



Servicio y Equipamiento *SERQUIP* Cia. Ltda.

NeuViz ACE 64e

Powerful beyond your expectations

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1. Profile of Neusoft Medical Systems



Neusoft Medical Systems Co., Ltd. (Neusoft Medical) is a leading global clinical diagnosis and treatment solution provider. Headquartered in China, with subsidiaries in the United States, United Arab Emirates, Peru, Russia, Brazil, Kenya, Germany, Korea, Thailand and a representative office in Vietnam.

Neusoft Medical is constantly innovating its portfolio of medical imaging diagnosis and clinical solutions in CT, MRI, DSA, XR, PET/CT, RT, US and IVD. Neusoft Medical also is developing MDaaS (Medical Devices & Data as a Service), a strategic product line built using the Internet, big data, artificial intelligence, combined with other technologies improving medical institutions' ability to diagnose and treat patients, achieving operational excellence.

Innovation is always the driving force of Neusoft Medical. The global R&D centers are located in Houston, Seoul, Beijing, Shanghai, Shenyang, Guangzhou and Nanjing. Neusoft Medical is collaborating with global scientists and medical institutions dedicated to advancing the technology of medical imaging solutions.

Together with 45,000 installations in more than 110 countries, Neusoft Medical provides advanced, high-quality medical imaging solutions to patients around the world.

Neusoft Medical is dedicated to becoming an excellent value innovator of global healthcare services. Through innovation and excellent operations, Neusoft Medical Systems is advancing healthcare products across a wide range of medical solutions and services to enhance global healthcare to all.

2. Overview

Technology is always advancing. There are always new and better ways to get greater clinical performance. As a flagship member of the NeuViz CT family, the ACE series always goes ahead. The launch of NeuViz ACE 64e further cements the experience as a critical component of health care around the globe.

With the advanced ACE platform, NeuViz ACE 64e integrates the advanced design languages into the robust tube and A-STAR Detector from patient-friendly workflow, which offers groundbreaking technology. Users can now enjoy exceptionally high image quality along with the expansive possibilities, without fear of clinical difficulties and keep up with future trends.

NeuViz ACE 64e features an intelligent imaging system that provides outstanding performance and delivers AI-empowered solutions for anticipated outcome and research.

