nanoScan® PET/MRI 3T and 7T

Full-scale, quantitative PET combined with a robust, cryogen-free MRI





Founded 1990

Offices

Employees 300+

Publications 3200+

Countries 100+





Preclinical systems 300+

Clinical systems 1350+



About us

Mediso works in the field of medical imaging for 30+ years with a profile of development, manufacturing, selling and servicing standalone and multi-modality imaging devices. The company offers complete solutions from hardware design to evaluation and quantification software for clinical patient care and preclinical research.

Mediso has a leader position in the preclinical imaging market with **over 300 commissioned systems** around the world. Beyond the market leading $nanoScan^{\text{@}}$ PET/CT and SPECT/CT, Mediso also offers standalone MRI and integrated PET/MRI systems based on a cryogen-free magnet with 3T or 7T field strength and a PET insert for simultaneous PET/MRI imaging. Products are sold directly or through a distribution network in 100+ countries worldwide

1990 Mediso founded

1994 Introduction of the first Mediso gamma camera

2000

Nucline™ X-ring/4R, 4-head dedicated brain SPECT

2006

Launching the first Mediso preclinical system the NanoSPECT/CT

2010

Launch of nanoScan® PET/CT, world's first ever sub-mm resolution preclinical PET/CT

2013

founded

Mediso USA

2014

MultiScan® LFER 150. world's first sub-mm resolution mobile PET/CT

2015

AnyScan® TRIO **SPECT, introduction** of triple SPECT detector family

2016

Introducing the nanoScan® PET/MRI 3T world's first superconducting preclinical PET/MRI

2018

Installation of the 100th nanoScan® PET system

2022

Installation of the 300th preclinical imaging system 2023

Launch of the nanoScan® MRI 7T and the PET Insert













2

PET systems

FULL-SCALE IN-LINE PET

Highest resolution:

<0.7 mm

Largest transaxial field of view

12 cm

Highest count rate performance **850 kcps** @ 60 MBq / 1.62 mCi

- Multiple animal imaging
- Imaging of short half-life isotopes

Optimized sensitivity and best Minimal Detectable Activity >8%

Largest installation base

SIPM-BASED PET INSERT

Highest resolution:

>150 systems

<0.7 mm

Optimized Sensitivity

>10%

Removable RF coils:

- **Mouse** WB
- Rat brain

Fast setup time

<2 min

Dual layer **DOI** crystal blocks for **homogeneous resolution**



DESIGNED FOR DYNAMIC STUDIES

Freely accessible animal during the scan

Minimized dead space for dynamic imaging

Start dynamic acquisitions from touch screen (e.g dynamic PET or DCE MRI),

Animal monitoring up to 3 animals

DUAL PET CONFIGURATION

Full-scale PET-ring with large field of view on the front

SiPM-based PET insert for simultaneous PET/MRI studies

MRI systems

3T AND 7T FIELD STRENGTH

100% Cryogen-free magnet

- No liquid helium or nitrogen
- Oclosed loop no need to top-up helium

Wide-range of

- RF Coils
- Sequences

Compact design:

- Small footprint
- Marginal fringe field
- 480 / 970 kg (3T / 7T)

Powerful gradient

for DWI applications (up to 1050 mT/m)

