



Servicio y Equipamiento SERQUIP Cia. Ltda.

NeuViz ACE UP

UP, stands out

2023.04.24

To be an excellent value innovator of global healthcare services !



Neusoft Medical Systems

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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. Production Introduction

Medical health care never advances just by staying put. For over 20 years, Neusoft Medical Systems has kept showing outstanding results in improving the medical institution's ability to diagnose and treat patients, achieving operational excellence. Forge ahead or fall behind. NeuViz ACE UP will help you come to the fore.

Built on the intelligent workflow with simple and easy tablet operation, it provides medical staff and patients with a flexible and comfortable examining environment. For precise performance in your work, AI-based cutting-edge accurate results help you quickly diagnose in clinical routine. Strong capabilities can be fully integrated into the diagnosis workflow to support all your patients' needs. You can stretch yourself to get the most out of your budget with industry-leading design, of which high-end technology will ensure low cost and reward you with constant business growth.

It is time to all-round upgrade your medical imaging assets to an intelligent 64 slices CT – NeuViz ACE UP!

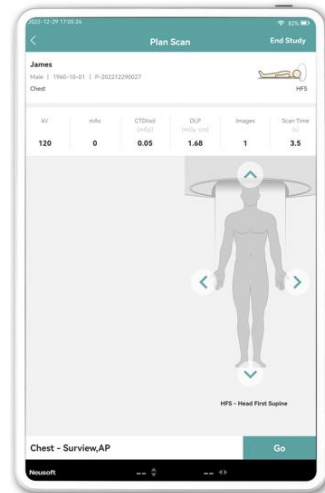


2.1 Automatic Workflow Up

The newly designed intelligent workflow, empowered by AI, performs secure, accurate and efficient scanning, demonstrating the extraordinary performance of ACE UP.

Focus-Make your patients comfortable

Patient Registration
Protocol Selection automatically



Accurate-Better scan standard

Organ-based recognition of whole body
Intelligent couch moving
Define scan range

Fast-Simplify workflow steps

Collision Check
Posture Adjustment
Position Consistency Check



Care-
Intelligent dose
minimization

- **I-centering**
- **Auto FOV**
- **Auto kV**
- **Dose Modulation**

Easy-
Increase post-
process
efficiency

- **Cardiac**
- **Lung**
- **Oncology**
- **Vessel**
- **Brain**
- **Dental.....**

Quick-
Save processing
time

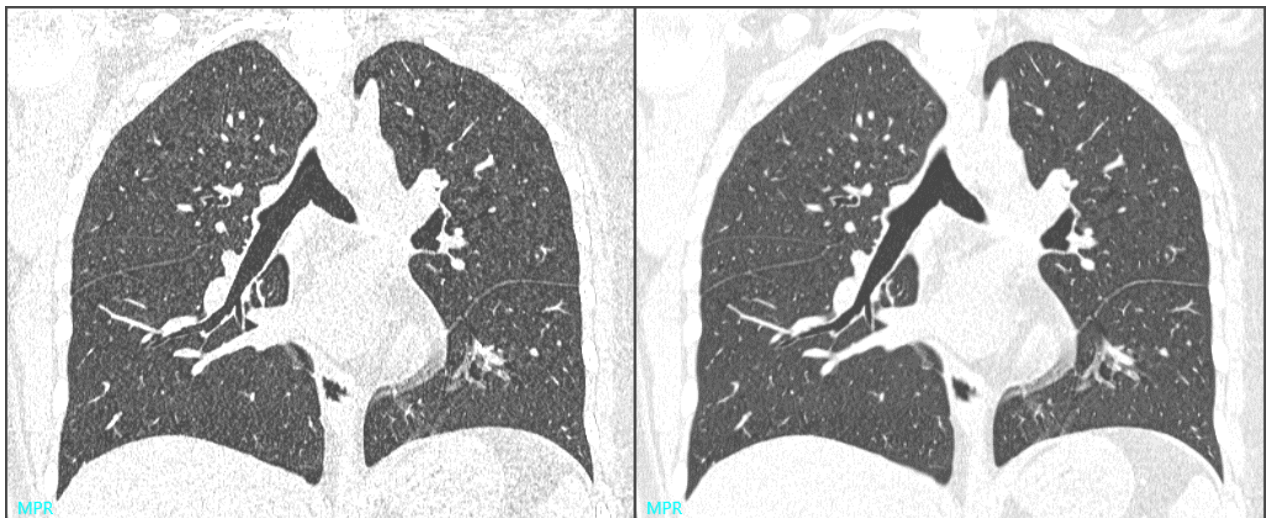
- **One-click upload**
- **One-click removal**
- **One-click naming**
- **Report**
- **Film**

