

Prostate Training Phantom

Model 070S & 070L



THE IDEAL TRAINING DEVICE FOR IMAGE-GUIDED PROCEDURES

The Model 070S and 070L is a realistic and durable prostate training phantom for both diagnostic and interventional procedures.

Enhanced realism has been achieved with a Zerdine® gel formulation that better simulates the ultrasound contrast between the prostate and background tissue. The gel formulations provide CT, MR and elastography contrast for multi-modality imaging. CIRS' proprietary Z-Skin™ formulation more accurately simulates the rectal wall, providing a more realistic scanning environment.

Z-Skin™ provides perineal access for interventional procedures, and closes up on itself after it is punctured so that the Zerdine® gel inside the phantom is not exposed to air during scanning. Minimal air exposure better protects the gel from drying out, thus increasing the phantom's useful life. In addition, Z-Skin is extremely stretchable and will protect the gel inside the phantom from tearing when the rectal probe is manipulated at severe angles. The phantom accommodates both end-fire and side-fire ultrasound transducers. Zerdine®

is specially formulated to minimize tearing when punctured, providing a self-healing capability that dramatically extends the life of the phantom during interventional procedures.

The phantom is available in two configurations: one with embedded lesions (Model 070L), and one without embedded lesions (Model 070S). For users interested in image fusion studies, the phantom can be purchased as a kit to include a serial-number specific CT DICOM Data set for reference.

Features

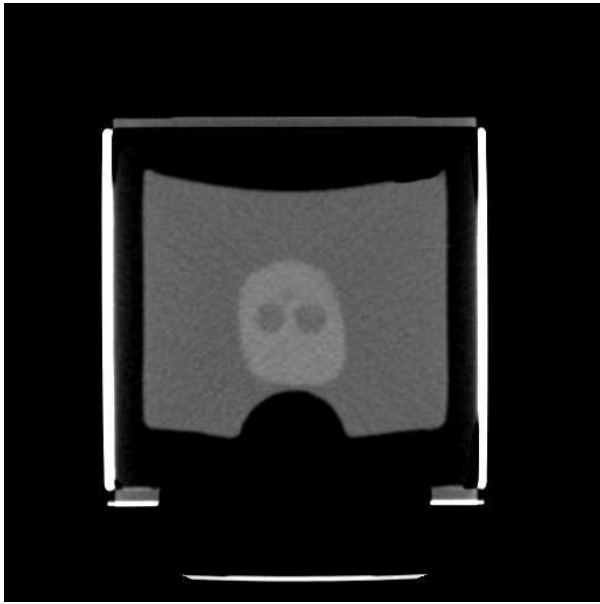
- Includes bladder rectal wall, perineal membrane and urethra plus digitally modeled prostate gland and seminal vesicles.
- Phantom available with and without lesions
- Train for ultrasound-guided seed implantation, cryosurgery and needle biopsy in one phantom

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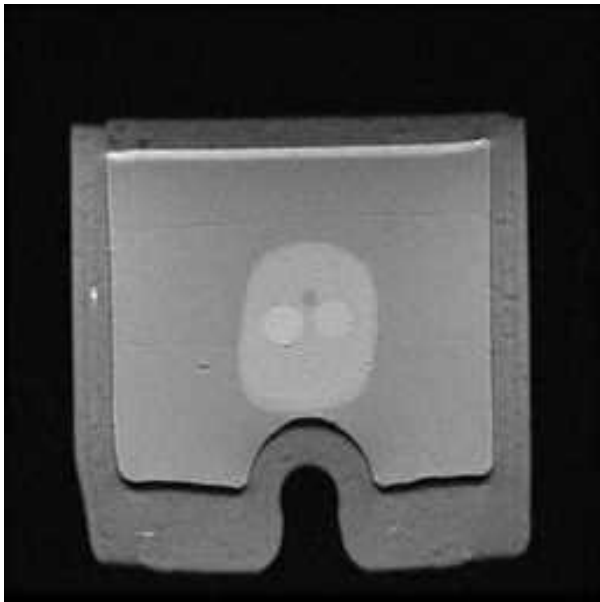
Tissue Simulation & Phantom Technology



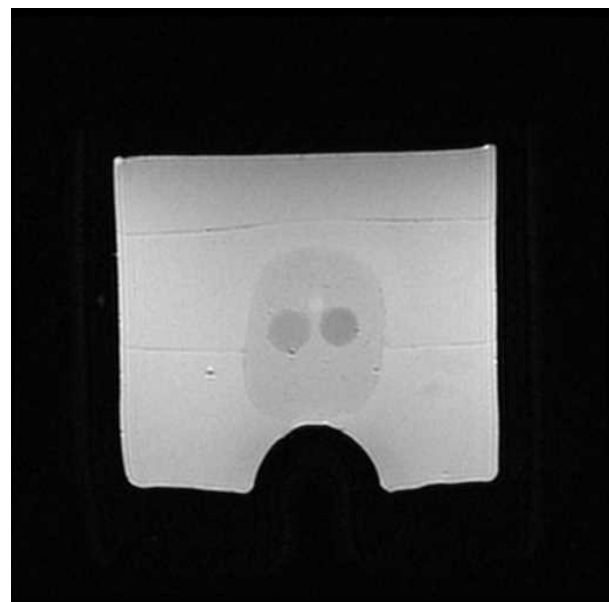
Model 070L CT Image



Model 070L US Image



Model 070L MR T1 Image



Model 070L MR T2 Image

SPECIFICATIONS

CONTAINER

Dimensions: 9 cm x 10 cm x 10 cm
 Weight: 2 lbs
 Probe opening: 12 mm

PERINEAL MEMBRANE

Material: Z-Skin

BACKGROUND GEL

Standard Ultrasound background
 0dB with respect to liver reference

URETHRA

Dimensions: 0.7 cm Ø
 Material: Zerdine^{®(1)}, anechoic

SEMINAL VESICLES

Dimensions: 7 mm Ø x 10 cm long
 Material: Zerdine, hypoechoic with respect to background

PROSTATE

Hypoechoic with respect to background
 35 cc Digitally Modeled with seminal vesicles and bladder
 Model 070L: Embedded lesions
 Model 070S: No lesions

RECTAL WALL

Material: Z-Skin

MODEL 070 INCLUDES

Tissue-Equivalent Prostate Phantom
 User Guide
 6-Month Warranty

MODEL 070 KIT OPTIONS

070S-035 & 070L-035: includes all parts from standard Model 070, CT DICOM Data Set⁽²⁾ (Serial number specific, 1.5 mm slice) thickness @ 120 kvp

(1) US Patent # 5196343

(2) DICOM Images are provided with a free DICOM reader (Onis 2.6). If using alternate software to read the images, please notify CIRS of any special requirements for making the data compatible with your software. For instance, some programs include special checks of the DICOM header file or the DICOM directory when loading the image data set.

