Multi-Purpose & Endoscopic Phantom



The Model 570 Multipurpose & Endoscopic phantom is an easy, comprehensive means of evaluating imaging systems over the full range of clinical imaging frequencies (2 MHz to 18 MHz). The phantom is designed with a combination of monofilament line targets for distance measurements and tissue mimicking target structures of varying sizes and contrasts. Due to the acoustic similarity of the background material and the target structures, artifacts caused by distortion, shadowing and enhancement have been eliminated. Four gray scale targets ranging in contrast from +6 to -3 dB are provided to evaluate the system's displayed dynamic range and gray scale processing performance.

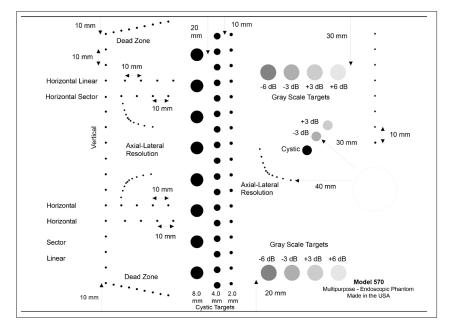
The Model 570 offers a new and improved scan surface design to easily accommodate linear, sector, endoscopic probes and mechanical sector probes such as used for rectal scanning. All ATS urethane phantoms are guaranteed for the useful life of the phantom, defined as 10 years.

Key Tests with Model ATS 570

- Uniformity
- Depth of Penetration
- Beam Profile/ Focal Zone/ Lateral Response
 Width
- Vertical Measurement Calibration
- Horizontal Measurement Calibration Linear (C1&C2)
- Axial and Lateral Resolution
- Horizontal Measurement Calibration Sector
- Contrast Resolution
- Grayscale Contrast Sensitivity
- Dead Zone Assessment

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SPECIFICATIONS

DIMENSIONS	27 x 21.5 x 9.6 cm (11" x 8" x 4")	
PHANTOM WEIGHT	10 lbs. (4.55 kg)	
HOUSING MATERIALS	PVC	
SCAN SURFACES	2	
SCAN WELLS	1 cm	
TISSUE-MIMICKING Material	Urethane Rubber	

Monofilament nylon

0.12 mm

B1: 10 mm

B2: 10 mm

5&5 cm

10

2 cm

1 mm

URETHANE PROPERTIES

 Freezing point:
 < -40°C</td>

 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: Diamter:

ENDOCAVITY

Opening: Slots: Ø 26.9mm x 71mm deep 12.7 mm; Ø 0.5" x 10mm deep (from bottom of the curve to the flat surface)

VERTICAL DISTANCE GROUP

 Number of targets:
 B1: 17 B2: 8

 Depth range:
 B1: 10-160 mm B2: 10-80 mm

Spacing:

HORIZONTAL DISTANCE GROUP

Number of groups: Depths: Number of Targets: Spacing:

DEAD ZONE GROUP

Number of targets: Depth range: Spacing:

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2.0 - 10.0 mm

MODEL ATS 570 INCLUDES

QTY	COMPONENT DESCRIPTION
1	Multi-Purpose & Endoscopic Phantom
-	10-Year Warranty
-	User Guide
-	Certificate of Compliance

AXIAL-LATERAL RESOLUTION GROUPS

 Number of targets:
 11

 Lateral Displacement:
 1 mm

 Spacing:
 5.0, 4.0, 3.0, 2.0, 1.0 mm

 Depth:
 7.0, 11.0, 4.0, 16.0 cm

CONTRAST TARGETS (CYSTS)

Type: Non-echogenic, cylindrical

4

10 mm

30 mm

Echogenic, Cylindrical

+6, +3, -3, -6 dB

Column 1:	
Column 2:	
Column 3:	

GRAY SCALE TARGETS

Type: Number of Sets:

Set 1: Number of Targets: Contrast Levels: Diameter: Depth from Top Scan Surface:

Set 2: Number of Targets: Contrast Levels: Diameter: Depth from Bottom Scan Surface:

Number of Targets:

Contrast Levels:

Set 3:

Distanc

+6, +3, -3, -6 dB 10 mm 20 mm

2 +3,-3 dB 动物声展业法波利技方限。

8 mm targets, Qty 8; spaced at 2 cm intervals 4 mm targets, Qty 17; spaced at 1 cm intervals 2 mm targets, Qty 17; spaced at 1 cm intervals



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