

AnyScan® TRIO-TheraMAX SPECT/CT

Theranostic and Diagnostic Imaging with
MAXimum Performance





Founded 1990 | **Offices** 7 | **Employees** 300+ | **Publications** 3200+ | **Countries** 100+



Preclinical systems 375+ | **Clinical systems** 1500+



About us

Mediso has been active in the field of **Nuclear Medicine and Molecular Imaging** for more than 35 years with a profile of development, manufacturing, selling and servicing standalone and multi-modality imaging systems. Our company offers complete solutions for clinical patient care and preclinical research from hardware design to evaluation and quantification software.

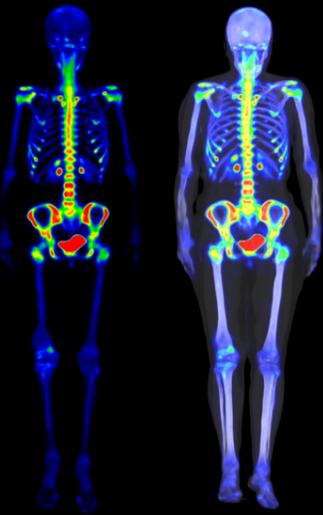
With more than 1500 clinical and 350 preclinical systems installed in over 100 countries worldwide, Mediso is the only company offering molecular imaging systems for both clinical patient care and scientific research. Our clinical portfolio ranges from complex SPECT/CT/PET hybrid equipment uniquely integrating three modalities through SPECT and SPECT/CT systems intended for general diagnostic use, to Gamma Cameras developed for routine examinations.

The latest member of the AnyScan TRIO family, the **TheraMAX SPECT/CT** features extreme sensitivity with uncompromised PET-like image quality ensuring ultra-fast, quantitative, Total-Body scans for theranostic and diagnostic applications even at high energies.

1990	1994	1996	2000	2006	2012	2016
Mediso was founded	Introduction of the first Mediso gamma camera	Launch of the first SPECT camera, the Nucline™ X-Ring-R	Launch of the Nucline™ SPIRIT DH-V variable angle dual head camera	Launch of the Mediso InterView™ FUSION multi-modality workstation	Launch of AnyScan® Family 1.0 SPECT with FLEX	Introduction of AnyScan® TRIO Triple-Nal-Detector SPECT/CT and SPECT/CT/PET
						

2017	2020	2023	2024	2025	2025
Introduction of True-Focus multi-pinhole (MPH) collimators on AnyScan® TRIO SPECT camera	New release of AnyScan® TRIO 2.0 and AnyScan® SPECT 2.0 Flex based product families	Mediso receives FDA approval for InterView™ FUSION and InterView™ XP software	First global installation of TRIO TheraMAX SPECT/CT in Regensburg	TRIO-TheraMAX SPECT/CT installation in Heidelberg and clinical introduction of RoboCart™ triple collimator exchanger	Mediso receives FDA and MDR approval for AnyScan® TRIO and AnyScan® DUO product family 3.0
					

AI 10 min
Total-Body ^{99m}Tc
Quantitative Bone SPECT



Triple-NaI-Detector

15.9 mm (5/8") crystal thickness



Extreme Sensitivity

1620 kcps/(MBq/cm³)

Reconstructed
SPECT resolution
3.5 mm

Explore TheraMAX SPECT/CT

Theranostic & Diagnostic Imaging
with **MAX**imum Performance

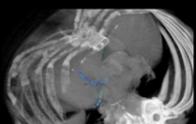


PET-like Quantitative
accuracy

3-5%



CT CAC Score &
Metal Artefact Reduction



RoboCart

Motorized triple
Collimator Cart

Exchange
on all three
detectors
simultaneously in
5 minutes

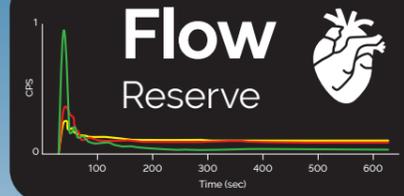


MAXimized Image Quality

Dedicated collimators from
Low- to Ultra-high energies



Flow
Reserve



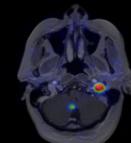
12 min



DAT SPECT with
PET-like image quality

Expanded therapy possibilities

SPECT precision in Neuro-oncology



All-Energy Clinical Applications

Wide range of theranostic isotopes:

¹⁶¹Tb ^{99m}Tc ²⁰³Pb ²¹²Pb ¹⁷⁷Lu ¹³¹I ²⁵⁵Ac



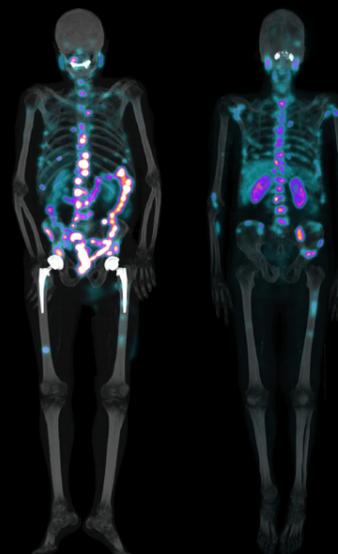
²²⁵Ac-PSMA

29 min Whole-Body
SPECT/CT



10 min

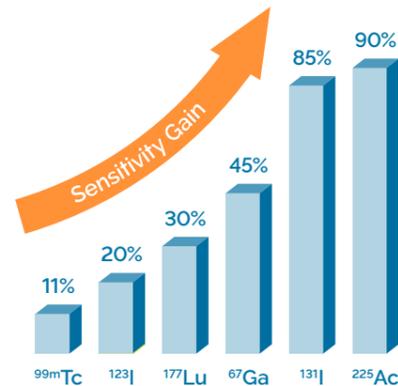
Total-Body
¹⁷⁷Lu-PSMA & ^{99m}Tc-PSMA



TheraMAX Core Technology

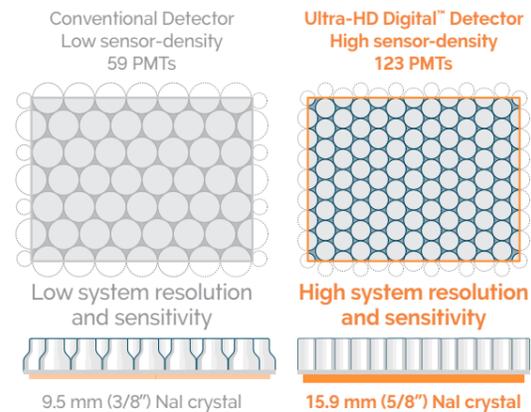
Ultra-fast Quantitative Total-Body SPECT/CT with Ultra-HD Digital™ Detector

