

nova

■ ■ ■ Made In Germany

[mie-scintron.com/ecam](http://mie-scintron.com/ecam)

**ECAM SCINTRON**

DUAL HEAD SPECT

# nova

## ECAM SCINTRON

Gamma camera for SPECT, whole-body, and planar imaging designed for high patient throughput

### SYSTEM HIGHLIGHTS

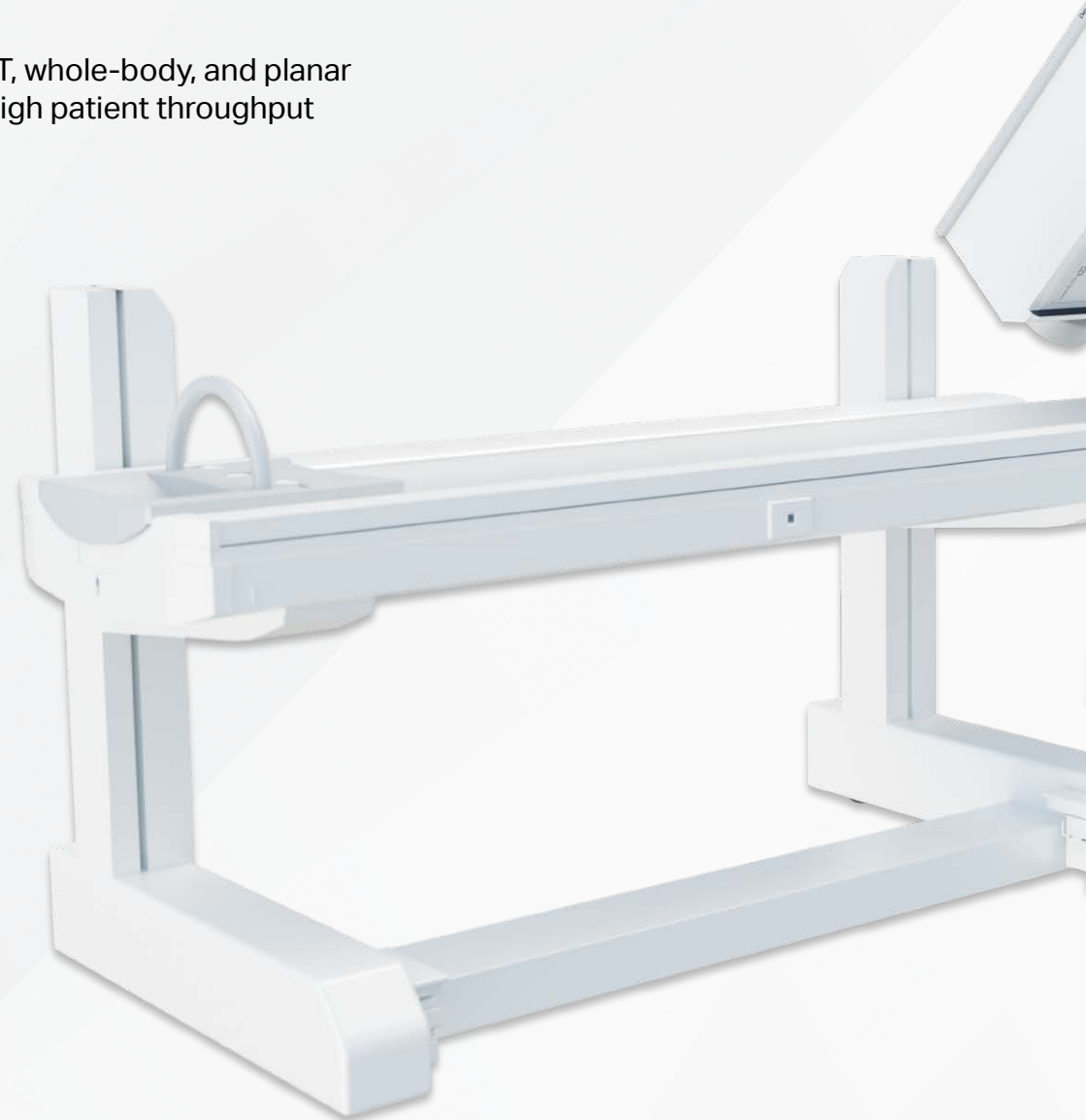
- ▶ Modern touchscreen-based patient positioning
- ▶ Flexible detector configurations: 76°, 90°, and 180°
- ▶ Low power consumption

