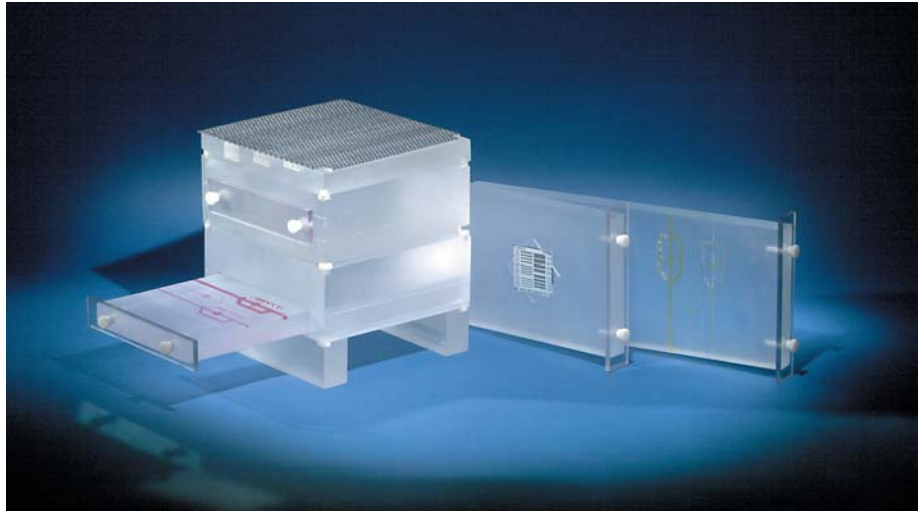


Digital Subtraction Angiography (DSA) Phantom^{*}

Model 76-710

- New phantom design yields dramatic improvement in the quality of the subtracted image
- Conforms to Report #15 by the American Association of Physicists in Medicine (AAPM)
- Evaluates digital functions of DSA systems
- Checks contrast range, resolution, linearity, uniformity, amplifier dynamic range, registration accuracy and subtraction effectiveness
- Provides easy-to-interpret results
- Quantitatively measures high- and low-contrast spatial resolution



Features

- Retaining hasps ensure a tight fit between the step blocks, for reduced motion artifacts
- Specially-designed “stop” on the end of the slot blocks improves the positional accuracy of the insert material during image acquisition, and reduces the number of DSA frames that must be acquired
- The U-block provides a very sturdy support when entrance exposures are being measured with a dosimeter ion chamber
- Two artery blocks in two concentrations of iodine: 15 mg/ml and 150 mg/ml, for increased clinical relevance
- A 300 mg/ml iodine artery block is available as an option

Introduction

This Model 76-710 Digital Subtraction Angiography (DSA) Phantom[†] conforms to the recommendation in Report No. 15 by the American Association of Physicists in Medicine (AAPM) - Digital Radiology/Fluorography Task Group of the Diagnostic X-Ray Imaging Committee.

