





# X-RAY TUBE MAINTENANCE PROTOCOLS

In order to ensure the best performance of your ACTEON X-ray device, there are specific maintenance protocols required, to guarantee they comply to quality standards after a period of inactivity.

EQUIPMENT	ACTIONS
<p>X-MIND trium</p> 	<ul style="list-style-type: none"> <li>• Perform a tube calibration (see Ch. 12.6 of the X-MIND Trium Service Manual)</li> <li>• Perform <b>5 exposures at minimum selectable kV and mA</b> in PAN STD exam and <b>gradually increase</b> in the following order:               <ul style="list-style-type: none"> <li>○ mA: 7mA, 10 mA</li> <li>○ kV: 70kV, 85 kV</li> </ul> </li> </ul>
<p>X-MIND unity</p> 	<ul style="list-style-type: none"> <li>• Perform a tube calibration (see Ch. 5.7 of the X-MIND Unity Service Manual)</li> <li>• <b>5 exposures at minimum selectable kV and mA - 100ms</b> and <b>gradually increase</b> in the following order:               <ul style="list-style-type: none"> <li>○ time (200ms - 400ms - 800ms): 1 exposure per value</li> <li>○ mA: 1 exposure per value</li> <li>○ kV: 1 exposure per value</li> </ul> </li> </ul>
<p>X-MIND AC/DC</p> 	<ul style="list-style-type: none"> <li>• Perform a tube calibration (see Ch. 10.1 of the INSTALLATION Manual X-MIND DC)</li> <li>• 5 exposures at minimum selectable kV and mA - 100ms and gradually increase in the following order:               <ul style="list-style-type: none"> <li>○ time (200ms - 400ms - 800ms): 1 exposure per value</li> <li>○ mA: 1 exposure per value</li> <li>○ kV: 1 exposure per value</li> </ul> </li> </ul>

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<p>X-MIND prime</p>  A white dental X-ray unit with a vertical column and a horizontal arm holding the X-ray tube head. The unit is labeled 'X-MIND prime'.	<ul style="list-style-type: none"><li>• Perform with PhD_Test software (see Ch. 7.12.2 of the service manual) the exposures at the following loading factors:<ul style="list-style-type: none"><li>○ 5 exposures at 60 kV - 2 mA - 1s</li><li>○ 1 exposure at 60 kV - 2 mA - 15s</li><li>○ 1 exposure at 60 kV - 2.8 mA - 15s</li><li>○ 1 exposure at 60 kV - 3.6 mA - 15s</li><li>○ 1 exposure at 60 kV - 5.0 mA - 15s</li><li>○ 1 exposure at 60 kV - 8.0 mA - 15s</li><li>○ 1 exposure at 60 kV - 12.5 mA - 15s</li><li>○ 1 exposure at 70 kV - 4.0 mA - 15s</li><li>○ 1 exposure at 70 kV - 12.5 mA - 15s</li><li>○ 1 exposure at 80 kV - 4.0 mA - 15s</li><li>○ 1 exposure at 80 kV - 12.5 mA - 15s</li><li>○ 1 exposure at 86 kV - 4.0 mA - 15s</li><li>○ 1 exposure at 86 kV - 8.0 mA - 15s</li><li>○ 1 exposure at 86 kV - 12.5 mA - 15s</li></ul></li></ul>