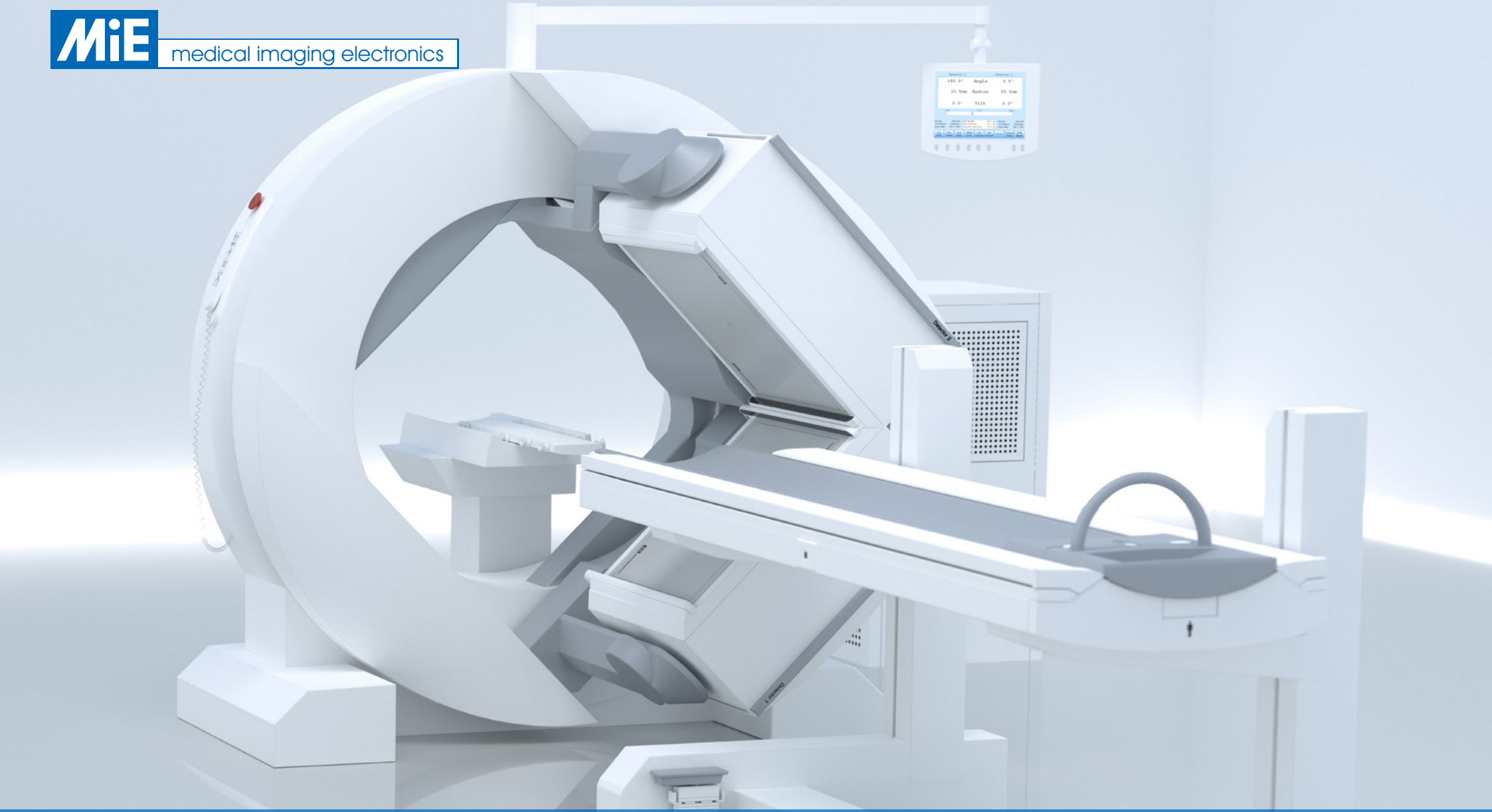
MiE medical imaging electronics



Made In Germany

mie-scintron.com/ecam

ECAM SCINTRON

SPECT GAMMA CAMERA

ECAM SCINTRON

SYSTEM HIGHLIGHTS

EASY PATIENT HANDLING

- Extra low table position (48,3 cm / 19“) for easy access of patients with limited mobility