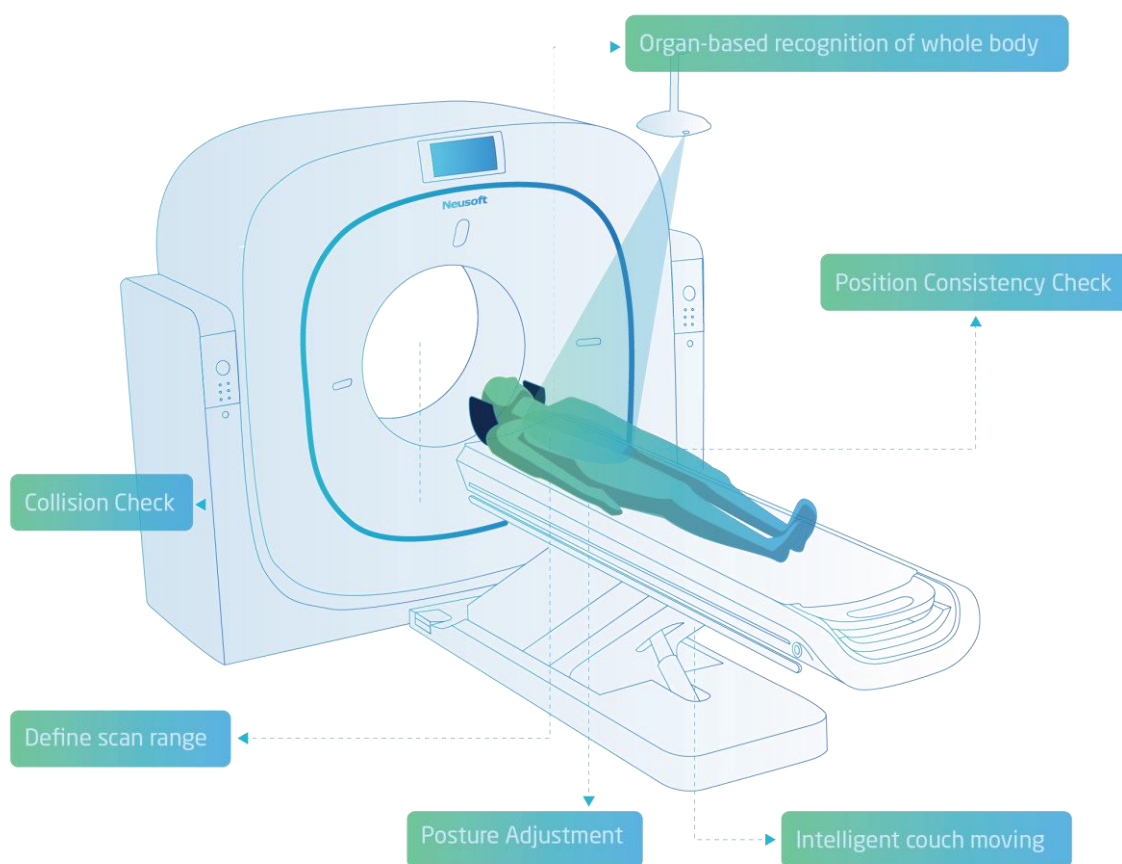
3. NeuAI Platform

Accurate and efficient position workflow empowered by AI

NewViz ACE 64e discover radiology workflow the way it is meant to be, applies artificial intelligence (AI) at every step in the CT imaging process to expand technological possibilities, focus at precision imaging, simplify complex procedures, and raise clinical standards.

It delivers smart workflows from image acquisition through reporting with AI-enabled image reconstruction, automated patient positioning, smart surview capture, to drive precision in dose, speed, and image quality.

3.1 NeuAI Position: precise positioning experiences



Accurate patient positioning is essential for error-free CT imaging. Re-scanning would be necessarily indeed and somehow the less accurate imaging and unsatisfied results would be bottlenecks that trouble the technologists.

With our Intelligent positioning workflow, NeuAI Position acquire the right body region at the right dose. With AI-enabled camera, it plans the scanning fast and efficiently through the intelligently identify of specific anatomical landmarks. the patient orientation is automatically selected.

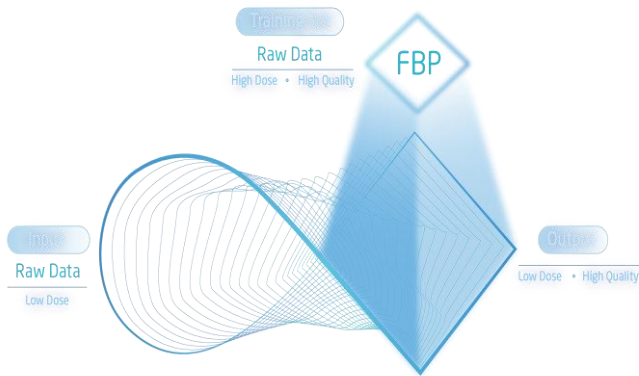
The intelligent workflow calculates optimal table height for vertical iso-centering and automatically displays the surview start and end positions with no need for additional manual adjustment. Then the table is moved to the optimal location with only one single click.

3.2 NeuAI Scan: Precise range-selecting

Automatically selects scan range based on target organ, requiring a lower radiation dose without missing or over scanning. Focus your patients into center adapting to each patient’s type, achieving the best imaging location without double check.

AI-enabled workflow is designed to increase positioning accuracy and user-to-user consistency in a fraction of the time and to support operators at the point of image acquisition for greater efficiency.

3.3 NeuAI Recon



ClearInfinity, as a state-of-art technology, is a new approach to CT image reconstruction in the clinical routine using deep learning (DL) as a method of artificial intelligence. It balances the ultra-low dose and excellent image quality in the clinical context, and results to an outstanding result with high resolution.

3.4 NeuAI CAD*

It is an effective tool for automatic nodule detection and analysis, giving quantitative information about size, shape, along with tracking pathological changes over time. It enables:

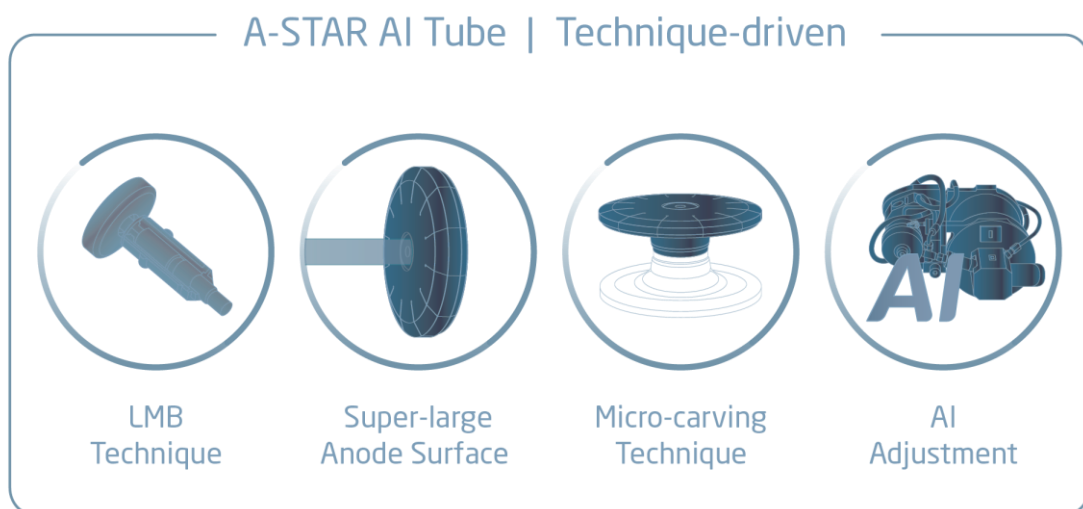
- Qualitative Analysis
- Hazard Ratio Estimation
- Structured reporting
- Follow-up comparison

