

Ultrasound Phantom for 2D & 3D Evaluation

Model 055A



ZERDINE® Inside
A registered trademark of CIRS

Designed for Compliance with AIUM Standards

- Perform spatial measurement system checks according to published AIUM standard
- Ensure over ten years of reliable use through reinspection and repair services

The 3D Wire Test Object, may be used to perform the following tests of the accuracy of spatial measurements, which is especially for 3-D and 4-D ultrasound systems equipped with spatial encoding algorithms.

In the Model 055A tests are performed using wire targets. The phantom can also be used to perform Image uniformity and depth of penetration tests.

The phantom is made of proprietary Zerdine® hydrogel polymer, which has been formulated to provide tissue mimicking properties including compatibility with harmonic imaging. To maximize phantom lifetime, this gel is contained in a rugged ABS plastic housing with a Saran-based laminate membrane.

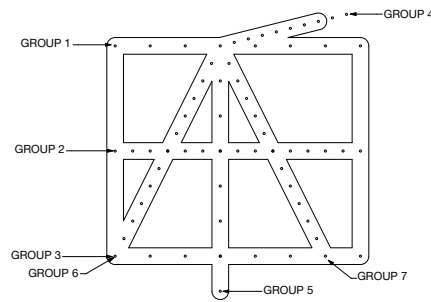
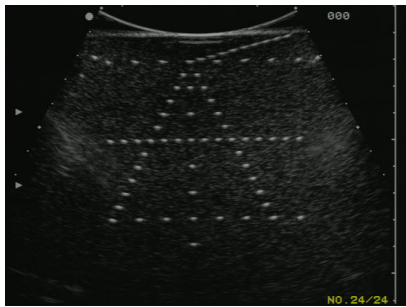
CIRS ultrasound QA phantoms come standard with a robust housing, carry case, 48-month warranty, and user guide.

Key Tests

- Linear Distance
- Perimeter
- Area
- Surface Area
- Volume

CIRS

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SPECIFICATIONS

ZERDINE® PROPERTIES

Description: Solid elastic water-based polymer
 Freezing point: 0° C
 Melting point: Above 100° C
 Speed of Sound: 1540 m/s
 Other: Compatible with harmonic imaging

MODEL 055A

CONTAINER
 Dimensions: 13 x 18 x 11 cm
 Material: ABS Housing

SCAN WINDOW
 Scanning Membrane: Saran-based laminate
 Dimensions: 14 cm x 9 cm

WIRE TARGETS
 Material: 0.1 mm Nylon Monofilament
 Positions: See table below

GROUP	STARTING POSITION (X, Y)	SUBSEQUENT WIRE MOVES
1	(0 cm, 0 cm)	$\Delta x = 1 \text{ cm}, \Delta y = 0 \text{ cm}$
2	(0 cm, 3 cm)	$\Delta x = 0.5 \text{ cm}, \Delta y = 0 \text{ cm}$
3	(0 cm, 6 cm)	$\Delta x = 1 \text{ cm}, \Delta y = 0 \text{ cm}$
4	(3 cm, 0 cm)	$\Delta x = 0.4 \text{ cm}, \Delta y = -0.1 \text{ cm}$
5	(3 cm, 0 cm)	$\Delta x = 0 \text{ cm}, \Delta y = 1 \text{ cm}$
6	(3 cm, 0 cm)	$\Delta x = -0.25 \text{ cm}, \Delta y = 0.5 \text{ cm}$
7	(3 cm, 0 cm)	$\Delta x = 0.25 \text{ cm}, \Delta y = 0.5 \text{ cm}$

MODEL 055A INCLUDES
 3D Wire Test Object Phantom
 Removable water well
 Removable endocavity cover
 Removable storage cover
 Carry Case
 Certificate of Compliance