- Integrated armrests (no additional parts) guarantees high patient comfort
- Ultra thin patient pallet (2.5 mm / 0.1“ aluminium) for excellent image quality and only 7% attenuation of radiation

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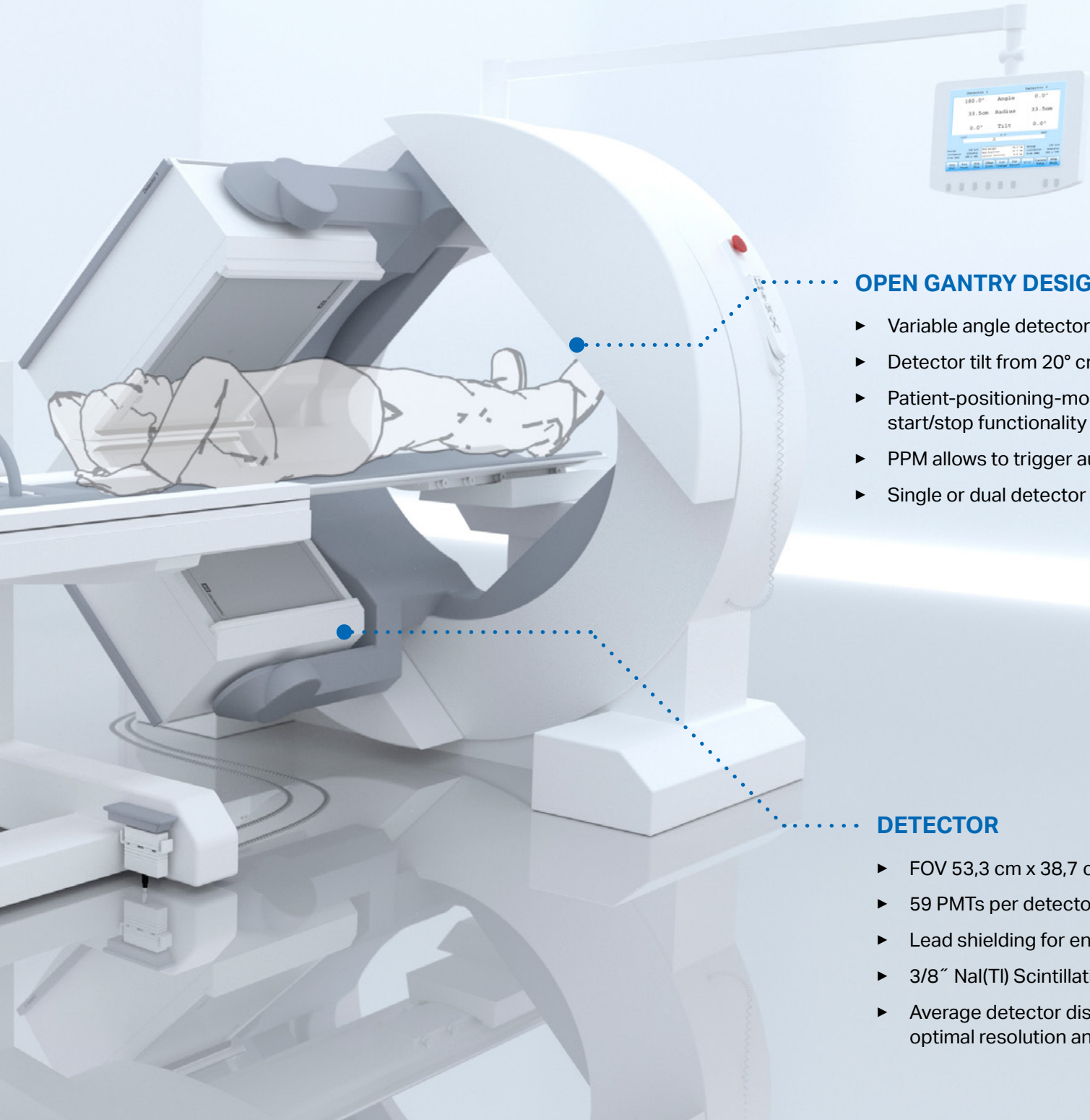