4. Enhance Hardware Platform

NeuViz ACE 64e offers the best stabilizing and efficient performance of the entire ACE series so far at an incredibly hardware platform.

4.1 A-STAR technique-driven Tube

NeuViz ACE 64e incorporates 19MHU built-in powerful tube with an internal energy efficiency system, enabling quick and easy improvements in efficiency. These design features aim to match and fulfill the optimal economic performance of long tube life.



- LMB

Low Noise- not solid metal bearings, no audible noise

Long life- three times longer than ball bearing tubes

LMB Tube vs Traditional Ball Bearing Tube

	LMB	Ball Bearing
Wear off	High Reliability / virtually no wear	Wear off/ risk of binding and jamming
Noise	Low Noise / No contact of bearing and shaft	Noise and Vibration
Heat up rate	slow	fast

- Super-large Anode Surface
The Anode was enlarged to realize much higher heat storage
Slow down the speed of temperature rise
- Micro-carving Technique
Prevent thermal expansion and deformation
- AI Adjustment
Immediate start-up, Warmup- free

4.2 A-STAR Detector

When the compact detector combines with its powerful stabilization capabilities, complex hardware performance that used to be very costly to achieve are now easily attainable.

- Powerful stabilization capability with the width of 24mm
Reduce the time patients hold their breath
Reduce breathing artifacts
- Exclusive Technology
Low noise and low power consumption
High sensitivity
high heat dissipation and high stability

4.3 Super-strong Scanning Capability

- ✓ Stress from high patient load
The intelligent Tube with 19MHU effectively respond to challenges of Stress from high patient load
- ✓ Damages caused by the operation of frequent preheating
The tube is designed with warmup- free function, effectively reduce the preheating frequency, which is a new way to protect the X ray tube
- ✓ Emergency cases
It enables the scanning as soon as you turn the system on, further supporting throughput and making it easier to accommodate emergency department patients

5. Exclusive Care Design

5.1 Dose-perfect scanning

Our NeuAI Positioning is designed for a Fast and precise patient positioning. The Organ-based recognition of whole body, such Precise positioning enables accurate and dose-perfect patient scanning experiences. The Automatically selection of the scanning region enables a lower radiation dose without missing or over scanning.

5.2 New approach to managing dose and image quality

ClearInfinity, as a state-of-art technology, is a new approach to CT image reconstruction in the clinical routine using deep learning (DL) as a method of artificial intelligence. It balances the ultra-low dose and excellent image quality in the clinical context, and results to an outstanding result with high resolution.

5.3 More care delivered

NeuViz ACE 64e encompasses a set of techniques, programs and practices based on the ALADA (as low as diagnostically acceptable) principle to support perfect image quality at low dose.



