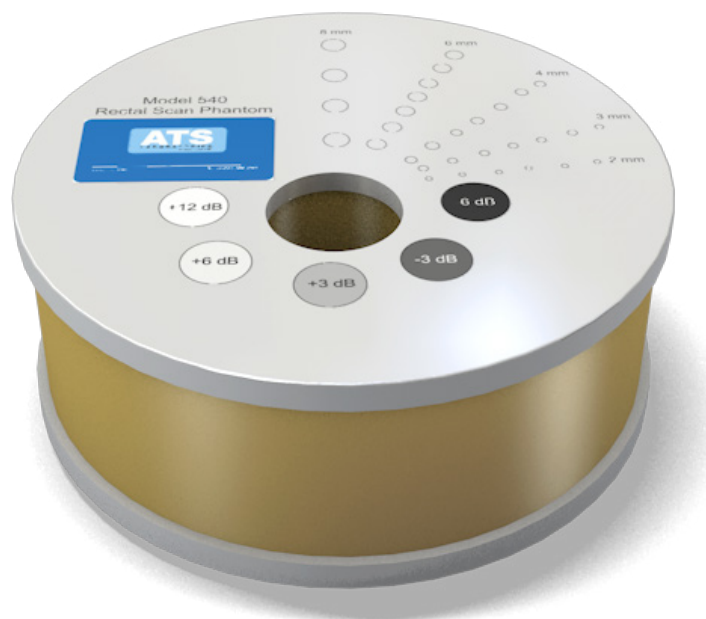


Rectal Scan Phantom

Model ATS 540



Model 540 is a rubber based tissue-mimicking rectal scan phantom. It is suited primarily for performance testing of rotary-type transducers, resulting in a displayed image of a full 360° and may also be used to evaluate the performance of bi-planar transducers.

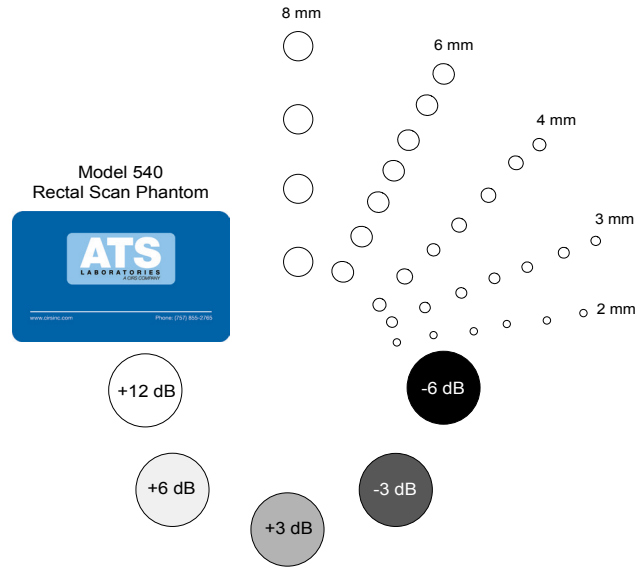
The Model 540 is contained in a protective housing. An internal scan well permits insertion of the transducer directly into the body of the phantom, thereby mimicking the application. The phantom contains five groups of cystic-like targets of varying sizes and depths, and five levels of gray scale. The target structures are arranged in a radial pattern from the center of the scan well. All ATS urethane phantoms are guaranteed for the useful life of the phantom, defined as 10 years.

Key Tests with Model ATS 540

- Uniformity
- Beam Profile/ Focal Zone/ Lateral Response Width
- Displayed Dynamic Range
- Contrast Resolution
- Grayscale Contrast Sensitivity

CIRS

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SPECIFICATIONS

DIMENSIONS	18.2 cm (7")
PHANTOM WEIGHT	7 lbs. (3.1 kg)
HOUSING MATERIALS	PVC
SCAN SURFACES	1
SCAN SURFACES DIMENSIONS	3.5 cm (tapered)
TISSUE-MIMICKING MATERIAL	Urethane Rubber

MODEL ATS 549 INCLUDES

QTY	COMPONENT DESCRIPTION
1	Rectal Scan Phantom
-	10-Year Warranty
-	User Guide
-	Certificate of Compliance

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)

ANECHOIC STEPPED CYLINDERS

Type: Non-echogenic, cylindrical
 Diameter: 2.0, 3.0, 4.0, 6.0, 8.0 mm
 Depth: 1.0 - 8.0 cm

GRAY SCALE TARGETS

Type: Echogenic, Cylindrical
 Diameters: 20.0 mm
 Depth: 2.0 cm
 Contrast (dB): +12, +6, +3, -3, -6

