

# Breast Elastography Phantom

Model 059



ZERDINE<sup>®</sup> Inside  
A registered trademark of CIRS



## USER GUIDE

# CIRS

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## **OBJECTIVE**

The Model 059 is a perfect demonstration tool for sonoelastography, because it accurately mimics the ultrasonic characteristics of tissues found in an average human breast.

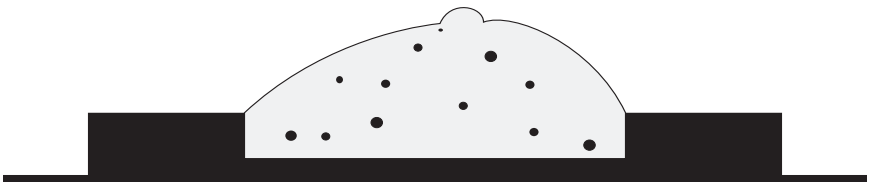
## **PHANTOM DESCRIPTION**

The size and shape of the phantom simulates that of an average patient in the supine position.

A special holding tray facilitates proper hand position during the training procedures.

Each phantom measures approximately 14 cm long x 12 cm wide x 7.5 cm high with a volume of 600 cc. Within each phantom, there are 12 masses that are approximately three times harder than the background material and are randomly positioned. These lesions have minimal contrast with conventional ultrasound (hypoechoic relative to background), but will show up readily on elastograms.

## **SPECIFICATIONS**



<b>Size &amp; Weight</b>	600 cc (14 cm x 12 cm x 7.5 cm)
<b>Tray Dimensions</b>	22.5 cm x 20.0 cm
<b>Material</b>	Zerdine®

## ***USE OF THE PHANTOM***

The phantom should not be removed from the white holding tray. The membrane covering the phantom should never be removed. Each phantom contains 12 dense masses which are blue in color. These targets are randomly placed and specifically designed for visualization with elastography and practicing core biopsy procedures.

Before imaging, be sure to place an ample amount of coupling gel on the probe or the polyethylene membrane which covers the phantom.

The phantom can be punctured many times before being “tracked out”. Side to side manipulation of the needle within the phantom can produce significant echoic artifacts because this motion tends to introduce air.

If the phantom needs to be stored after the membrane has been punctured, be sure to place it in an air-tight container such as a ziplock bag. This will help avoid desiccation.

## ***CARE AND HANDLING***

- This phantom is a disposable product and is not designed for extended use. It can be reused; however, as with any disposable training device, it will continue to deteriorate with each additional puncture.
- For maximum product lifetime, store the phantom in an airtight bag or container. Standard room temperature and humidity is acceptable for storage. Sub-freezing temperatures should be avoided during shipping, as the freeze-thaw cycle may damage housing integrity and displace the targets. High temperatures may accelerate desiccation. If signs of weight loss are seen (such as a sunken scanning surface), contact CIRS for assistance.
- Technical questions should be referred to CIRS customer service at (800) 617-1177.

## 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](mailto: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 059 - Breast Elastography Phantom	12 Months*

\*Please note: once any device has been inserted into the phantom (such as biopsy needles, localization wires, etc.) the 12 month warranty will not cover claims related to material desiccation or needle tracking.