5.4 Portable mate

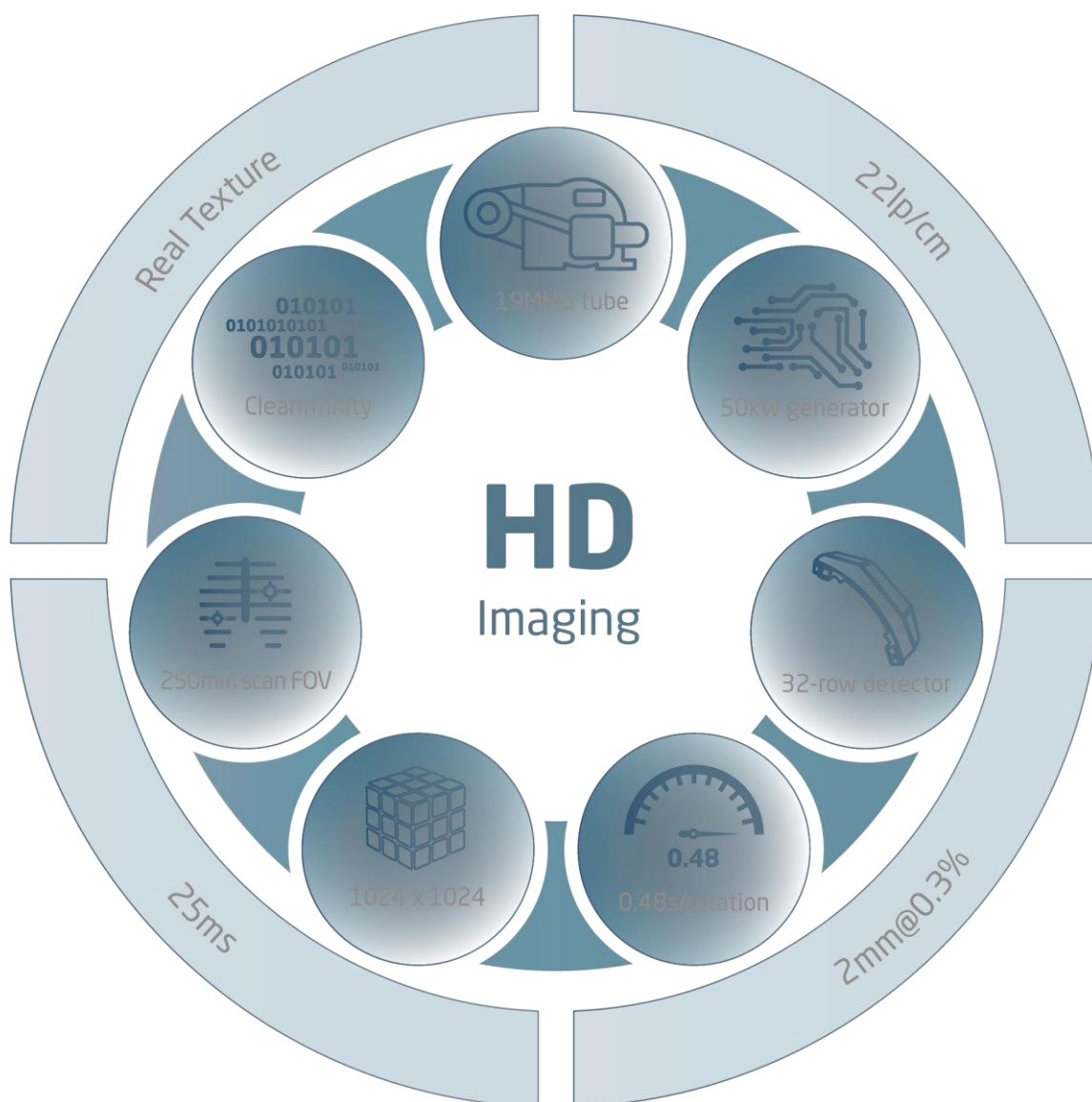


It becomes easier to deliver patient care for NeuViz ACE 64e with the design of our remote tablet, A- Touch. The dedicated modules mounted to NeuViz ACE 64e can help you achieve wireless control, making it especially convenient for solo operators, which delivers a kind and thoughtful process that improves patient cooperation and experience.

6. Extreme HD Imaging

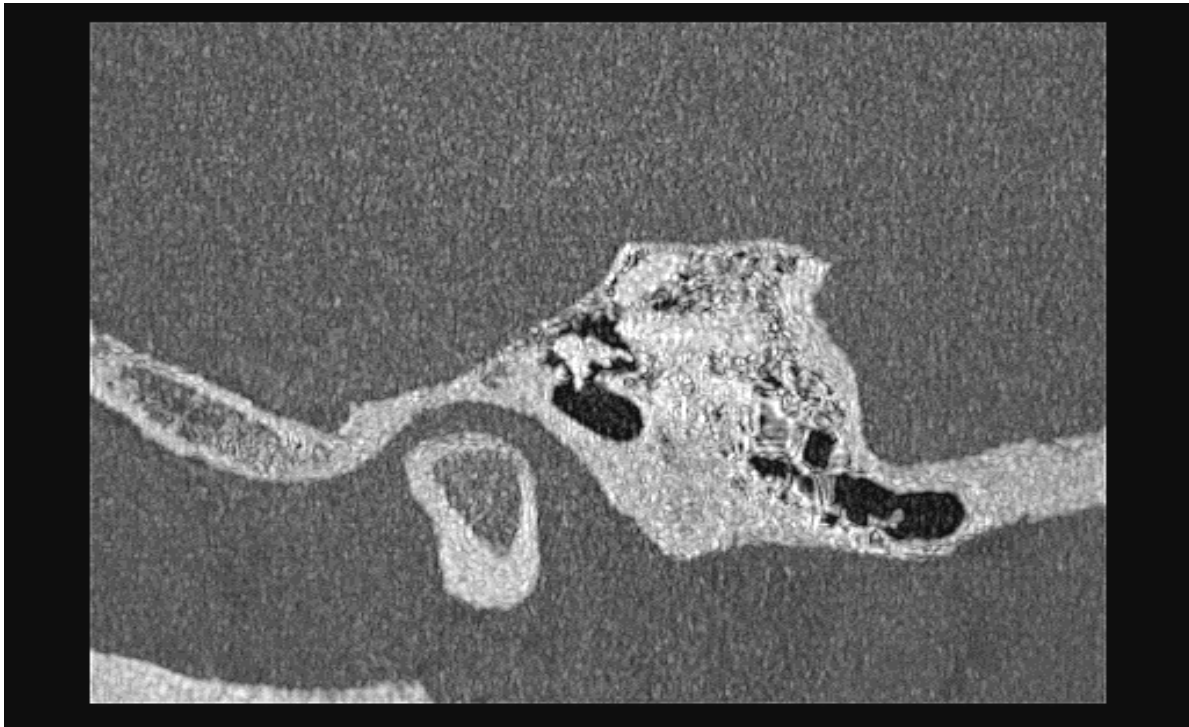
Precision medicine has become the next goal for the global healthcare industry. A series of industry leading technology in data acquisition and interpretation are integrated in NeuViz ACE 64e to achieve unprecedented high spatial resolution, 22lp/cm, to provide more accurate information for patient care.