OPEN GANTRY DESIGN

- Variable angle detector configuration of 90° or 180°
- Detector tilt from 20° cranial to 90° caudal
- Patient-positioning-monitor (PPM) and remote control enable acquisition start/stop functionality for reliable patient preparation
- PPM allows to trigger automatic detector movements for a fast work routine
- Single or dual detector systems available

DETECTOR

- FOV 53,3 cm x 38,7 cm (21″ x 15.25″)
- 59 PMTs per detector for excellent resolution
- Lead shielding for energies up to 511 keV
- 3/8″ NaI(Tl) Scintillation-Crystal
- Average detector distance using body contouring only 1.1 cm (0.45″) for optimal resolution and image quality

ECAM POWERED BY SCINTRON

SCINTRON 7 NM

SOFTWARE HIGHLIGHTS

The SCINTRON software contains a wide variety of organ specific processing programs. In addition, general processing tools allow for evaluation of studies customized to your needs.

Quantification and viewing made easy by intuitive program structure with fast access of result screens. Individual masks and export functions round out the results to fit your clinical and documentation requirements.

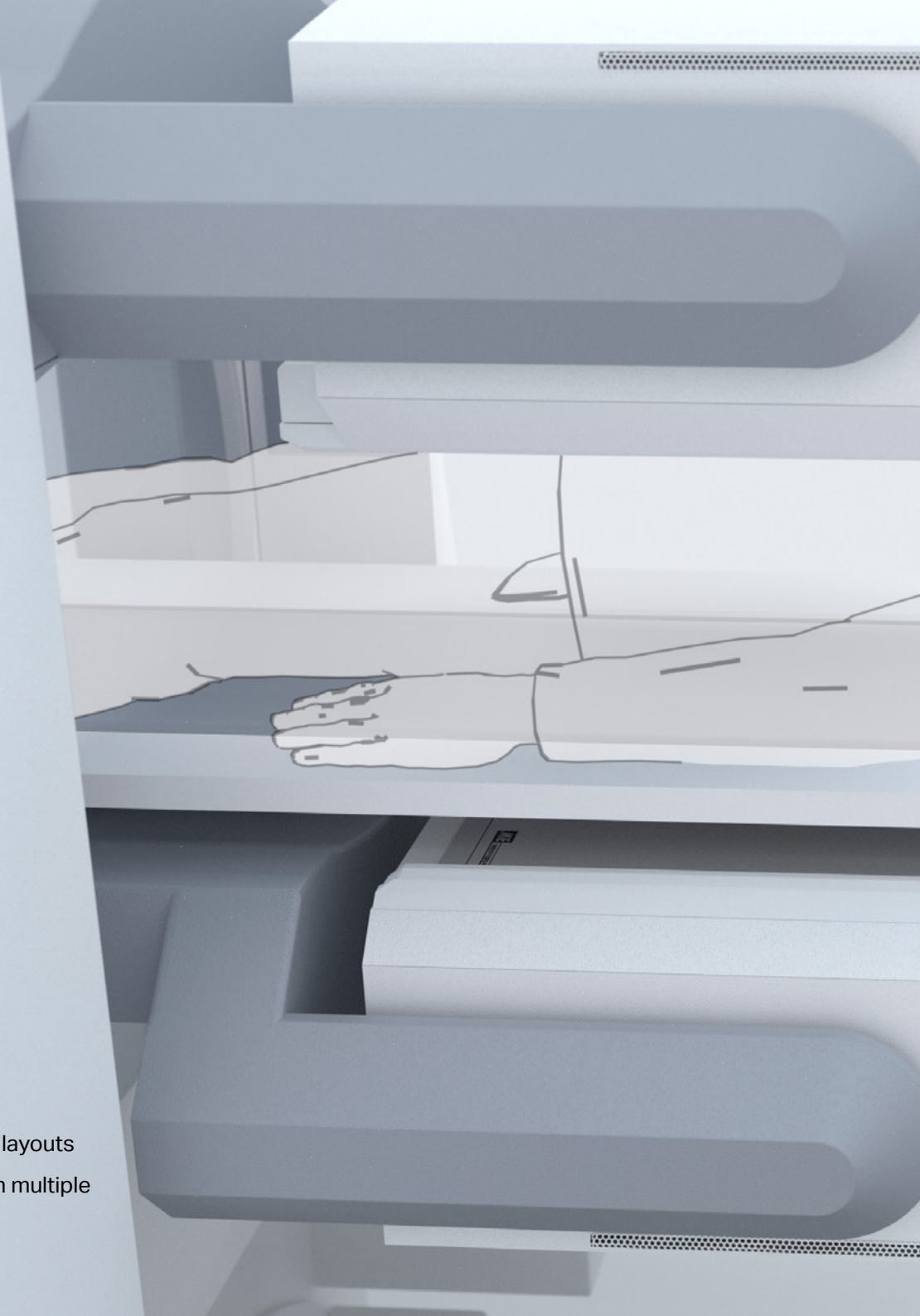
The SCINTRON system includes a DICOM-interface for seamless communication with RIS/HIS and PACS. The workstation allows for parallel acquisition and processing for a time saving work routine.

