The CIRS Model 048 male pelvic phantom was designed for realistic abdominal ultrasound scanning of the bladder and prostate. The phantom includes pelvic bones, 177cc anechoic bladder, prostate, urethra, seminal vesicles and rectum enclosed in a rugged ABS housing.

The Model 048 is made from materials that can be imaged under ultrasound, MRI and CT making the phantom 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 and includes a carry case.
### Multi-Modality Pelvic Phantom

**Model 048**

**Specifications**

| Dimensions: | 18 x 18 x 18 cm  
(7.08" x 7.08" x 7.08") |
|-------------|--------------------------------------------------|
| Phantom Weight: | 16 lbs.  
(5.9 kg) |
| Materials: | **Background**  
Zerdine®  
Speed of Sound: 1540 m/s at 22°C  
Attenuation: 0.50 dB/cm-MHz  
Contrast: +9 dB with respect to CIRS reference material |
| | **Urethra**  
Zerdine  
Contrast: Hypoechoic  
Diameter: ¼" |
| | **Seminal Vesicles**  
Zerdine  
Contrast: Isoechoic to prostate  
Diameter: ¼" |
| | **Rectum**  
Zerdine  
Contrast: Isoechoic to prostate  
Diameter: 32mm |
| | **Pelvis**  
Tissue Equivalent epoxy resin  
Attenuation: Highly attenuating will cast shadows |
| | **Bladder**  
Zerdine  
Speed of Sound: 1540 m/s at 22°C  
Attenuation: < 0.07 dB/cm-MHz  
Contrast: Anechoic at 15 dB  
Volume: 177cc |
| | **Prostate**  
Zerdine  
Speed of Sound: 1540 m/s at 22°C  
Attenuation: 0.50 dB/cm-MHz  
Contrast: Hypoechoic  
Volume: 45cc |
| | **Phantom Housing**  
3/16" Black ABS  
Scanning Area: 16 x 16 cm  
Scanning Well: 2 cm deep  
Material: Saran based |

### Model 048 Includes

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Publication: DS 048 011613

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