Diameter of Target: 8 mm  
Contrast: Anechoic

**GRAY SCALE TARGETS:**  
Number of Targets: 6  
Diameter of Target: 8 mm  
Depth of Target: 4 cm  
Contrast: Anechoic, -6 dB, -3 dB, +3 dB, +6 dB hyperechoic



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