

Tel: 203-579-2700 www.atslaboratories.com Fax: 203-333-2681

Model 531 Gray Scale Phantom

Tests Performed

- Gray Scale
- Displayed Dynamic Range

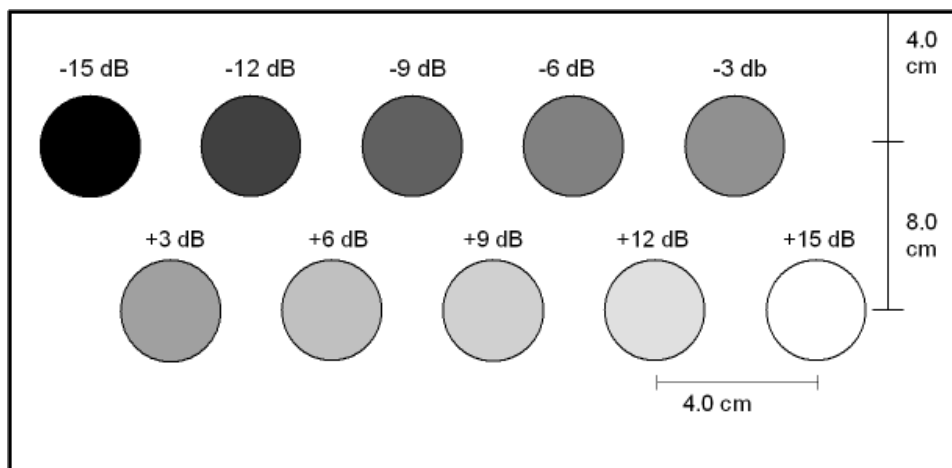


Product Description

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		Tissue Mimicking Material	
Overall Dimensions	25 x 12 x 7 cm*	Type	Urethane Rubber
Weight	2 Kg*	Freezing Point	<-40 Degrees C
Scan Surfaces	2	Melting Point	> 100 Degrees C
Scan Surfaces Dimensions	25 x 7 cm	Attenuation Coefficient	0.5 dB/cm/MHz (measured at 3.5 MHz)
Gray Scale Target Structures		Speed of Sound	1450 m/s at 23 degrees C
Type	Echogenic, Cylindrical	*Nominal dimensions	
Number of Targets	10		
Diameters	25 mm		
Depth	40 & 80 mm		
Contrast relative to the background material (dB)	-15 to +15		

ATS Laboratories, Incorporated, 404 Knowlton St., Bridgeport, CT USA Tel: 203-579-2700 Fax: 203-333-2681

Email: atslaboratories@yahoo.com Webpage: atslaboratories.com