STATIC AND DYNAMIC ACQUISITIONS

- Thyroid scintigraphy (Tc-99m, I-123, I-131) and uptake-calculation
- Kidney scintigraphy (TER, GFR and ERPF calculations)
- Bones scintigraphy (3-phase protocol, static images, ROI-quantification)
- Static studies (SLN, lung, kidney, RSO-scintigraphy)
- Dynamic studies (gastric emptying, esophagus, salivary glands, gallbladder-EF, HIDA)
- MUGA studies (multi gated)

SPECT SOFTWARE

- 3D iterative reconstruction (DROSEM)
- Flexible slice displays for individual screen layouts
- Assembling of up to five SPECT acquired in multiple bed positions



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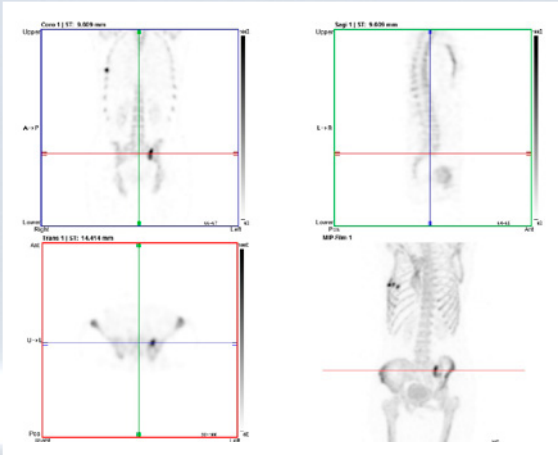
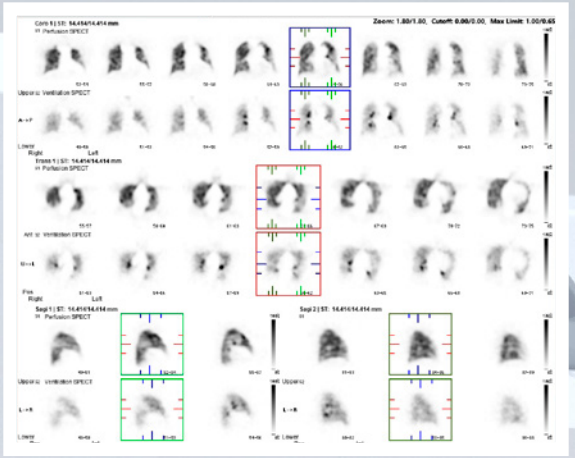
WHOLE BODY

