

Gray Scale Phantom

Model ATS 531



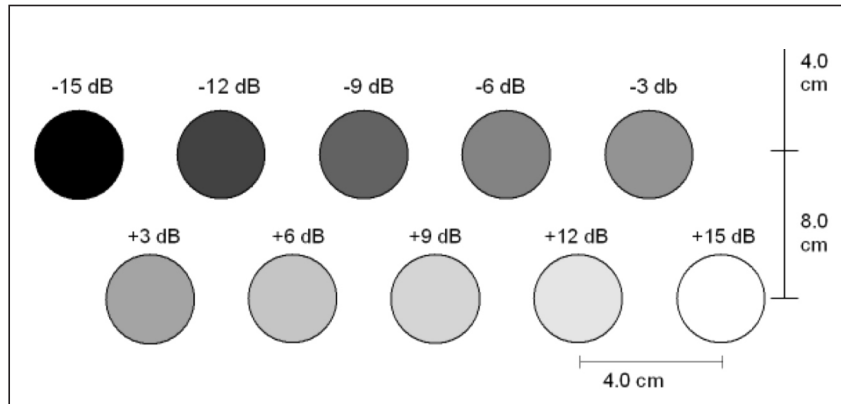
The Model 531 Greyscale phantoms is designed to test an imaging system's gray scale processing and displayed dynamic range. The phantom provides a set of ten different greyscale targets, each 10 mm in diameter, that range in greyscale brightness contrast from -15 to +15 dB relative to the background material. All ATS urethane phantoms are guaranteed for the useful life of the phantom, defined as 10 years.

Key Tests with Model ATS 531

- Grayscale Contrast Sensitivity

CIRS

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SPECIFICATIONS

DIMENSIONS	25 x 12 x 7 cm (10" x 5" x 3")
PHANTOM WEIGHT	4 lbs. (2 kg)
HOUSING MATERIALS	PVC
SCAN SURFACES	2
SCAN SURFACES DIMENSIONS	25 x 7 cm
TISSUE-MIMICKING MATERIAL	Urethane Rubber

MODEL ATS 531 INCLUDES

QTY	COMPONENT DESCRIPTION
1	Gray Scale 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)

The acoustic properties of all biologic and non-biologic materials are affected by temperature variations. Most diagnostic imaging systems and tissue-mimicking phantoms are calibrated at room temperature, commonly referred to as 23°C. To ensure measurement accuracy ATS incorporates a thermometer strip affixed to the outside surface of the phantom.

GRAY SCALE TARGETS

Type: Echogenic, Cylindrical
 Number of targets: 10
 Diameter: 25 mm
 Depth: 40 & 80 mm
 Contrast (dB): -15 to +15