The HD Imaging can display and observe more details of lesion images, providing a reliable basis for early detection



High Resolution Inner Ear Imaging

Coronal and axial multiplanar reformation shows the small structures of the inner ear such as cochlea and semicircular canals

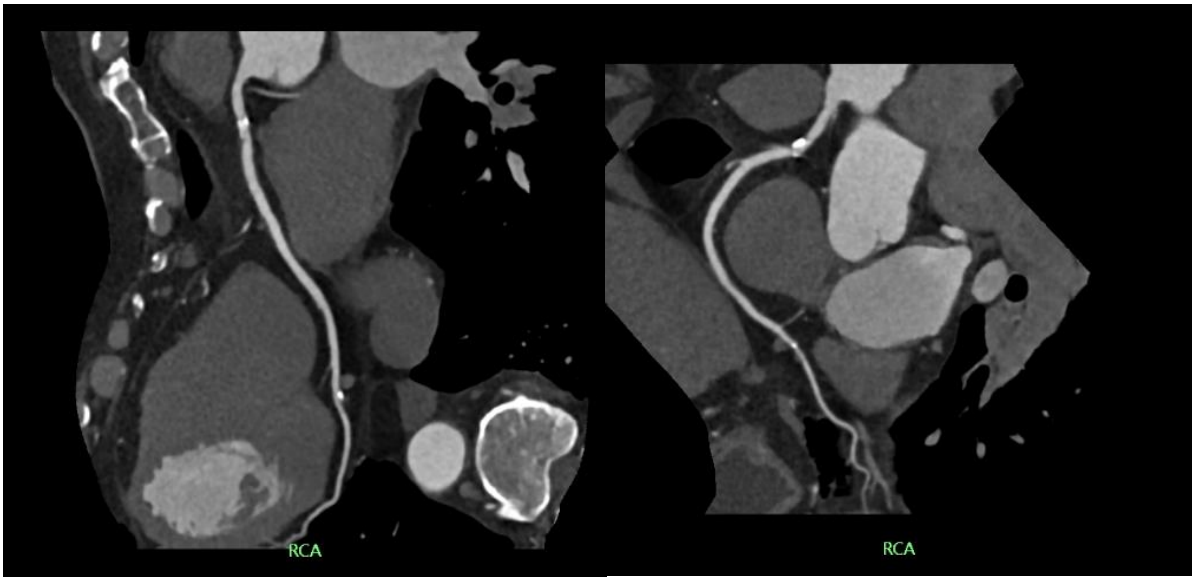


Inner ear

7. Excellent Clinical Performance

7.1 Cardiac Imaging

For cardiac detection, NeuViz ACE 64e capture high-quality images of heart with the rotation speed as short as 0.48s, and a series of artifact correction function makes 25ms temporal resolution possible.



Most importantly, for the cardiac detection, our CMC, corrects for motion in cardiac images to improve image quality at high heart rates, arrhythmia Handling, multi-cycle adaptive reconstruction, intelligent phase selection, fully overcome the challenges of cardiac imaging.

7.1.1 Coronary Motion Artifact Clear*

The latest algorithm can correct cardiac motion artifacts based on the modeling of coronary vascular motion tracing, which offers accurate cardiac imaging and significantly improves the temporal resolution

7.1.2 Prospective Scan

The NeuViz ACE 64e can support ECG-Triggered prospective cardiac imaging with cardiac acquisition at the end of diastole.

7.1.3 Retrospective Scan

In each cardiac cycle, acquisition is continuous, with simultaneous ECG-Tracking to obtain data. However, tube current would be largely reduced at systole and beginning of diastole to optimize patient dose.

