

Multi-Modality Pelvic Phantom

Model 048A



REALISTIC ABDOMINAL IMAGING OF THE MALE BLADDER AND PROSTATE

The Multi-Modality Male Pelvic Phantom was designed for realistic abdominal and transrectal ultrasound scanning of the bladder and prostate. The phantom includes pelvic bones, anechoic bladder, prostate, urethra, seminal vesicles and rectum enclosed in a pelvic-shaped plastic housing with a Z-Skin™ membrane. The self-healing qualities of Z-Skin make this design ideal for the demonstration of biopsies and other image-guided procedures.

Our phantom is made from materials that can be imaged under ultrasound, MRI and CT making it useful for applications that require multiple modalities such as radiation treatment planning. The phantom is provided with certified prostate and bladder volumes to enable assessment of volumetric measurement accuracy. Modifications are available such as permanently embedded brachytherapy “dummy” seeds or gold fiducial markers for demonstration of target visualization.

Each phantom is sold with a certificate of compliance. 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. CIRS can also offer value added services such as phantom specific CMM, attachment of customer specific registration devices and inclusion of special point markers.

Features

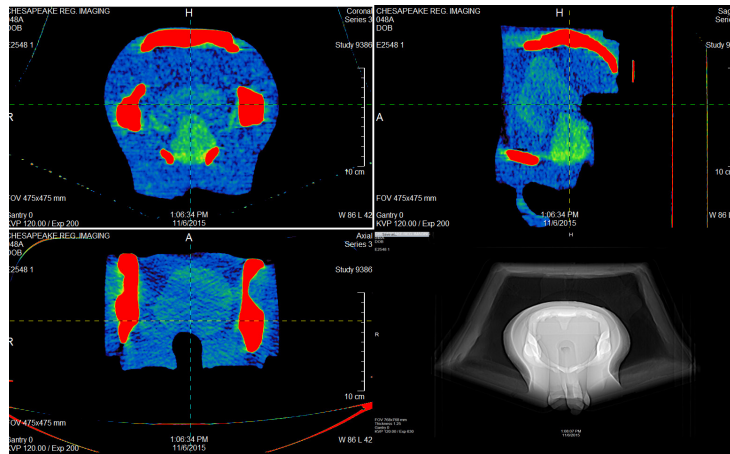
- Images under ultrasound, MRI and CT
- Assess volumetric measurement accuracy on prostate and bladder
- Demonstrate biopsy techniques and other image-guided procedures

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Tissue Simulation & Phantom Technology



Sample CT and SCOUT image



Sample Ultrasound Image of 048A



Sample Ultrasound Image of 048A

SPECIFICATIONS

DIMENSIONS:	15 cm W x 11 cm L x 11 cm H
PHANTOM WEIGHT:	16 lbs. (5.9 kg)
BACKGROUND:	Zerdine ⁽¹⁾
URETHRA:	Zerdine Ultrasound Contrast: Anechoic Diameter: 1/4"
SEMINAL VESICLES:	Zerdine Ultrasound Contrast: Isoechoic to prostate Diameter: 1/4"
RECTUM:	Zerdine Ultrasound Contrast: Isoechoic to prostate Diameter: 32mm
PELVIS:	Tissue Equivalent epoxy resin Attenuation: Highly attenuating will cast shadows
BLADDER:	Zerdine Ultrasound Contrast: Anechoic at 15 dB Volume: 177cc
PROSTATE:	Zerdine Ultrasound Contrast: Hypoechoic Volume: 45cc
PHANTOM HOUSING:	ABS shell, thermoformed to pelvic shape Membrane: Z-Skin

MODEL 048A INCLUDES

QTY	COMPONENT DESCRIPTION
1	Multi-Modality Pelvic Phantom
1	Certificate of Compliance
1	User Guide
-	6-Month Warranty

MODEL 048A-035 KIT INCLUDES

QTY	COMPONENT DESCRIPTION
1	Multi-Modality Pelvic Phantom
1	CT DICOM Data Set ⁽²⁾ (Serial number specific, 1.5 mm slice thickness @ 120 kvp)
1	Certificate of Compliance
1	User Guide
-	6-Month Warranty

(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.

