AnyScan® TRIO SPECT/CT IQMAX*

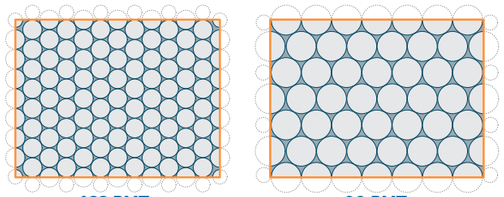
Diagnostic and Theranostic
Image Quality at **MAX**imum Level

Discover excellent image quality with the AnyScan® TRIO SPECT/CT IQMAX* featuring novel multi-pinhole collimator technology. Improve your diagnostic confidence with outstanding resolution and 360° PET-like imaging. The unique system designed with the uncompromised commitment to the best SPECT resolution.

Mediso

Outstanding Diagnostic Image Quality

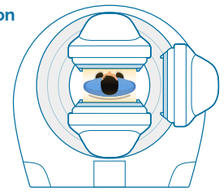
The novel detector technology of the IQMAX* delivers remarkable intrinsic spatial resolution of 2.5 mm (FWHM) provided by the high number of photo-multiplier tubes (123 PMTs). Superior PET-like image quality became possible with the advanced Tera-Tomo™ 3D SPECT-Q image reconstruction and the unique Multi-pinhole collimator technology featuring optimal use of the entire detector surface.



From General Purpose to Organ Focus Imaging

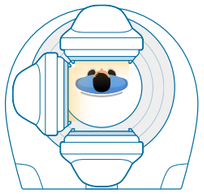
The IQMAX* is a versatile SPECT/CT system offering five imaging modes using Transformable™ Gantry and simple collimator exchange procedures. Total-Body mode unveils fast quantitative total-body SPECT/CT by all three detectors surrounding the patient. Brain focus imaging is possible with the dedicated MPH-Brain collimator for superior image quality DAT SPECT and Brain Perfusion SPECT. Cardiac focus 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.

180° configuration with **parallel-hole** collimators



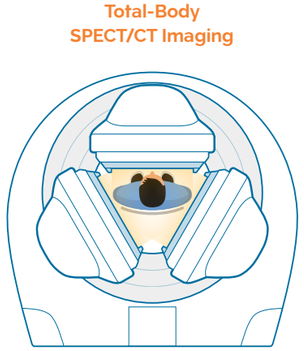
Dual-detector Planar imaging

90° configuration with **parallel-hole** collimators



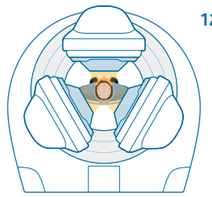
Dual-detector SPECT imaging

Total-Body SPECT/CT Imaging



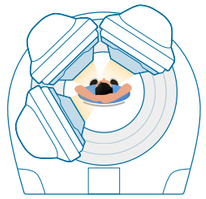
120° configuration with **parallel-hole** collimators for Theranostic and Diagnostic applications

