The CIRS Model 903 Radiography / Fluro phantom was originally designed as an integral part of the ACR's Radiography/Fluoroscopy voluntary program with CIRS being a certified manufacturer. The phantom can be used for both initial QA assessment and routine monthly QA testing to help ensure patients are receiving the best possible X-ray examinations.

Our CIRS Model 903 is manufactured from Polymethyl Methacrylate (PMMA) equivalent epoxy that offers the same x-ray attenuation properties as PMMA with significantly greater durability.

The overall phantom measures 25.4 cm wide x 25.4 cm long x 20.7 cm high and consists of three attenuation plates, one test object plate and a detachable stand for easy, reproducible set-up. Test objects include high-resolution copper mesh targets from 12 – 80 lines per inch, two separate contrast-detail test objects.

**Features**

- Suitable on CR, DR & Fluoroscopy systems
- Durable PMMA-equivalent epoxy
- Multiple configurations
- Assesses:
  - Entrance skin dose
  - Minimum detectable contrast (%)
  - Low-contrast resolution
  - Optical density
  - High-contrast resolution
**SPECIFICATIONS**

**DIMENSIONS:**
- 25.4 cm x 25.4 cm x 20.3 cm
  
  (10" x 10" x 8")

**PHANTOM WEIGHT:**
- 16.8 kg (37 lb)

**MATERIALS:**
- PMMA-equivalent epoxy

**MODEL 903 INCLUDES**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>QTY</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>903-01</td>
<td>1</td>
<td>Test Object Plate</td>
</tr>
<tr>
<td>903-02</td>
<td>1</td>
<td>4.1 cm Block with Lead Markers</td>
</tr>
<tr>
<td>903-03</td>
<td>1</td>
<td>7.6 cm Block with Aluminum Plate &amp; Detachable Support Legs</td>
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<tr>
<td>903-04</td>
<td>1</td>
<td>7.6 cm Block</td>
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</tbody>
</table>

**PHANTOM TOP VIEW**

**TEST OBJECT PLATE (903-01)**

- 25.4 cm
- Contrast Detail test objects
- Lead Markers

**4.1 cm BLOCK (903-02)**

- 25.4 cm
- Distance from block center to lead markers = 7 cm

**TEST OBJECT PLATE DETAILS (903-01)**

**HIGH CONTRAST MESH**
- LINES PER INCH
  - A-80
  - B-12
  - C-16
  - D-20
  - E-24
  - F-30
  - G-40
  - H-50
  - I-60

**LOW CONTRAST HOLES IN ALUMINUM DISK**
- Hole Diameter - 0.375"
- Hole Depths
  - 1 - 0.068
  - 2 - 0.049
  - 3 - 0.035
  - 4 - 0.025
  - 5 - 0.018
  - 6 - 0.0126
  - 7 - 0.0091
  - 8 - 0.0063
  - 9 - 0.0040

**CONTRAST-DETAIL TEST OBJECT**

- Hole Depth (in)
  - 3 cm
  - 0.06 0.05 0.04 0.03 0.02 0.015

**PHANTOM SIDE VIEW**

- 25.4 cm
- TEST OBJECT PLATE (903-01)
- 4.1 cm BLOCK (903-02)
- 7.6 cm BLOCK (903-04)

- 7.6 cm BLOCK WITH ALUMINUM PLATE & DETACHABLE SUPPORT LEGS (903-03)