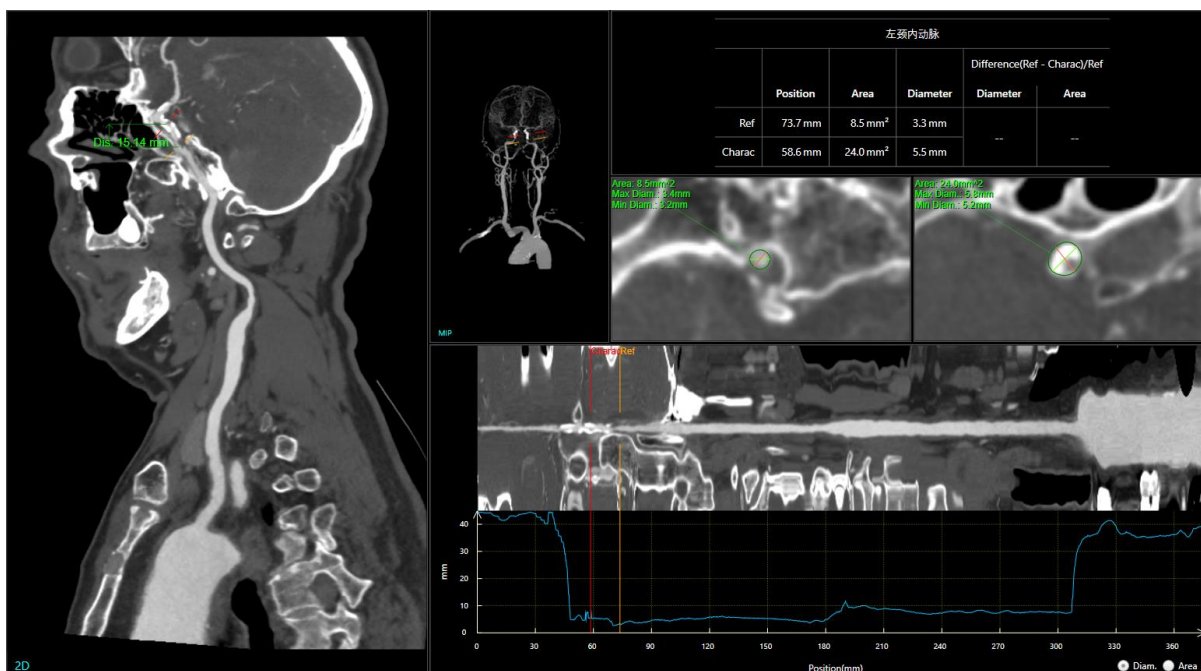
7.1.4 Arrhythmia Handling*

Arrhythmia Handling will deal with abnormal R wave, which is not considered to trigger R wave during scanning.

7.1.5 Fast and efficient post-processing application tools

- Cardiac Calcium Score*
- Cardiac Coronary Analysis*
- Cardiac Function Analysis*

7.2 Carotid CTA



7.3 Liver Perfusion*

Liver Protocol, Display the following images:

