for use with: Accu-Gold+ / Accu-Dose+

10X6-6
General Purpose In Beam Chamber
A well documented wide dynamic range chamber with many dose and rate applications. Also recommended for measuring exposure time in Auto Dose mode.

10X6-6M
Dedicated Mammography Chamber
A world standard for mammography, ready for any mammographic tube track-filter combination. Extraordinary flat energy response over 10 - 40 keV has been documented in technical papers and makes corrections unnecessary. Also recommended for measuring exposure time in Auto Dose mode.

10X6-10
General Purpose In Beam Chamber
This 10cc multi-purpose ion chamber is suitable for measuring R&F as well fluoro. It's small size (5cm diameter x 1cm thick), excellent energy response and x-ray transparency makes it ideal for those difficult measurements where space is at a minimum.

10X6-60/60E
Service and Image Intensifier Chamber
The dynamic range and thin profile is ideal for Input Dose at the Image Intensifier, High dose rates encountered in Fluoroscopy and Cine, spot film devices & other special procedures. Additionally, the -60E (extended) chamber’s increased sensitivity at lower energies turns the chamber into a “Universal” detector, covering mammography through R&F and beyond.

10X6-3CT
Computed Tomography Dose Index (CTDI) and DWP or DLP Chamber
Although designed specifically for CT X-ray beam measurements, either free-in-air or mounted in a head or body phantom, it can be used for DWP and DLP applications such as Dental x-ray measurements, due to the chambers excellent energy and partial volume response as well as uniformity along its entire 10 cm active length.

10X6-180
Leakage and Low Level Measurements Chamber
Designed for leakage measurements. Cross-section of 100 cm² and volume of 180 cm³. Also for very low dose to image receptor.

10X6-1800
Radiation Protection Chamber
For low-level radiation measurements such as shielding leakage, irradiator and environmental. Unlike typical survey meters, the 1800 cm³ volume chamber offers improved accuracy over a wider dynamic range.

10X6-0.18
High Dose Rate Chamber
For in-beam measurements of high-intensity gamma radiation. Gamma irradiators and beam type irradiators. The fully guarded chamber is mounted at the end of a 3 m low noise triax cable.

10X6-0.6
High Dose Rate Chamber
This high dose rate chamber provides an excellent response at therapy and other high energy, high dose rate applications. The fully guarded chamber is mounted at the end of a 12 m low noise triax cable. Can be used with or without build up cap depending upon the application.

10X6-0.6CT
Modern Wide Beam Multi-Slice CT Chamber
0.6cc thimble chamber as described in the AAPM Report No. 111 “Comprehensive Methodology for the Evaluation of Radiation Dose in X-ray Computed Tomography.” Ideal for dose measurements in modern wide beam multi-slice CT. Calibrated using X-rays @ 150 kVp, Phantom adapter included.

10X6-500
Leakage Measurement Chamber
A single sensor leakage measurement solution for very low-level radiation measurements such as shielding, leakage, irradiators and environmental that is part of the Accu-Gold family of systems. Equivalent to the Fluke® 96010A Ion Chamber used in the Fluke® Radiation Leakage Detection System, this chamber meets 21 CFR 1020.30(k) for leakage measurement requirements.
### SPECIFICATIONS / TECHNICAL DATA:

