



Model 531

Gray Scale Phantom

Tests Performed

- Gray Scale
- Displayed Dynamic Range

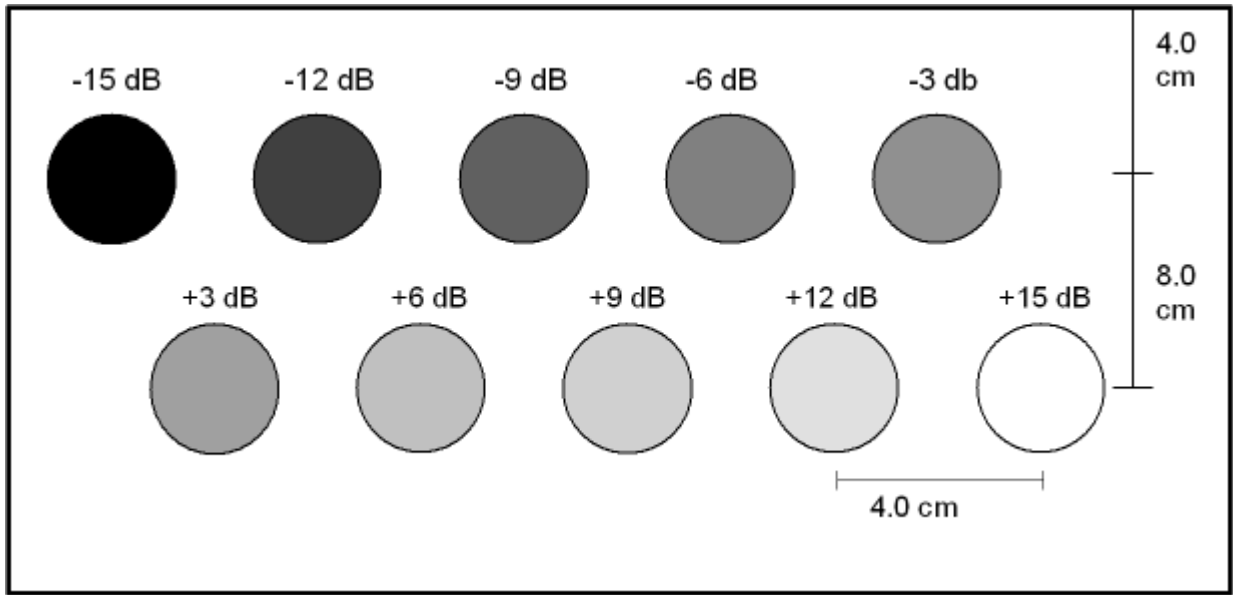


Product Description

The Model 531 Gray Scale phantom is designed to evaluate an imaging system's gray scale processing and displayed dynamic range. The phantom contains 10 levels of contrast target structures relative to the background, ranging from -15 dB to +15 dB.

The phantom is constructed of a rubber-based tissue mimicking material. It is contained within two protective outer walls to provide strength and permanence.

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.



Specifications

General

Overall Dimensions	25 x 12 x 7 cm *
Weight	2 Kg*
Scan Surfaces	2
Scan Surface Dimensions	25 x 7 cm

Tissue Mimicking Material

Type	Urethane rubber
Freezing Point	< -40°C
Melting Point	> 100°C
Attenuation Coefficient	0.5 dB/cm/MHz ± 5.0%
Speed of Sound	1450 m/s ±1.0% at 23°

Gray Scale Target Structures

Type	Echogenic, Cylindrical
Number of Targets	10
Diameters	25 mm
Interval Spacing (center to center)	40 mm
Depth	40 & 80 mm
Contrast relative to background material (dB)	-15 to +15

*Nominal dimensions

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