Extreme sensitivity of 1620 kcps/(MBq/cm³) for ^{99m}Tc measured as Total System Response is delivered by the Triple-Nal-Detectors with 15.9 mm (5/8") scintillator crystal thickness and 123 PMTs/detector. The continuous detector movement provides seamless SPECT acquisition, while the 40.1 cm long axial-FOV enables 2-meter SPECT/CT imaging in only five bed positions. Advanced features of the TheraMAX leads to **Whole-Body ²²⁵Ac SPECT/CT** acquisition within 29 minutes, as well as **ultra-fast quantitative Total-Body scans** within 10 minutes for ^{99m}Tc and ¹⁷⁷Lu.



MAXimized Performance for Theranostics

The novel detector technology of the TheraMAX delivers uncompromised image quality even at high energies. Its 15.9 mm (5/8") NaI scintillator crystal thickness supports theranostic applications with isotope energies up to 640 keV, while providing **remarkable detector sensitivity gain** of 30% for ¹⁷⁷Lu, 85% for ¹³¹I and 90% for ²²⁵Ac when compared to 9.5 mm (3/8") NaI crystal-based detector. The intrinsic spatial resolution is improved to 3.3 mm (FWHM) by the high number of photo-multiplier tubes (123 PMTs).



1 High-density sensor arrangement

- 123 PMTs / detector head
- Intrinsic resolution 3.3 mm

2 15.9 mm (5/8") NaI scintillator detector

- Better stopping power at high energies
- Sensitivity gain of 30% for ¹⁷⁷Lu, 90% for ²²⁵Ac

3 Parallel-hole & multi-pinhole collimators for MAXimized Image Quality

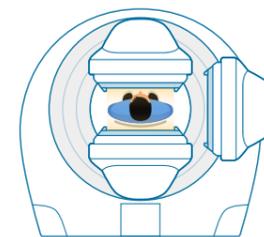
- LEHR-HS for ^{99m}Tc, ¹⁶¹Tb, ¹⁸⁸Re
- MEHR-HS for ¹⁷⁷Lu, ¹²³I, ²⁰³Pb, ¹⁶⁶Ho, ²²³Ra
- M-HEGP for ²²⁵Ac, ²¹²Pb, ¹³¹I, ⁹⁰Y
- MPH-Cardiac, MPH-Brain for ^{99m}Tc, ¹²³I, ¹⁷⁷Lu

From General Purpose to True-Focus Organ Imaging

TheraMAX is a versatile SPECT/CT system offering five imaging modes using Transformable™ Gantry and simple collimator exchange procedures. Total-Body mode unveils ultra-fast quantitative **Total-Body SPECT/CT** by all three detectors surrounding the patient. **True-Focus Brain imaging** is possible with the dedicated MPH-Brain

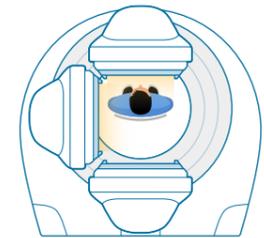
collimator for superior image quality DAT SPECT and Brain Perfusion SPECT. **True-Focus Cardiac imaging** with the MPH-Cardiac collimator delivers extreme tomographic sensitivity enabling fast myocardial perfusion or amyloid scans and even dynamic SPECT acquisition. Dual-detector modes provide real planar and SPECT imaging options.

Dual-detector Planar



180° configuration parallel-hole collimators

Dual-detector SPECT



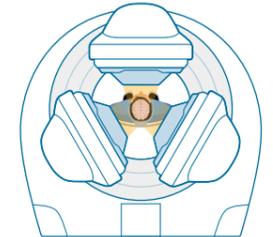
90° configuration parallel-hole collimators

Total-Body SPECT/CT



120° configuration parallel-hole collimators for Theranostic and Diagnostic applications

True-Focus Brain



120° configuration MPH-Brain collimator

True-Focus Cardiac



75° configuration MPH-Cardiac collimator

Triple-Performance CT

The TheraMAX SPECT/CT integrates a high-power CT with up to 440 mA in diagnostic mode, 0.5 sec rotation speed, 0.625 mm slice thickness and 3D dose modulation. Tera-Tomo 3D CT Iterative Image Reconstruction with advanced corrections for Motion- and Metal Artefact Reduction. AI-based CT image quality enhancement solution for further improvement. A 16 slice diagnostic CT offering three performance levels:

- Standard **Low Dose** protocols for diagnostic CT applications
- Ultra-Low Dose** CT with sub-mSv effective dose for attenuation correction and localization for Total-Body SPECT/CT
- AI-Powered **Zero Dose** Synthetic CT (SyCT) offering Quantitative SPECT for ^{99m}Tc bone scans without X-ray exposures



TheraMAX Core Technology

MAXimized Image Quality and Quantitative Accuracy

We believe that **maximized image quality** is essential to provide the **best possible patient care**. Therefore, we offer carefully designed parallel-hole collimators for different energy levels including low-, medium-, high- and ultra-high energies.