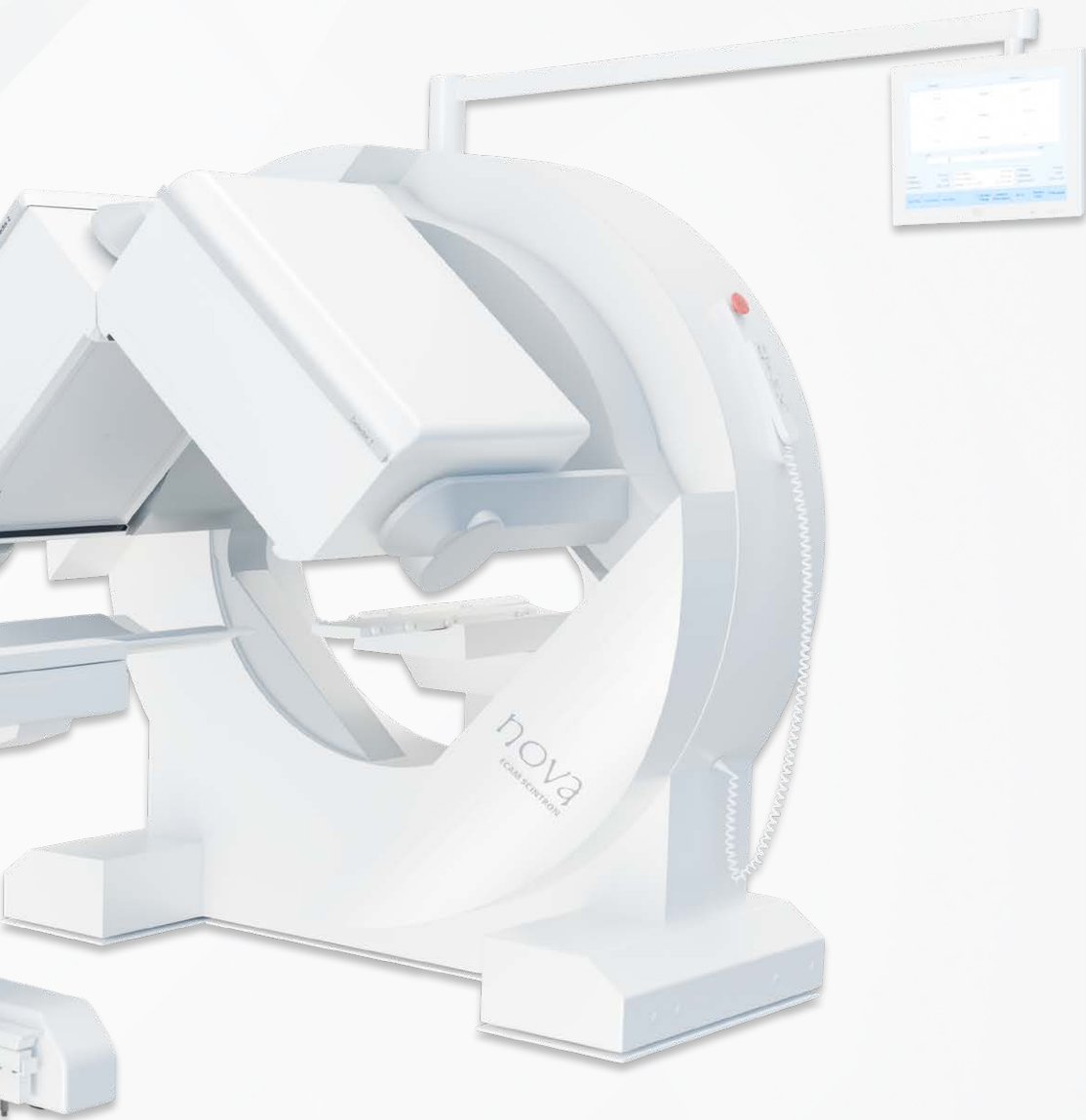
### EASY PATIENT HANDLING

- ▶ Extra-low table position (48.3 cm / 19") for easy access for patients with limited mobility
- ▶ Integrated armrests (no additional parts required) ensure high patient comfort
- ▶ Ultra-thin patient pallet (2.5 mm / 0.1" aluminum) for excellent image quality with only 7% radiation attenuation
- ▶ Integrated touchscreen for convenient patient positioning and camera operation

