

## NEUSOFT MEDICAL SYSTEMS



### Neusoft Medical Systems

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**NeuViz Single Slice CT Scanner System**  
Fully realize your diagnostic potential

## Maximizing your return on investment

Medical Products & e-Hospital Solutions



Neusoft designers have incorporated innumerable features into NeuViz to bring new level of image quality, simplicity and reliability to CT imaging, improving outcomes and productivity, maximizing your return on investment.

# Benefits

NeuViz benefits from Neusoft latest achievements in CT technology that leads to clearer diagnoses, faster exams, and higher dose efficiency.

Maximum rotation speed of 0.8 second\* makes it possible to complete a brain study in 10 seconds and a thorax scan in a single breath hold, realizing high-speed, motion-free imaging scanning.

0.8 mm slice thickness\* realizes isotropic imaging, optimizes image quality of coronary / sagittal reconstruction and 3D reconstruction.

0.9 second\* reconstruction, allowing almost real-time display of current examination.

**\* optional**



# New Technology

The NeuViz technology and design with its small and efficient gantry, developed and launched in 2007, has many advantages compared to bulky gantries that were designed years ago.



## DoseSaved Technology

calculates and regulates radiation dose required for different anatomic regions and minimizes X-ray radiation without compromise in image quality.

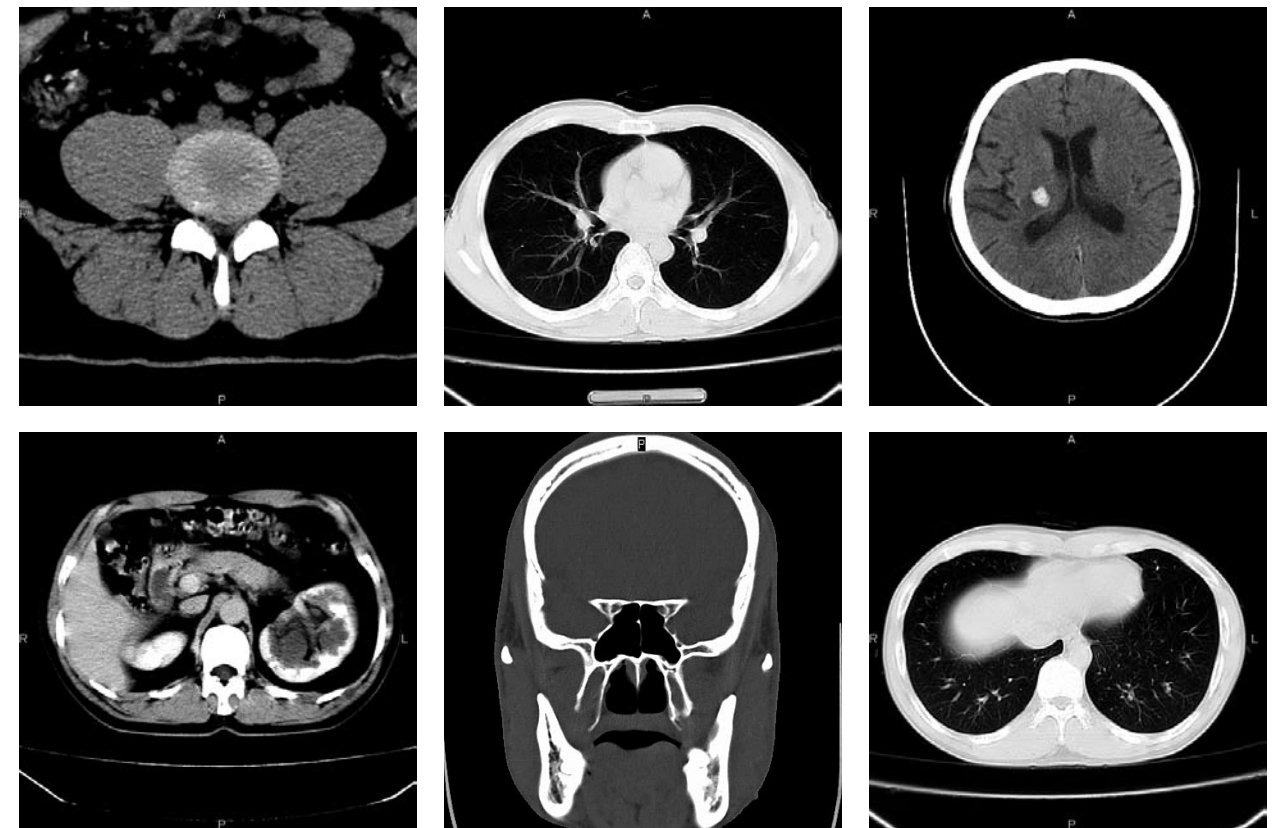
Based on a 1,000 patient study we achieved up to more than 50% dose reduction in comparison with fixed mA while maintaining excellent image quality.