Each collimator serves as a **perfect match to theranostic applications**: Low Energy High Resolution High Sensitivity (LEHR-HS) collimator for isotopes including ^{99m}Tc , ^{161}Tb , ^{188}Re , Medium Energy High Resolution High Sensitivity (MEHR-HS) collimator for ^{177}Lu , ^{123}I , ^{203}Pb , ^{166}Ho , ^{223}Ra and Medium to High Energy General Purpose (M-HEGP) collimator for ^{225}Ac , ^{212}Pb , ^{131}I and ^{90}Y .

RoboCart™

The world's first motorized collimator cart for automatic triple-collimator exchange

- Ⓢ Accelerated collimator exchange process on all three heads simultaneously in less than 5 min
- Ⓢ Completely motorized movements
- Ⓢ All types of collimators can be changed in one **robotic sequence without user intervention**
- Ⓢ **Minimizes** the required footprint for **collimator storage**
- Ⓢ **Effortless handling** even for the heaviest collimator sets, even the High Energy or pinhole collimators

The **novel multi-pinhole (MPH) technology** provides True-Focus organ imaging for brain and cardiac applications with PET-like image quality, and assists dynamic SPECT applications when combined with the TheraMAX SPECT/CT.



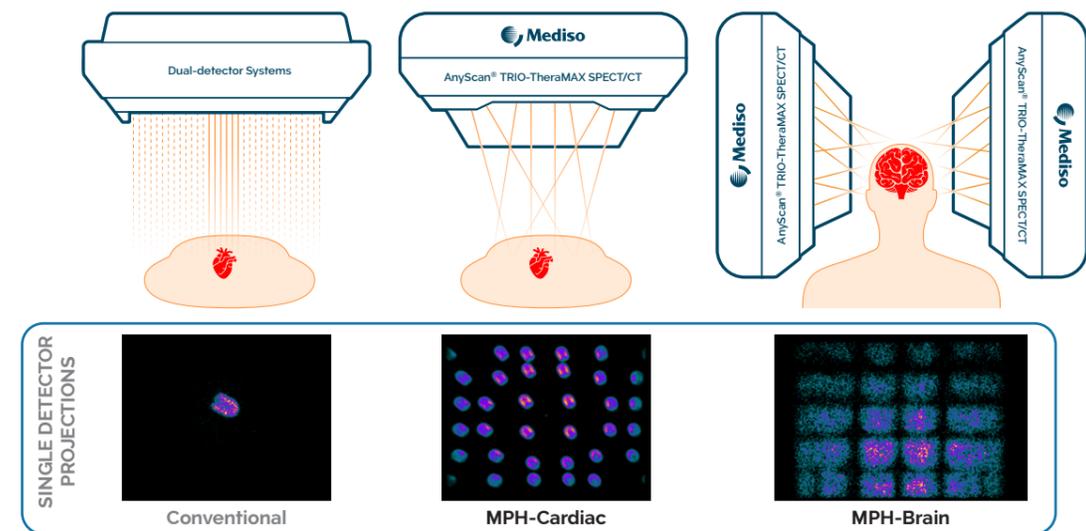
The TheraMAX SPECT/CT can be transformed into a dedicated brain or dedicated cardiac system with a simple MPH collimator exchange featuring solid tungsten aperture plates.



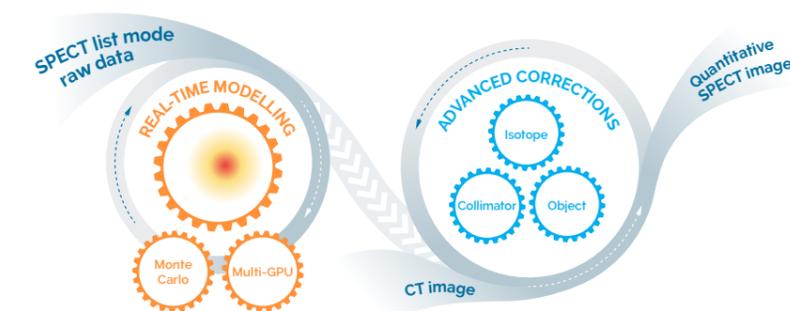
True-Focus Organ Imaging

Significant image quality improvement can be achieved with the **novel multi-pinhole collimator** technology combined with the Triple-Nal-Detector, when compared to conventional parallel-hole LEHR collimator dual-detector SPECT. Collimator design with image magnification and better use of the entire detector surface results in **increased tomographic sensitivity and improved spatial resolution**. The synergy between the extreme sensitivity

TheraMAX detectors and the **True-Focus MPH-Cardiac** collimators paved the way for short scan times in case of cardiac perfusion, innervation or amyloidosis and even for the possibility of dynamic acquisitions to estimate Coronary Flow Reserve. Furthermore, with the benefits of the **True-Focus MPH-Brain** collimators, superior image quality DAT-SPECT studies are routinely acquired with only 12 minutes of scan duration.



Tera-Tomo™ 3D SPECT Image Reconstruction Engine



Tera-Tomo 3D SPECT-Q is the ultimate **quantitative image reconstruction** solution, featuring **Monte Carlo based physical modelling** of particle-level gamma photon interactions running on high-performance GPUs. It is a 3D iterative SPECT image reconstruction that is tailored to the physical characteristics of the dedicated collimator designs. It features **advanced corrections** including decay, child-elements, energy, time, dead-time and random events, as well as CT-based attenuation and scatter correction.

- Optimized protocols for clinical applications
- Multi-isotope and multi-energy window support
- Retrospective Image Reconstruction using LIST MODE

Total-Body SPECT/CT in 10 minutes for Theranostics

With the TheraMAX you may transform your clinical routine with ultra-fast quantitative Total-Body scans for ^{177}Lu radioligand therapy. This ^{177}Lu -PSMA-617 therapy patient was scanned 72 hours post injection with just 10 minutes SPECT acquisition. The CT scan is also remarkable, featuring only 1.09 mSv effective dose for this patient even with the presence of metal implants in both hip joints. Furthermore TheraMAX offers fast Total-Body $^{99\text{m}}\text{Tc}$ -PSMA-GCKO1 SPECT imaging of with excellent image quality using the Low Energy High Resolution High Sensitivity collimator. This novel application provides reliable diagnostic information for ^{177}Lu -PSMA-617 therapy inclusion.