tMIP: time Maximum Intensity Projection Average image

CBF: Cerebral Blood Flow

TTP: Time to Peak

HAP: Hepatic Artery Perfusion

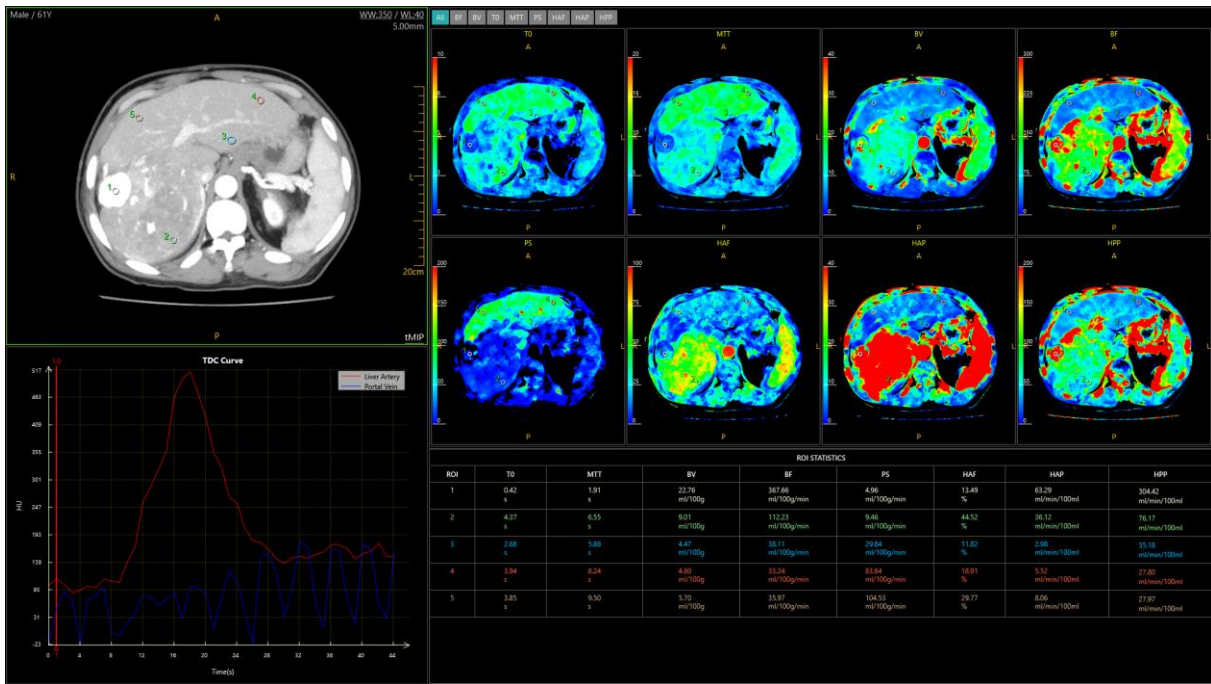
HPP: Hepatic Portal Perfusion

HPI Hepatic Portal Perfusion Index

HAI: Hepatic Artery Perfusion Index

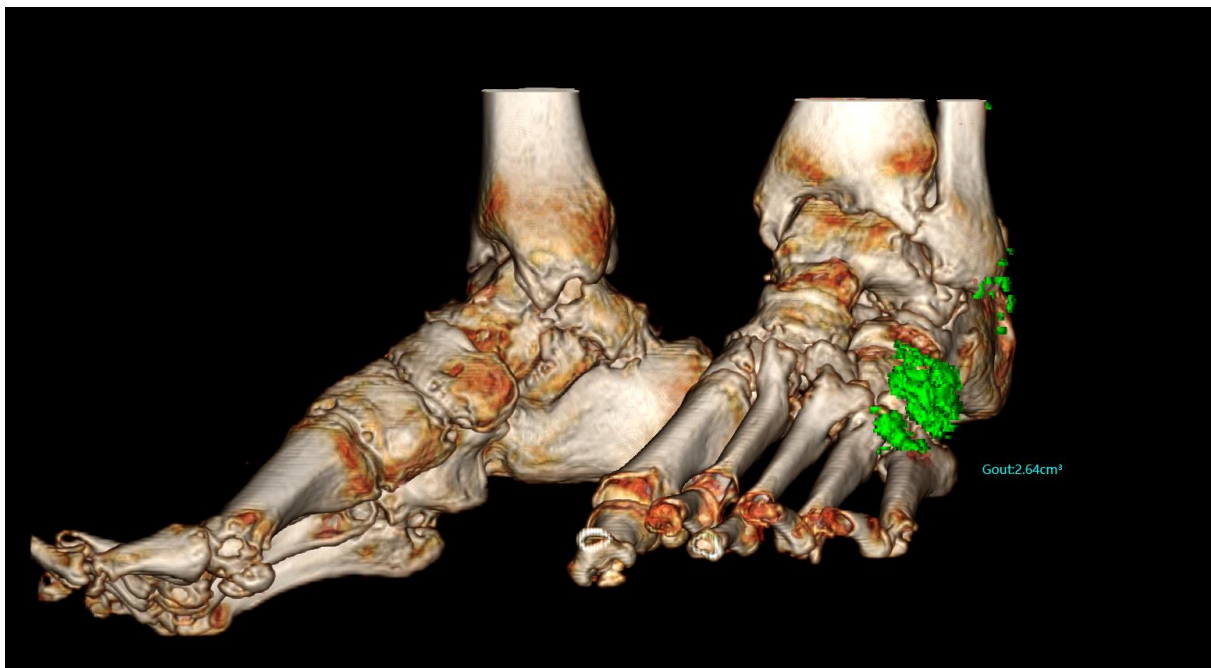
TLP: Total Liver Perfusion

It is used for function analysis as well as for monitoring and planning interventional and radiation therapy procedures.



7.4 Prism*

We see CT closing the gap between anatomical and functional imaging thanks in part to the advances in spectral CT. The introduction of Spectral Imaging on NeuViz ACE 64e is changing the way radiologists across the globe utilize CT imaging in clinical practice, such as goat analysis



