

# Invenia ABUS Phantom

Performance measures:

- Axial Measurement Accuracy
- Lateral Measurement Accuracy
- Axial and Lateral Resolution
- Contrast Resolution
- SNR: Signal to Noise Ratio



## Designed for Use with GE's Invenia ABUS Scanner

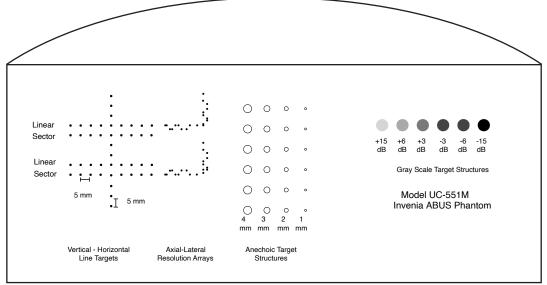
The CIRS Model ATS UC-551M, a modified version of the ATS Model 551 Small Parts Phantom, is designed for use with GE's Invenia ABUS scanner. The scan surface has a 17.5-inch radius of curvature, which matches the shape of the Invenia ABUS scan head.

The rubber-based tissue mimicking material has a sound velocity of 1450 m/sec and an attenuation of 0.5dB/cm/MHz at room temperature (23°C).To ensure measurement accuracy, CIRS incorporates a thermometer strip affixed to the outside surface of the phantom housing.

The phantom is packaged in a carrying case providing added protection during transporting and storage. GE-recommended QA test procedures for the Invenia ABUS and Invenia ABUS 2.0 scanners are provided in separate documents.

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#### **Specifications**

Dimensions	28.5 cm x 12 x 10.6 cm (11" x 5" x 4")
Weight	8 lbs (3.6 kg)
Housing Material	PVC
Scan Surface Dimensions	26.7 cm x 10 cm curved radius of 44.5 cm (17.5")
Tissue-Mimicking Material	Urethane Rubber
Urethane Properties	Freezing Point: < -40° C Melting Point: Above 100° C Speed of Sound: 1450 m/s at 23° Attenuation: 0.5 dB/cm/MHz (measured at 3.5 MHz)
Line Targets	Material: Monofilament nylon

#### Items Included with CIRS Model ATS UC-551M

Quantity	Description
1	Invenia ABUS Phantom
1	Carry Case
1	User Guide
-	GE QA Test Procedures
-	Certificate of Compliance

Vertical Distance Group (12 targets)		
Depth range	0.5 - 5 cm	
Spacing	0.5 cm	
Horizontal Distance Group (2 Groups)		
Depths	Linear: 2 & 4cm Sector: 2.5 & 4.5 cm	
Spacing	0.5 cm	
Axial and Lateral Resolution Groups (2 targets)		
Target sets per depth	10	
Spacing	0.25, 0.5, 1, 2, 3 mm	
Depth	2, 4, 5 cm	
Anechoic Stepped Cylinders (4 groups)		
Туре	Non-echogenic, cylindrical	
Number of targets	6	
Diameter	1, 2, 3, 4 mm	
Depth	1 - 6 cm	
Spacing	1 cm center to center	
Grayscale Targets (6 targets)		
Туре	Echogenic, cylindrical	
Diameters	6 mm	
Spacing	1 cm center to center	
Depth	4 cm	

Contrast (dB) -15, -6, -3, +3, +6, +15