"TheraMAX boosted our diagnostic and theranostic workflow and targeted radionuclide therapy, leading to better patient care and it also opens new possibilities in clinical research. TheraMAX has transformed our clinical routine from planar imaging to ultra-fast Total-Body SPECT/CT with superior image quality for ^{177}Lu -PSMA-617"

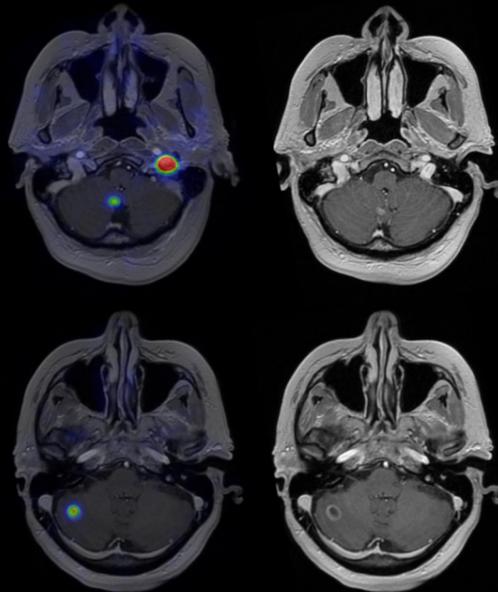
PROF. DR. DIRK HELLWIG, UNIVERSITY HOSPITAL REGENSBURG



^{177}Lu -PSMA-617, 208 keV only
6380 MBq (172 mCi), MEHR-HS, 10 min
Image courtesy of University Hospital Regensburg

Precision Imaging in Neuro-Oncology

The TheraMAX SPECT/CT with MPH-Brain further improves the extreme tomographic sensitivity and spatial resolution of the system. This image quality improvement leads to better detectability of small lesions in case of neuro-oncology patients. Precise SPECT imaging allows not only accurate planning and monitoring of peptide receptor radionuclide therapy with ^{177}Lu -DOTATATE for meningioma patients but also provides precise detection of small brain metastases.



^{177}Lu -DOTATATE
p.i. 24h, 7400 MBq (200 mCi); T1 weighted contrast enhanced MRI & MPH-Brain, 15 min
Image courtesy of Szeged University Hospital

^{225}Ac -PSMA-617 Whole-Body SPECT/CT for Targeted Alpha Therapy Imaging

Targeted alpha therapy is of high interest nowadays, however it is giving very challenging imaging conditions for ^{225}Ac with extremely low count rates. The TheraMAX could perform Whole-Body SPECT/CT scan in 80 cm scan length for this patient with injected activity of only 6 MBq (0.162 mCi) and acquisition time below 30 minutes.

"The TheraMAX expands the imaging capabilities of our department for radioligand therapy. We treat patients with a wide range of novel radiopharmaceuticals labeled with ^{177}Lu or ^{225}Ac , some of them as part of clinical trials for developing improved and more individualized patient care. In addition, the TheraMAX supports our department by increasing the capacity for $^{99\text{m}}\text{Tc}$ -PSMA scans for radioligand therapy inclusion."

DR. CLEMENS KRATOCHWIL
LEAD PHYSICIAN AT DEPARTMENT OF NUCLEAR MEDICINE,
UNIVERSITY HOSPITAL HEIDELBERG, GERMANY

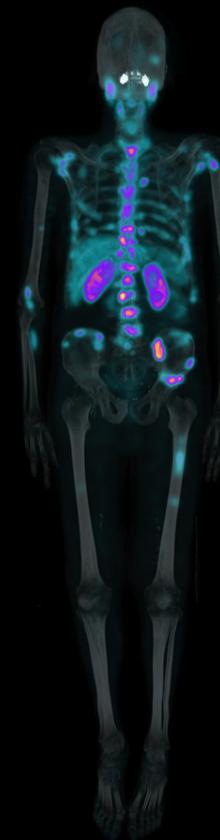


^{225}Ac -PSMA-617, 440+218+80 keV
6 MBq (0.162 mCi), M-HEGP, 29 min

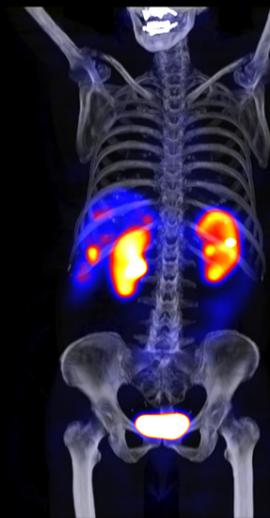
Image courtesy of Heidelberg University Hospital

Theranostic Applications with MAXimized Image Quality

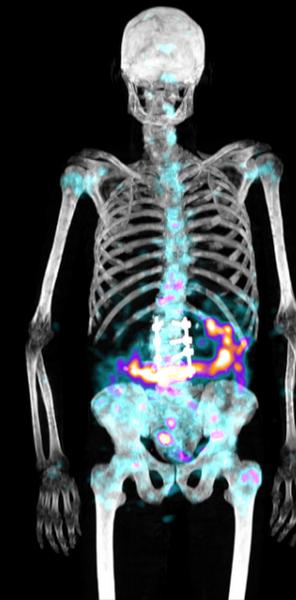
TheraMAX provides outstanding image quality and sensitivity for theranostic and diagnostic imaging applications featuring $^{99\text{m}}\text{Tc}$, ^{177}Lu , ^{123}I , ^{131}I , ^{223}Ra , ^{153}Sm , ^{111}In , ^{90}Y , ^{203}Pb , ^{212}Pb , ^{225}Ac isotopes and beyond.



