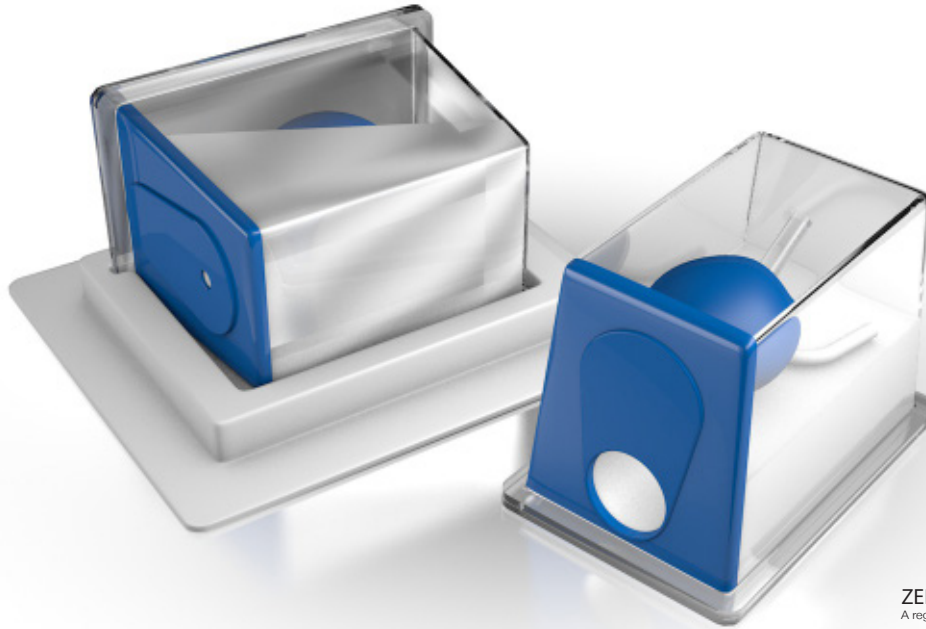


# Tissue Equivalent Ultrasound Prostate Phantom

Model 053S, 053L & 053L-EF



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

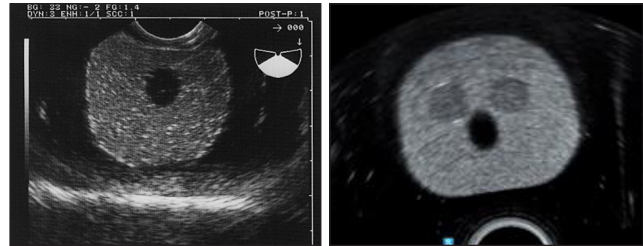
## THE IDEAL TRAINING DEVICE FOR ULTRASOUND GUIDED PROCEDURES

The CIRS Ultrasound Prostate Training Phantom is a multi-modality disposable phantom developed for practicing procedures which involve scanning the prostate with a rectal probe.

Gel formulations within the Model 053S, 053L and 053L-EF are designed to minimize needle tracking and to provide imaging contrast under CT, MRI, ultrasound and elastography.

The prostate along with structures simulating the rectal wall, seminal vesicles and urethra is contained within an 11.5 x 7.0 x 9.5 cm clear acrylic container. A 3 mm simulated perineal membrane enables various probes and surgical tools to be inserted into the prostate. This phantom is an ideal training device for ultrasound guided cryosurgery, radioactive seed implantation, and needle biopsy.

The phantom is available with lesions (053L) and without lesions (053S) and can be ordered in either the standard side-fire configuration or an alternate geometry optimized for end-fire probes (053L-EF).



### Features

- Includes rectal wall, seminal vesicles, perineal membrane and urethra
- Train for ultrasound-guided cryosurgery, seed implantation and needle biopsy with one phantom
- Compatible with various probes and surgical tools
- Structures visible under CT, MRI, ultrasound and elastography
- Gel designed to minimize needle tracking

