

AnyScan® TRIO

The 3-HEAD SPECT imager family for clinical and clinical/preclinical research

SPECT, SPECT/CT and SPECT/CT/PET

IMAGING FOR LIFE



The first and only clinical Triple-Detector SPECT/CT system
with Parallel and Multi-PinHole Collimation with PET-like Imaging and Workflow

Introduction of **AnyScan® TRIO** Triple-Detector SPECT-Based Imager Family

Mediso is at the frontier of the development of SPECT & PET systems. This is based upon more than 50 years of medical imaging experience and a century of company tradition within the precision engineering industry.

Mediso is the only vendor in the world to design, develop and manufacture both pre-clinical research and clinical hybrid molecular imaging systems. The **AnyScan® TRIO** SPECT/CT Systems originate from this unique synergy, as the new breakthrough in hybrid molecular imaging.

Triple detector SPECT imaging systems have long been the nuclear medicine gold standard for high resolution detection of brain and cardiac abnormalities over the past three decades.

The integration of Mediso's unique **AnyScan®** SPECT/CT system with Multi-PinHole collimators created **AnyScan®TRIO**, the triple detector SPECT/CT hybrid imaging system. **AnyScan® TRIO** means a leap forward for quantitative and PET-like clinical SPECT/CT imaging. This ground breaking hybrid technology ensures high resolution, very high sensitivity images and exact quantification, all combined within one SPECT/CT System.

Mediso presents the cutting edge **Research Edition** of this triple detector **AnyScan® TRIO** SPECT/CT. System performance is ensured by its unique engineering design providing exceptional performance for clinical and pre-clinical research facilities.

The main features of **Research Edition** are:

- **Xtreme Edition™** detectors, with 123 or 94 photomultiplier tubes each.
- Innovative, patented Multi-PinHole collimators with organ specific apertures.
- Three-dimensional quantitative reconstruction with **Tera-Tomo™ 3D SPECT – Q** algorithms.

This system is available in SPECT/CT and triple-modality SPECT/CT/PET configurations.

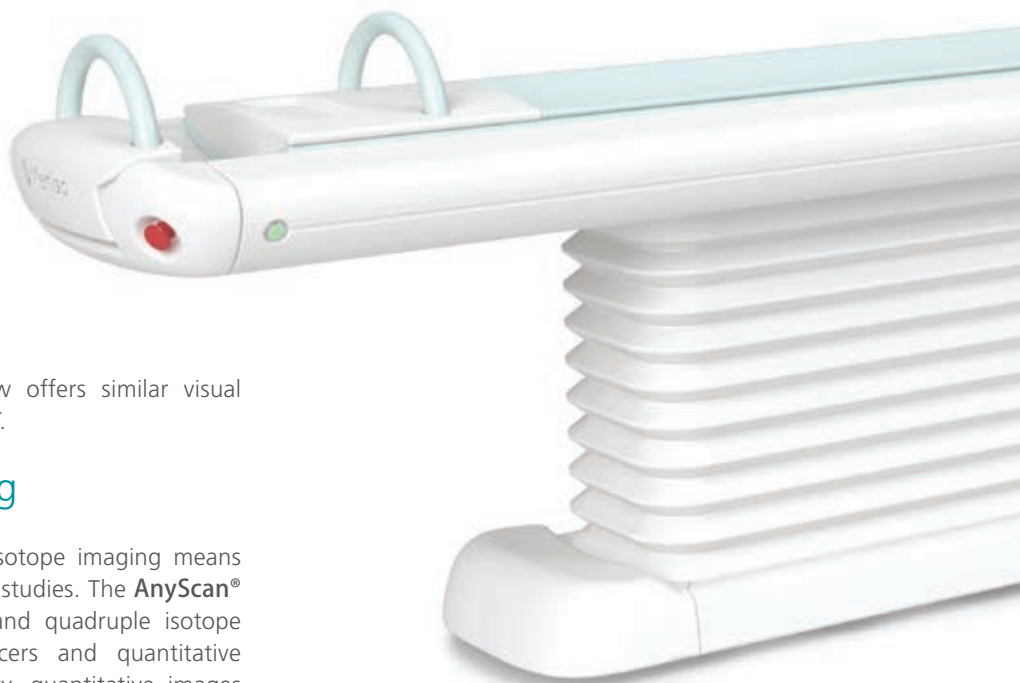
PET-like Imaging

The **AnyScan® TRIO** SPECT now offers similar visual performance and workflow as PET.

Multi Isotope Imaging

SPECT's inherent ease of multi isotope imaging means benefit to the patient and clinical studies. The **AnyScan® TRIO** can perform dual, triple and quadruple isotope examinations with modern tracers and quantitative evaluation, providing high quality, quantitative images even with high energy isotopes e.g. Iodine-131.

Therapeutic isotope dosimetry can be easily combined with a disease monitoring SPECT acquisition with two or more radionuclides. Multi-isotope imaging capabilities include ^{67}Ga combined with ^{131}I or $^{99\text{m}}\text{Tc}$ with ^{223}Ra .



Mediso also offers **Clinical Edition** of this triple detector **AnyScan® TRIO** SPECT/CT. This system is designed with the clinical practice in mind. Increased resolution and significant reduction in imaging time result in greater patient comfort and compliance. Enhanced imaging protocols and software advances result in more precise diagnostics and an improved clinical decision workflow, thus higher daily patient throughput.



The main features of **Clinical Edition** are:

- Clinical Edition UHP detectors, with 60 PMTs each, or Xtreme Edition™ with 94 PMTs each
- Extended FOV and sensitivity parallel hole collimators
- **Tera-Tomo™ 3D algorithms**
- Optional, innovative, patented Multi-PinHole collimators with organ specific apertures for Xtreme Edition™ detectors
- Optional, three-dimensional quantitative reconstruction with **Tera-Tomo™ 3D SPECT – Q** algorithms

This system is available in SPECT, SPECT/CT and triple-modality SPECT/CT/PET configurations.

The AnyScan® Platform Made for NM Department



IMAGING TABLE

SPECT

CT

PET

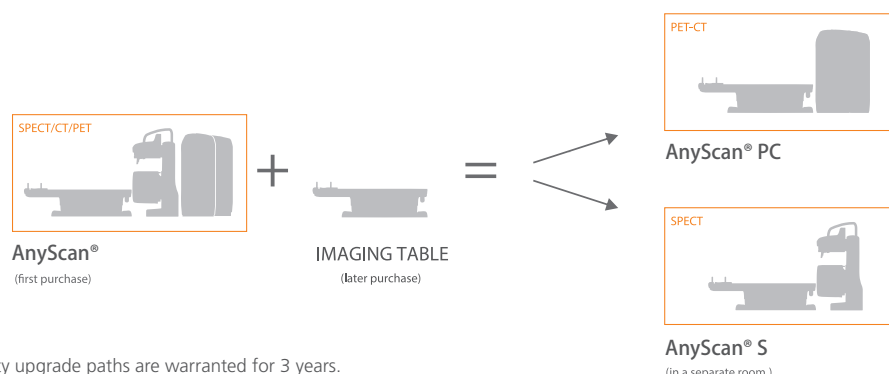
AnyScan® TRIO inherited AnyScan®'s unique flexibility in modularity

- SPECT/CT and PET/CT imaging in ONE room
- All protocols are completed in less than 20 minutes
- Flexible system combinations due to "building block" SPECT, CT and PET system
- Multiple upgrade paths:
 - Add-on upgrade from single unit to triple modality which covers all NM diagnostic procedures with a single device in a single room
 - Splitting upgrade from triple modality to more units in order to achieve a higher throughput of the NM department
- Made for NM departments and covers all NM procedures

Add-on upgrade path for equipment that grows with the practice*



Splitting upgrade path for increased throughput



* For investment safety upgrade paths are warranted for 3 years.

