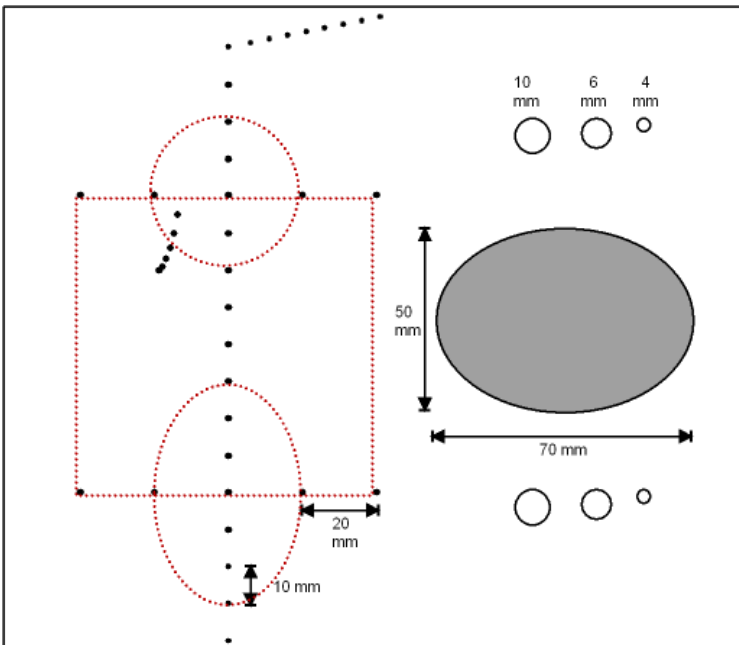




Model 560 3D Calibration Phantom

- Dead Zone or Ring-Down
- Vertical Measurement Calibration
- Horizontal Measurement Calibration
- Sensitivity/Penetration
- Functional Resolution
- Focal Zone
- Axial & Lateral Resolution
- Image Uniformity
- Volume Measurements



Product Description

The Model 560 rubber-based, tissue-mimicking (TM) phantom is designed to provide a basic means of evaluating an imaging system's performance and its 3D volumetric measurements.

The phantom is designed with a combination of monofilament line targets, six non-echogenic cylindrical targets of varying sizes and a 3D egg-shaped target structure. The monofilament line targets have a diameter of 0.12 mm, to optimize the displayed image at frequencies ranging from 2.25 to 7.5 MHz. Four groups of line targets are provided to evaluate the vertical and horizontal calibration measurements, axial-lateral resolution and the dead zone. Lifetime warranty.

Specifications

General

Overall Dimensions	20 x 17 x 8cm
Weight	2.35 Kg
Scan Surfaces	4
Scan Surface Dimensions	7 x 8 cm 19 x 8 cm

Tissue Mimicking Material

Type	Urethane rubber
Freezing Point	< -40°C
Melting Point	> 100°C
Attenuation Coefficient	0.5 dB/cm/MHz \pm 5.0%
Speed of Sound	1450 m/s \pm 1.0% at 23°

Line Targets

Material	Monofilament Nylon
Diameter	0.12mm \pm 5%
Vertical Group	
Number of Targets	17
Interval Spacing	1.0 cm
Depth	1.0 - 18.0 cm
Horizontal Group	
Number of Targets	10
Number of Groups	2
Interval Spacing	2.0 cm
Depth	
Scanning Surface #1	5.0 cm
Scanning Surface #3	5.0 cm

Dead Zone Group	
Number of Targets	9
Lateral Displacement	5.0 mm
Interval Spacing	1.0 mm
Depth	2.0 - 10.0 mm
Axial-Lateral Resolution Group	
Number of Targets	6
Lateral Displacement	1.0 mm
Interval Spacing	5.0, 4.0, 3.0, 2.0, 1.0 mm
Axial Depths	5.5 & 12.5 cm
Lateral Depths	5.5 & 14 cm
Depth	7.0, 11.0, 4.0, 16.0 cm

Anechoic Target Structures

Type	Non-echogenic, cylindrical
Number of Targets	6
Targets:	17
Group 2, 3, 4	8
Group 6, 8	
Diameters	4, 8, 10 mm
Interval Spacing (center to center)	1.0 cm
Depth	3, 5, 12, 15 cm

3D Target Structure

Type	Echogenic, Egg-shaped structure
Number of Targets	1
Dimensions	Length: 70 mm Width: 50 mm
Volume	91.6 cm ³