



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.

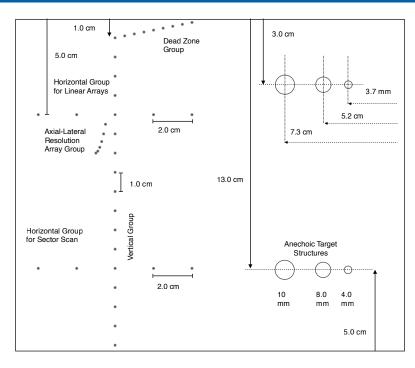
# Key Tests with Model ATS 535H

- 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



## **BASIC QA PHANTOM**

## Model ATS 535H



## **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 DIMEN- Sions	17.5 x cm 19 x 8 cm	
TISSUE-MIMICKING MATERIAL	Urethane Rubber	

#### URETHANE PROPERTIES

 Freezing point:
 < -40°C</td>

 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)

Monofilament nylon

### LINE TARGETS

Material: Diamter:

Depth range:

Spacing:

VERTICAL DISTANCE GROUP Number of targets: 1

17 1.0 - 17.0 cm 1 cm

0.12 mm

#### HORIZONTAL DISTANCE GROUP

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

#### DEAD ZONE GROUP

Number of targets:9Depth range:2.0 - 10.0 mmLateral Displacement:5 mmSpacing:1 mm

1

# 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

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Type:Non-echogenic, cylindricalNumber of targets:6Diameter:4, 8, 10 mmSpacing:1.0 cmDepth:3, 5, 13 cm



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