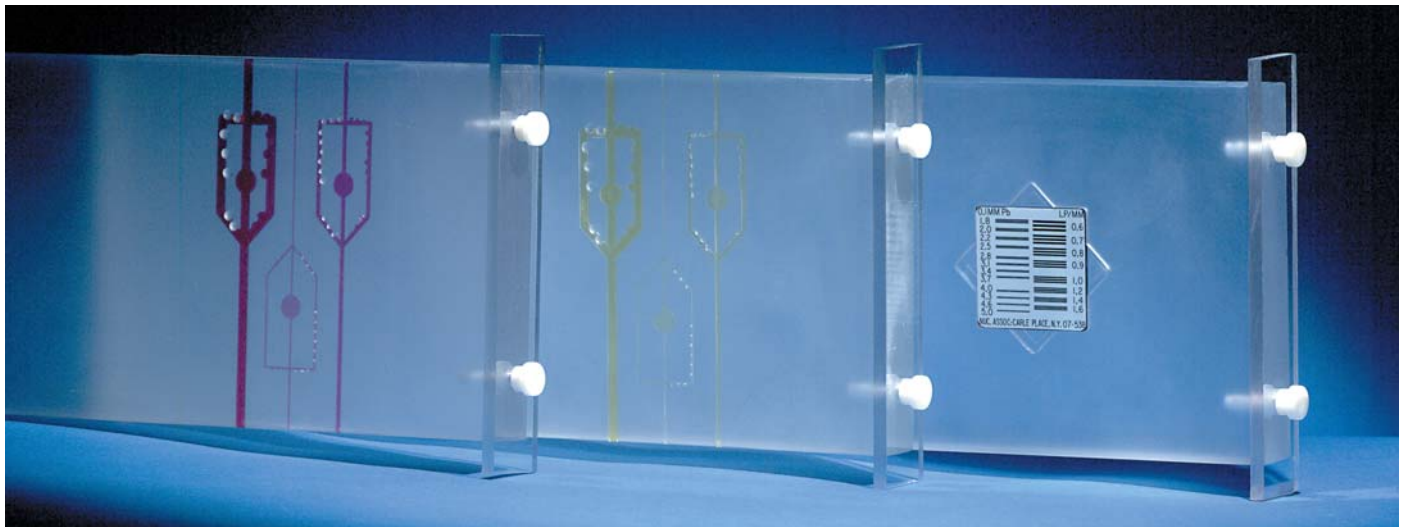
Benefits

- Dramatic improvement in the quality of the subtracted image due to:
 - Improved phantom stability
 - Increased homogeneity of bone material in bone blocks
- Eliminates occurrence of mis-registration artifacts caused by inadvertent movement of the phantom components during image acquisition

See also, RadiaXon™ Radiation Attenuation Gloves (Model 57-965) used in interventional procedures.

^{*} Designed by Joel E. Gray, Ph.D., Professor Emeritus, Mayo Graduate School of Medicine and Jerome P. Taubel, R.T., Department of Diagnostic Radiology, Mayo Clinic® and Foundation. Manufactured under licensing agreement with Mayo Foundation for Medical Education and Research.

[†] This phantom conforms to the recommendation in Report #15 by the American Association of Physicists in Medicine (AAPM)-Digital Radiography/Fluoroscopy Task Group of the Diagnostic X-Ray Imaging Committee.



The DSA phantom includes:

- Registration Plate
- Slot Block
- 150 mg/ml Artery Block
- 15 mg/ml Artery Block
- Bone Block
- Step Block
- U-Block Base
- Retaining Hasps

Specifications

Weight 30.7 lb (13.9 kg)

Optional accessories

Artery Block, with 15 mg per ML venous concentration
(Model 76-705)

Artery Block (from 76-700-1150 phantom), with 150 mg per ML arterial concentration (Model 76-705-1150)

Artery Block (from 76-700-1300 phantom), with 300 mg per ML arterial concentration (Model 76-705-1300)

Step Wedge (Model 76-711)

Slot Block (Model 76-712)

Bone Block (Model 76-713)

Blank Insert (Model 76-714)

Low-Contrast Artery Insert (Model 76-715)

Low-Contrast Iodine Line Pair Insert (Model 76-716)

High-Contrast Resolution Pattern Insert (Model 76-717)
(does not include test pattern(s))

Registration Plate (Model 76-718)

Linearity Insert (Model 76-719)

Optional high-contrast resolution test patterns

High-Precision Test Pattern, 0.01 mm thick (Model 07-527)

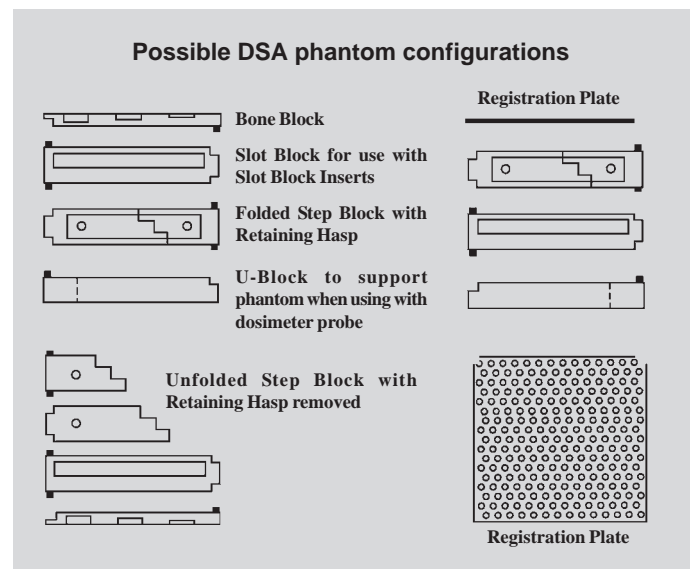
High-Precision Test Pattern, 0.10 mm thick (Model 07-538-1000)

Ultra-High Precision Test Pattern, 0.10 mm thick (Model 07-538-2000)

(See Test Patterns data sheet for a complete listing)

Available model(s)

76-710 DSA Phantom



For more information, receive our full product catalog, or order online, contact **Radiation Management Services** business of **Fluke Biomedical**: 440.248.9300 or www.flukebiomedical.com/rms.

Specifications are subject to change without notice.

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76-710-ds rev 2 13 may 05