120° configuration with **MPH-Brain** collimator



Brain Focus Imaging

75° configuration with **MPH-Cardiac** collimator



Cardiac Focus Imaging

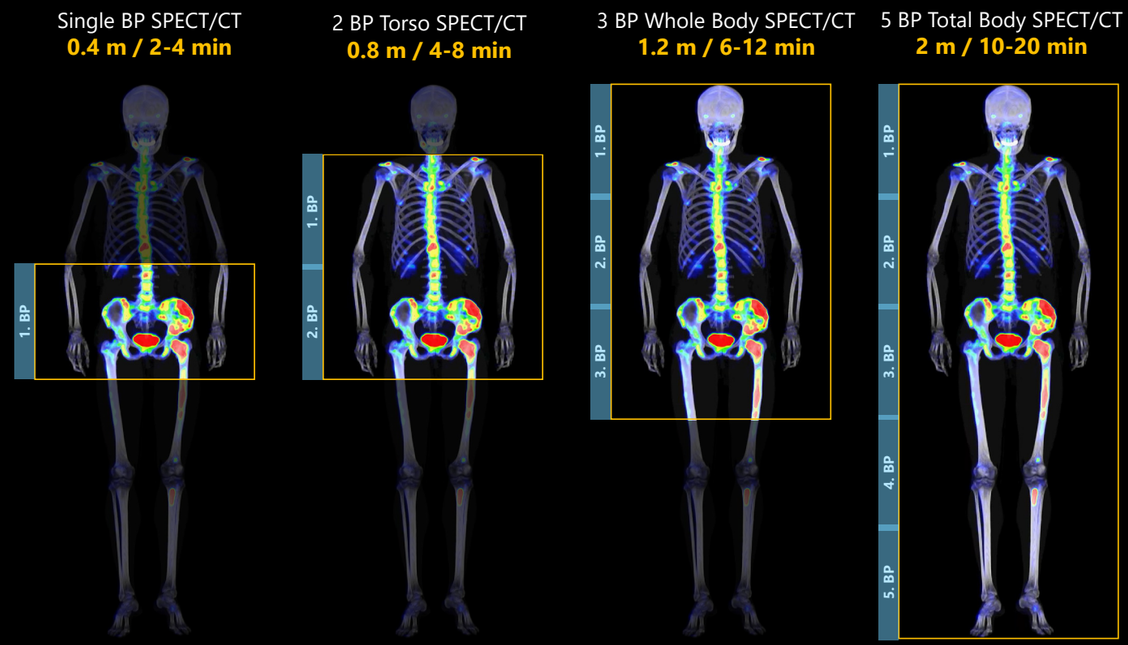
Triple-Performance CT

High power CT with up to 400 mA in diagnostic mode, 0.5 sec rotation speed, 0.625 mm resolution while offering on-the-fly dose modulation. Iterative Image Reconstruction with Tera-Tomo™ 3D CT-IR and advanced corrections for Motion- and Metal Artefact Reduction. Further improvement is possible with AI-based CT image quality enhancement solution. 16 slice diagnostic CT with 32-slice reconstruction offering three performance levels:

1. Standard Low Dose protocols for diagnostic CT applications
2. Ultra-Low Dose CT with sub-mSv effective dose for attenuation correction and localization
3. AI-Powered Synthetic CT (SyCT)** offering attenuation correction with Zero Effective Dose for quantitative ^{99m}Tc bone scans

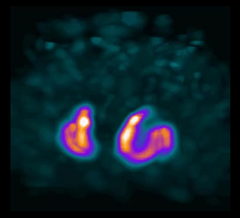
Diagnostic Image Quality with MAXimized level

IQMAX* provides outstanding image quality for isotopes of ^{99m}Tc, ^{177}Lu, ^{123}I, ^{131}I, ^{153}Sm, ^{111}In, ^{90}Y, ^{203}Pb and beyond.



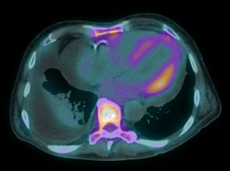
Bone SPECT/CT 555 MBq injected activity ^{99m}Tc-MDP, 4 min/BP, LEHR-HS collimator