## Artifacts Reduction Technology

- Beam Hardening Compensation
- Motion Artifact Reduction
- Volume Artifact Reduction
- Adaptive Streak Artifact Reduction
- Metal Artifact Reduction
- Lung Intensification
- Advanced Noise Reduction

## Focus Spot Tracking technique

compensates focal spot movement in Z direction due to thermal changes in the tube, and in mechanical forces during gantry rotation and tilting.

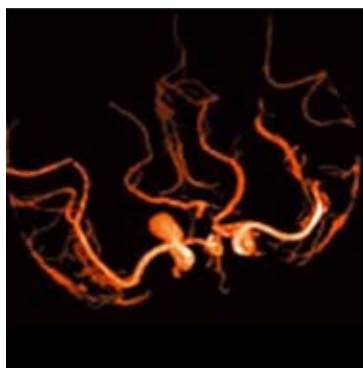
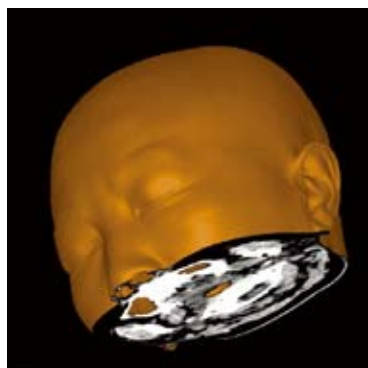
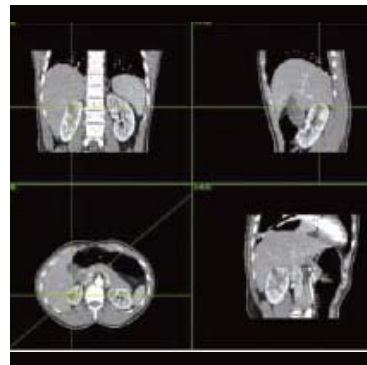
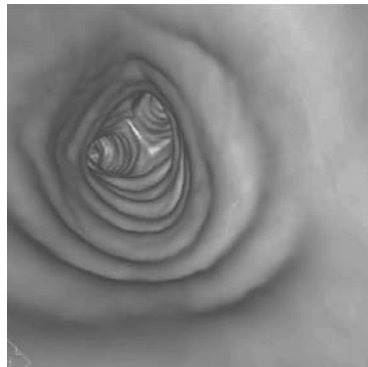


# Outstanding Performance

Multi-Planar Reconstruction  
Curved Multi-Planar Reconstruction  
Maximum/Minimum Intensity Projection

3D- Surface Shaded Display  
Volume Rendering  
Virtual Endoscopy

Pediatric Protocols\*  
Bolus Timing  
CT-Angiography



## Brain Perfusion\*

Delivers quantifiable brain perfusion results to evaluate acute or chronic stroke patient. Capable of evaluating perfusion to improve the ability to characterize known lesions.

## Dental CT\*

Enables fast display and assessment of teeth and jaw structures in true anatomical size. Assist oral surgeons in planning implantation of prostheses.

## Bolus Tracking\*

Monitoring of actual contrast enhancement. Automatically initiates scanning at a predetermined threshold level.



\* optional



# Outstanding Performance

## Unique Applications

### UroCARE

UroCARE, an excellent specialized post-processing workstation of CT images for urologists and physicians, provides flexible image viewing styles and various observation and measurement tools. Therefore, users can view multi-series of CT scanned images conveniently, and meanwhile conduct the image measurements and analysis. Moreover, special designed modules, CT KUB and high-density ROI analysis with creditable post-processing methods, can greatly help physicians to detect the stones in the urinary system. Moreover, it provides a innovative way of getting GFR value from normal contrast CT images to evaluate the function of single and bilateral kidneys.