2.2 Clinical Performance Up

2.2.1 AI reconstruction-ClearInfinity



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 delivers outstanding results with high resolution.



FBP

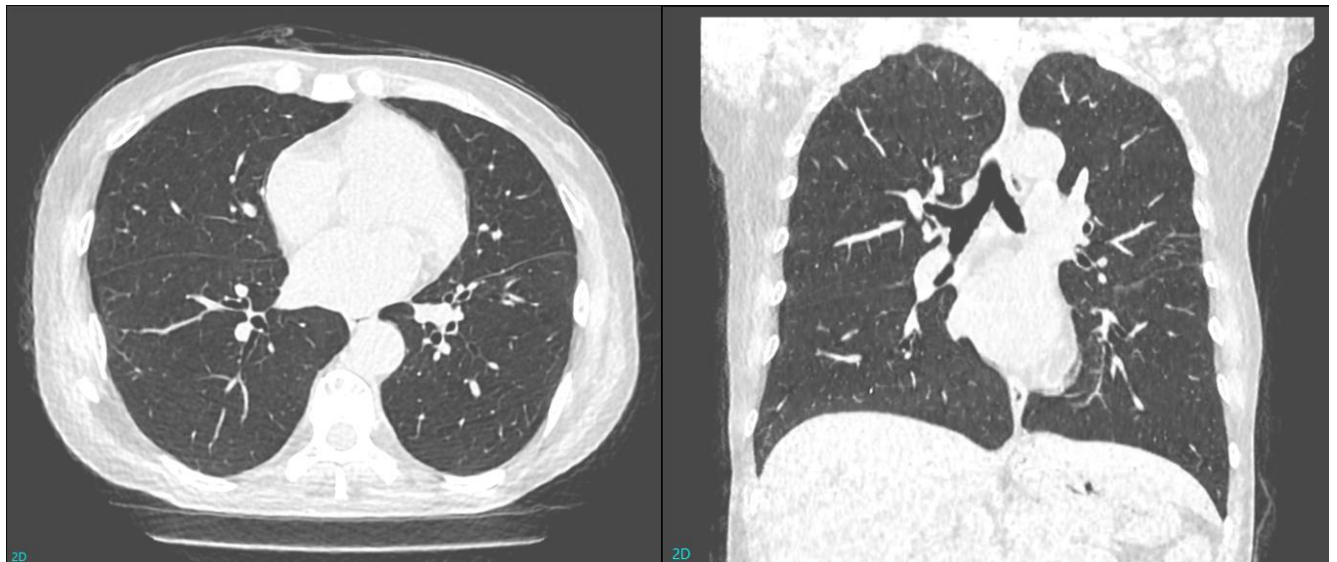
ClearInfinity

Excellent Clinical Routine

60kV Lung scanning

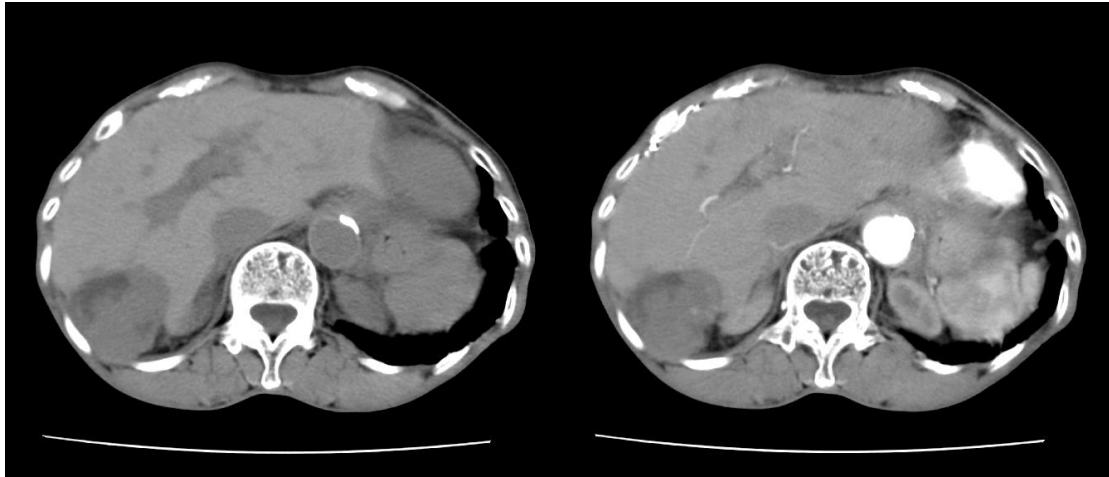
60kV provides clinical breakthroughs on low dose scanning, with the most advanced image reconstruction algorithm. Lower radiation dose is achieved without compromising to image quality. It's significantly beneficial to pediatrics, lung cancer screening and renal failure patients.

60 kV, 240 mA, ClearInfinity, Scan length: 190 mm, CTDIvol: 0.3 mGy, DLP: 5.7 mGy*cm, Effective dose: **0.08 mSv**



