

3D Calibration Phantom

Model ATS 560H



The Model 560H rubber-based, tissue-mimicking (TM) phantom provides a basic means of evaluating an imaging system's performance along with its 3D volumetric measurements.

The phantom combines monofilament line targets, six non-echogenic cylindrical targets of varying sizes and a 3D egg-shaped target structure. The monofilament targets have a diameter of 0.12 mm and are arranged in four groups of line targets to evaluate the vertical and horizontal calibration measurements, axial-lateral resolution and the dead zone. All ATS urethane phantoms are guaranteed for the useful life of the phantom, defined as 10 years.

Key Tests with Model ATS 560H

- Uniformity
- Depth of Penetration
- Beam Profile/ Focal Zone/ Lateral Response Width
- Vertical Distance Measurement
- Horizontal Distance Measurement
- Axial and Lateral Resolution
- Contrast Resolution
- Volume Measurements
- Dead Zone Assessment

CIRS

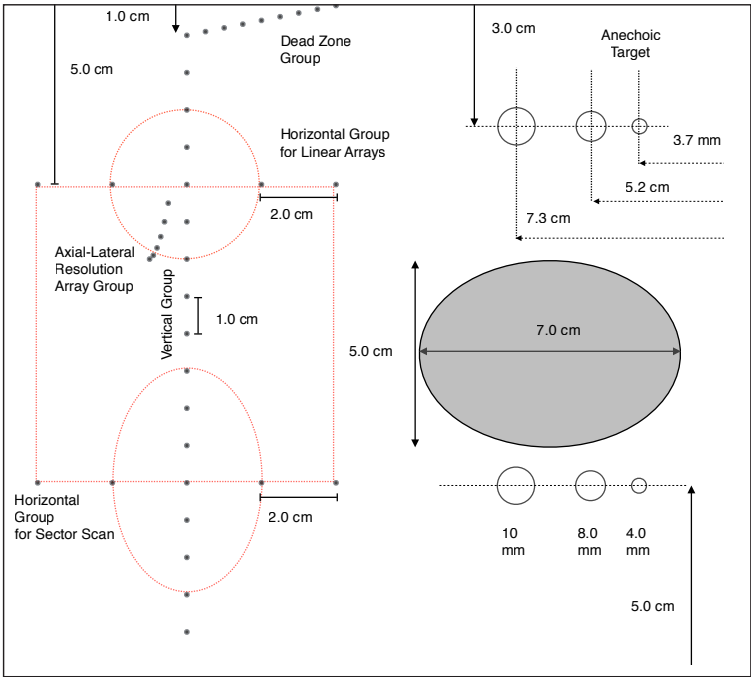
深圳市展业达鸿科技有限公司

吕先生: 15920060912 (微信同号) 0755-22934005 (座机)

地址: 深圳市福田区八卦二路八卦岭工业区615栋419

邮箱: hongqi@thingstet.com

网址: www.thingstet.com



SPECIFICATIONS

DIMENSIONS	23.4 x 20.5 x 9.5cm (9" x 8" x 4")
PHANTOM WEIGHT	7 lbs. (3.1 kg)
HOUSING MATERIALS	PVC
SCAN SURFACES	4
SCAN SURFACES DIMENSIONS	17 x 8 cm 19 x 8 cm
TISSUE-MIMICKING MATERIAL	Urethane Rubber

MODEL ATS 560H INCLUDES

QTY	COMPONENT DESCRIPTION
1	3D Calibration Phantom
-	10-Year Warranty
-	User Guide
-	Certificate of Compliance

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
Diameter: 0.12 mm

VERTICAL DISTANCE GROUP

Number of targets: 17
Depth range: 1.0 - 18.0 cm
Spacing: 1 cm

HORIZONTAL DISTANCE GROUP

Number of groups: 2
Depths: 5 cm from Scanning Surface #1
5 cm from Scanning Surface #3
Number of Targets: 10
Spacing: 2 cm

DEAD ZONE GROUP

Number of targets: 9
Lateral Displacement: 5 mm
Depth range: 2.0 - 10.0 mm
Spacing: 1 mm

AXIAL-LATERAL RESOLUTION GROUPS

Number of targets: 6
Lateral Displacement: 1 mm
Spacing: 5.0, 4.0, 3.0, 2.0, 1.0 mm
Axial Depth: 5.5 & 12.5 cm
Lateral Depth: 5.5 & 14 cm

ANECHOIC STEPPED CYLINDERS

Type: Non-echogenic, cylindrical
Number of targets: 6
Diameter: 4.0, 8.0, 10.0 mm
Spacing: 1.0 cm
Depth: 3.0, 5.0, 12.0, 15.0 cm

3D EGG TEST OBJECT

Type: Echogenic 3D ellipsoid
Major axis: 7.0 cm
Minor axis: 5.0 cm
Volume: 91.6 cm³