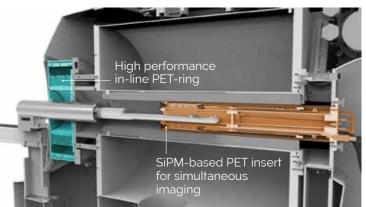
Low-vibration, rear mounted

PulseTube Cryocooler for artefact free

DWI-EPI

SmartMagnet™

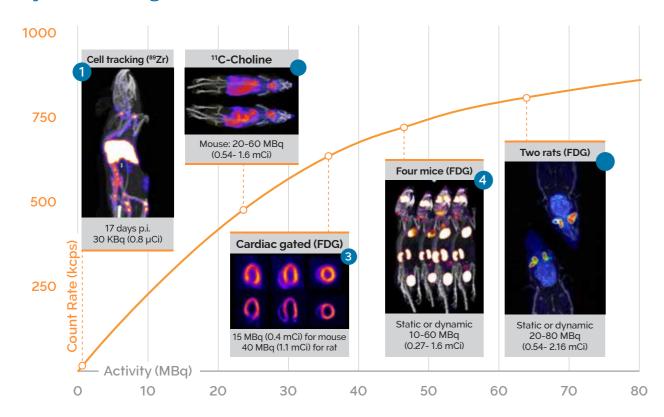
- Eco-friendly Idle Mode
- Active Quench Protection



Best PET image quality and widest dynamic range

The in-line PET subsystem features real dynamic scanning with the best count rate performance and highest resolution on the market, designed for quantitative imaging of mice, rats and even larger animals. When complemented with the PET insert the system covers every possible application in molecular imaging.

Dynamic range



UNCOMPROMISED APPLICATIONS WITH VERY LOW LEVEL OF RADIOACTIVITY

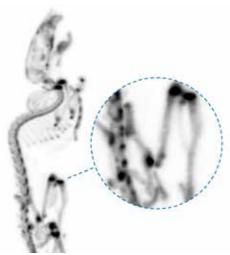
- Thick LSO crystals for excellent sensitivity
- Small (3 ns) coincidence time window neccesary for advanced corrections
- Advanced corrections (random, scatter, LSO background etc.) ensuring quantification at low activity levels
- Best minimal detectable activity on the market: 60 Bq (1.6 nCi)
- Inherently optimized for longitudinal e.g. long-term cell tracking 1 and cardiac studies

COPING WITH COUNT RATE: MASTERING STUDIES WITH HIGH DOSE

- Multichannel read-out electronics, ultra-fast data processing and advanced dead-time correction
- Exceptional count rate performance peak noise equivalent count rate (NECR) for mouse is 850 kcps @ 60 MBg (1.6 mCi)
- Fully quantitative up to 60 MBq (1.6 mCi) and beyond
- Suitable for dynamic imaging up to 3 mice 4 or 2 rats 5 simultaneously
- Optimal for imaging of isotopes with **short half-life** (11C, 13N, 15O etc.) 2

Resolving precise details with 700 µm spatial resolution

- (1.12 mm×1.12 mm) lutetium oxyorthosilicate (LSO) crystal needles provide precise signal localization preserving spatial information in
- Tera-Tomo™ 3D PET iterative reconstruction with unveiling the tiniest details on the image
- Large ring diameter and statistical depth of interaction compensation offer over the



Largest transaxial field of view

- Dore size and transaxial field of view enabling scanning of larger rats or multiple mice in both modalities
- Excellent homogeneity and image quality over the entire field of view
- Simultaneous multiple animal imaging (up to 3 mice or 2 rats) with individual physiological monitoring

PET insert offering simultaneous multiparametric imaging

Due to the high level of integration the nanoScan® PET insert offers uncompromised image quality while giving access to a unique way of hybrid imaging by obtaining information from functional, metabolic and physiological processes in a simultaneous manner.

- Simultaneous PET/MRI imaging of total body mouse or rat brain
- Providing high resolution and homogeneous image quality over the entire field of view as a result of using dual layer Depth-Of-Interaction crystal blocks of the finest LSO crystal needles
- Removable, allowing access to the full-bore of the MRI and also making benchtop measurements possible
- Available as an upgrade for existing PET/MRI 3T, 7T and MRI 3T, 7T installations or as a standalone system



PET insert with the removable RF Coil

Easy to use, high-performance MRI platform

100% Cryogen-free magnet

The core of the nanoScan® MRI systems is the most robust **100% cryogen-free** superconducting magnet ever built for preclinical applications. It utilizes **conduction cooling** and **does not contain liquid helium or any other liquid cryogens** in any amount.

