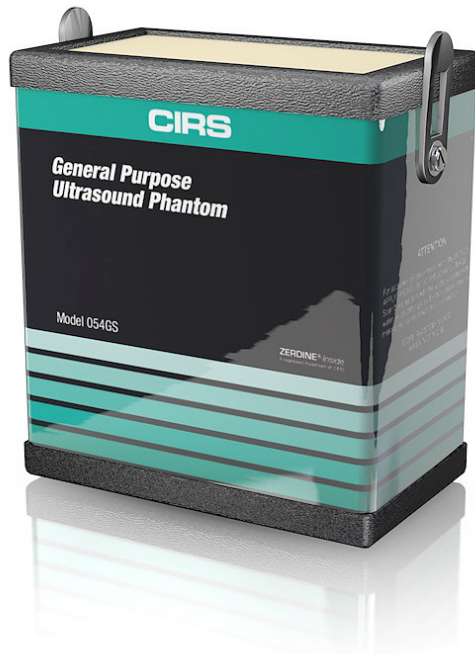


General Purpose Ultrasound Phantom

Model 054GS



ZERDINE® Inside
A registered trademark of CIRS

EXCEED ACR ACCREDITATION REQUIREMENTS

The CIRS Model 054GS General Purpose Ultrasound Phantom contains gray scale targets and improved sensitivity targets that exceed the phantom requirements outlined in the ACR accreditation program.

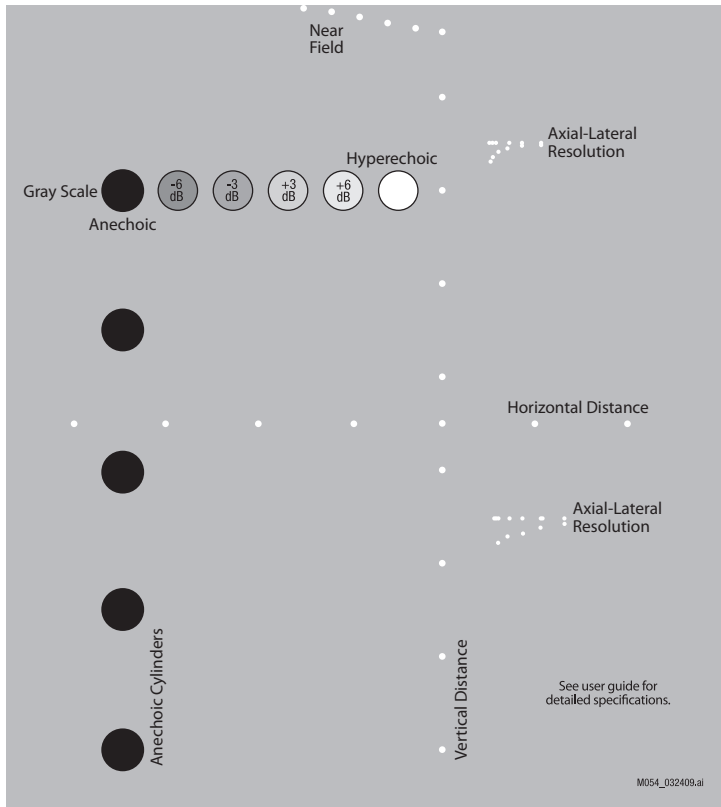
The Model 054GS is constructed from a patented solid elastic material, Zerdine® ⁽¹⁾. Zerdine is a durable, reliable and accurate tissue- mimicking material. A removable water well and endocavity cover extends the use of the phantom by allowing evaluation of all transducer configurations, including linear,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

CIRS ultrasound QA phantoms all come standard with a robust housing, foam-lined carry case, 48-month warranty, and user guide.

⁽¹⁾ US Patent # 5196343

Testing Parameters

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



Phantom includes detachable scanning wells and air tight case.

SPECIFICATIONS

CONTAINER

Dimensions: 17.8 x 12.7 x 20.3 cm
 Weight: 11 lbs
 Material: ABS Housing

BACKGROUND GEL

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

SCANNING WELL

15 x 10 x 1 cm deep

SCANNING MEMBRANE

Dimensions: 6 x 11 x 0.5 cm
 Material: Zerdine, high scatter

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

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
 3 cm Spacing: 0.25, 0.5, 1, 2, 3, & 4 mm
 11 cm Spacing: 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

MODEL 054GS INCLUDES

General Purpose Ultrasound Phantom
 Carry Case
 Removable Scanning Wells
 User Guide
 48-month Warranty