**All specifications subject to change.**

<table>
<thead>
<tr>
<th>CHAMBERS</th>
<th>10X6-6</th>
<th>10X6-6M</th>
<th>10X6-10</th>
<th>10X6-60/0E</th>
<th>10X6-3CT *</th>
<th>10X6-180</th>
<th>10X6-1800</th>
<th>10X6-0.18</th>
<th>10X6-0.6/0.6CT</th>
<th>10X6-500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Min Rate</strong></td>
<td>2 μR/s</td>
<td>20 nGy/s</td>
<td>2 μR/s</td>
<td>20 nGy/s</td>
<td>2 μR/s</td>
<td>20 nGy/s</td>
<td>2 μR/s</td>
<td>20 nGy/s</td>
<td>0.1 nGy/hr</td>
<td>0.1 µGy/hr</td>
</tr>
<tr>
<td><strong>Max Rate</strong></td>
<td>17 R/s</td>
<td>149 mGy</td>
<td>17 R/s</td>
<td>149 mGy</td>
<td>2 R/s</td>
<td>19 mGy</td>
<td>40 R/s</td>
<td>350 mGy</td>
<td>0.6 R</td>
<td>4.9 mGy</td>
</tr>
<tr>
<td><strong>Min Dose</strong></td>
<td>10 μR</td>
<td>100 nGy</td>
<td>10 μR</td>
<td>100 nGy</td>
<td>1 μR</td>
<td>10 nGy</td>
<td>20 μR</td>
<td>200 nGy</td>
<td>2 nGy</td>
<td>1 nR</td>
</tr>
<tr>
<td><strong>Max Dose</strong></td>
<td>59 kR</td>
<td>516 Gy</td>
<td>59 kR</td>
<td>516 Gy</td>
<td>5.9 kR</td>
<td>52 Gy</td>
<td>118 kR</td>
<td>17 Gy</td>
<td>2.0 kR</td>
<td>17 kGy</td>
</tr>
<tr>
<td><strong>Cine</strong></td>
<td>0.1 μR/f - &gt;1 R/f</td>
<td>±5%, 0.25 cm</td>
<td>±5%, 0.25 cm</td>
<td>±5%, 0.25 cm</td>
<td>±5%</td>
<td>±10 mGy/f</td>
<td>±5%</td>
<td>±10 mGy/f</td>
<td>±5%</td>
<td>±10 mGy/f</td>
</tr>
<tr>
<td><strong>Exposure Rate</strong></td>
<td>±5%, 0.4 mR/s to 80 R/s, up to 500 R/s for 50 us pulses</td>
<td>±5%, 0.2 R/min to 600 R/min</td>
<td>±5%, 0.2 R/min to 600 R/min</td>
<td>±5%, 0.2 R/min to 600 R/min</td>
<td>±2%, 2 mR/s to 40 R/s</td>
<td>±5%, 20 mR/hr to 2000 R/hr</td>
<td>±5%, 20 mR/hr to 2000 R/hr</td>
<td>±2%, 3 mR/s to 720 R/s</td>
<td>±2%, 10 mR/s to 100 R/s</td>
<td>±5% up to 5 Gy/hr</td>
</tr>
<tr>
<td><strong>Energy Dependence</strong></td>
<td>±5%, 30 keV to 1.33 MeV (with build-up material)</td>
<td>±5%, 10 keV to 40 keV</td>
<td>±5%, 15 keV Al to 15 mm Al HVL</td>
<td>±5%, 20 keV to 1.33 MeV (with build-up material)</td>
<td>±60% ±5% to 20 mm Al HVL</td>
<td>±60% ±5% to 20 mm Al HVL</td>
<td>±60% ±5% to 20 mm Al HVL</td>
<td>±5%, 30 keV to 1.33 MeV (with build-up material)</td>
<td>±5%, 45 keV to 1.33 MeV</td>
<td>±5%, 40 keV to 1.33 MeV (with build-up cap)</td>
</tr>
<tr>
<td><strong>Active Length / Area</strong></td>
<td>27.6 mm</td>
<td>N/A</td>
<td>N/A</td>
<td>100 mm</td>
<td>N/A</td>
<td>100 cm²</td>
<td>165 mm</td>
<td>8.1 mm</td>
<td>19.7 mm</td>
<td>200 mm</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Polycarbonate walls and electrode; conductive graphite interior coating; 6 cm² active volume; 0.05kg</td>
<td>Polycarbonate walls and electrode; conductive graphite exterior coating; 10.3 cm² active volume; 15.0 low noise trax cable; 0.05kg</td>
<td>Polycarbonate walls and electrode; conductive graphite exterior coating; 60 cm² active volume, 0.5 m low noise trax cable; 0.13kg</td>
<td>C552 air-equivalent walls and electrode; polycarbonate exterior cap, 3 cm² active volume, 1.5 m low noise trax cable; 0.11kg</td>
<td>Polycarbonate walls and electrode; conductive graphite exterior coating; 180 cm² active volume; 0.18 cm² active volume; 0.11kg</td>
<td>Polycarbonate walls and electrode; conductive graphite exterior coating; 1800 cm² active volume; 0.54 kg</td>
<td>C552 air-equivalent walls and electrode; polycarbonate exterior cap, 0.18 cm² active volume, 0.6 cm² active volume; 0.6 CT 3 mm triax cable</td>
<td>Truncated cylinder, polycarbonate walls and electrode; conductive graphite exterior coating; 522 cm³ active volume; 0.54 kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Uniformity Along Length & Partial Volume Exposure: ±5%, to within 0.25 cm of chamber ends for a constant volume slice. Active length of 10 cm.

** Complies with CFR 21

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