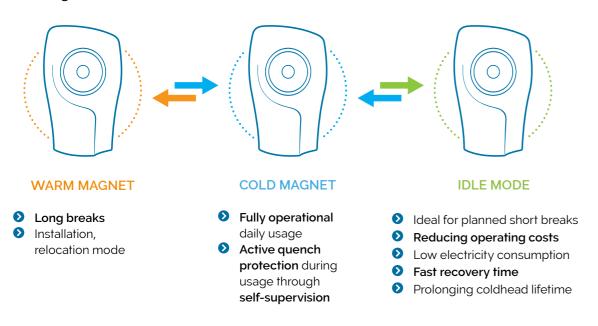
- It's base is a NbTi solenoid with multiple corresponding coils to maximize homogeneity and shielding thus reaching state-of-the-art homogeneity of ±0.1 ppm @ 50 mm DSV and negligible fringe field outside the cryostat.
- Uniquely it features a back mounted cryocooler to significantly reduce conducted vibrations and to make maintenance easier.
- All electrically conductive cylindrical parts of the magnet were designed to minimize the residual eddy current after strong gradient pulses, this way achieving high-quality DWI images.



Unique back mounted cryocooler significantly reducing vibrations

SmartMagnet[™] - Self-monitoring and management system

The patented* SmartMagnet™ technology enables one-click selection between different magnet modes.

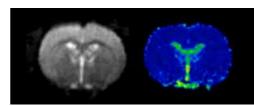


High-end MRI applications made easy

Comprehensive pulse sequence library in application packages

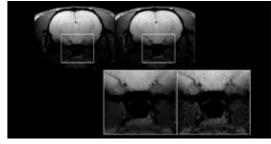
Readily optimized protocols are available for mice and rats including the most common MRI techniques as well as state-of-the art pulse sequences and methods.

- Basic anatomy: Quick Localiser, Gradient Echo 2D&3D, Spin Echo, Fast Spin Echo 2D&3D, Inversion Recovery option for SE and FSE, One Pulse, Field Map Based Shimming, Iterative shimming, FLAIR, MPRAGE, MP2RAGE, FISP, bSSFP, SS-FSE, GRASE, etc.
- Cardiology: Flow Compensated Gradient Echo, Phase Contrast MRA, CINE cardiac Black / Bright blood, Gating option, etc.
- Angiography: TOF-MRA 2D/3D, Phase Contrast MRA, SWI, etc.
- Spectroscopy: Localised single voxel PRESS, EPSI, STEAM, LASER, semi-LASER, ISIS, CSI, etc.
- Diffusion: Spin Echo DTI, EPI DTI, single- and multishot options, SPIRAL DTI, EPI DWI, ADC Mapping, etc.
- Relaxation and Fat Water Imaging: Multi-Echo GRE/SE, Multi Inversion Recovery SE and FSE,



7T Rat brain, Single-shot SE EPI, 3 diffusion directions, bO and corresponding ADC map

- Multi FlipAngle GRE 3D, T1 EPI, Quantitative T1/T2/B1 mapping, Relaxation curve fitting, 2/3-point DIXON, Fat chemical shift corrected images, etc.
- Parallel Imaging: GRAPPA reconstruction option for selected sequences
- Short Echo Time: UTE, ZTE with SPIRAL/ RADIAL/PROPELLER readout
- **CEST:** GRE 2D with SSFP readout
- Dynamic imaging (fMRI and DCE): Dynamic Gradient Echo EPI, DCE Gradient Echo with keyhole option, Compress sensing, CBF, etc.
- **SET OF STATE OF STAT**
- Al-based Denoising Reconstruction Package: denoising MRI reconstruction for rodent brain images.



Rat brain, Black-Blood FSE 2D, with Al Denoising reconstruction and original acquisition

Achieving perfect SNR in every region with wide range of RF coils

Mediso offers a wide range of highly shielded, low noise RF coils designed to deliver the **best possible SNR**. The coils are **fully integrated** with the MultiCell[™] system enabling precise animal positioning in relation to the coils, ensuring reproducible, quantitative results.