8. Featured Parameters

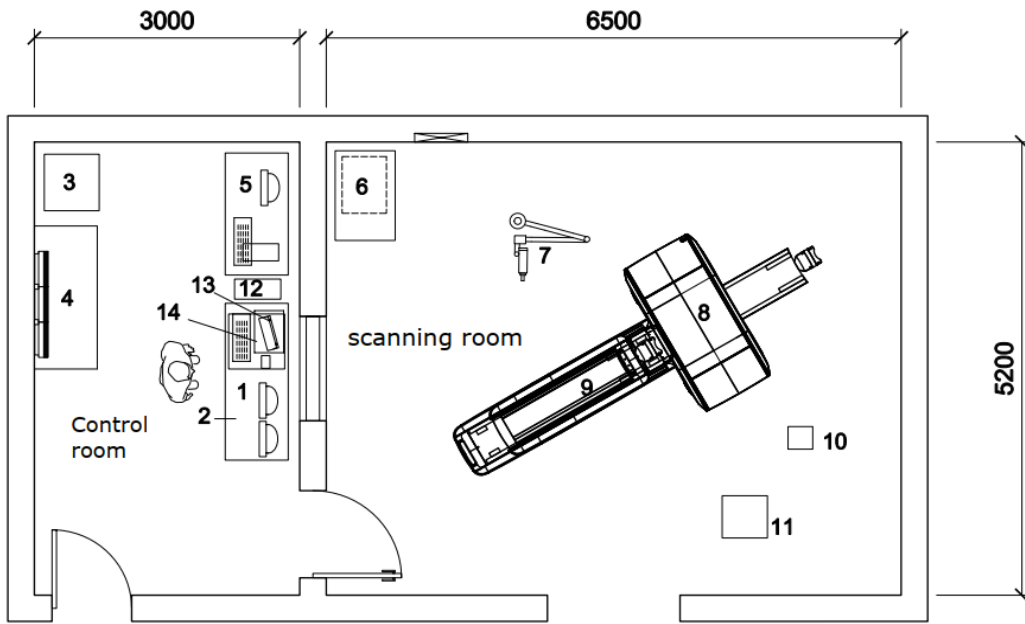
Rotation Time	0.48 s
Heat Capability	19 MHU
Detector Rows	32 rows
Slices	64 slices acquired, 230 slices reconstruction*
Detector Coverage	24 mm
AI Recon Technique	ClearInfinity
Spatial Resolution	22 lp/cm



*Helical

9. Site Planning

Preferred room layout



Medium room layout

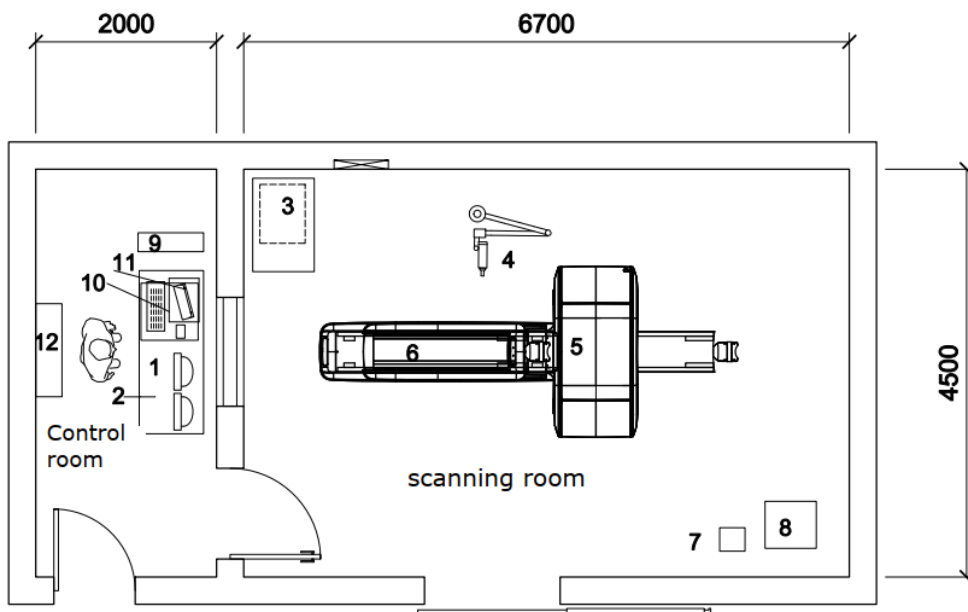


Figure9: Medium Room Layout(mm)

10. Neusoft Global Service Coverage

Neusoft Global Service & Logistics Network



Global logistics network, prompt response regarding parts and supplies.

10 overseas subsidiaries in Russia, M.E., MENA, USA, Brazil, Peru, Kenya, Germany, Thailand, Korea.

1 overseas office: Vietnam office.

3 global training center in USA, Kenya and Peru.

13 overseas spare parts centers in Dubai, Uzbekistan, USA, Peru, Brazil, Viet Nam, Philippines, Russia, Kenya, France, Tunisia, Thailand, Egypt.

16 overseas service centers in France, Dubai, Egypt, Nigeria, Kenya, Tanzania, Russia, Uzbekistan, USA, Peru, Brazil, Thailand, Viet Nam, Philippines, Ecuador, Senegal.

* option, Specification are subject to change without notice.