$^{99\text{m}}\text{Tc}$ -PSMA-GCKO1
674 MBq (18.2 mCi)
LEHR-HS, 10 min
Image courtesy of Heidelberg University Hospital



^{177}Lu -DOTATATE, 208 keV only
6865 MBq (186 mCi)
MEHR-HS, 6 min 40 sec

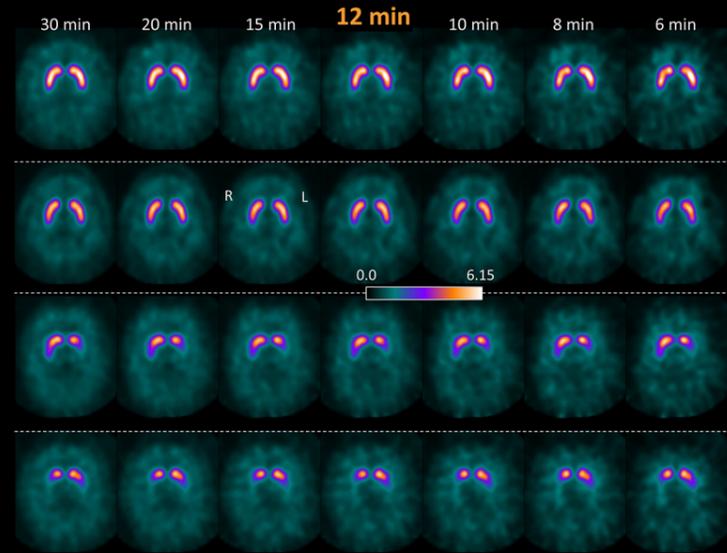


^{223}Ra -Dichloride
3.03 MBq (0.08 mCi)
MEHR-HS, 36 min
Image courtesy of ScanoMed Nuclear Medicine Centers



^{131}I Therapy
3700 MBq (100 mCi)
M-HEGP, 30 min

DAT SPECT in just 12 minutes



True brain focus imaging made possible with the dedicated MPH-Brain collimator for superior image quality DAT SPECT. Effortless evaluation of images with normal database provided in the InterView XP software.

"The AnyScan TRIO with MPH-Brain collimator provides excellent image quality and improved diagnostic confidence in DAT SPECT with just 12 minutes' scan duration"

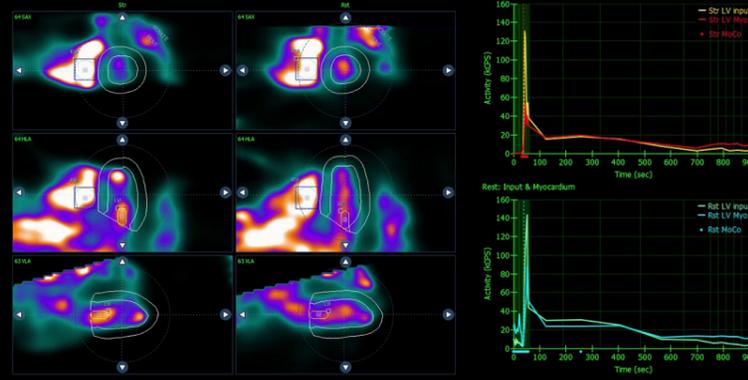
DR. RALPH BUCHERT,
UNIVERSITY HOSPITAL HAMBURG-EPENDORF

¹²³I-iodoflupane MPH-Brain collimator	top: female, 44-year-old, 200 MBq (5.4 mCi) 186 min uptake duration	bottom: female, 72-year-old, 200 MBq (5.4 mCi), 220 min uptake

Image courtesy of University Hospital Hamburg-Eppendorf

Coronary Flow Reserve

Coronary blood flow measurements require high-sensitivity true cardiac focus SPECT imaging. The MPH-Cardiac collimators combined with the high-sensitivity of the TheraMAX system deliver elevated tomographic sensitivity in the myocardium region to measure dynamic flow. Coronary Flow Reserve (CFR) evaluation procedures are made available with Cedars-Sinai and Invia Corridor 4DM Cardiac Suites.



^{99m}Tc-sestamibi, 1-day protocol

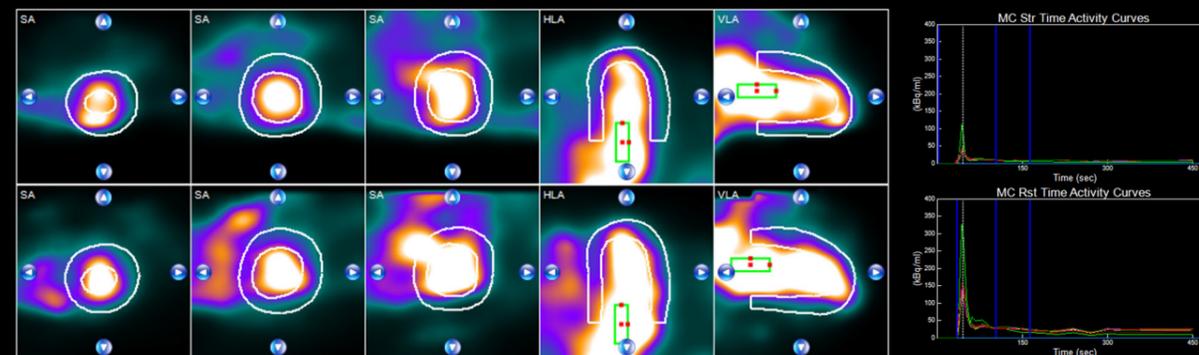


Image courtesy of ScanoMed Nuclear Medicine Centers

AI-Powered Synthetic CT



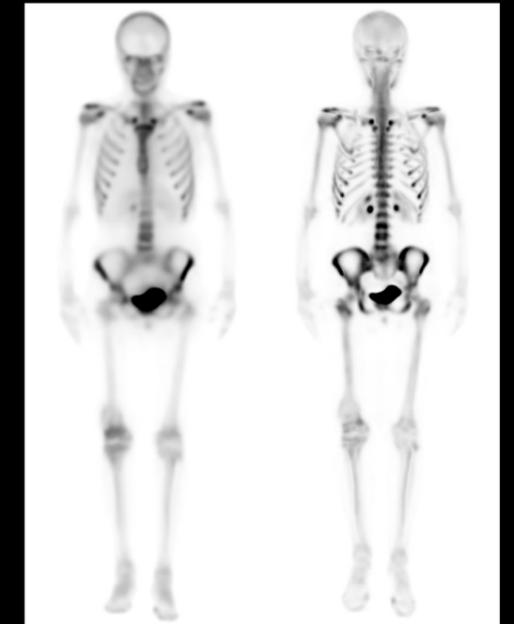
AI-Powered SyCT predicted from SPECT raw data

