



SUN NUCLEAR

A MIRION MEDICAL COMPANY

Prostate Training Phantom

070L

- Supports training for prostate image-guided procedures
- Enables diagnostic and interventional prostate procedures
- Includes embedded lesions for training and evaluation



The Prostate Training Phantom is a realistic and durable solution for training in both diagnostic and interventional prostate procedures. The phantom features a prostate with embedded lesions, urethra, seminal vesicles, partial bladder, and perineal membrane.

Zerdine® hydrogels are used to simulate the ultrasound contrast between the prostate and surrounding tissue. These gel formulations provide contrast for CT, MR, and elastography applications, enabling multimodality imaging and training. A proprietary Z-Skin™ elastomer simulates the characteristics of human skin during scanning and biopsy while protecting the Zerdine gel from rapid desiccation, even after repeated needle insertions.

The highly stretchable Z-Skin elastomer protects the internal gel from tearing when rectal probes are manipulated at steep angles. The phantom is compatible with both end-fire and side-fire ultrasound transducers, supporting a wide range of clinical workflows.

For users interested in image fusion studies, the phantom is also available as a kit that includes a serial-number–specific CT DICOM data set for reference.

Key Benefits

- Includes bladder, rectal wall, perineal membrane, urethra, and a digitally modeled prostate gland with seminal vesicles
- Supports training for ultrasound-guided seed implantation, cryosurgery, and needle biopsy in one phantom

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Prostate Training Phantom

Supports training for prostate image-guided procedures

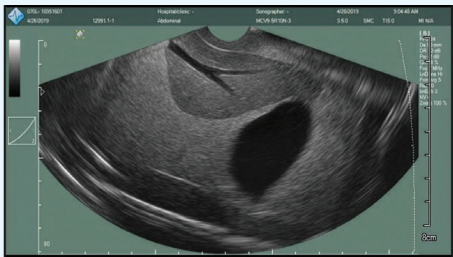
Specifications

Housing	Dimensions: 12.7 x 12.7 x 12.7 cm (5" x 5" x 5") Probe opening: 12 mm Weight: 4 lbs (1.8 kg)
Background Gel	Standard Ultrasound background 0 dB with respect to Liver reference
Seminal Vesicles	Dimensions: 7 mm dia x 10 cm length Material: Zerdine, hypoechoic
Urethra	Dimensions: 7 mm diameter Material: Zerdine, anechoic
Prostate	Hypoechoic with respect to background 45 cc Digitally Modeled with seminal vesicles and bladder Model 070L: Embedded lesions
Rectal Wall and Perineum	Material: Z-Skin elastomer

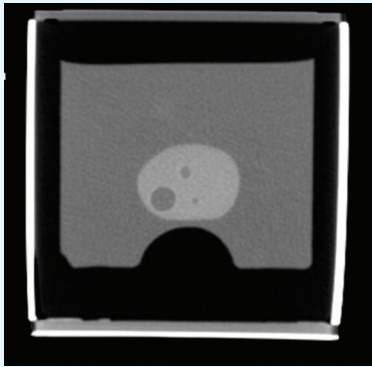
Optional Accessories

CT DICOM Data set¹ includes all parts from Prostate Training Phantom with serial number-specific CT images: 1.5 mm slice thickness at 120 kVp.

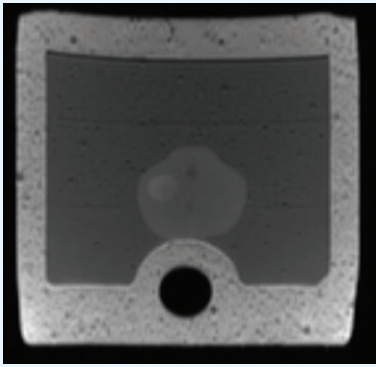
¹DICOM Images are provided with a free reader (Onis 2.6). If using alternate software to read the images, please notify Sun Nuclear of any special requirements for making the data compatible with your software. For instance, some programs include special checks of the DICOM header file or the DICOM directory when loading the image data set.



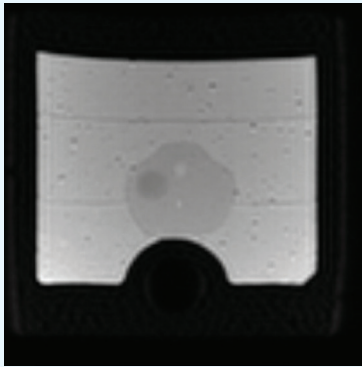
Model 070L US Images
Left: Anterior Posterior - Right: Transverse



Model 070L CT Image



Model 070L MR T1 Image



Model 070L MR T2 Image

Note: If any device has been inserted into the phantom, the warranty does not cover claims related to material desiccation or needle tracking.