AnyScan® TRIO SPECT/CT replaces 2 conventional dual head systems

The **AnyScan® TRIO** with the novel LEHRHS parallel collimator set has the performance of 2 conventional dual head SPECT-CT systems.

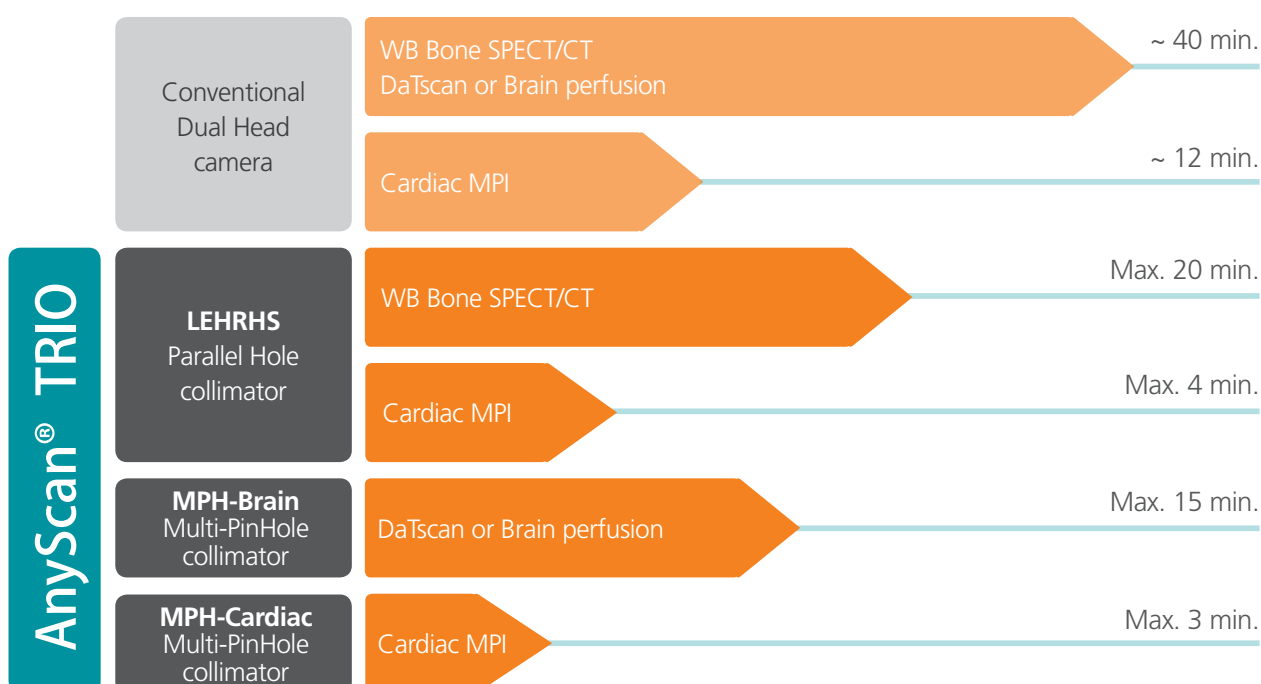


- Acquisition time on conventional dual head camera is 20 minutes.
- Acquisition time on triple head camera is 10 minutes.

The extra detector and the addition of the novel LEHRHS collimators reduces the acquisition time by 50% compared to conventional dual head SPECT/CT systems.

As the below picture shows acquisition time shortens significantly by applying LEHRHS parallel hole collimator or **Multi-PinHole** collimator + **Tera-Tomo™ 3D SPECT** iterative reconstruction

Acquisition time **shortens significantly** by applying LEHRHS parallel hole collimator or Multi-PinHole collimator + TeraTomo 3D SPECT iterative reconstruction

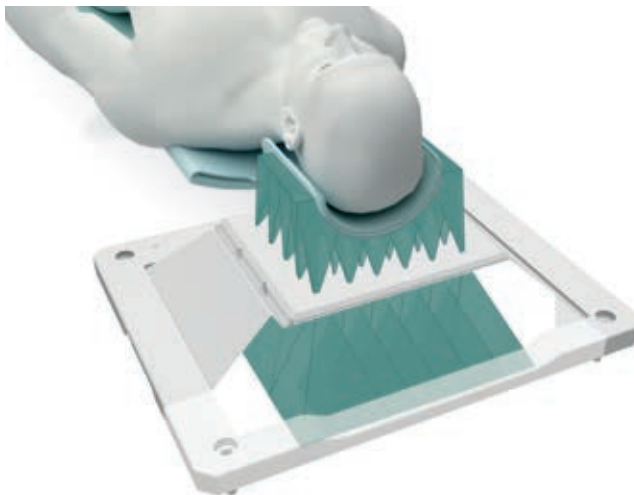
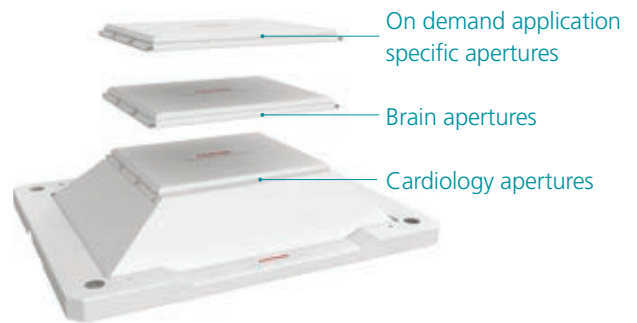


AnyScan® TRIO SPECT/CT System Features

Performance in all aspects

Mediso has invested more than a decade into the research and development of SPECT detector technologies and multipinhole collimation. As a result the multi-detector and multipinhole collimation are today the gold standard in Mediso's quantitative pre-clinical SPECT/CT systems (**nanoScan®SPECT/CT**). Now the very same technologies became the essence of **AnyScan® TRIO**.

Mediso's experience and expertise in the development of both preclinical and clinical Nuclear Medicine guarantees the best performance of the new **AnyScan® TRIO** system too.