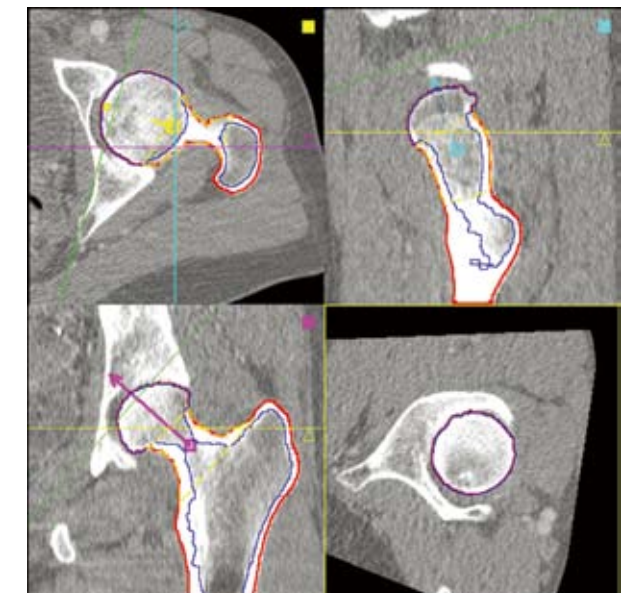
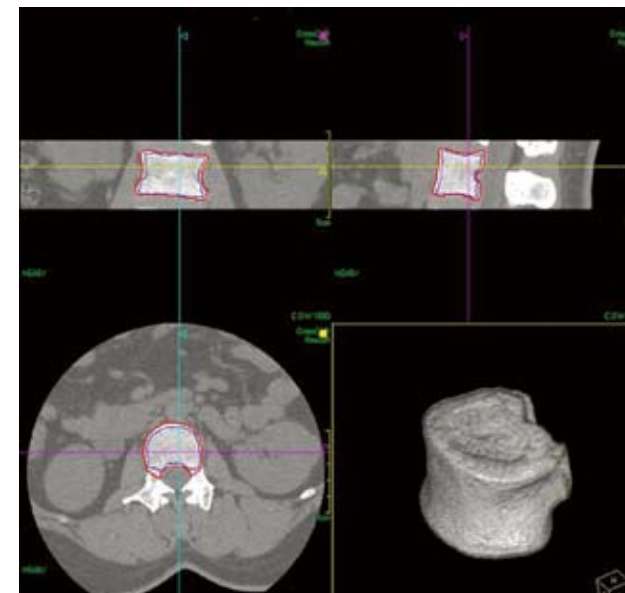
#### Main functions:

- GFR Calculation
- KUB
- High-density ROI
- VR and MIP View



### OsteoCARE

OsteoCARE is a self-contained 3D CAD (Computer Aided Detection) system of BMD (Bone Mineral Density), which is based on standard CT images, and independently runs on personal computer. OsteoCARE essentially can not only visualize the normal CT images which basically show morphological tissue properties, but also the "functional" or "parameter" images that display a different type of information. Comprehensive parameters for both femur and lumber vertebrae can easily assist doctors in diagnosing osteoporosis and evaluating the risk level of fracture. High quality 3D visualization is also available to provide an intuitive view.



## Cost Saving

## Service and Training



### Cost Saving

- 17m2 space requirement
- 1-2 days installation
- High uptime
- Low energy consumption