深圳市展业达鸿科技有限公司

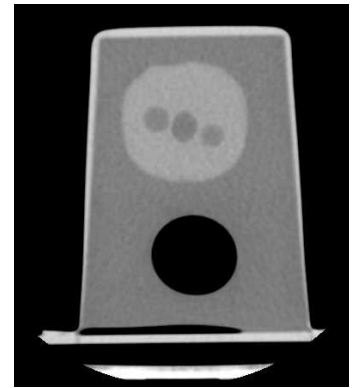
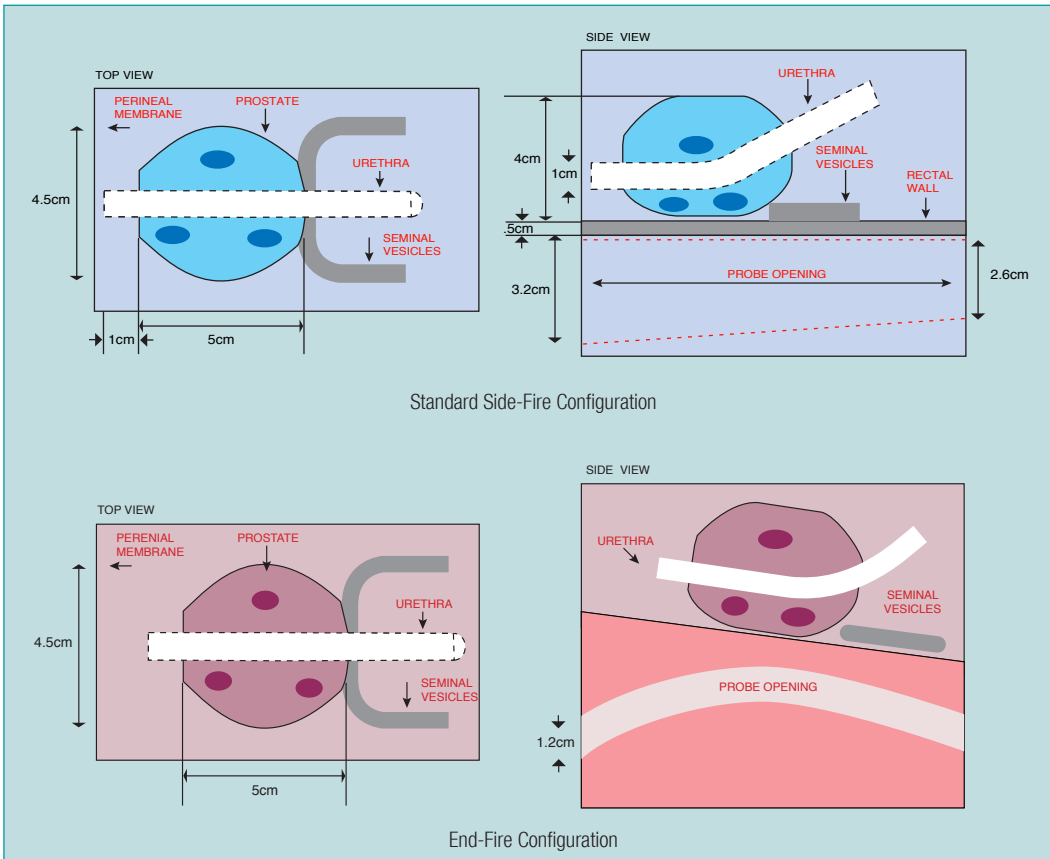
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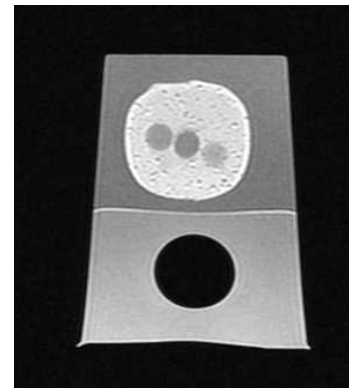
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CIRS  
Tissue Simulation & Phantom Technology



053L CT



053L MR T1 Weighted

**SPECIFICATIONS**

**CONTAINER**

Dimensions: 11.5 x 7 x 9.5 cm  
 Weight: 2 lbs  
 Front probe opening: 3.2 cm Ø  
 Rear probe opening: 2.6 cm Ø

**BACKGROUND GEL**

Ultrasound appearance: anechoic  
 CT appearance: dark  
 MRI appearance: dark (T1 weighted)  
 Elastography: soft

**URETHRA**

Dimensions: 7 mm Ø  
 Ultrasound appearance: anechoic  
 CT appearance: dark, similar to prostate  
 MRI appearance: dark than prostate (T1 weighted)  
 Elastography: stiffer than prostate

**PROSTATE**

Dimensions: 5 cm x 4.5 cm x 4 cm  
 Ultrasound appearance: average echogenicity  
 CT appearance: dark, slight contrast with background  
 MRI appearance: bright (T1 weighted)  
 Elastography: soft, slight contrast with background  
 Volume: 53 cc

**SEMINAL VESICLES**

Dimensions: 7 mm Ø x 10 cm long  
 Imaging appearance is similar to prostate

**PERINEAL MEMBRANE**

3 mm thick Z-skin™ elastomer

**LESIONS (053L AND 053L-EF)**

Qty: 3  
 Dimensions: Approximately 10 mm Ø  
 Ultrasound appearance: hypoechoic  
 CT appearance: bright  
 MRI appearance: dark (T1 weighted)  
 Elastography: stiff

**RECTAL WALL**

Dimensions: 6 cm x 11 cm x 0.5 cm  
 Imaging appearance is similar to urethra

**MODEL 053 INCLUDES**

Tissue Equivalent Ultrasound  
 Prostate Phantom  
 User Guide  
 12-Month Warranty\*

\*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

© US Patent # 5196343

**PROSTATE PHANTOM SELECTION GUIDE**

Model	Description	Transducer Type
053S	Prostate Phantom without Lesions	Side-Fire or BiPlane
053L	Prostate Phantom with Lesions	Side-Fire or BiPlane
053L-EF	Prostate Phantom with Lesions for End-Fire Transducer	End-Fire Transducer
053-I	Ultrasound Prostate Training Phantom	Side-Fire or BiPlane