Multi-PinHole Collimator Based Research Package

The **AnyScan® TRIO** system has been developed with organ specific collimator apertures for different clinical applications.

Apertures are optimized for specific parameters, such as resolution, sensitivity, field of view and contrast to noise ratio.

Extreme Edition™ or UHP triple detector
1 ADC/PMT - excellent resolution
Up to 123 PMTs

MPH (Multi-PinHole) Collimator

MPH-Brain
MPH-Cardiac
MPH-Brain-HR

Diagnostic 16 slice CT subsystem

LYSO crystal Time-of-Flight PET subsystem

Integrated touchscreen monitor
Gantry status, controls, Pscope and ECG display

Auto Body Contour
Minimum object/detector distance
Standardized image quality
Advanced safety

Parallel-hole Collimator

LEHRHS
MLEGP
MHEGP
and more

Multi-modality Table
Low table height
High patient comfort

Built-in ECG and source holder
3+1 leads ECG, Integrated
Source holder for QC

AnyScan® TRIO SPECT/CT System Benefits

The comparison below shows the benefits of **AnyScan® TRIO** in SPECT imaging versus the conventional dual detector (NaI or CZT), parallel-hole collimated SPECT/CT systems.



Best System Average Sensitivity

6x higher with MPH aperture for Cardiology
5x higher with MPH aperture for Neurology
2x higher with LEHRHS parallel hole collimator

Best System Resolution

2x system resolution thanks to the triple head system and the MPH technology



Best Contrast-to-Noise Ratio

2X Contrast to Noise Ratio (CNR) with the new Monte Carlo-based **Tera-Tomo™** 3D SPECT - Q/MPH reconstruction

Shortest Total Imaging Time or Lowest Injected Dose

The imaging time can be reduced to one fourth at certain acquisition types, or...



...the injected dose can be reduced to the one fourth at certain acquisition types.

Best Absolute Quantification

Less than 5% error of absolute quantification thanks to the highly efficient detection, advanced modeling of physics and **Tera-Tomo™** 3D SPECT - Q/MPH reconstruction package.



Different Applications of AnyScan® TRIO's Unified Platform

1. Routine Clinical Application

The Clinical Application Package of **AnyScan® TRIO** includes the **Clinical Edition** of **AnyScan® TRIO** - meaning Clinical Edition UHP detectors, with 60 photomultiplier tubes each - and parallel-hole collimators. The **Tera-Tomo™ 3D SPECT - Q** reconstruction package is available as an option.

The **AnyScan® TRIO's** unified platform is capable of performing both dual and triple head mode acquisitions. Dual detector mode allows the user to cross validate their original protocols, coming from the conventional nuclear medicine world of dual detectors. After cross validation the triple head mode examinations provide PET-like imaging*, less dose administered to patient and shorter acquisition time.

2. High-end Clinical and Research Application

To meet the most demanding developments in clinical research the **Xtreme Edition™** triple detector system with Multi-PinHole technology offers the below advanced features in SPECT/CT imaging.

- Organ specific studies
- Stationary SPECT imaging
- List Mode Dynamic Imaging

The new **Tera-Tomo™ 3D SPECT - Q/MPH** quantitative reconstruction package includes on the fly quantification for dynamic studies.

The Clinical Research Application Package includes 94 pcs PMT, **Xtreme Edition™** detectors, application specific Multi-PinHole collimator, parallel-hole collimators and **Tera-Tomo™ 3D SPECT - Q/MPH** reconstruction package for absolute quantification.

3. Cutting Edge Pre-clinical and Research Application

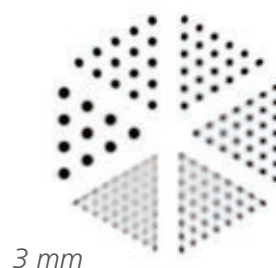
The **AnyScan® TRIO** is a unique, flexible and versatile system also for pre-clinical research. Just like Mediso's earlier and current pre-clinical systems, AnyScan® TRIO's cutting edge Pre-clinical Research Application Package predestinates it's users to success in researching large animal models, e.g. in regenerative remodeling cardiac or musculoskeletal research, etc.

The Pre-clinical research package includes 123 pcs PMT, **Xtreme Edition™** detectors, application specific Multi-PinHole collimator, parallel-hole collimators and the **Tera-Tomo™ 3D SPECT - Q/MPH** reconstruction package for absolute quantification.

** PET-like visual quality is a product of Xtreme Edition detectors, Tera-Tomo™ 3D SPECT – Q reconstruction and special collimators.*



Multi PinHole Neurology Study Setting



Resolution with UHR-MPH Collimator for Neurology
(Simulated image)

Performance and Optimized Workflow

The TRIO system features three best-in-class detectors with Ultra-high Resolution and Performance

Non-Anger detection logics

Extra-large maximum FOV: 545 x 400 mm

Photomultipliers: 123 / 94 / 60 pcs/detector

Typical intrinsic FWHM resolution: 2.5 / 2.8 / 3.2 mm

Full Energy range Clinical Imaging from 40 keV to 960 KeV

Linear maximal count rate: >700 000 cps

Optimized Workflow and ultra-fast Acquisition Time

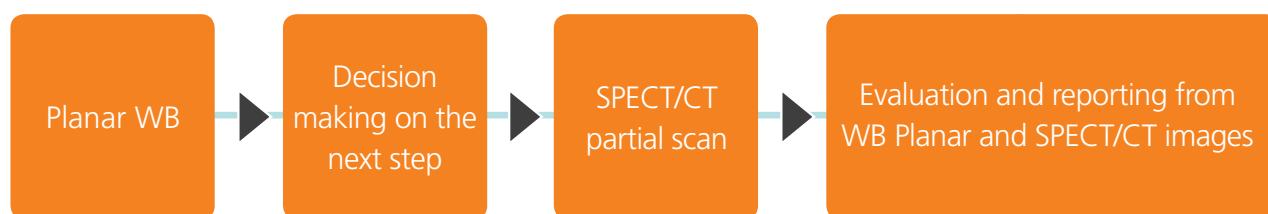
Clinical workflow is dramatically improved by the **AnyScan® TRIO** through the reduction of clinical decision making steps.

A common problem during Whole Body imaging is that after the planar scan a decision has to be made whether or not a further SPECT acquisition is required.

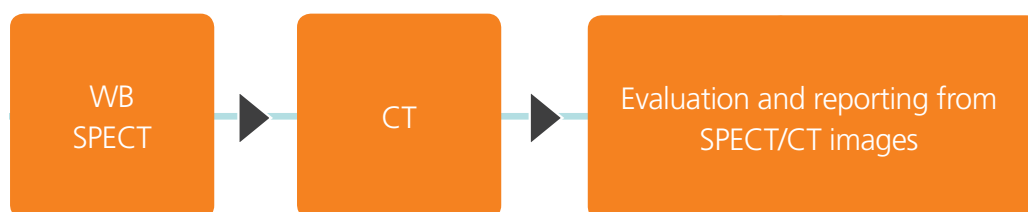
The new Whole Body SPECT protocol solves this problem, because the conventional first procedure, the planar WB is replaced by the WB SPECT imaging providing information faster for decision on the CT-scan length.

