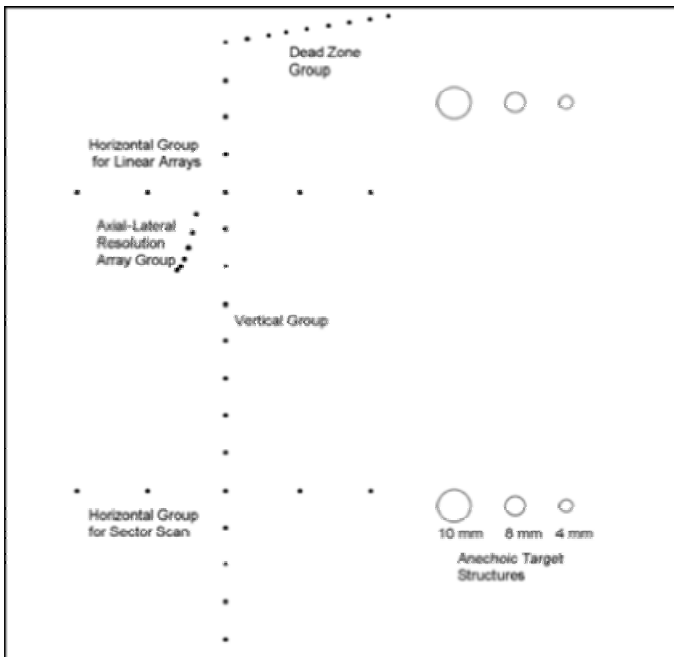




Model 535 Basic QA Phantom

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



Product Description

The Model 535 rubber-based, tissue-mimicking (TM) phantom is designed to fulfill the basic testing requirements of a Quality Assurance Program. The phantom is designed with a combination of monofilament line targets and six tissue mimicking cylindrical targets of varying sizes. 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% @3.5 Mhz
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	4.5 & 16.5 cm
Lateral Depths	5.5 & 11 cm

Anechoic Target Structures

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

ATS Laboratories, Incorporated, 404 Knowlton St., Bridgeport, CT USA Tel: 203-579-2700 Fax: 203-333-2681

Email: atslaboratories@yahoo.com Webpage: atslaboratories.com