



Unmatched sensitivity and resolution

NanoSPECT/CT

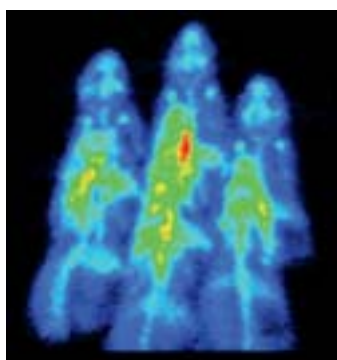
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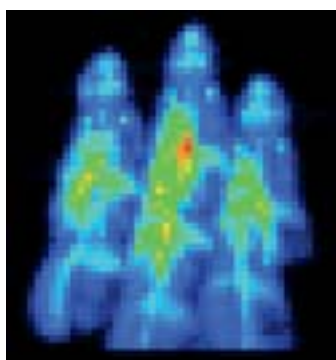
Best-in-class preclinical S

NanoSPECT/CT is a high-performance hybrid preclinical imaging system enabling high-quality small-animal imaging for a variety of translational research applications in oncology, cardiology and neurology.

NanoSPECT/CT with broadband detectors is the only system that supports and takes advantage of multiplexed multi-pinhole imaging technology.



With broadband detectors and MMP-SPECT.



Without broadband detectors and MMP-SPECT.

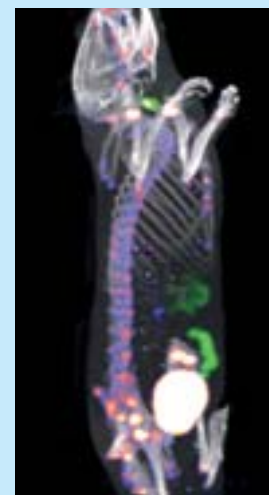
The NanoSPECT/CT can aid in accelerating preclinical research, discovery of targeted biomarkers, and development and validation of new molecular diagnostic and therapeutic applications for the personalized treatment of disease.

The key? Breakthrough multiplexed multi-pinhole SPECT technology (MMP-SPECT) that increases system sensitivity by a factor of 10 and improves spatial resolution to less than 0.5 mm. This patented technology enables dynamic SPECT imaging of mice and rats with high temporal resolution and low injected-dose levels.

NanoSPECT/CT is based on an upgradeable product platform that adapts to your current and future preclinical imaging needs. NanoSPECT/CT offers an MRI-compatible animal handling system interchangeable with the Philips MOSAIC HP preclinical PET system. Common animal handling and seamless software integration of NanoSPECT/CT with Mosaic HP results in a workflow-optimized tri-modality PET/SPECT/CT system.

Unique performance capabilities support a wide range of preclinical applications

- Ultra-high resolution quantitative SPECT
- Fast dynamic SPECT
- Gated cardiac SPECT
- Auto-fused SPECT/CT imaging
- SPECT/CT of immune-compromised animals
- Focused or total body scans with helical SPECT and CT
- SPECT imaging capabilities for a wide range of animals
- Designed for future applications in a multi-user environment



Mouse bone/thyroid dual-isotope scan (MIPTc-99m, I-123). Courtesy the University of New Mexico, Albuquerque, NM, USA.

SPECT/CT system

A preclinical SPECT/CT system like no other

- Patented multiplexed multi-pinhole SPECT technology (MMP-SPECT) combined with large FOV detectors provide unmatched system sensitivity and resolution
- Excellent image uniformity across the axial FOV using helical SPECT and CT scans
- Accurate quantification and organ uptake tracking with dynamic SPECT with high spatial and temporal resolution
- High-quality simultaneous dual-isotope scans
- Powerful InVivoScope post-processing software with integrated analysis tools
- Recipient of 2005 Frost & Sullivan Award for Excellence in Technology for Pre-Clinical Imaging

Highly flexible...

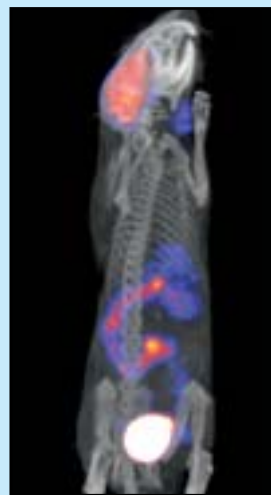
- SPECT/CT imaging of small- and medium-size research animals with ease and precision
- Comprehensive selection of imaging apertures optimized for specific applications in oncology, neurology and cardiology
- Comprehensive selection of dedicated animal imaging beds (mouse, rat, and rabbit bed)
- MRI compatible animal handling system

...and easy to use

- Gantry-mounted touch-screen monitor for fast acquisition setup
- Intuitive user interface reduces the learning curve
- Efficient animal handling
- Seamless interface to the Philips MOSAIC HP preclinical PET system for tri-modality PET/SPECT/CT applications

...with peace of mind

- Upgrade path to up to four LFOV SPECT detectors
- Two CT upgrade options
- Obsolescence protection
- Backed by the industry's most reputable customer support



Benzodiazepine-receptor imaging of 20g mouse using I-125 Iomazenil. Courtesy of National Cancer Center East, Japan.



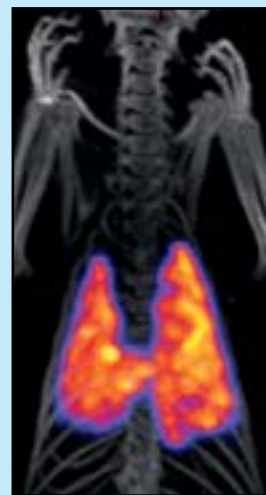
Rat bone scan using Lu177-Chloride. Courtesy of Erasmus MC, Rotterdam, The Netherlands.



Mouse pancreatic tumor study using 10 MBq of ¹¹¹In-H₂-Met. Courtesy of St. Bartholomew's Hospital, London, UK.



Thyroid study of 30g mouse with I-125 (7 min scan). Courtesy of Erasmus MC, Rotterdam, The Netherlands.



Rat lung scan (Tc-99m MAA). Courtesy of Erasmus MC, Rotterdam, The Netherlands.

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NanoSPECT/CT is available through a distribution agreement with Bioscan, Inc.

US 7,199,371 patent and DE 10142421, WO 03021292 and EP 1421411 patents pending¹
NanoSPECT/CT system²
NanoSPECT/CT^{®3}

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