Not only patient compliance and comfort are improved but physician's workload is also reduced due to shorter imaging time.

Traditional Workflow for Whole Body Examinations



Automated **AnyScan® TRIO** Workflow for Whole Body Examinations



Cutting Edge Clinical and Research Imaging

After a decade of research and development of SPECT detector and Multi PinHole collimation technology on the pre-clinical field, Mediso now integrated this knowledge into a unique human SPECT/CT System, the **AnyScan® TRIO**. Research and Clinical Editions are available for pre-clinical and clinical research and cutting edge clinical practice respectively.

A wide range of research applications are now possible by the introduction of the **AnyScan® TRIO**, such as Biomarkers, Receptor binding in Neurology, Stem Cell Research, Drug Discovery and Ligand development in Oncology.



Organ and Disease Specific Collimators

Maximum system performance can be achieved using optimized organ specific collimators. The use of these Multi-Pinhole collimators increases resolution, sensitivity and contrast to noise ratio. Shortened acquisition time results in improved patient comfort and as a consequence motion artifacts are inherently eliminated.



"PET-like" Resolution

The Multi-Pinhole technology and the higher sampling density of the object result improved resolution and reduced image artifacts, providing high quality PET-like images.



Quantitative SPECT Imaging

Monte Carlo-based **Tera-Tomo™ 3D SPECT - Q** reconstruction model, corrects all physical interactions over gamma photons' path and ensures accurate quantitative results.



Stationary SPECT Imaging

Certain acquisitions can be done with a motionless (Stationary) gantry, providing measurement of physiology in short time frames in SPECT with precise data acquisition.



Dynamic Gated SPECT

Stationary and quasi-stationary SPECT imaging ensures accurate measurement of dynamic processes and takes into account patient motion, heart function and respiration during gated acquisition.



List Mode SPECT Acquisition and Software Tool

Research and cardiac clinical applications can achieve enhanced results by adjusting acquisition protocols through raw data resampling.



Excellent Image Registration

Correction and compensation of the mechanical and electronic misalignment of different modalities significantly improve image quality.

Clinical Routine Imaging



Whole Body SPECT

Whole Body SPECT replaces conventional planar Whole Body Scans. After the system generates the 3D SPECT images, planar views are created for navigation, reducing overall examination time.



Optimized Continuous Workflow

This automated reconstruction protocol means that no resetting of the patient scan parameters, and no extra clinical decisions by the physician are needed during the scan workflow resulting reduced imaging time and workload.



Continuous SPECT

Compared to conventional step and shoot mode Continuous mode provides shorter acquisition time.



Fast Acquisition

The triple head system **with the LEHRHS collimators** can complete a patient scan twice as fast as conventional dual head systems.



Less Administered Dose

The **AnyScan® TRIO** triple head system with the LEHRHS collimator grants superb image quality with 50% less dose for the patient.



Improved Patient Comfort

The shorter scan time and uninterrupted workflow increase patient comfort, thus reduces motion artifacts. Patient throughput also can be increased significantly.

Gantry Configuration for Triple head Whole Body SPECT

The three detector configuration of the **AnyScan® TRIO** is flexible and easily changes for different scan types. The 120 degree configuration is optimized for fast, high quality Whole Body SPECT.



120 degree detector mode

Gantry Configuration for Dual Head Mode

The cross-validation of scanning protocols from Dual Head mode to Triple Head mode requires system setup in Dual Head mode. Conventional whole body planar scan can also be performed in this mode.



Whole Body detector mode

Oncology Application, Case Studies

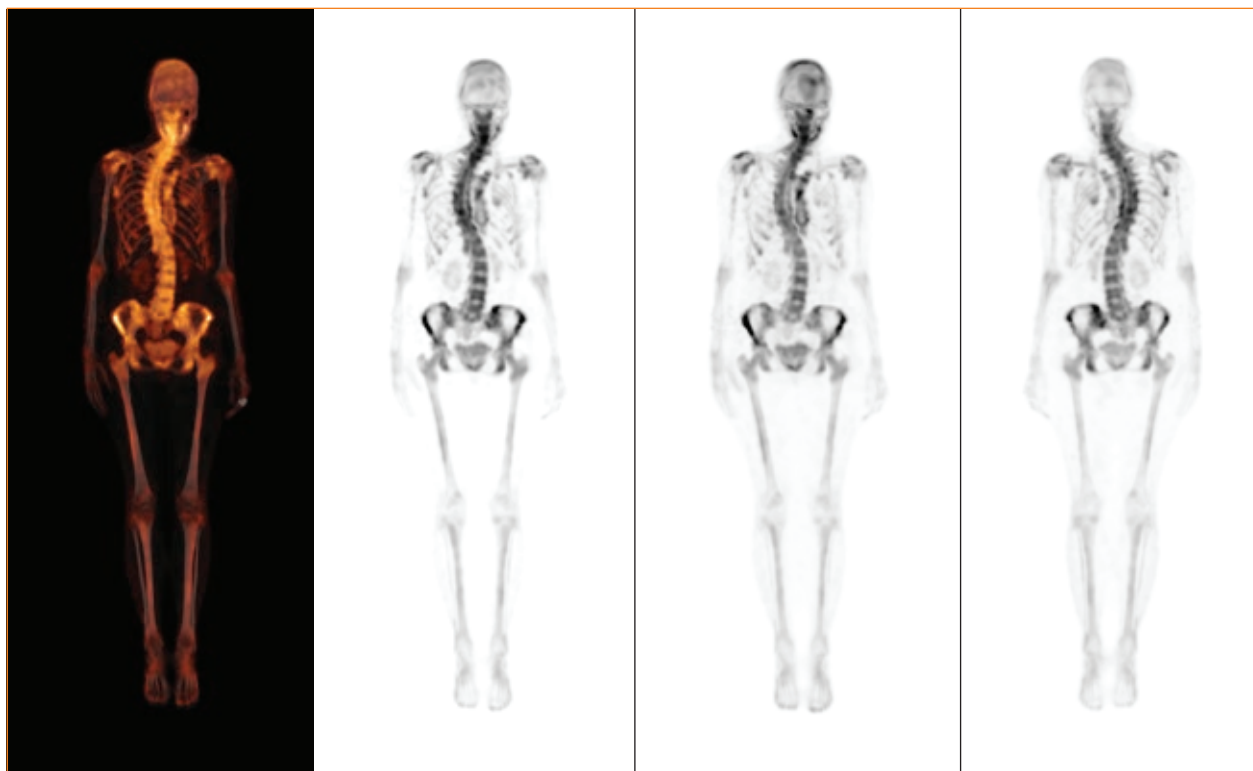
Oncology

Bone scintigraphy is the most frequent examination in nuclear medicine. Because of its high diagnostic value, the relevance of whole body SPECT/CT is increasing, but to date the gold standard is still the planar whole body examination. The main reason for that is acquisition time: the typical 45-60 minutes acquisition time of WB SPECT/CT is often just unacceptable for many patients. Even if the diagnostic value of WB SPECT/CT examination is by far higher than a WB planar examination, the typically long acquisition time still holds up the widespread usage of WB SPECT/CT in the clinical routine.

