

**Model 040GSE**

**Multifunktionsfantom från CIRS**

*The new standard for ultrasound quality assurance*

The CIRS Model 040GSE Multi-Purpose Multi-Tissue Ultrasound Phantom not only contains all the features of the original CIRS Model 040, but also includes gray scale targets, anechoic stepped masses and elasticity targets. The phantom is designed to meet the ultrasound QA challenges of today and tomorrow.

The unique dual attenuation of the background gel allows for evaluation of transducers that range from 2 MHz - 15 MHz. A removable water well and endocavity cover extends the use of the phantom by allowing evaluation of all transducer configurations: linear, curvilinear and intercavity.

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



**Model 040GSE**

Exceeds ACR Accreditation Requirements

**Performance Measurements**

- Dead Zone
- Horizontal Distance
- Vertical Distance
- Depth of Penetration
- Image Uniformity
- Axial Resolution
- Lateral Resolution
- Anechoic Mass Resolution
- Gray Scale Contrast Resolution
- Elasticity Image Evaluation



Overall Ultrasound image of Model 040GSE

# Model 040GSE Specifications:

**MATERIAL:** Zerdine<sup>®(1)</sup>, 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

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

**SCANNING WELL:**  
1 cm deep

**SCANNING MEMBRANE:**  
Saran-based laminate

**NEAR FIELD GROUP:**  
Material: Nylon monofilament  
Number of targets: 5  
Depth range: 1 to 5 mm  
Distance between Targets: 1 mm

**HORIZONTAL AND VERTICAL GROUPS:**  
Material: Nylon monofilament  
Wire diameter: 100 microns

**VERTICAL GROUP:**  
Number of targets: 15  
Wire diameter: 100 microns  
Depth range: 1 to 16 cm  
Spacing: 10 mm

**HORIZONTAL GROUP**  
Number of groups: 2  
Wire diameter: 100 microns  
Depth range: 4 and 9 cm  
Number of targets: 4 & 7 respectively  
Spacing: 10 & 20 mm respectively

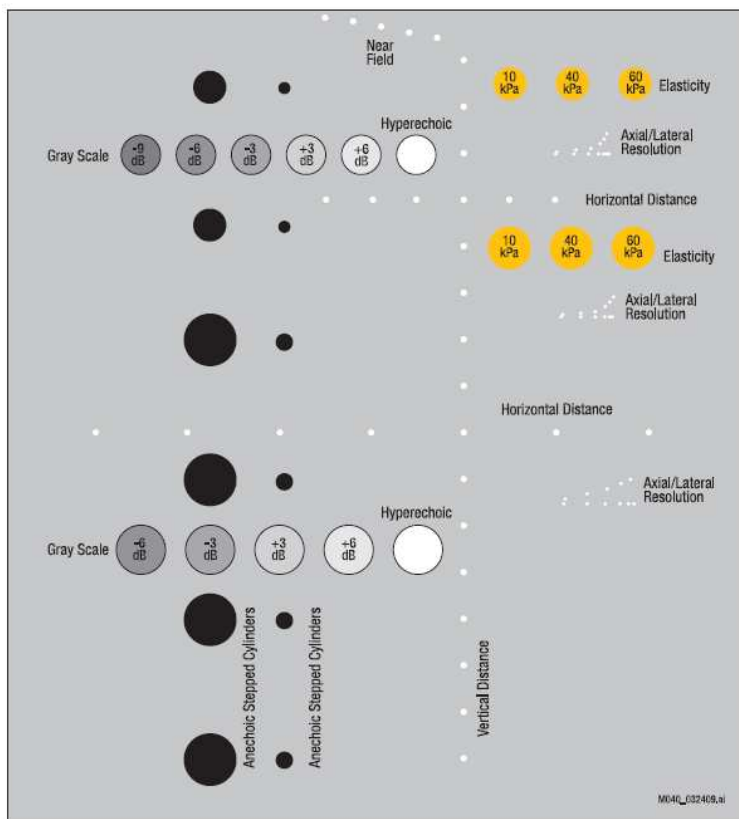
**COMBINED AXIAL-LATERAL RESOLUTION GROUPS:**  
Number of groups: 2  
Wire diameter: 80 microns  
Depth range: 3, & 6.5 cm  
Axial Intervals: 4, 3, 2, 1, 0.5 & 0.25 mm

Number of groups: 1  
Wire diameter: 80 microns  
Depth range: 10.5 cm  
Lateral Intervals: 4, 3, 2, 1, & 0.5 mm

**CYSTIC MASSES:**  
Number of targets: 12  
Diameter of targets: 1.33, 2.00, 2.99, 4.47, 6.69 & 10.00 mm  
Depth of Targets: 1.5, 4.5, 7.0, 10.0, 13.0, 16.0 cm  
Attenuation: 0.5 dB/cm-MHz ± 0.1  
Speed: 1540 m/s ± 10 m/s  
Contrast: Anechoic, Cyst-like

**GRAY SCALE TARGETS:**  
Number of targets: 6  
Diameter of targets: 8 & 10 mm  
Depth of targets: 3 & 11.5 cm  
Attenuation: 0.5 dB/cm-MHz ± 0.1  
Contrast: -9, -6, -3, +3, +6 & <15 dB

**ELASTICITY TARGETS:**  
Number of targets: 3  
Diameter of targets: 6 & 8 mm  
Depth of targets: 1.5 & 5 cm  
Attenuation: 0.5 dB/cm-MHz  
Elasticity: 10, 40 & 60 kPa



Phantom comes with detachable scanning wells to accommodate large sector probes and small endocavity probes. It is packaged in a foam lined carrying case.

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