



## In Vivo Micro-CT Scanner for Small Lab Animals LaTheta LCT-200

LCT-200 is an X-ray CT scanner for experimental animals. The non-invasive measurement is economical in the way that it enables you to observe the same mouse or rat in long-term. By using the standard analysis software, quantitative analysis of RAW data for fat, bone, body mass etc.

- Ideal for morphological observation
- Respiratory and cardiac synchronized scanning
- Portable design with shielding box

### Specifications

<b>Holder size</b>	24, 48, 80 and 120 mm diameter (isolated bones, mice, rats and obese rats) • Scan area to be reduced by thickness of a specimen holder is typically 3 to 12 mm (10%)
<b>X-ray generator</b>	Tube voltage : 50 and 80 kV Tube current : Maximum 0.5mA
<b>Scan mode</b>	Tomography (standard, precision, high-precision and integrating modes) General/digital radiography (standard, precision and high-precision modes)
<b>Axis of the body (Transition)</b>	Maximum 300 mm (general/scout scan length)
<b>Number of slices</b>	Maximum 2,000
<b>Image matrix</b>	512 x 512 to 2,048 x 2,048
<b>Scan function</b>	Respiratory and cardiac synchronization
<b>Analysis/processing function</b>	<p><b>Form measurement</b></p> <ul style="list-style-type: none"> <li>• Distance, area, volume, body fat percentage, separation of visceral and subcutaneous fats</li> </ul> <p><b>Bone mineral density measurement</b></p> <ul style="list-style-type: none"> <li>• Total, cortical and cancellous BMDs</li> <li>• Morphology (cortical bone thickness, cortical bone and trabecular area ratios)</li> <li>• Mechanical property (second moment of minimum and polar areas)</li> </ul>
<b>Power requirement</b>	100 to 240 VAC $\pm$ 10%, 50 to 60 Hz, Maximum 400 VA (main unit only)
<b>Dimensions/weight</b>	Approx. 74 (W) x 116 (H) x 116 (D) cm / Approx. 220kg
<b>Environmental requirements in operation</b>	Temperature : +18 to +28 degrees C Relative humidity : 30 to 80% (non-condensing)