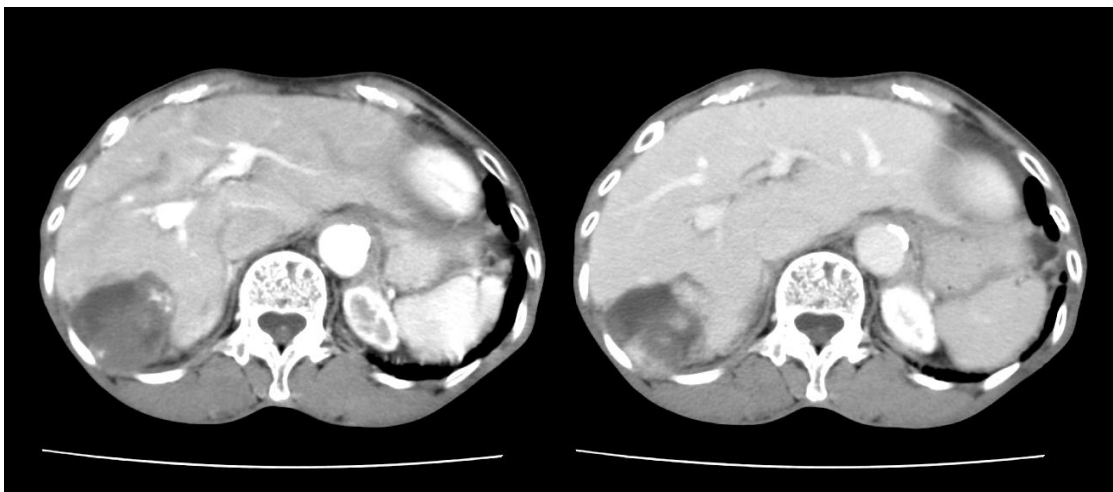
Abdomen scanning

Thanks to the power scanning capability, NeuViz ACE UP makes abdominal multiphase contrast enhanced scan easier. The occupying on upper right lobe of liver is shown detailed in different phases.



Plain scan

Arterial phase



Venous phase

Delay phase

Carotid CTA

With professional vessel analysis application, we can detect the severe stenosis, the number of diameter and area are helpful to the doctor diagnosis. Auto bone removal allows vessels separation from bone in head neck, chest abdomen, lower limb and even bone fragment with only "one click".