### OPEN GANTRY DESIGN

- ▶ Detector tilt from 20° cranial to 90° caudal
- ▶ PPM allows to trigger automatic detector movements for a fast work routine





### ADVANCED ACQUISITION SOFTWARE (MIA)

- ▶ Improved user interface dedicated to nuclear medicine
- ▶ Linked protocols for an efficient workflow
- ▶ Fully automated multi-position SPECT
- ▶ Multi-tracer protocols for enhanced clinical versatility
- ▶ Online reconstruction

### FRED 59 DIGITAL DETECTOR

- ▶ High-definition digital detectors delivering excellent image quality with energy-independent performance
- ▶ 59 PMTs per detector for excellent resolution
- ▶ High sensitivity enabling optimized dose and reduced acquisition time
- ▶ Lead shielding for energies up to 511 keV
- ▶ 3/8" NaI(Tl) scintillation crystal
- ▶ Real-time body contouring enables close detector positioning for all acquisitions



# SCINTRON 7 NM

## SOFTWARE HIGHLIGHTS

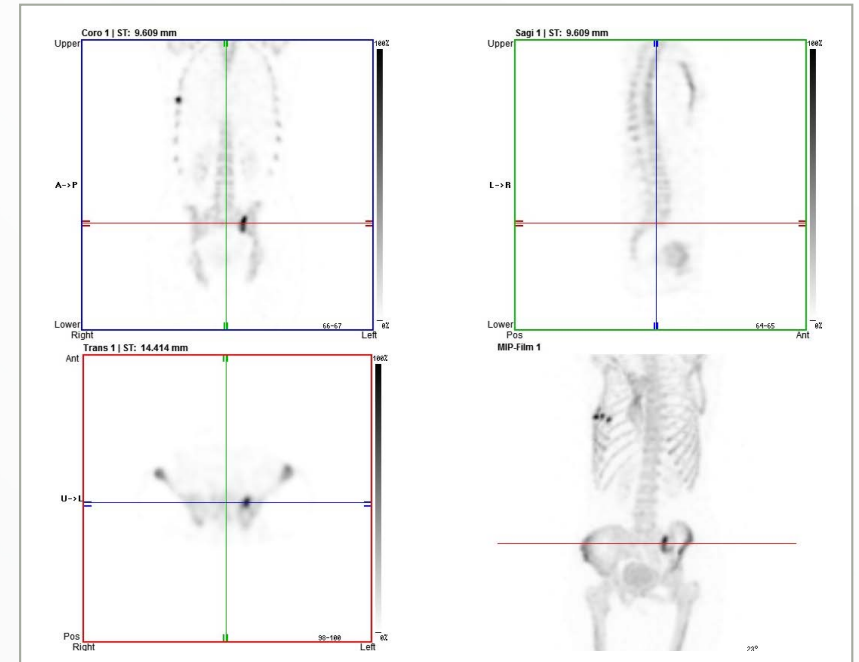
The SCINTRON software contains a wide variety of organ specific processing programs. In addition, general processing tools allow for evaluation of studies customized to your needs.

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.