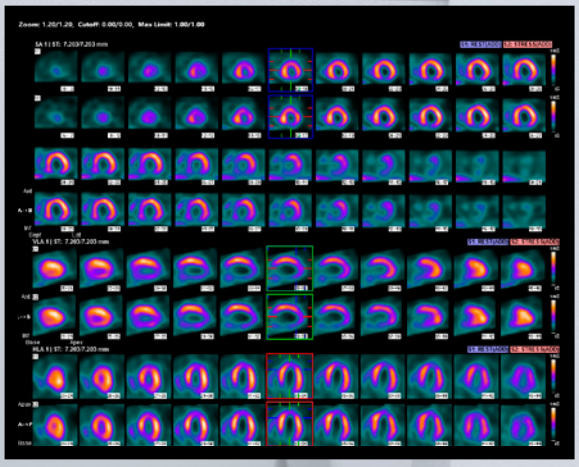
- Dual-intensity display to evaluate posterior and anterior views
- Quantification of sacroiliac joints within whole body scan, no additional static image required
- Deconvolution filter for improvement of signal / noise ratio





LUNG

- Calculation and displaying of V/P-Quotient in the slice viewer
- Direct comparison of ventilation and perfusion studies

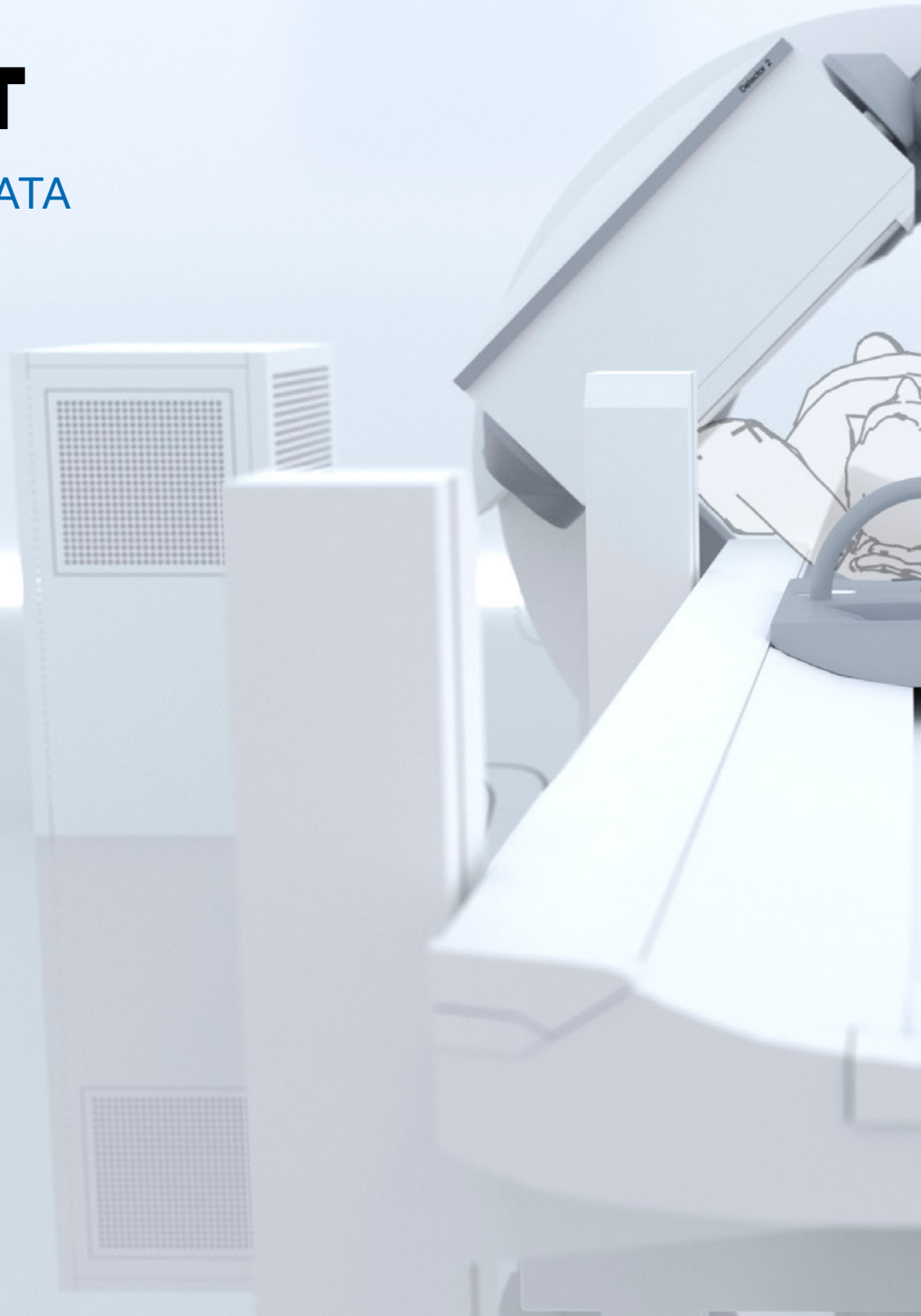


MYOCARD

- Display of rest / stress bullseye plots and reversibility
- Assessment of EF, wall thickening and wall motion for gated SPECT
- Calculation of SSS, SRS, and SDS with the use of an individual normal database
- Washout calculations for thallium studies

MiE SUPPORT

SERVICE AND TECHNICAL DATA



SUPPORT & SERVICE

Family owned, independent and dedicated to the field of nuclear medicine since 1981, the company offers a high level of knowledge that is an essential part of our products. Over the last several decades we established the full production line at our headquarter in Germany, including soft- and hardware development and mechanical production. This allows for direct access to experts of each department and fast support via phone and / or remotely. Additionally our local partners can provide immediate service on site if necessary.