AnyScan® TRIO system sensitivity has been though dramatically increased by many factors: Triple Detector configuration, **Xtreme Edition™** detectors. All are equipped with the new **LEHRHS** high resolution and high sensitivity collimators, while the **Tera-Tomo™ 3D SPECT** reconstruction closes the imaging chain. The combination of all these features enable the **AnyScan® TRIO** to complete a **WB SPECT/CT scan in less than 20 minutes**. This significantly increases the patient comfort, helping the wider spread of WB SPECT/CT examinations in clinical routine. The acquisition time can be further reduced by continuous data collection, which eliminates the dead time of detector moves compared to the step and shoot method.

The whole body acquisition protocol provides opportunity to decide on the required length of the CT scan, depending on the outcome of the SPECT acquisition to avoid unwanted dose to the patient.

Whole Body SPECT/CT Scan



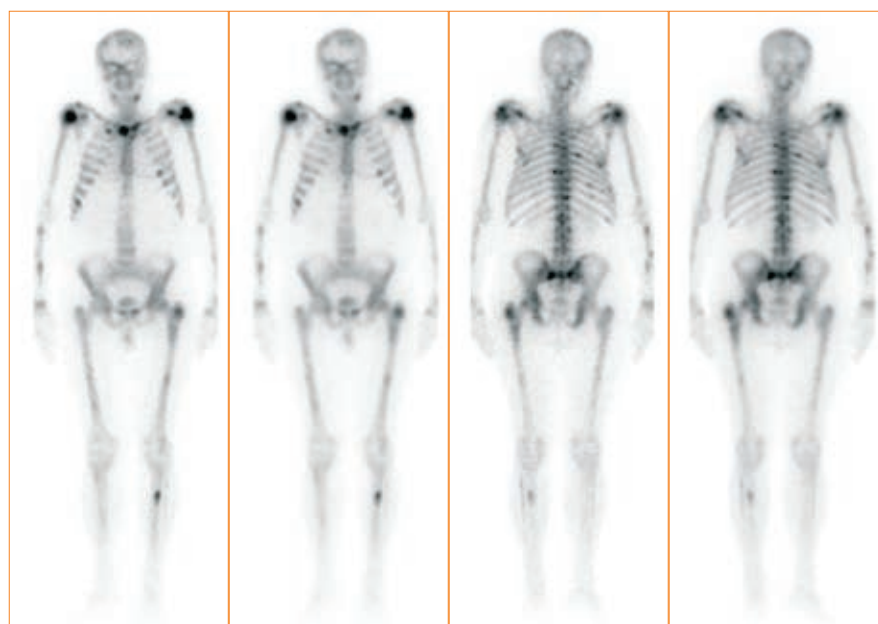
*WB SPECT 5 FOV fused image and WB SPECT MIP,
20 minutes acquisition time 531MBq TC99m MDP*

Planar images generated from the WB SPECT (AP, PA)

Oncology Application, Case Studies

Planar Whole Body Scans with different acquisition times

Comparison of Tera-Tomo™ 2D Planar enhanced half-time and unprocessed normal scan-time planar acquisitions (patient study, 615 MBq, 72 kg, 180 cm, Images acquired by AnyScan® S)



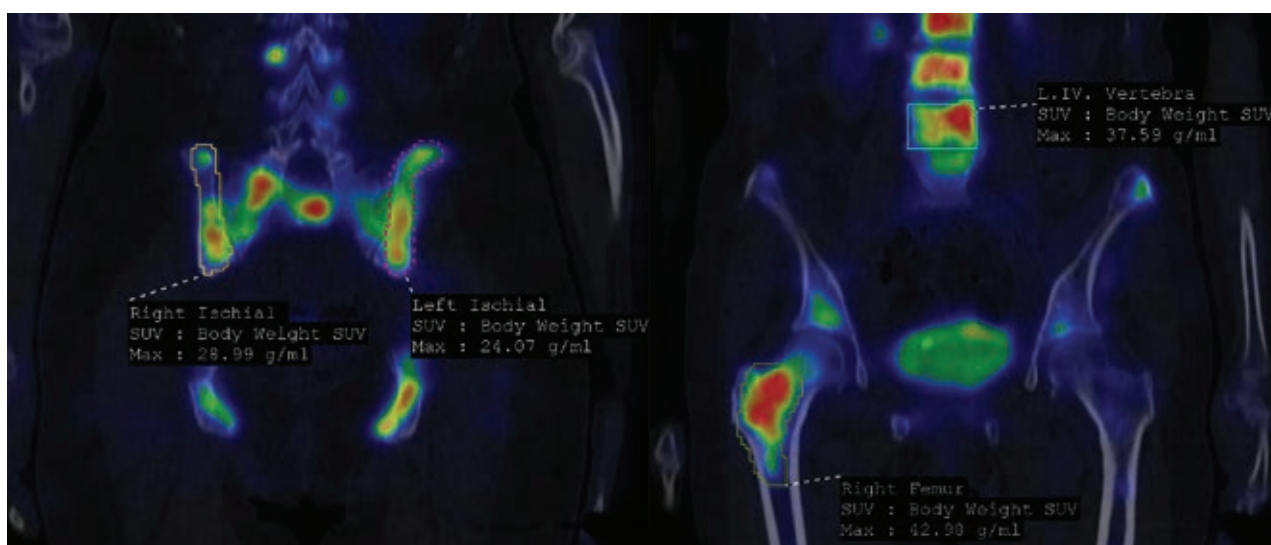
(a)
Unprocessed
15 min. scan

(b)
Tera-Tomo™ 2D Planar
7.5 min. scan

(c)
Unprocessed
15 min. scan

(d)
Tera-Tomo™ 2D Planar
7.5 min. scan

Whole Body SPECT/CT with Quantification and SUV Display



72 year female patient, 619 MBq ⁹⁹Tc MDP, LEHR collimator, 21min 20 sec acquisition time

Cardiology Application, Case Studies

Cardiology

SPECT MPI is a well-known procedure for diagnosing ischemic heart disease, determining optimal therapy and assessing the patients' prognosis. With ECG gated data acquisition the examination of the regional blood flow in stress and rest allows the measurement of the basic functional parameters of the left ventricle.

New collimation methods and reconstruction techniques developed for **AnyScan® TRIO** allow shorter acquisition time and even the introduction of new test methods.