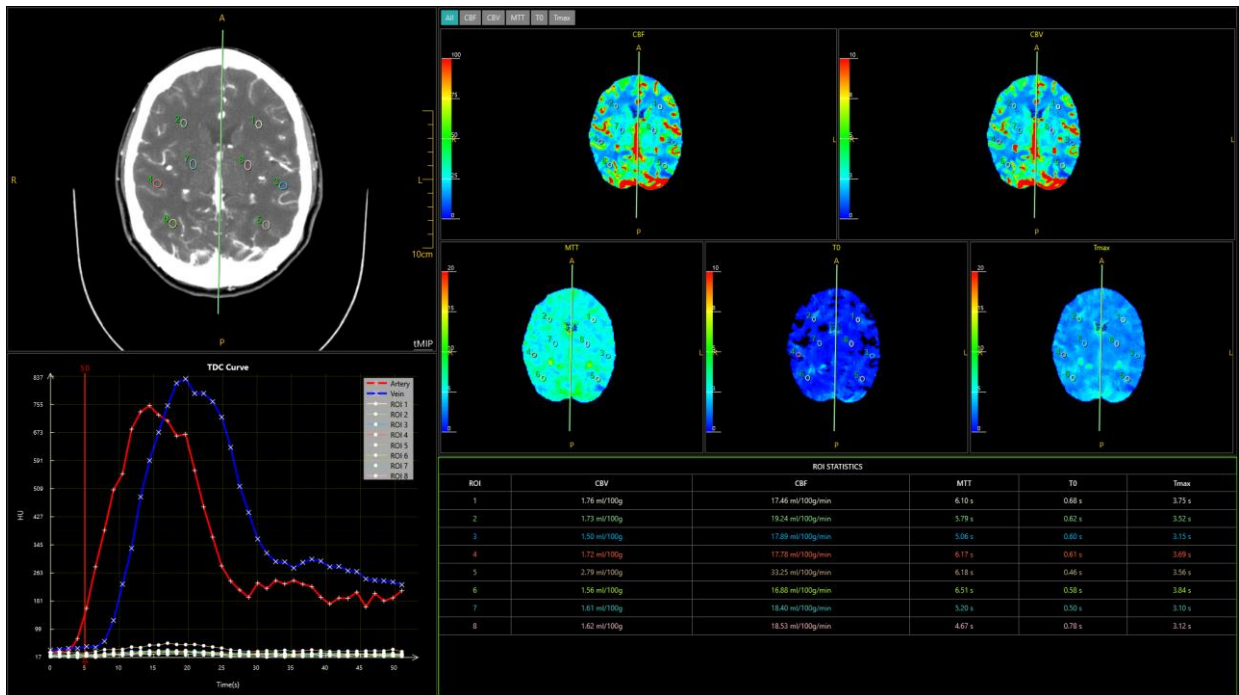
Brain Perfusion*

Brain Perfusion is a blood flow imaging application.

It has the following features:

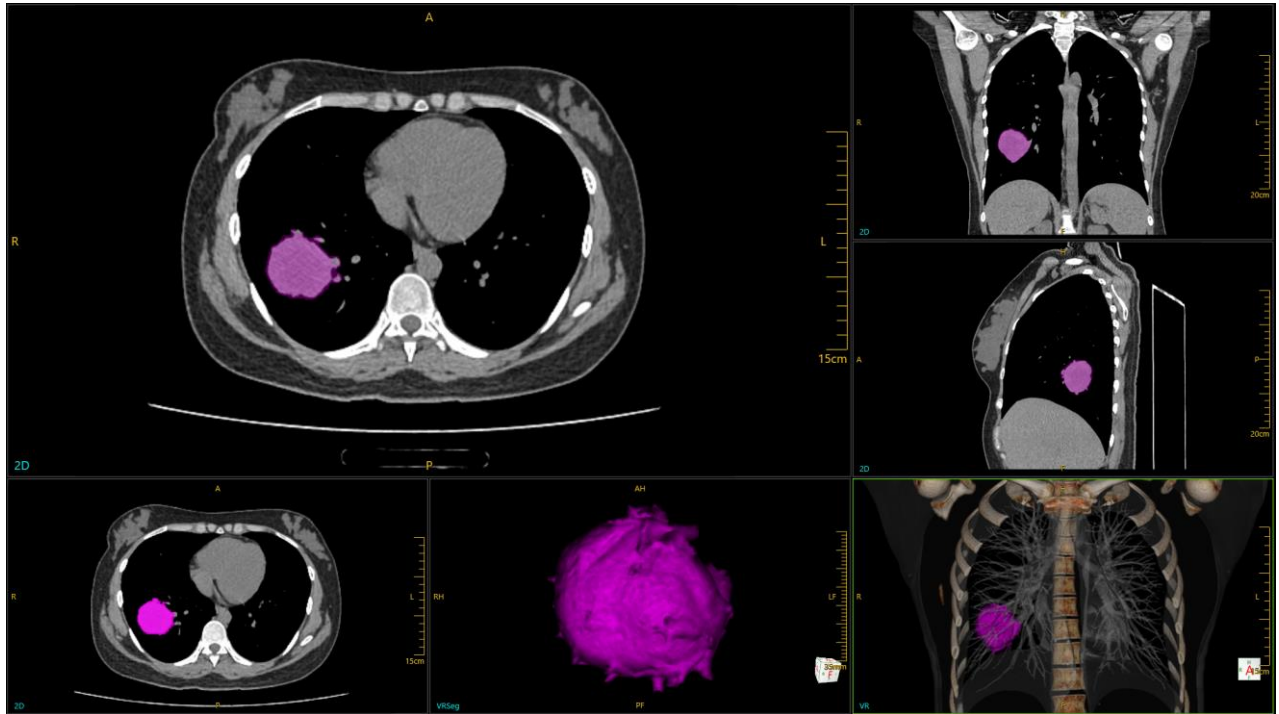
Preprocess image calculation of CBF, CBV, MTT, TTP Map ROI, and TDC Display;

