

Basic QA Phantom

Model ATS 535H



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. All ATS urethane phantoms are guaranteed for the useful life of the phantom, defined as 10 years.

Key Tests with Model ATS 535H

- Uniformity
- Depth of Penetration
- Beam Profile/ Focal Zone/ Lateral Response Width
- Vertical Distance Measurement
- Horizontal Distance Measurement
- Axial and Lateral Resolution
- Contrast Resolution
- Dead Zone Assessment

CIRS

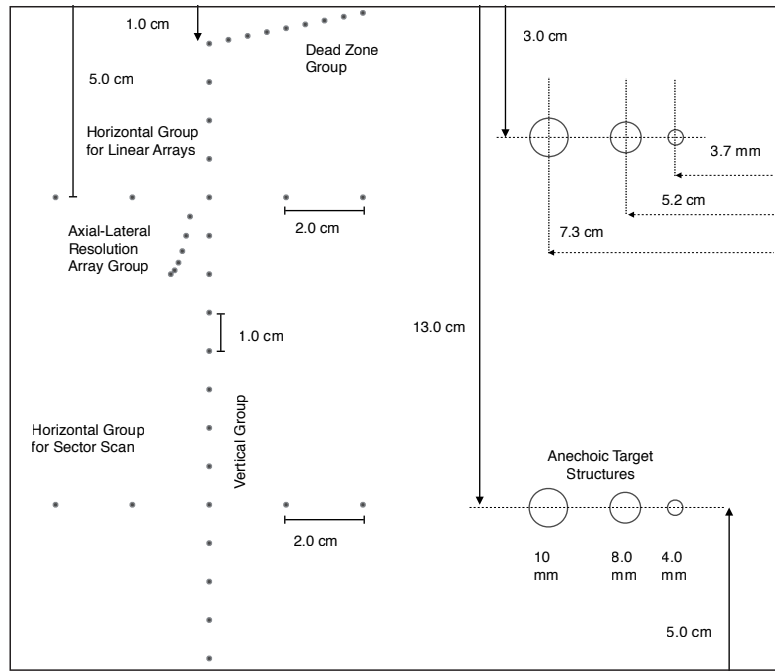
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SPECIFICATIONS

DIMENSIONS	23.4 x 20.9 x 9.5 cm (9" x 8" x 4")
PHANTOM WEIGHT	7 lbs. (3.1 kg)
HOUSING MATERIALS	PVC
WALL THICKNESS	1 cm
SCAN SURFACES	4
SCAN SURFACES DIMENSIONS	17.5 x cm 19 x 8 cm
TISSUE-MIMICKING MATERIAL	Urethane Rubber

URETHANE PROPERTIES

Freezing point: < -40°C
 Melting point: Above 100° C
 Speed of Sound: 1450 m/s at 23°
 Attenuation Coefficient: 0.5 dB/cm/MHz (measured at 3.5 MHz)

LINE TARGETS

Material: Monofilament nylon
 Diameter: 0.12 mm

VERTICAL DISTANCE GROUP

Number of targets: 17
 Depth range: 1.0 - 17.0 cm
 Spacing: 1 cm

HORIZONTAL DISTANCE GROUP

Number of groups: 2
 Depths: 5 cm from Scanning Surface #1
 5 cm from Scanning Surface #3
 Number of Targets: 10
 Spacing: 2 cm

DEAD ZONE GROUP

Number of targets: 9
 Depth range: 2.0 - 10.0 mm
 Lateral Displacement: 5 mm
 Spacing: 1 mm

MODEL ATS 535H INCLUDES

QTY	COMPONENT DESCRIPTION
1	Basic QA Phantom
-	10-Year Warranty
-	User Guide
-	Certificate of Compliance

AXIAL-LATERAL RESOLUTION GROUPS

Number of targets: 6
 Lateral Displacement: 1 mm
 Spacing: 5, 4, 3, 2, 1 mm
 Axial Depth: 5.5 & 11 cm
 Lateral Depth: 4.5 & 16.5 cm

ANECHOIC STEPPED CYLINDERS

Type: Non-echogenic, cylindrical
 Number of targets: 6
 Diameter: 4, 8, 10 mm
 Spacing: 1.0 cm
 Depth: 3, 5, 13 cm