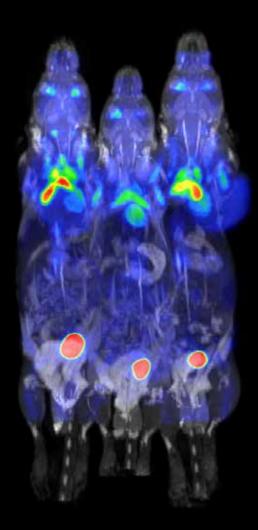
- Transmit/receive volume coils for total body imaging of up to obese rats or marmosets
- Dedicated mouse and rat brain volume coils with special imaging chambers
- Flexible surface coils of various diameters delivering excellent image quality and SNR
- Phased array coils with multiple receiver channels enabling parallel imaging for brain, heart or abdomen



PET/MRI Applications

Multiple animal imaging with PET/MRI 3T

High-throughput studies with the large diameter in-line PET ring. Simultaneous measurement of three tumor bearing mice. The integrated multi-animal workflow allows for automatic image segmentation resulting in separate DICOM images with quantitative SUV values.



ANIMAL MODEL: BALB/c mice

MRI ACQUISITION: GRE 3D Multi-FOV MRI, acq. time: 18 min,

NEX: 4, TR: 10ms, TE: 3.1ms, TH: 0.8mm

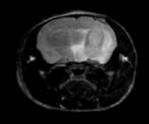
PET ACQUISITION: 20min static

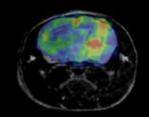
RF COIL: 72mm Quadrature Tx/Rx volume coil

RADIOTRACER: ¹⁸F-FDG, 4.87 MBq (131.6 µCi), 4.75 MBq (128.3 µCi) and 5.91 MBq (159.7 µCi)

¹⁸F-FDG Glioma imaging in mouse brain

Combining the great soft-tissue contrast of MRI with the molecular specificity of PET, the nanoScan® PET/MRI systems are the perfect tool for the development of novel therapeutic and diagnostic strategies for glioma.





ANIMAL MODEL: C56BL/6 mouse (28 g)

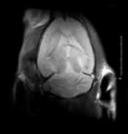
MRI ACQUISITION: T2W FSE 2D, FOV: 32mm x 32mm,
TH: 1mm, acq. time: 5 min

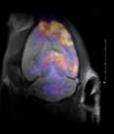
COILS: Quadrature Tx/Rx volume coil for mouse brain
PET ACQUISITION: dynamic

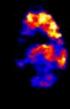
RADIOTRACER: 3.2 MBq (86 µC)118F-FDG

¹⁸F-FDG Stroke imaging in rat brain

The nanoScan® PET/MRI systems combine the excellent soft-tissue contrast of MRI with the molecular specificity of PET, making them the ideal tools for advancing novel therapeutics and diagnostics.







ANIMAL MODEL:: Wistar rat

MRI ACQUISITION: T2W FSE 2D, FOV: 32mm x 32mm, TH: 1mm, acq time: 10 min

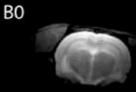
COILS: Quadrature Tx/Rx volume coil for transmission and 2ch phased array coil

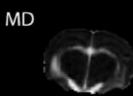
for signal reception

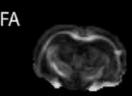
PET ACQUISITION: dynamic RADIOTRACER: ¹⁸F-FDG, 8 MBQ (216 CI)

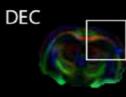
Diffusion Tensor Imaging at 3T High-resolution ToF MRA at 3T

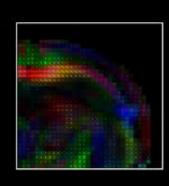
Single Shot DTI EPI in rat brain at 3T.