WINDOWS 10 WORKSTATION

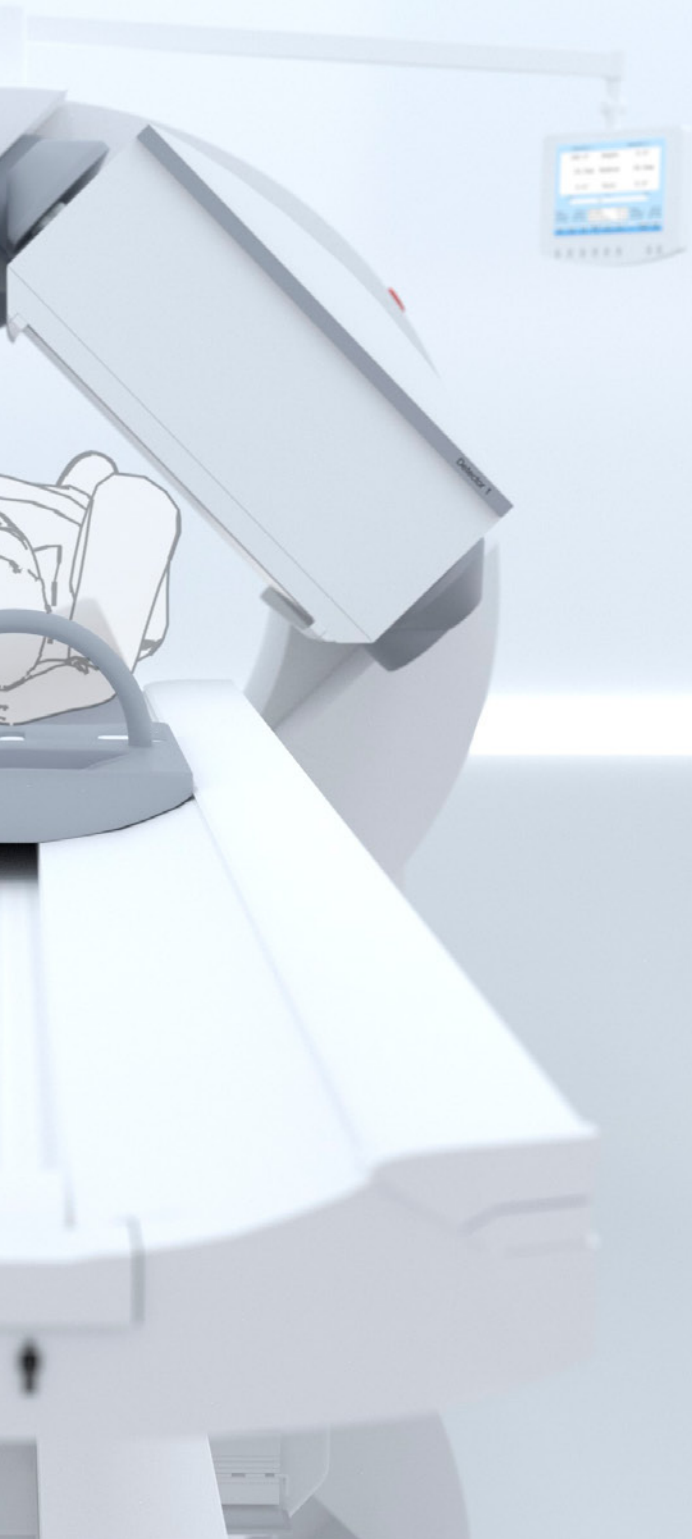
The integrated SCINTRON workstation is the core part of all MiE systems which allows for parallel acquisition and processing of different studies. To fulfill the high demand of network security, SCINTRON runs on the Windows 10 operating system.

UPDATES & UPGRADES

Due to an ongoing development of SCINTRON software, the customer benefits with the latest processing tools according to current medical guidelines.

MiE guarantees 10+ years of spare part availability and service support carried out by MiE engineers or certified partner companies.

MiE medical imaging electronics



TECHNICAL DATA & ACCESSORIES

Detector	Detector Type	rectangular
	Field of View (FOV)	53.3 cm x 38.7 cm (21″ x 5.25″)
	Number of PMTs	59 per Detector
	Crystal Thickness	9.5 mm (3/8″)
	Energy Range	up to 511 keV
	System sensitivity (with LEHR-Collimator)	absolute ≥ 202 cpm/µCi
Positioning	Detector Tilt Range	caudal 90° / cranial 20°
	Detector Rotation Range	-30° to +440°
	Average Autocontour Distance	1.1 cm (0.45″)
Patient Handling System (PHS)	Pallet Width Whole Body	64.8 cm (25.5″)
	Pallet Width SPECT	35.6 cm (14″)
	Maximum Scan Lenght	202 cm (79.5″)
	Vertical Motion Range	48.3 - 110.5 cm (19″ - 43.5″)
Gantry	Weight (incl. LEHR-Collimators)	Single Detector 1120 kg (2470 lbs)
		Dual Detector 1580 kg (3485 lbs)
Collimators	Low Energy	LEHR, LEAP
	Medium Energy	MEGP
	Pinhole	Various inserts available
	High Energy	HEGP
Accessories	Positioning Support	Myocard SPECT
		Brain SPECT
	ECG Trigger	
	Additional Phantoms for Quality Control available	

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