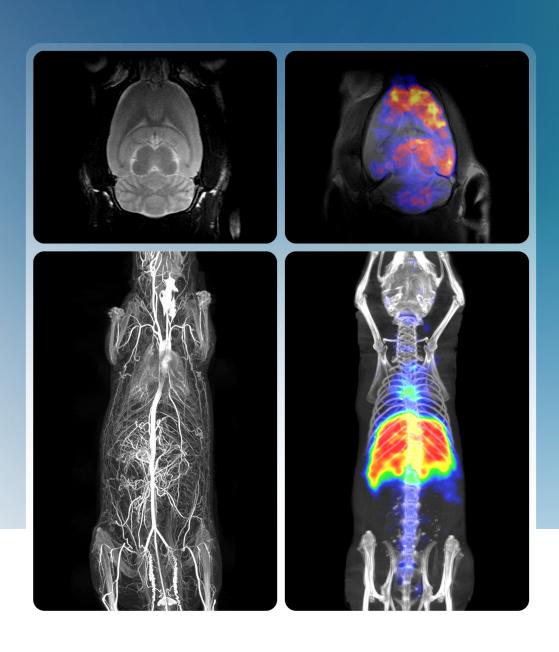
nanoScan® Family

The next generation four modality preclinical imaging platform PET/CT, PET/MRI 3T/7T, MRI 3T/7T, SPECT/CT, SPECT/CT/PET





nanoScan® Family

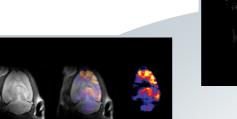
Common Versatile Platform

MRI

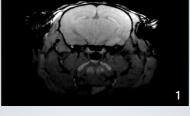
- · Compact, reliable design
- 7T or 3T field strength
- 100% Cryogen-free magnet
- Powerful gradients (up to 1000mT/m)
- Various, state-of-the-art RF coils



- · High throughput versatile imaging system
- Highest sensitivity
- 300 µm spatial resolution
- Full stationary, list mode data acquisition for dynamic imaging with < 3 sec time resolution
- > 97% absolute quantification accuracy
- · High flexibility
 - Parallel hole collimators for imaging large animals: rabbit, minipig, monkey
 - Helical, circular and full stationary acquisition schemes
 - Tailor-made multiple pinhole collimators for special applications
 - Capable for multi-isotope imaging (20 600 keV)



nanoScan® MRI 3T/7T

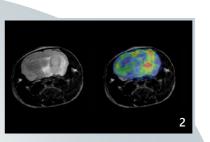


MRI

CT

PET

SPECT





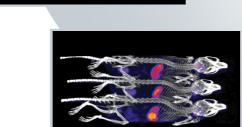
• Real dynamic system designed for quantitative studies (>97% accuracy)

nanoScan® PET/MRI 3T/7T

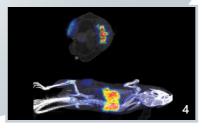
- Highest resolution ≤ 0.7 mm
- Highest count rate performance (850 kcps @ 60 MBq) for quantitative imaging of high radioactivity concentration
 - in radiotracer development
 - in imaging with tracers with short half-life (e.g. ¹¹C, ¹³N, ¹⁵O etc.)
- simultaneous imaging of multiple animals
- Large transaxial FOV (12 cm)
- Free access to the animal
- Matured design with proven performance (>120 installed systems world-wide)



nanoScan® SPECT/CT











nanoScan® SPECT/CT/PET

CT

- 80 W/1mA X-ray tube power
- x7,6 zoom
- < 10 µm isotropic voxel size
- 2-12 cm variable TFOV
- Ultra-low dose protocol with 1mGy



MultiScan™ LFER PET/CT



- 2. PET/MRI 3T imaging of glioma in mouse brain, Radiotracer: 3.2 MBq (86 μCi) ¹⁸FDG
- 3. ECG-gated PET of an 18g mouse, Radiotracer: 13.3 MBq (360 μ Ci) ¹⁸FDG

- 4. PET/CT of a 30g mouse, Radiotracer: 30kBq (0.8 μ Ci) 89 Zr-oxine labelled cells
- 5. CT of a 500g rat with an iodine based contrast agent
- 6. SPECT/CT of 3x 20g mice, Radiotracer: 16.6 18.7 MBq $(450-500 \mu Ci)^{99m}$ Tc pertechnetate



nanoScan® PET/CT

- 7. SPECT/CT of a 18g mouse, Radiotracer: 2.5 MBq (68 μ Ci) ^{131}I albumin
- 8. PET/MRI 3T of stroke in rat brain using 2 channel Phased Array coil, Radiotracer: 23 MBq (621 μ Ci) 18 FDG

Multicell™ imaging chambers

Mouse standard

Inner space: 36 x 290 mm Outer dimensions: 40 x 460 mm Up to 80 g



Rat standard

Inner space: 65 x 440 mm Outer dimensions: 70 x 540 mm



Mouse BSL3

Inner space: 36 x 290 mm Outer dimensions: 60 x 479 mm Up to 80 g



Rat - XXL

Inner space: 102 x 510 mm Outer dimensions: 110 x 650 mm



Three-Mouse

Inner space: 3 x 24 x 220 mm Outer dimensions: 70 x 500 mm Up to 3 x 30 g



Rabbit

Inner space: 150 x 600 mm Outer dimensions: 160 x 760 mm Up to 6.5 kg



Four-Mouse

Inner space: 4 x 30 x 194 mm Outer dimensions: 85 x 524 mm Up to 4 x 60 g

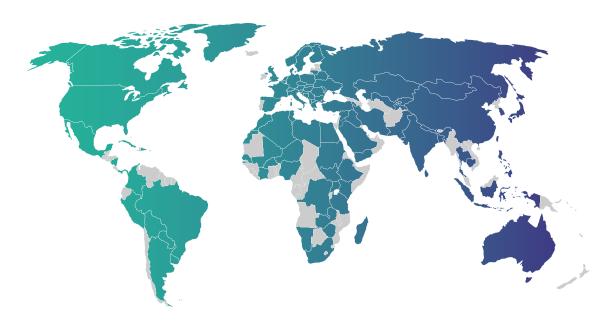


Marmoset

Inner space: 65 x 440 mm Outer dimensions: 70 x 540 mm Up to 600 g



More than 1300+ clinical and 270+ preclinical Mediso manufactured single and multimodality imaging systems were distributed in 100 countries of the world



Conformance Statement

Quality management system operated by Mediso Medical Imaging Systems complies with Council Directive 93/42/EEC Annex II. The multimodality molecular imaging system was approved by a Notified Body.

Product design, development, production and services comply with EN ISO 13485 and EN ISO 14971. Medical device design and safety testing has been performed in accordance with EN IEC 60601-1 and EN IEC 60601-1-2 standards.

Safety labels are attached to appropriate places on equipment and appear in all operation manuals.

The supplied software complies with DICOM standard.

The technical information provided here is not a detailed specification.

For details and up to date information please contact your local distributor or Mediso Medical Imaging Systems.



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