SyCT-AC SPECT with SyCT

500 MBq (13.5 mCi) of ^{99m}Tc-HDP, LEHR-HS collimator, 10 min

Image courtesy of University Hospital Regensburg

AI-Enhanced SPECT



AI-Enhanced Anterior projection

Reconstructed SPECT from AI-Enhanced Projections

Streamline your clinical workflow with AI-Powered Synthetic CT (SyCT), providing high-precision quantitative SPECT analysis without a need for a real CT scan. Specifically designed for ^{99m}Tc bone scans, including Total-Body imaging, SyCT ensures precise attenuation correction. Free from motion artefacts and mismatches between SPECT and CT.

Explore superior image quality resulted from the AI-based image enhancement on the SPECT projection data. Deep learning based noise reduction is applied on the projection images, followed by the advanced Tera-Tomo image reconstruction, resulting PET-like image quality for Total-Body ^{99m}Tc Bone SPECT/CT scans.

CT Clinical Performance

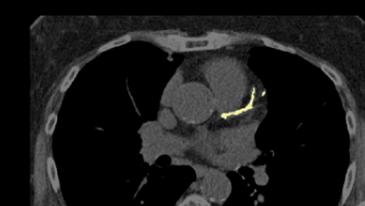
AnyScan CT offers standard low-dose and ultra low-dose protocols for all routine nuclear medicine protocols. Furthermore, it features Metal Artefact Reduction for all types of implants

as well as Calcium Score Evaluation in InterView FUSION for cardiac studies. Noise reduction on low-dose CT images is performed by the Clari.CT solution.



Metal Artefact Reduction

Image courtesy of University Hospital Regensburg



Calcium Score Evaluation



Noise Reduction with Clari.CT



Image courtesy of ScanoMed Nuclear Medicine Centers

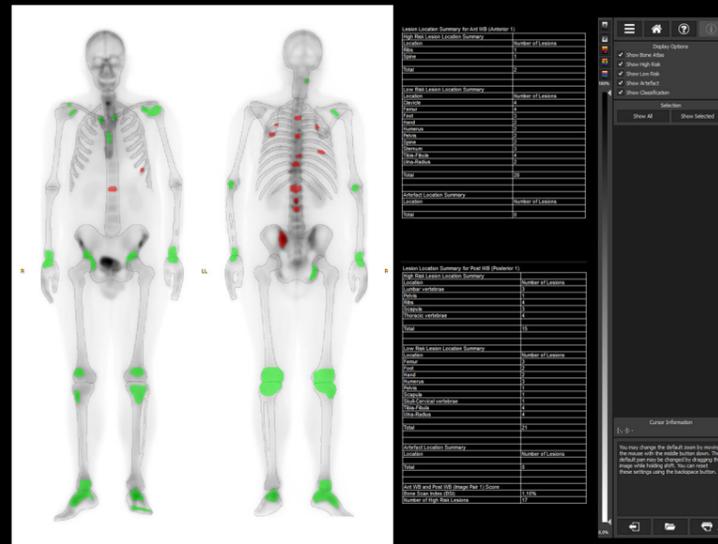
InterView™ XP

InterView XP is an organ-specific dedicated planar, Whole-Body, and SPECT evaluation software. Procedures are implemented in correspondence with the guidelines of the most acknowledged nuclear medicine societies. The evaluation process is guided through standardized evaluation steps, and supported by specialized viewers and automated algorithms. A wide range of function-specific tools enable the measurement, manipulation, enhancement, and analysis of gamma camera images. User-defined procedure variants allow customization of the workflow. InterView XP features 2D and 3D iterative reconstruction of SPECT images, including Mediso-developed Tera-Tomo reconstruction incorporating a full scale of corrections.



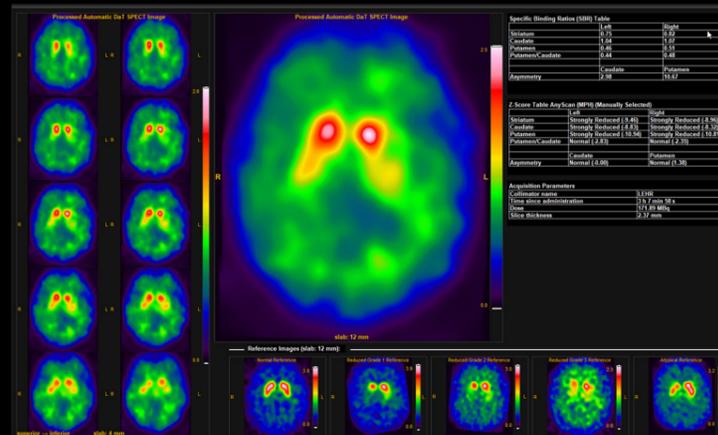
BoneScan.AI suite

The BoneScan.AI suite offers improved image quality with Tera-Tomo.AI 2D Planar image enhancement for ^{99m}Tc-MDP and ^{99m}Tc-HDP true planar images. It also includes an anatomical atlas based automatic bone segmentation, offering 25 segments. The BoneScan.AI suite performs automatic lesion detection and classification of bone images, including low risk and high risk lesions as well as image artefacts. Furthermore, this advanced solution streamlines the calculation of Bone Scan Index (BSI) for quantitative treatment response monitoring and follow-up evaluation.