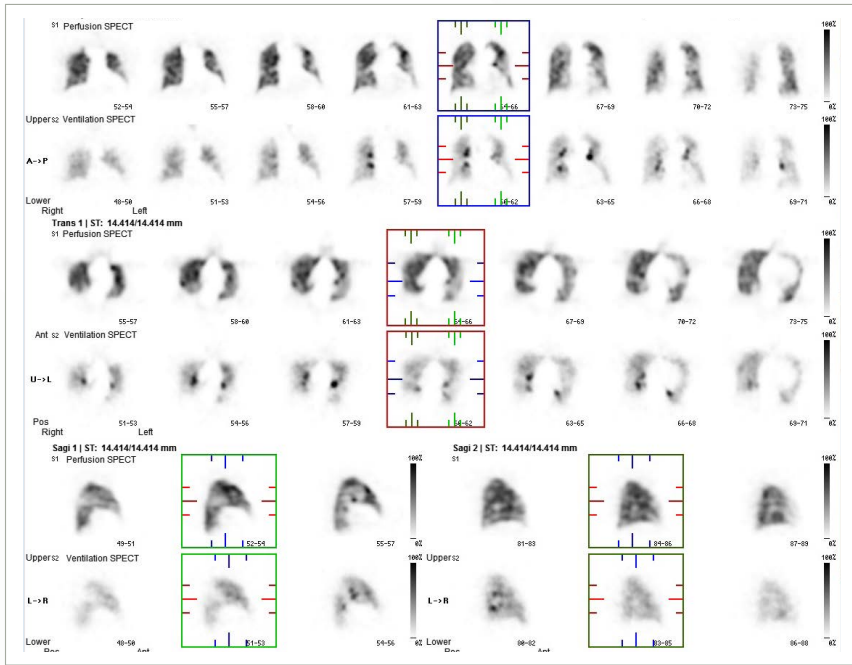
### STATIC AND DYNAMIC ACQUISITIONS

- ▶ 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) for highest reconstructed spatial resolution
- ▶ Flexible slice displays for individual screen layouts
- ▶ Assembling of up to five SPECT acquired in multiple bed positions

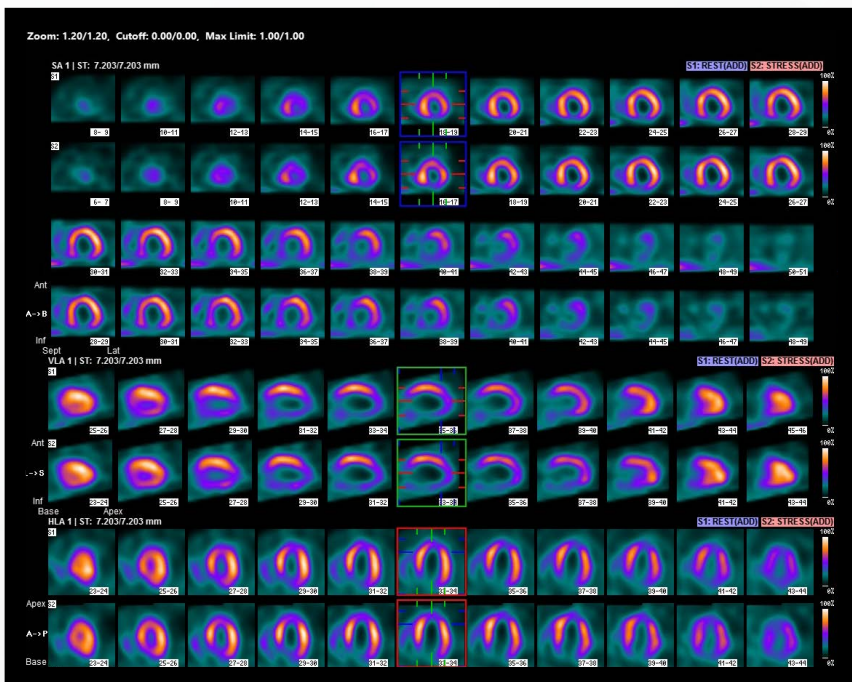
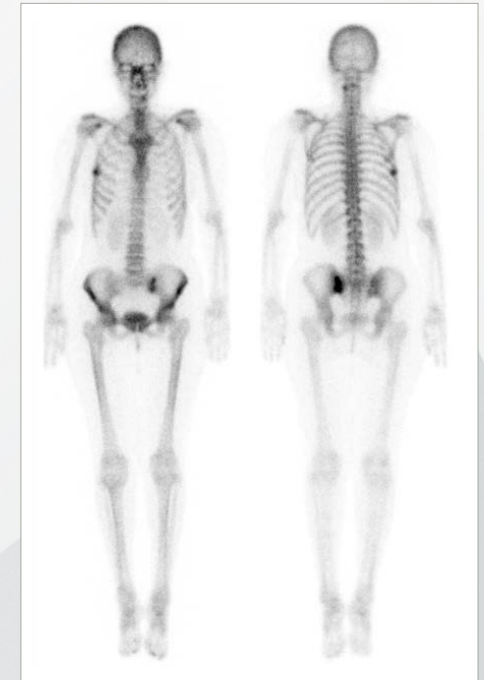