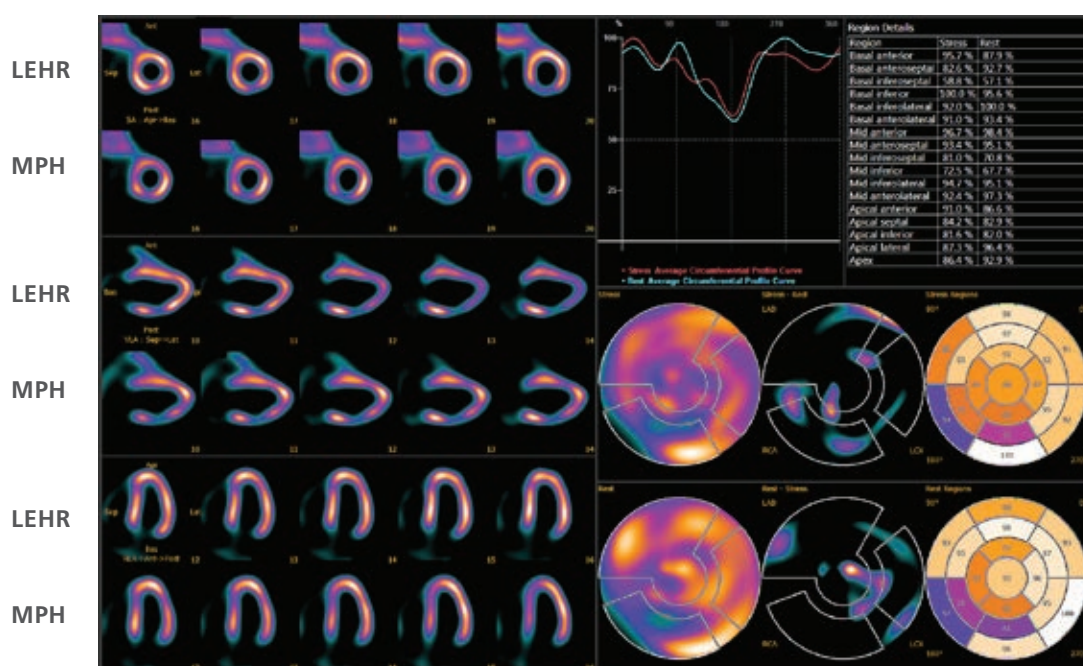
It is a well known fact in nuclear medicine that shorter acquisition time helps to increase patient's comfort and to decrease the chance of motion artifacts. The third detector of the acquisition/procedure TRIO camera, the new type parallel-hole collimators and **Tera-Tomo™ 3D SPECT** quantitative reconstruction allow the reduction of the acquisition time to 5 minutes, at the usual radioactive dosage (450 MBq). Considering dose reduction, the amount of activity administered may be reduced by about 50% at normal acquisition time (10 minutes).

Multi-PinHole (MPH) technology opens up new perspectives in cardiovascular imaging. MPH is not only a high-precision, high-sensitivity and high-resolution imaging method that provides with ECG gating stable data for separated analysis of end-diastolic images or even for asynchronous ventricular contraction, but the increased pulse-rate allows the introduction of new correction procedures, such as compensating for the respiratory displacement.

The stationary SPECT imaging mode and the high sensitivity and the **Tera-Tomo™ 3D SPECTQ/MPH*** reconstruction method pave the way to the introduction of quantitative heart perfusion SPECT. This allows the measurement of the absolute blood flow in stress and rest, i.e. the determination of the perfusion reserve in ml/mg/min.

The lateral movement of the patient table supports the MPH acquisitions. Target objects, the asymmetric organs (e.g. heart) can be moved to the FOV of MPH collimators supporting image acquisitions with optimal parameters.

Rotational 10 minutes acquisition with LEHR collimator Stationary 2 minutes acquisition with MPH collimator



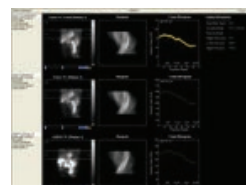
Simulated: XCAT beating heart model with lesion, no breathing, normal patient size, Tc-99m 400 MBq

Dedicated Cardiac Packages

INVIA's 4DM Advanced Quantification and Review Software.

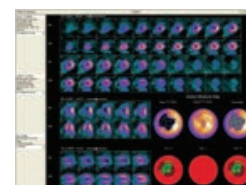
Single Review Environment

- Integrated Myocardial Perfusion with Function
- Planar and SPECT Blood Pool Quantification
- Multiple image formats (Splash, Three Short Axis)
- 2D and 3D Polar Maps (Ungated, ED, ES Perfusion, Thickening, Motion, Contractility, Viability, SUV; Raw, Normalized, Severity, Blackout, Defect Severity, Normalized Mean, Normalized Standard Deviation, and Thresholds)
- Segmental Scoring Overlays
- Auto-selected user-defined workflows and screens
- Multi-monitor support



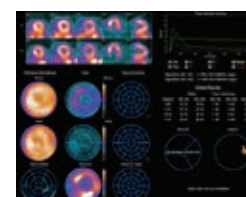
Quality Assurance & Quantification

- Automatic quantification and cardiac reorientation
- User selectable processing algorithms
- Integrated quantification and review screens
- Volumetric Co-registration of supported data
- Tomo QA display (Cine Review, Sinogram, Linogram, Beat Histogram, Count Histogram, Gating Parameters)



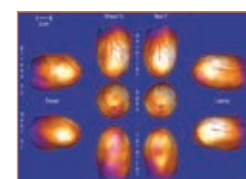
Coronary Flow Reserve & Hybrid CT

- Fully automated Coronary Flow Reserve quantification
- Global and regional absolute blood flow results
- QA tools to track LV/RV uptake and territory distributions
- Manually motion correct dynamic frames
- Hybrid-CT (includes whole body CT Review, Calcium Scoring, Vessel and Calcium Fusion)



Emory Cardiac Toolbox

The software package provides physicians with a tool that processes, displays, interprets and analyzes cardiac PET and SPECT studies. HeartFusion™ is able to fuse CT coronaries with perfusion 3D display and provides vessel cross-sectional area.

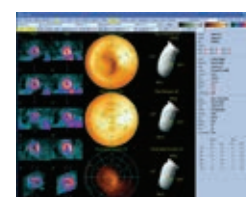


Cedars Sinai

Dedicated evaluation package to analyze quantitative blood-pool SPECT, cardiac perfusion and gated SPECT studies and compare to normal databases.

QGS+QPS - Quantitative Gated+Perfusion SPECT

This application provides cardiac function and perfusion quantitation using gated and ungated MPI datasets: ED and ES volumes, ejection fraction, and perfusion measures such as SSS/SRS/SDS and TPD. The image data can be viewed in a variety of modes, from selected slices in a 2D view to a rendered 3D surface of the myocardium with parametric maps (perfusion, motion, thickening and regional EF).