DAT SPECT Evaluation

InterView XP offers automatic ROI analysis of the DAT SPECT images acquired with MPH-Brain collimator on the TheraMAX SPECT/CT. Normal Database is also provided for accurate diagnosis especially for borderline cases.



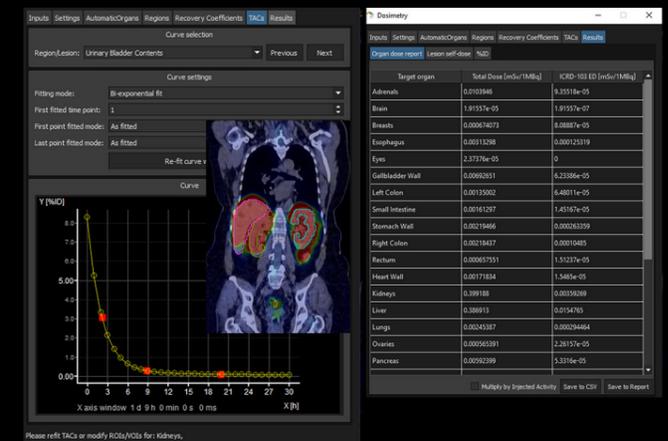
InterView™ FUSION

InterView FUSION is a multi-modal visualization and medical evaluation software. Developed by Mediso, built on state-of-the-art technologies, it comprises novel image processing algorithms and tools for evaluating different molecular imaging modalities. Multi-modal registration and FUSION of SPECT, PET, CT and MRI studies is a core functionality of InterView FUSION. Evaluation can be performed using several specialized viewers and automated algorithms. The InterView FUSION seamlessly integrates into the workflow of all nuclear medicine departments covering all processing and evaluating needs either running on the InterView WorkFlow Server-Pro or as a standalone solution.



Dosimetry

The Dosimetry tool in InterView FUSION opens possibilities to accurately measure effective doses for tumors and risk organs on quantitative SPECT images acquired with the TheraMAX SPECT/CT. InterView FUSION offers automatic segmentation of organs, voxel- and organ based dosimetry, as well as multiple- and single time point dose estimates.



Lung evaluation

The TheraMAX SPECT/CT with its 40.1 cm axial FOV can cover the entire lung. The lung evaluation tool in InterView FUSION facilitates the evaluation of lung SPECT/CT studies with advanced segmentation of the lobes as well as the segments of the lobes. The lung evaluation tool enables accurate volume and activity measurements.



InterView™ WorkFlow Server-Pro

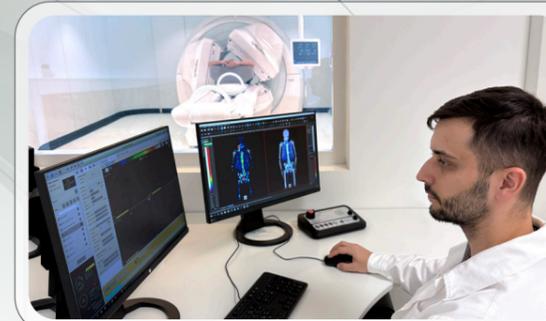
The powerful InterView WorkFlow Server-Pro offers a centralized solution for reconstruction, data processing and review. The constantly available system is providing fast access through thin clients, regardless of time, location or device type for up to 12 simultaneous users. Maximizing the efficiency, the operator can control the entire imaging workflow on a dual-monitor workstation without any additional hardware.



Flawless Workflow of TheraMAX

TheraMAX streamlines a coherent collection of features resulting in quick and flawless workflow for better patient experience. The large bore size and panorama window between SPECT and CT gantries improve the comfort and satisfaction of claustrophobic or high BMI patients. The advanced AnyView solution integrates all synergic benefits of AnyScan acquisition and InterView evaluation features.

During the patient acquisition on the TheraMAX SPECT/CT, the technologist can perform image reconstruction, post-processing or preparation of secondary captures on the screen next to the acquisition monitor. AnyView provides access to the InterView WorkFlow Server-Pro for these tasks without compromising the performance of the actual patient scan.



AnyView™

The technologist can access the InterView WorkFlow Server-Pro for image reconstruction and post-processing from the Nucline console without compromising the performance of the actual data acquisition on the TheraMAX SPECT/CT.



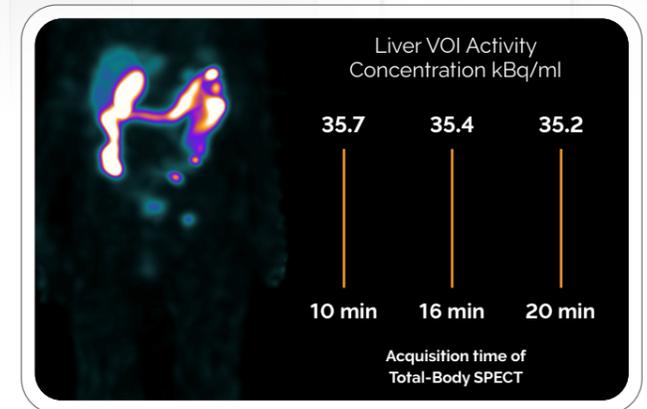
Quick Patient Positioning & AI Localizer for Planning



Ultra-fast Total-Body SPECT Acquisition for ¹⁷⁷Lu RLT



Ultra-low Dose CT Scan in a Glimpse



Tera-Tomo 3D SPECT-Q Quantitative SPECT Image Reconstruction

Total scan time in 20 minutes

2 minutes

AnyScan® DUO Product line

Flexible and Versatile, General Purpose Dual-head Systems

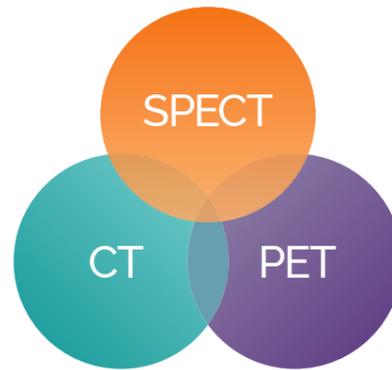
Conventional Dual-Nal-Detector Systems for All Routine SPECT, Whole-Body & Planar Studies

The dual detector AnyScan DUO SPECT and SPECT/CT systems are the portfolio's most widely embraced models, renowned for their consistent performance and reliability. Excellent imaging performance, high variety of detector configurations, easy on-site upgrade options are the key factors that make them a preferred choice among customers.