Image courtesy by ScanoMed Debrecen

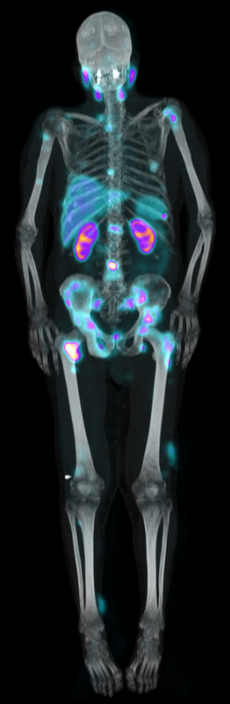


180 MBq of ^{123}I-Ioflupane
MPH-Brain, 10 min

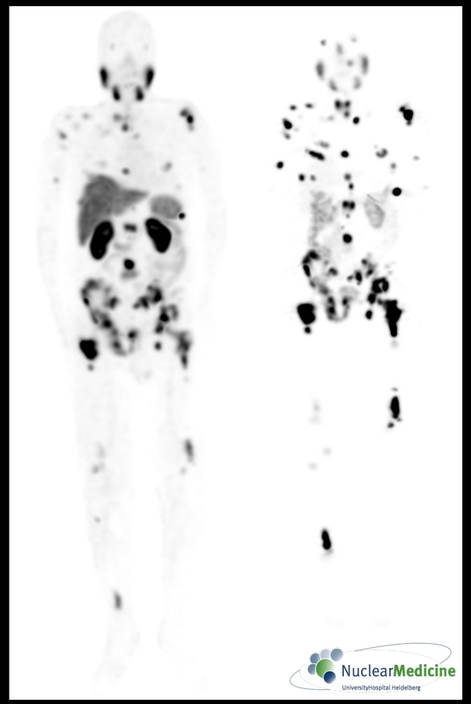
800 MBq of ^{99m}Tc-HMPAO
MPH-Brain, 15 min



885 MBq of ^{99m}Tc-pyrophosphate
LEHR-HS, 10 min



^{99m}Tc-PSMA -GCK01
706 MBq, LEHR-HS, 26 min



^{99m}Tc-PSMA -GCK01
706 MBq, LEHR-HS, 26 min

^{177}Lu-PSMA-617
7400 MBq, M-LEGP, 26 min

Image courtesy of Professor Uwe Haberkorn and Dr. Clemens Kratochwil

MAXimized Image Quality and Quantitative Accuracy

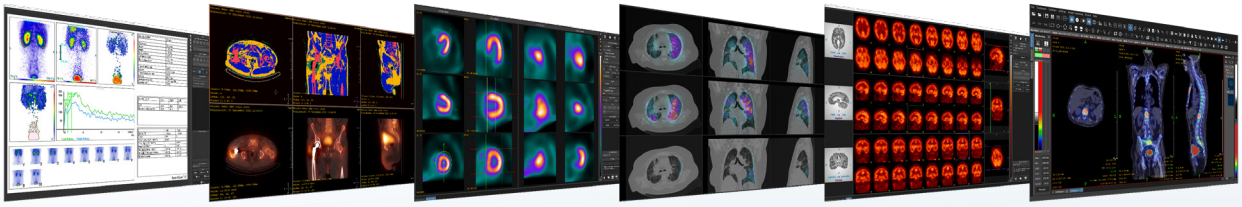
Our signature parallel-hole collimators are available for low-, medium-, and high energies. Novel Multi-pinhole technology provides focused imaging for brain and cardiac applications with PET-like image quality and unveils dynamic SPECT applications. Tera-Tomo™ 3D SPECT-Q is the ultimate quantitative image reconstruction solution, featuring Monte Carlo based physical modelling of particle-level gamma photon interactions running on high-performance GPUs.

SyCT**– the AI-Powered Synthetic CT

Experience the innovation of AI-Powered Synthetic CT (SyCT), offering zero-dose CT imaging for quantitative SPECT analysis. Specifically designed for ^{99m}Tc bone scans, including total-body imaging, SyCT ensures precise attenuation correction and anatomical localization. Free from the effective dose and artifacts associated with traditional CT scans, it eliminates motion and registration mismatches between SPECT and CT. Streamline your workflow with a solution that removes the need for dual-modality imaging.

InterView™ WorkFlow Server

The powerful InterView™ WorkFlow Server offers the centralized solution for reconstruction, data processing and review. The always available system provides the fast access through thin clients regardless the time, location or device for up to 12 simultaneous users. Maximazing the efficiency, the operator can control the entire image workflow on a dual monitor workstation without any additional hardware.



InterView™ WorkFlow Server

Nucline™ Operator Console

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*IQMAX is the configuration name of MAX-123/9.5 detector
**For research purpose only

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