With the nanoScan® MRI 3T and 7T exceptional quality ToF MRA images can be acquired without the need of any contrast agents. Even at 3T the ACA (Anterior Cerebral Artery), MCA (Middle Cerebral Artery) and CoW (Circle of Willis) is clearly visible.



ANIMAL MODEL: : Wistar rat

SEQUENCE: Single Shot DTI EPI, Matrix size: 96x96, Diffusion directions: 120, b-value: 500, TH: 1 mm

 $_{\mbox{\footnotesize{COLS:}}}$ 72 mm Tx/Rx volume coil for transmission and, 30 mm flexible surface coil for signal reception

ANIMAL MODEL:: Wistar rat

SEQUENCE: 2D ToF MRA, In-plane resolution: 107um, Slice Thickness: 100um,

coils: 42mm Quadrature Rat brain coil and dedicated brain imaging chamber

Complete MRI workflow

Perform routine scans with the clinical validated **Nucline™** acquisition software

Nucline acquisition software has been developed for multimodal medical imaging devices and is used in clinical and preclinical systems as well. It provides the same easy-to-use, integrated framework and main features for all the different modalities (PET, SPECT, CT and MRI). It integrates wide range of functionalities of acquisition, calibration, data management, reconstruction and visualization. Nucline has been developed with focus on clean and user-friendly interface, while complying to industry standards (CFR11, DICOM) and high level cybersecurity expectations.



1 PERSONALIZED ACCESS LEVELS

- Routine: A couple of clicks and the system is ready to run a study-specific, optimized protocol. Only geometry is to set: error-free scanning guaranteed.
- Advanced: Several acquisition and reconstruction parameters are editable providing the possibility of further optimizing the protocols for the study.
- Research: Access to all system parameters for researchers with significant experience

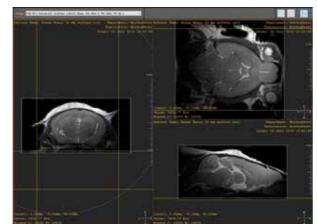
2 FOCUS ON QUALITY 🌼

- Automatic, quick daily QC protocols
- Real-time diagnostic feedback
- Logged diagnostic data

3 INTUITIVE GEOMETRIC PLANNER

- Designing scans graphically based on scout image or even any previous scan
- Setting up advanced features like shim box, saturation bands etc.
- Real-time MRI signal (selectable Real, Imaginary, Magnitude) during scan
- Multi-Sequence monitor to on-the-fly track progress of dynamic/gated/multi-series sequences
- Easy-to-use image viewer to quickly check the result image before next step





4 PREDEFINED, CONFIGURABLE PROTOCOLS

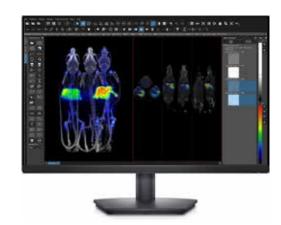
- Multimodality multi-step pre-saved factory protocols optimized for various applications
- Factory protocols can be copied, edited, fine-tuned by the User
- Study-optimized User protocols can be saved and loaded easily assuring quick, reliable scanning
- Protocols include automated calibrations (e.g. shim, RF, frequency etc.)
- Protocol steps can run automatically one by one
- Parameters are validated automatically



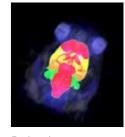
Analyze your quantitative data with the FDA approved **InterView™ FUSION** visualization and evaluation software

The FDA approved and clinically validated InterView FUSION multi-modal post-processing software is an essential part of system. It provides a wide range of functionalities to evaluate PET/SPECT/CT/MRI preclinical data for example:

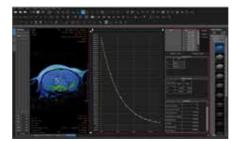
- Automatic MRI parametric evaluation,
 e.g. T1, T2 and ADC map creation
- Al-based MRI Denoising reconstruction
- Automatic multiple animal image separator
- Brain atlas
- Wide range of 2D and 3D image viewers and rendering for visualization including 3D MIP and 3D Volume Rendering
- 3D and 4D data fusion via all image viewers and visualization of them over time frames
- Large variety of ROI/VOI tools
- Time activity Curves (TAC) of multiple ROIs/VOIs over 4D dynamic data with multiple statistics (min, max, mean, stdev, sum, etc.)