- Flexible detector movement and ergonomic patient support open design for claustrophobic or anxious patients
- Integrated R-Wave trigger on the patient table for gated studies
- Quantitative imaging for ^{99m}Tc, ¹²³I, ¹⁷⁷Lu, ¹³¹I and more, including further theranostic nuclides
- Wide selection of collimators for optimal imaging and best trade-off between resolution and sensitivity
- High power, diagnostic dual-performance CT with sub-mSv effective dose for attenuation correction and localization. On-the-fly dose modulation, Metal Artefact Reduction and Motion Artefact Correction
- PET/CT for Routine Oncology Applications with high sensitivity and excellent resolution for ¹⁸F-FDG, ¹¹C-Choline, ¹¹C-MET, ¹⁸F-FDOPA, ¹⁸F-FET and ⁶⁸Ga-PSMA



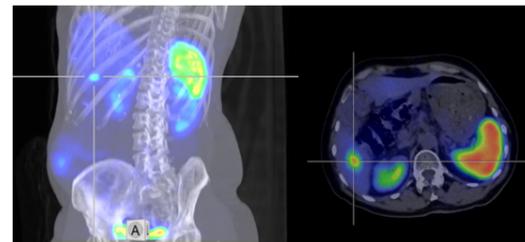
AnyScan DUO
SPECT/CT



^{99m}Tc-MDP, Bone scan
575 MBq (15.5 mCi), 10 min



¹⁷⁷Lu-oxodotreotide
Whole-Body SPECT/CT
7412 MBq (200 mCi), 20 min



^{99m}Tc-Tectrotyd, Somatostatin SPECT/CT
294 MBq (7.95 mCi), 15 min



AnyScan DUO SPECT



AnyScan DUO SPECT/CT/PET

Image courtesy of ScanoMed Nuclear Medicine Centers

AnyScan® TRIO Product line

Ultra-fast and High-sensitivity Systems

Unique Triple-Nal-Detector SPECT/CT System for Ultra-fast 3D Imaging With Reduced Patient Dose and Excellent Image Quality

Accelerated imaging to improve patient comfort and provide high patient throughput. Total-Body SPECT scan in 10-20 minutes, covering 230 cm length. 360° myocardial examination under 4 minutes.

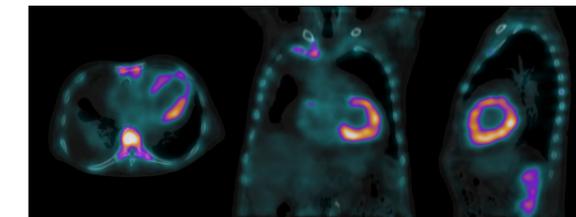
- Triple-Nal-Detectors, surrounding the patient completely in 360°
- Significant sensitivity gain due to three large-surface detectors achieving up to 1620 kcps/MBq/cm³ system volumetric sensitivity
- Industry leading sensitivity allows to reduce patient dose, isotope costs or to scan more patients
- Maximized Image Quality to improve diagnostic accuracy and confidence for better patient care
- Transformable Gantry to support ultra-fast Total-Body SPECT with 120° detector position for PET like imaging, 90° dual-detector mode for cardiac SPECT and true planar imaging in 180° detector position
- Total-Body & Focused Imaging with wide selection of collimators for wide energy range (35-640 keV)



AnyScan TRIO
SPECT/CT



^{99m}Tc-HDP, 672 MBq (18.2 mCi)
Total-Body SPECT/SyCT
left: 10 min original, right: 6 min AI-filtered



^{99m}Tc-PYP, Amyloidosis SPECT/CT
585 MBq (15.8 mCi), 10 min



¹⁷⁷Lu-DOTATATE
Whole-Body SPECT/CT
7224 MBq (195.3 mCi), 8 min



AnyScan TRIO SPECT/CT/PET



AnyScan TRIO SPECT

Image courtesy of ScanoMed Nuclear Medicine Centers



First Global Installation of the AnyScan TRIO-TheraMAX SPECT/CT in Regensburg

“The AnyScan TRIO SPECT/CT TheraMAX boosted our diagnostic and theranostic workflow and targeted radionuclide therapy, leading to better patient care and it also opened new possibilities in clinical research.” said Professor Dr. Dirk Hellwig, the head of the Department of Nuclear Medicine at University Hospital Regensburg, Germany.

Expanded imaging capabilities with the AnyScan TRIO-TheraMAX SPECT/CT installation in Heidelberg

“The TheraMAX expands the imaging capabilities of our department for radioligand therapy. We treat patients with a wide range of novel radiopharmaceuticals labelled with ¹⁷⁷Lu or ²²⁵Ac, some of them as part of clinical trials for developing improved and more individualized patient care.” said Dr. Clemens Kratochwil, lead physician at Department of Nuclear Medicine, University Hospital Heidelberg, Germany.



1500+ clinical systems in 100+ countries



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Transformable Gantry, AnyView are trademarks of Mediso.

* Buchert et al., J Nucl Med (2024); 65:446-452; 10.2967/jnumed.123.266276
** Krizsan et al., EJNMMI Physics (2023); 10:24; 10.1186/s40658-023-00541-y

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