QBS - Quantitative Blood Pool SPECT

This application provides automatic quantitation of left- and right-ventricular function (ejection fraction, ED and ES volumes, stroke volumes) using gated blood pool SPECT images. It also displays motion polar maps and parametric surfaces.

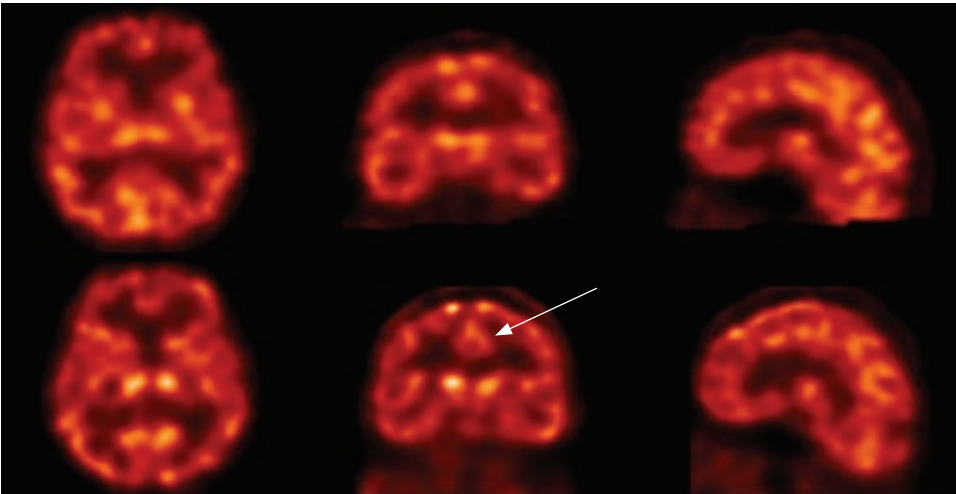


Neurology Application, Case Studies

Neurology

SPECT testing of neurodegenerative diseases, like Alzheimer’s and Parkinson’s disease is of paramount importance in nuclear medicine. Multi-PinHole disease-specific collimators have been developed for the **AnyScan® TRIO** to provide high sensitivity and excellent resolution, enabling shorter imaging time or reductions in patient dosage. The shorter acquisition time with usual patient dosage allows 15 minute patient examinations, as demonstrated in the following patient studies. The helical mapping of Multi-PinHole eliminates the dead space of the detectors and allows simple patient positioning. CT image absorption and scatter correction as part of the **Tera-Tomo™ MPH Q** reconstruction allows high definition, reproducible and accurate quantitative imaging.

Patient Studies (LEHR and MPH-Brain) HMPAO Brain Perfusion Scan



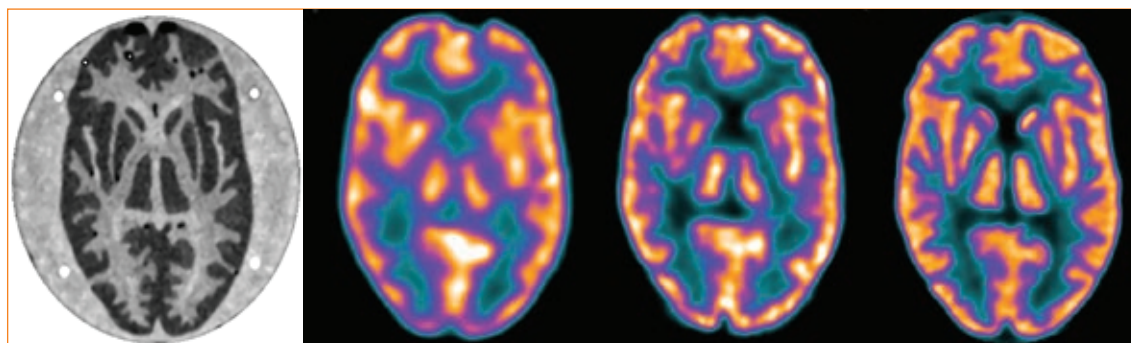
Reconstruction of the LEHR acquisition with **Tera-Tomo™ 3D SPECT** algorithm

Reconstruction of the MPH acquisition with **Tera-Tomo™ 3D SPECT MPH** algorithm

Imaging system	Collimator	Views	Acq. Time (min)
Conventional Dual-head SPECT/CT	LEHR	128	32
AnyScan® TRIO SPECT/CT	MPH-Brain	48	24

Neurology Application, Case Studies

Multi-Modality Comparison of the Image Quality with Hoffman 3D Brain Phantom



CT image of the phantom

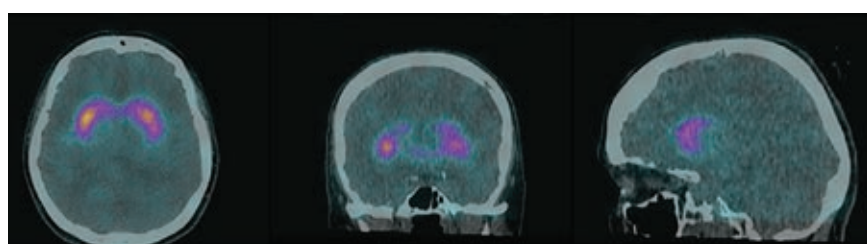
Dual-head SPECT image with LEHRHS collimator

AnyScan® TRIO SPECT image with MPH-Brain-HR collimator

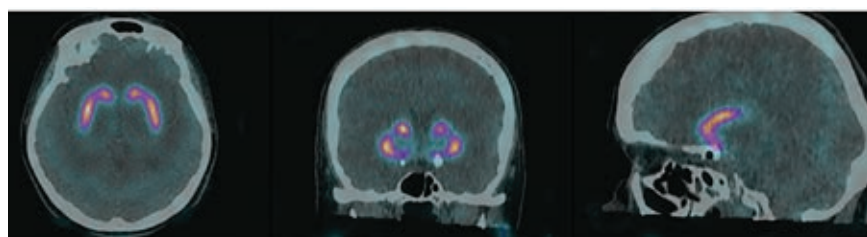
Reference PET image

Imaging system	Collimator	Isotope	Acq. Time (min)
AnyScan® Dual-head SPECT/CT	LEHRHS	50 MBq Tc-99m	30
AnyScan® TRIO SPECT/CT	MPH-Brain-HR	50 MBq Tc-99m	30
Conventional PET/CT	n/a	50 MBq F-18	15