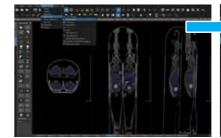
- Automatic co-registration procedures (rigid, affine and non-linear)
- Advanced segmentation methods
- Wide range of data input/ output/export capabilities including video formats



Brain atlas



Automatic MRI parametric evaluation



Automatic multiple animal image separator

Complete MRI workflow

Have absolute control over your experiments with the **Sequence Development Platform**

The Sequence Development Platform enables you to create your own sequences or modify the existing ones.

With the intuitive GUI, programming and testing a new sequence is very easy and straightforward. A built-in tool helps you to test out various, freely customizable reconstruction and post-processing algorithms and adding new ones. Sequences can be directly run from this SW or exported to Nucline™ for routine scanning.

- Fully interactive Pulse-Sequence-Diagram
- RF and gradient pulse visualization with unlimited custom shapes
- Access to factory sequence source codes, GIT versioning
- Full access to raw data, K-space visualization
- Oustomizable JAVA based code for calculations and timing
- User defined Python and MATLAB scripts are executable as a reconstruction steps
- Spectroscopy module with advanced corrections
- Peak-picking and automatic curve fitting
- A variety of spectra visalization modes





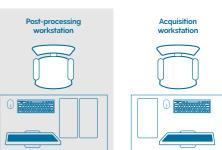


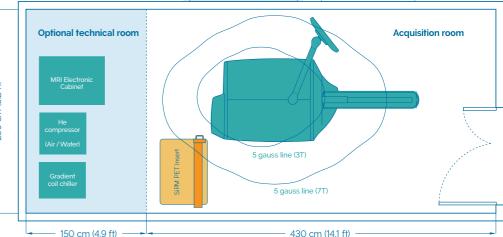


Minimal installation requirements

The compact and light-weighted nanoScan® MRI systems can be installed and run practically in any laboratory due to their low installation and maintenance requirements.

As the systems are 100% cryogen-free and self-shielded there is no need of any quench pipe or Faraday-cage. The 5-gauss line for both 3T and 7T models are close to the system, so they can be placed in really small laboratories, or other imaging systems like PET/CT or SPECT/CT can be easily placed in the same room. Moreover, in case of using the silent air-cooled cryo-compressor there is no need for separate technical room.





- Light-weighted systems with small footprint 480 kg / 970 kg (3T / 7T) 1050 / 2140 lbs (3T / 7T) 250 cm x 80 / 100 cm
- Optional technical room In case of air-cooled cryo-compressor no separate technical room is needed
- Post-processing workstation can be next to the acquisition workstation or at the researcher's room.
- SiPM PET insert Optional upgrade for both 3T and 7T MRI systems.



nanoScan® MRI 7T reference installation with every system component (magnet, work station, electronic cabinet, He-compressor, chiller) located in the same imaging room.

Animal handling

MultiCell™ imaging chambers

Mouse M

Inner space: 134×26 mm Outer dimension: 463×32 mm

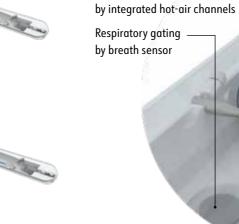
Up to 40 q

Mouse L (Standard)

Inner space: 141×31 mm Outer dimension: 466×40 mm

Up to 80 g

Also available in BSL3 version



Rat L (Standard)