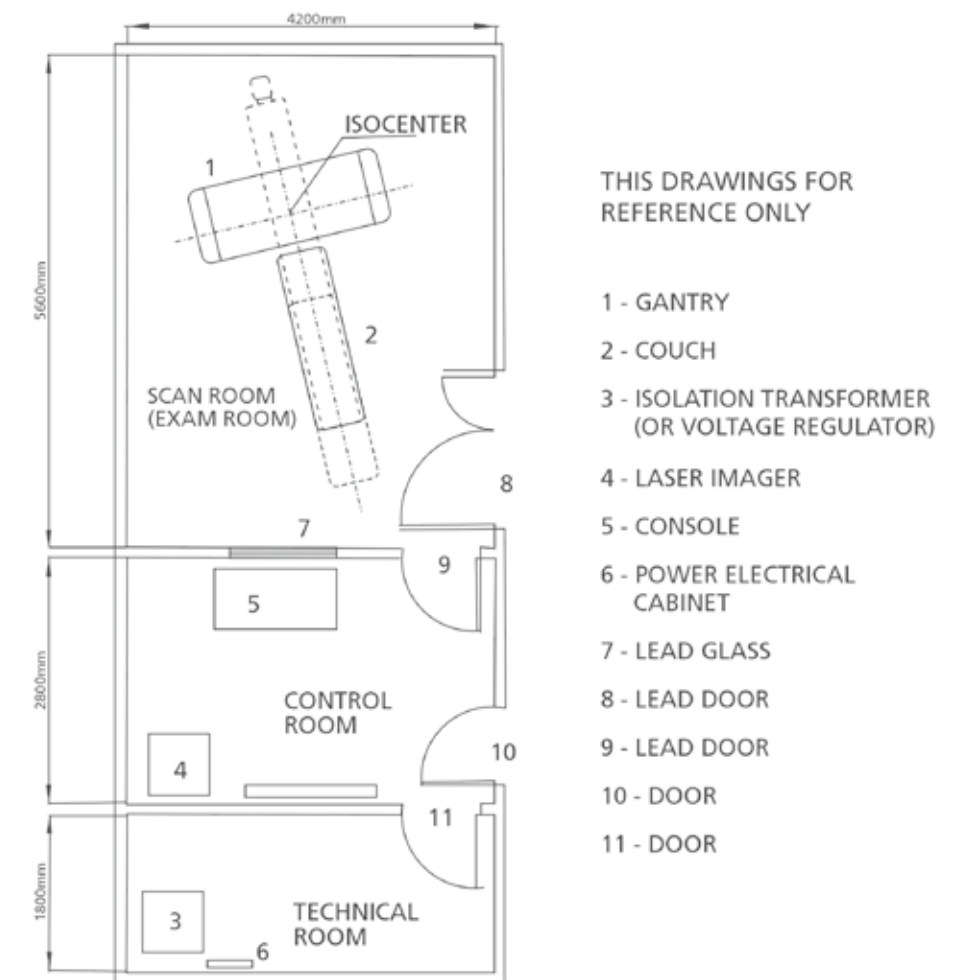
With modern system design and efficient supporting processes, NeuViz establishes a new level of cost-effectiveness in the market. The breakeven point of NeuViz can be reached in a short period of time with only a few patients per day, although, NeuViz can easily complete 50 patients in an 8 hour workday. This represents one of the best patient throughput-to-investment ratios in the market today.

### Service and Training

- Operation training and application training provide face-to-face access to Neusoft engineers and application experts, linking to the latest protocols and training modules, making technologists job easier and doctors' work more efficient.
- Remote Service System links your NeuViz Serie CT scanners directly to Neusoft On-line Service Center for proactive monitoring and maintenance. Services, which formerly required on-site visits, are now available via data transfer.

### Maintenance by Neusoft and Distributors

Through service excellence, flexible solutions and effective relationships, we optimize your clinical and financial results, and give you the support you need to succeed in today's complex healthcare environment.



# Configuration Overview



	<b>NeuViz</b>	<b>NeuViz</b>
	Single Slice CT (L) configuration	Single Slice CT (H) configuration

## Technical Specification

High-quality CT Scanner	yes	yes
Tube Capacity	2.5MHU	4.0MHU
HV Generator	28KW	42KW
Reconstruction speed	0.9S*/1s	0.9S*/1s
mA range	30—200MA	30—300MA
GOS Detector	yes	yes
Rotation speed	0.8*s, 1s, 1.5s, 2s, 2.5s 3s	0.8s*, 1s, 1.5s, 2s, 2.5s, 3s

## Software Options

Pediatric protocols	yes*	Pediatric protocols
DoseSaved	yes	DoseSaved
Dental CT	yes*	Dental CT
Bolus Tracking	yes*	Bolus Tracking
Brain perfusion	yes*	Brain perfusion

## Service Package

Build-in remote service	yes	yes
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- \* optional
- The appearance and specifications are subject to change without prior notice.
- The content in this brochure is based upon typical sites and may vary based on site conditions.

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