DaTscan Patient Studies (LEHR and MPH-Brain-HR) SPECT/CT



Reconstruction of the LEHR acquisition with Tera-Tomo™ 3D SPECT algorithm

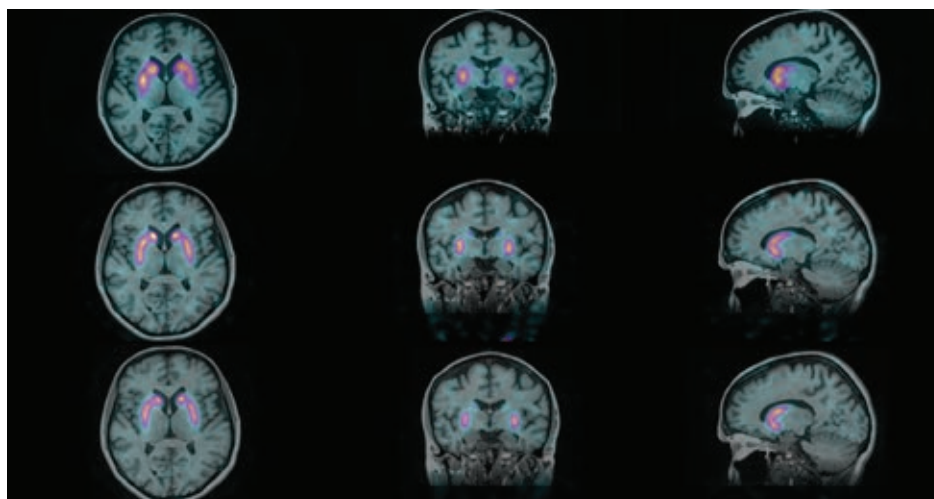


Reconstruction of the MPH acquisition with Tera-Tomo™ 3D SPECT MPH algorithm

Imaging system	Collimator	Views	Acq. Time (min)
2-head AnyScan® SPECT/CT	LEHR	128	35
3-head AnyScan® SPECT/CT	MPH-Brain-HR	48	20

Neurology Application, Case Studies

DaTscan Patient Studies (LEHR and MPH-Brain/HR) SPECT+MR

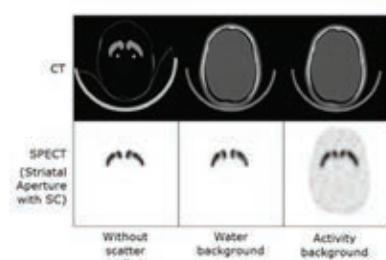
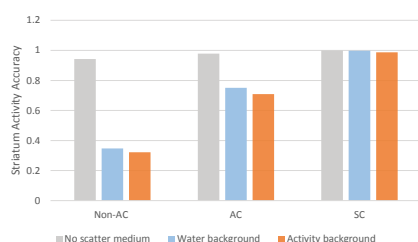


35 minutes acquisition time with LEHR collimator

15 minutes acquisition time with MPH-Brain-HR collimator

30 minutes acquisition time with MPH-Brain-HR collimator

Imaging system	Collimator	Views	Acq. Time (min)
Conventional Dual-head SPECT+MR	LEHR	128	35
AnyScan®TRIO Triple-head SPECT+MR	MPH-Brain-HR	48	15
AnyScan®TRIO Triple-head SPECT+MR	MPH-Brain-HR	48	30
MR	T1-weighted		



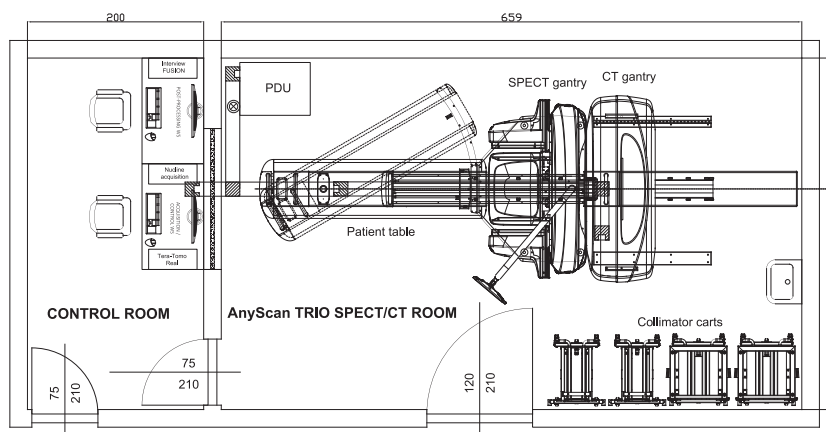
Quantitative SPECT Imaging

The Monte Carlo-based **Tera-Tomo™ 3D SPECT - Q** reconstruction model corrects all physical interactions over the gamma photons' path and ensures accurate quantitative results.

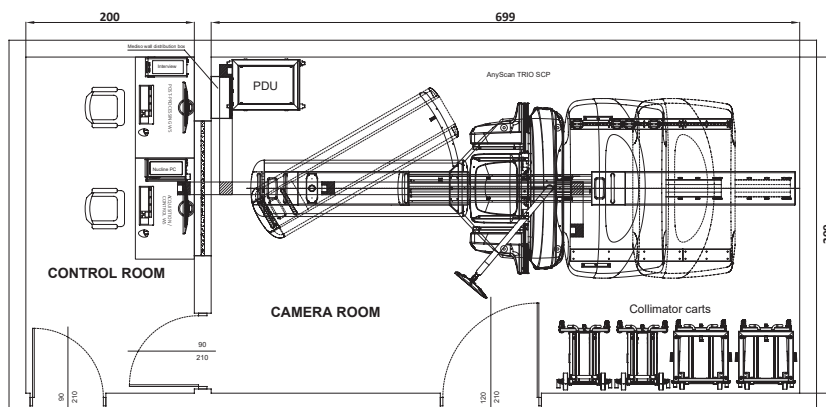
During SPECT examinations some of the gamma photons interact with the human body. **Tera-Tomo™ 3D SPECT - Q/MPH** algorithms apply scatter and attenuation corrections based upon the CT image. The error of the measured activity concentration will be less than 5%.

Beside effectively reducing image deterioration, scatter and attenuation correction also enables accurate quantification.

Room Layout



Standard room layout for AnyScan® TRIO SPECT/CT



Standard room layout for AnyScan® TRIO SPECT/CT/PET

Power Supply Requirements

SPECT-component

- Mains Voltage: 115/230 V (1 phase)
- Mains frequency: 45-63 Hz
- Max. power: 5.1 kVA

CT-component

- Mains Voltage : 400/480 V (3 phase)
- Mains frequency: 45-63 Hz
- Max. power: 85 kVA

PET-component

- Mains Voltage: 115/230 V (1 phase)
- Mains frequency: 45-63 Hz
- Max. power: 2 kVA

Environmental Requirements

Constant room temperature and humidity rate required for 7 days / 24 hours

- Temperature limitation: 20-24°C (68-75 °F)
- Max. rate of temperature change without collimator: 3°C/hour (5°F/hour)
- Max. rate of temperature change with collimator: 6°C/hour (10°F/hour)
- Relative humidity: 40-80% non-condensing
- Max. rate of humidity change: 10%/hour
- Atmospheric pressure: 70 - 106kPa
- Min. room inner height: 2.4 m (94.5 in)
- Dew point: < 17°C (63°F)

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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