Inner space: 249×60 mm Outer dimension: 580×70 mm

Up to 600 q



Rat Dual

Inner space: 240×60 mm
Outer dimension: 590×70 mm
Up to 2×200 q

Anesthesia gas in through tooth bar

Anesthesia gas out through nose cone

Temperature control

Head positioning by ear bars

Mouse Triple

Inner space: 144×26 mm Outer dimension: 488×70 mm

Up to 3×30 g



Mouse BSL-3

Inner space: 141×31 mm
Outer dimension: 578×60 mm

Up to 80 q



Monitoring and gating

- » ECG monitoring and triggering
- » Respiration monitoring and triggering
- » Temperature monitoring and control module
- $\ \ \hbox{$\scriptstyle \text{$\scriptstyle \text{Accesibble} from touch screen}$ and work station}$

Respiration and body temperature monitoring even up to four animals

PrepaCell™

Supporting complete animal preparation before the scan, setting of:

- » Anaesthesia
- » Heating
- » Vital function monitoring

Eases workflow and increases throughput



nanoScan® MRI RF coils

Volume coil 34mm

Compatible with PET insert only Available for 3T and 7T MRI systems Inner diameter: 34mm



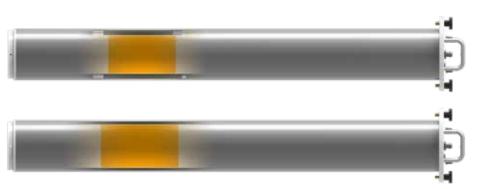
Volume coil 42mm

For mouse chambers Available for 3T and 7T MRI systems Inner diameter: 42 mm X-nuclei versions also available



Volume coil 72 and 82 mm

For chambers available with MRI systems Available for 3T and 7T MRI systems Inner diameter: 42 mm X-nuclei versions also available



Integrated brain and cardiac array coils

Compatible with 3T and 7T MRI systems
Compatible with mouse and rat MultiCell™ chambers
Available in 2 and 4 channel versions



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Compatible with 3T and 7T MRI systems Compatible with any MultiCell™ chambers Available diameters: 10, 20, 30 mm



nanoScan® MRI 3T/7T

High-end MRI with the most robust cryogen-free magnet on the market



SPECT

HIGH SENSITIVITY • HIGH RESOLUTION • OUTSTANDING THROUGHPUT AT THE SAME TIME

- ▶ High resolution (0.3 mm in vivo) and high sensitivity 13 000 cps/MBq
- Largest field of view for large and multiple-animal imaging
- High-throughput
- ◆ Largest installation base 150+

nanoScan® SPECT/CT

with absolute quantification

and full-stationary dynamic

Versatile SPECT/CT

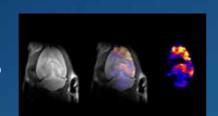
imaging

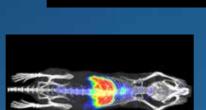
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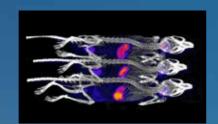
- Highest flexibility:
- » Wide isotope energy range, single or multiple: 20 keV - 1 MeV
- » Various applications **optimized**
- multi-pinhole collimators (e.g. MDP bonescan, dynamic,

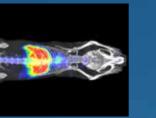
cardiac gated etc.)

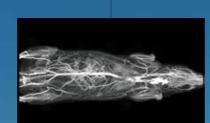
- » Animal models from **tiny mouse** up to large rabbit (6.5 kg)
- » Different imaging schemes: helical, circular, full-stationary, 2D
- » Parallel-hole collimators for imaging large animals
- » List-mode acquisition











MRI

SPECT

MRI

100% CRYOGEN-FREE • ROBUST MAGNET

- 3T and 7T field strength
- **100% Cryogen-free** magnet
- » No liquid helium or nitrogen
- » Closed loop no need to top-up helium
- Wide-range of RF Coils and Sequences
- Compact design:
- » Small footprint
- » Marginal fringe field
- » **480 / 970 kg** (3T / 7T)
- » **1050 / 2140 lbs** (3T / 7T)