## LUNG

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

## 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



## 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.

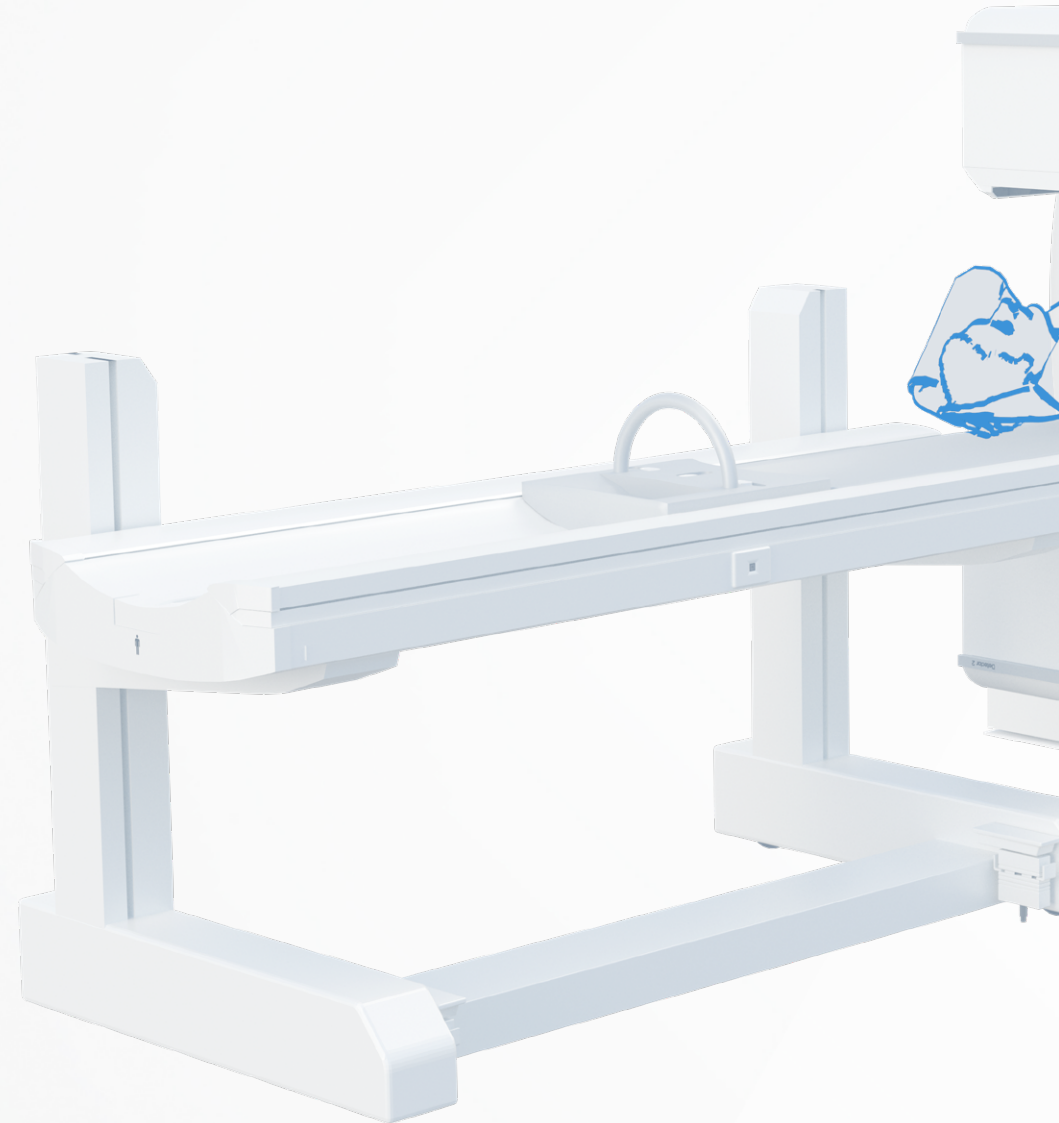
### WINDOWS WORKSTATION

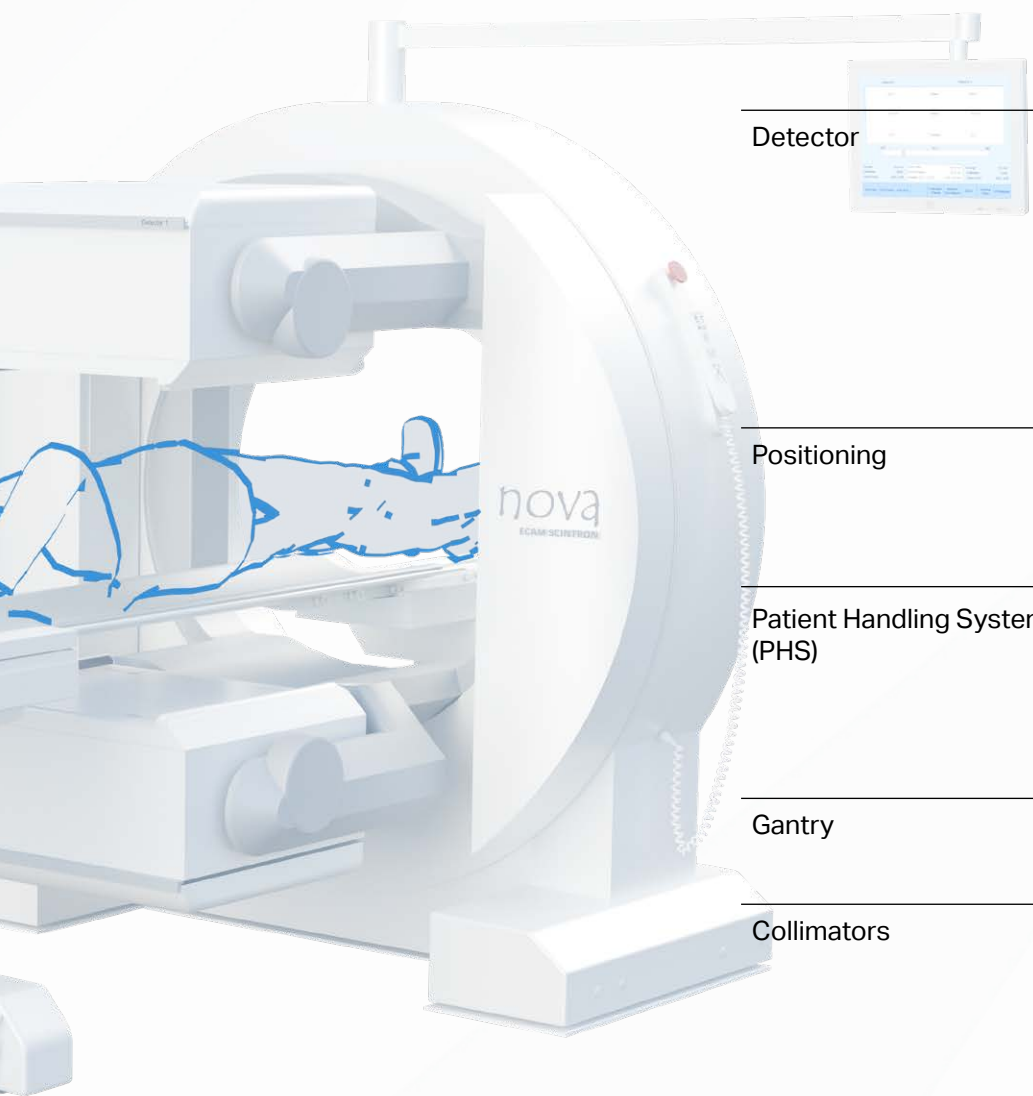
The integrated SCINTRON workstation is the core part of all MiE systems which allows for parallel acquisition and processing of different studies.

### 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.





## 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 $\geq 202$ cpm/ $\mu$ Ci
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 Length	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	



[mie-scintron.com/ecam](http://mie-scintron.com/ecam)



MiE America Inc.  
420 Bennett Road  
Elk Grove Village, IL 60007  
U.S.A

Tel. +1 847 981 6100  
Fax +1 847 981 3232

[mie@mieamerica.com](mailto:mie@mieamerica.com)  
[www.mie-scintron.com](http://www.mie-scintron.com)

MiE GmbH  
Hauptstrasse 112  
23845 Seth  
Germany

Tel. +49 4194 9977 0  
Fax +49 4194 9977 55

[mie@miegermany.de](mailto:mie@miegermany.de)  
[www.mie-scintron.com](http://www.mie-scintron.com)