# Ultrasound Phantoms for 2D & 3D Evaluation

# Models 055 & 055A



## 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

## Includes best in industry four-year warranty

The CIRS Model 055 3D Ultrasound Calibration Phantom and 055A 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 055, these tests are performed with the aid of three volumetric targets, while in the Model 055A they are performed using wire targets. The phantoms can also be used to perform Image uniformity and depth of penetration tests.

Both phantoms are made of CIRS, proprietary Zerdine<sup>®</sup> 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 Saranbased laminate membrane.

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

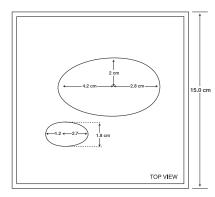
## Key Tests with Models 055 & 055A

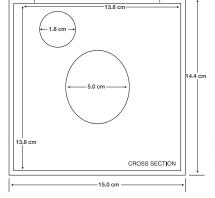
- Linear Distance
- Perimeter
- Area
- Surface Area
- Volume

This product is available through: **JRT** Associates 800-221-0111

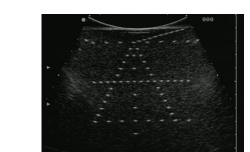
## Models 055 & 055A

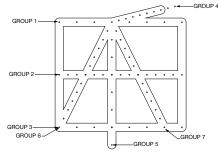
## **ULTRASOUND PHANTOMS FOR 2D & 3D EVALUATION**













## **SPECIFICATIONS**

## **ZERDINE® PROPERTIES (BOTH PHANTOMS)** 0° C

Above 100° C

15 x 15 x 15 cm

12 cm x 12 cm

11 cm x 11 cm

Hyperechoic

Hyperechoic

6.9 cc

75 cc

Saran-based laminate

**ABS Housing** 

1540 m/s

Solid elastic water-based polymer

Compatible with harmonic imaging

2.5 cm from top scanning surface 2 cm from side scanning surface

6 cm from top scanning surface

6 cm from side scanning surface

Description: Freezing point: Melting point: Speed of Sound: Other:

#### **MODEL 055**

#### CONTAINER

Dimensions: Material:

#### SCAN WINDOWS

Membranes: Dimensions (Top): Dimensions (Side):

#### SMALL VOLUME

Nominal Volume: Depth of target:

Appearance:

## LARGE VOLUME

Nominal Volume: Depth of target:

Appearance:

#### MODEL 055 INCLUDES 3D Ultrasound Calibration Phantom Carry Case Certificate of Compliance QA Worksheet 48-month Warranty

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#### MODEL 055A

#### CONTAINER Dimensions:

WIRE TARGETS

Material:

Positions:

Material:

#### SCAN WINDOW Scanning Membrane:

Dimensions:

#### Saran-based laminate 14 cm x 9 cm

13 x 18 x 11 cm ABS Housing

0.1 mm Nylon Monofilament See table below

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

#### MODEL 055A INCLUDES

3D Wire Test Object Phantom Removable water well Removable endocavity cover Removable storage cover Carry Case Certificate of Compliance 48-month Warranty



Computerized Imaging Reference Systems, Inc. has been certified by UL DQS Inc. to (ISO) 13485:2016. Certificate Registration No.10000905-MP2016.