vivaCT 40 is a fast and flexible in-vivo microCT (micro-computed tomography) scanner for preclinical studies. The low X-ray dose allows serial measurements of individuals. Whole-body scans or scans from selected regions of mice can be made, while head and hind limbs of larger rodents can be scanned using beds supplied with the system.

A range of beds for in-vivo use as well as specimen scans are supplied. Access ports through the X-ray shielding are included to aid delivery of anesthetic and connection of cables for physiological monitoring. In addition, optional equipment for anesthesia as well as physiological monitoring and gating are available.

Specifications:
- **Type**: Cone-beam in vivo microCT
- **Fully shielded**: No external shielding required
- **X-ray source**: Sealed, Air-cooled, Maintenance-free, 30 - 70 kVp
- **Detector**: 2048 x 256 elements, 26 µm pitch
- **Resolution**: < 14 µm (10% MTF), 5 - 76 µm nominal isotropic (pixel size)
- **Image matrix**: 512 x 512 to 4096 x 4096 pix
- **Max. scan size**: 38.9 x 145 mm (ØxL)
- **Max. specimen size**: 80 x 500 mm (ØxL)
- **Min. scan time**: 30 s
- **Electrical**: 100 - 230 V / 50 - 60 Hz, 370 W
- **Dimensions**: 1650 x 1090 x 920 mm (HxWxD)
- **Weight**: 258 kg

Options:
- **Physiological monitoring unit**: Detects and pauses scanning during breathing cycle

More example images...

*With latest SW release

"Density calibration valid up to 38 mm

"Maximum length cannot be imaged completely

**SCANCO Medical AG**
Fabrikweg 2
8306 Brüttisellen
Switzerland

phone +41 (0)44 805 98 00
fax +41 (0)44 805 98 01
web www.scanco.ch
email info@scanco.ch