- Powerful Gradient: (up to 1050 mT/m) for DWI application
- Low-vibration, rear mounted PulseTube cryocooler for artefact free DWI-EPI
- SmartMagnet
- » Eco-friendly idle mode
- » Active quench protection
- Upgrade possibility with 2-types of completely integrated PET systems



PET

BEST COUNT RATE PERFORMANCE • HIGHEST RESOLUTION WITH FREE ACCESS TO THE ANIMALS

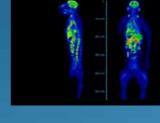
- → Highest resolution (< 0.7 mm)
 </p> ▶ Largest transaxial field of view
- (12 cm) Largest axial field of view (up to **15 cm**)
- Highest count rate performance (up to 1300 kcps @ 80 MBq)
- supporting quantitative imaging in » Radiotracer development
- » Imaging of short half-life **isotopes** (e. g. ¹¹C, ¹³N, ¹⁵O)
- » Multiple-animal imaging

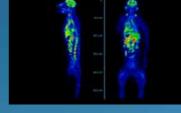
- Free access to the animal supporting dynamic imaging
- Best NEMA sensitivity up to 10.5% (250-750 keV) and best Minimal Detectable Activity (MDA)
- Excellent quantification
- ▶ Largest installation base: 150+



nanoScan® PET/CT

Real dynamic PET-system designed for quantitative studies





nanoScan® SPECT/CT/PET

Versatile SPECT with Real dynamic PET with absolute quantification



HIGH POWER • HIGH RESOLUTION • LARGE FIELD OF VIEW

- High-resolution (30 μm) - Small voxel size (10 µm)
- Up to x7.6 zoom
- Variable transaxial field of view: 2-12 cm
- ♦ Highest power: 80 W X-ray tube for

» Fast scanning

PET

- Ultra-low dose protocol (<1 mGy for whole-body mouse)



MultiScan™ LFER 150 PET/CT

The ultimate tool for PET imaging in primates and medium sized animals

Specifications | nanoScan® PET MRI 3T and 7T

IN-LINE PET

Bore size

16 cm

Multiple animal imaging up to 3 mice or 2 rats

Spatial resolution with Tera-Tomo™ (3D OSEM)

0.7 mm

Spatial Resolution with FBP (NEMA)

1.25 mm

Transaxial FOV

12 cm

Animal models

mouse, rat, marmoset, quinea pig

Noise Equivalent Count Rate for mouse (NEMA)

850 kcps @ 60 MBq / 1.65 mCi

Axial FOV 10 cm

Sensitivity

8 %

LSO crystal size LSO (1.12×1.12×13 mm)

Noise Equivalent Count Rate for rat (NEMA)

250 kcps @ 60 MBq / 1.65 mCi

PET INSERT

Bore size 5.4 cm

Axial FOV

10 cm

Animal models

Mouse whole-body, rat brain

Transaxial FOV

4.5 cm

Spatial resolution with Tera-Tomo™ (3D OSEM)

0.7 mm

Sensitivity

10 %

LSO crystal size

Dual-layer (1.12×1.12×10 mm)

3T / 7T MRI

Magnet

Cryogen-free superconducting

Field strength

3T / 7T

Homogeneity

±0.1 ppm @ 50 mm DSV

Bore size

17 cm

Gradient coil inner diameter

101 mm

Gradient strength

Up to 1000 mT/m

Cryocooler

Back-mounted PulseTube

Quench protection

Yes, with SmartMagnet™

Faraday cage needed? No, the system is self-shielded Quench pipe needed?

No, the system is 100% cryogen-free

Rampable

350+ preclinical systems in **34** countries



PET/CT



SPECT/CT



nanoScan® **MRI 3T/7T**



PET/MRI 3T and 7T



nanoScan[®] SPECT/CT/PET



MultiScan™ LFER150 PET/CT



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