

General Purpose Ultrasound Phantom



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

This product is available through:

JRT Associates 800-221-0111

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

