

Invenia ABUS Phantom

Model UC-551M



USER GUIDE

CIRS

900 Asbury Ave • Norfolk, Virginia 23513 • USA • Tel: 757-855-2765 • WWW.CIRSINC.COM

TABLE OF CONTENTS

1 OVERVIEW	1
2 SPECIFICATIONS	2
3 WARRANTY	3

OVERVIEW

The ATS UC-551M is a modified version of the ATS 551 Small Parts Phantom, designed to be used 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 durability, quality and reliability of this product is guaranteed for ten years.

The rubber-based tissue mimicking material has sound velocity of 1450 m/sec and attenuation of 0.5dB/cm/MHz at room temperature (23°C). 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 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 and for the Invenia ABUS and Invenia ABUS 2.0 scanners are provided in separate documents.

Recommended Tests with Model UC-551M

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

SPECIFICATIONS

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)

LINE TARGETS

Material: Monofilament nylon

VERTICAL DISTANCE GROUP

Number of targets: 12
 Depth range: 0.5 to 5.0 cm
 Spacing: 0.5 cm

HORIZONTAL DISTANCE GROUP

Number of groups: 2
 Depths Linear: 2.0 & 4.0 cm
 Sector: 2.5 & 4.5 cm
 Spacing: 0.5 cm

AXIAL-LATERAL RESOLUTION GROUPS

Number of targets: 2
 Targets sets per depth: 10
 Spacing: 0.25, 0.5, 1, 2, 3 mm
 Depth: 2, 4.5 cm

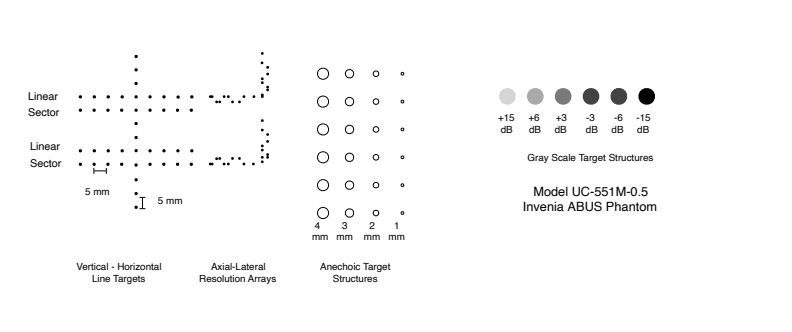
ANECHOIC STEPPED CYLINDERS

Type: Non-echogenic, cylindrical

Number of Groups: 4
 Number of targets: 6
 Diameter: 1, 2, 3, 4 mm
 Spacing: 1 cm center to center
 Depth: 1 to 6 cm

GRAY SCALE TARGETS

Type: Echogenic, Cylindrical
 Number of Targets: 6
 Diameters: 6 mm
 Spacing: 1 cm center to center
 Depth: 2.0 cm
 Contrast (dB): -15, -6, -3, +3, +6, +15



WARRANTY

All standard CIRS products and accessories are warranted by CIRS against defects in material and workmanship for a period as specified below. During the warranty period, the manufacturer will repair or, at its option, replace, at no charge, a product containing such defect provided it is returned, transportation prepaid, to the manufacturer. Products repaired in warranty will be returned transportation prepaid.

There are no warranties, expressed or implied, including without limitation any implied warranty of merchantability or fitness, which extend beyond the description on the face hereof. This expressed warranty excludes coverage of, and does not provide relief for, incidental or consequential damages of any kind or nature, including but not limited to loss of use, loss of sales or inconvenience. The exclusive remedy of the purchaser is limited to repair, recalibration, or replacement of the product at manufacturer's option.

This warranty does not apply if the product, as determined by the manufacturer, is defective because of normal wear, accident, misuse, or modification.

NON-WARRANTY SERVICE

If repairs or replacement not covered by this warranty are required, a repair estimate will be submitted for approval before proceeding with said repair or replacement.

RETURNS

If you are not satisfied with your purchase for any reason, please contact Customer Service or your local distributor prior to returning the product. Visit <https://www.cirsinc.com/distributors/> to find your local distributor. Call 800-617-1177, email rma@cirsinc.com, or fax an RMA request form to 757-857-0523. CIRS staff will attempt to remedy the issue via phone or email as soon as possible. If unable to correct the problem, a return material authorization (RMA) number will be issued. Non-standard or "customized" products may not be returned for refund or exchange unless such product is deemed by CIRS not to comply with documented order specifications. You must return the product to CIRS within 30 calendar days of the issuance of the RMA. All returns should be packed in the original cases and or packaging and must include any accessories, manuals and documentation that shipped with the product. The RMA number must be clearly indicated on the outside of each returned package. CIRS recommends that you use a carrier that offers shipment tracking for all returns and insure the full value of your package so that you are completely protected if the shipment is lost or damaged in transit. If you choose not to use a carrier that offers tracking or insure the product, you will be responsible for any loss or damage to the product during shipping. CIRS will not be responsible for lost or damaged return shipments. Return freight and insurance is to be pre-paid.

WITH RMA NUMBER, ITEMS MAY BE RETURNED TO:

CIRS

Receiving

900 Asbury Ave,

Norfolk, Virginia, 23513 USA

PRODUCT	WARRANTY PERIOD
Model UC-551M - ABUS Phantom	5 Years

CIRS

**COMPUTERIZED IMAGING
REFERENCE SYSTEMS, INC.**

900 Asbury Ave
Norfolk, Virginia 23513 • USA

TOLL FREE 800.617.1177

TEL: 757.855.2765

FAX: 757.857.0523

EMAIL: admin@cirsinc.com

www.cirsinc.com

Technical Assistance

1.800.617.1177