Send Result to Film & Report.



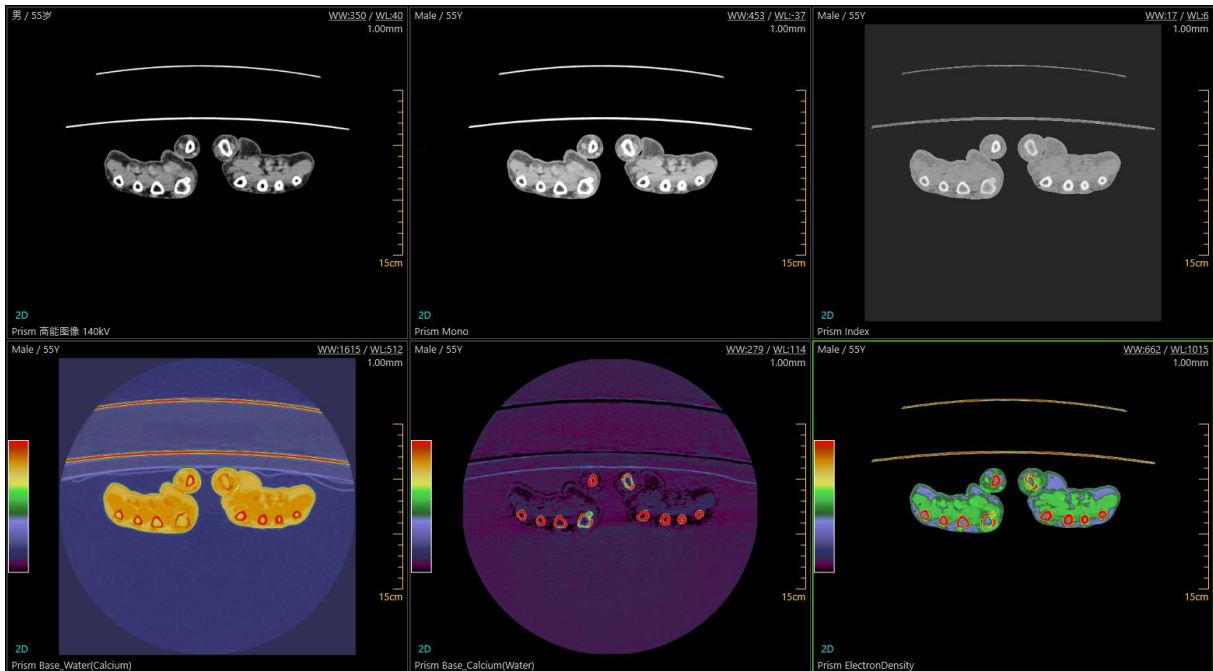
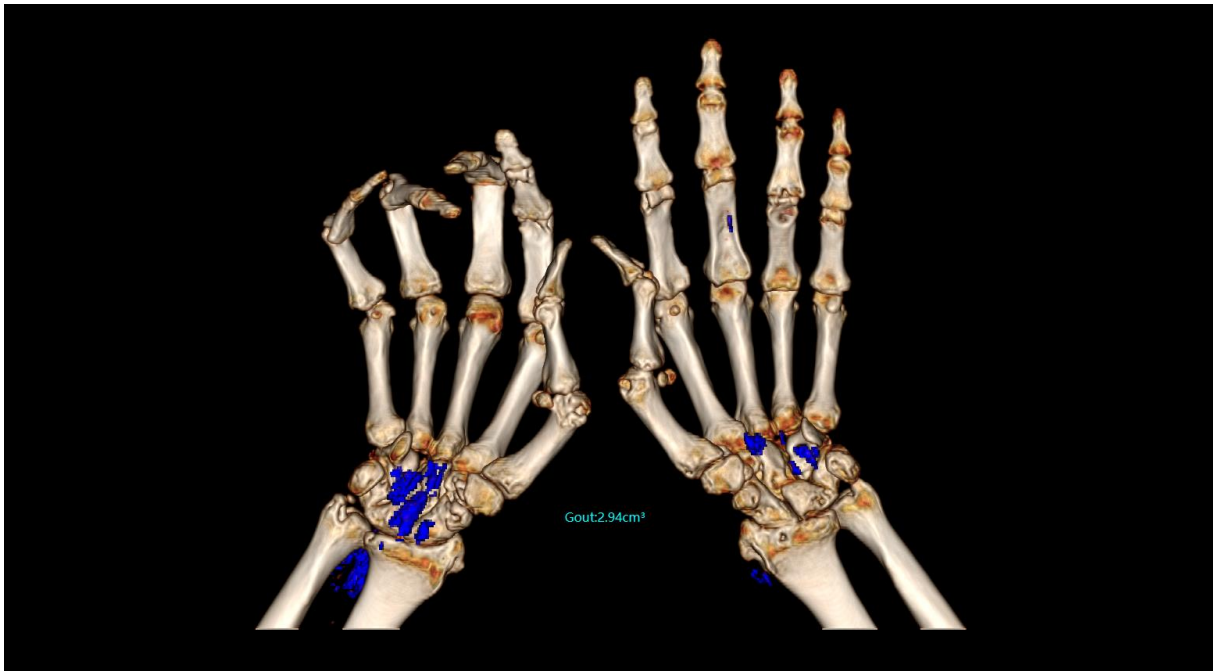
Tumor*

Evaluates the tumor characteristics, whether it's benign or malignant, provides additional information including location, quantity and size as reference for diagnosis, surgery planning, and/or tracking treatment response for prognosis.


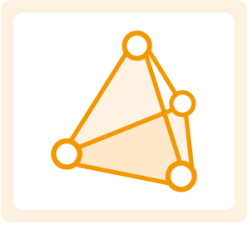



Prism Imaging*

Image series provides 101 energy levels represented as a kilo-electron Volt value (keV). It can recognize best CNR image automatically which is useful to reduce the image artifacts and diagnose hidden pathology. And low-range keV allows for better contrast differentiation, especially for better iodine conspicuity. Spectral imaging function provides the functional information especially used in gout visualization.



2.3 Everyday Rewards Up

<p>Efficient</p>		<p>By virtue of the fast workflow, it comprises NeuAI positioning feature designed to save time, which improves more patients throughput.</p>
<p>Stable</p>		<p>A-STAR Detector integrates with innovative dose-reducing solutions, which is a patient-centered design that increases tube utilization and provides continuous support for the scanner. Fewer interruptions mean lower cost, long tube life, and more reward.</p>
<p>Advance</p>		<p>NeuViz ACE UP taps into the pioneering innovation of ACE platform. As a 64-slice CT, it is equipped with high-end features such as intelligent solutions and innovative scan mode, among which the enhancement of these strong competitive forces maximizes your budget while satisfying all kinds of clinical needs.</p>

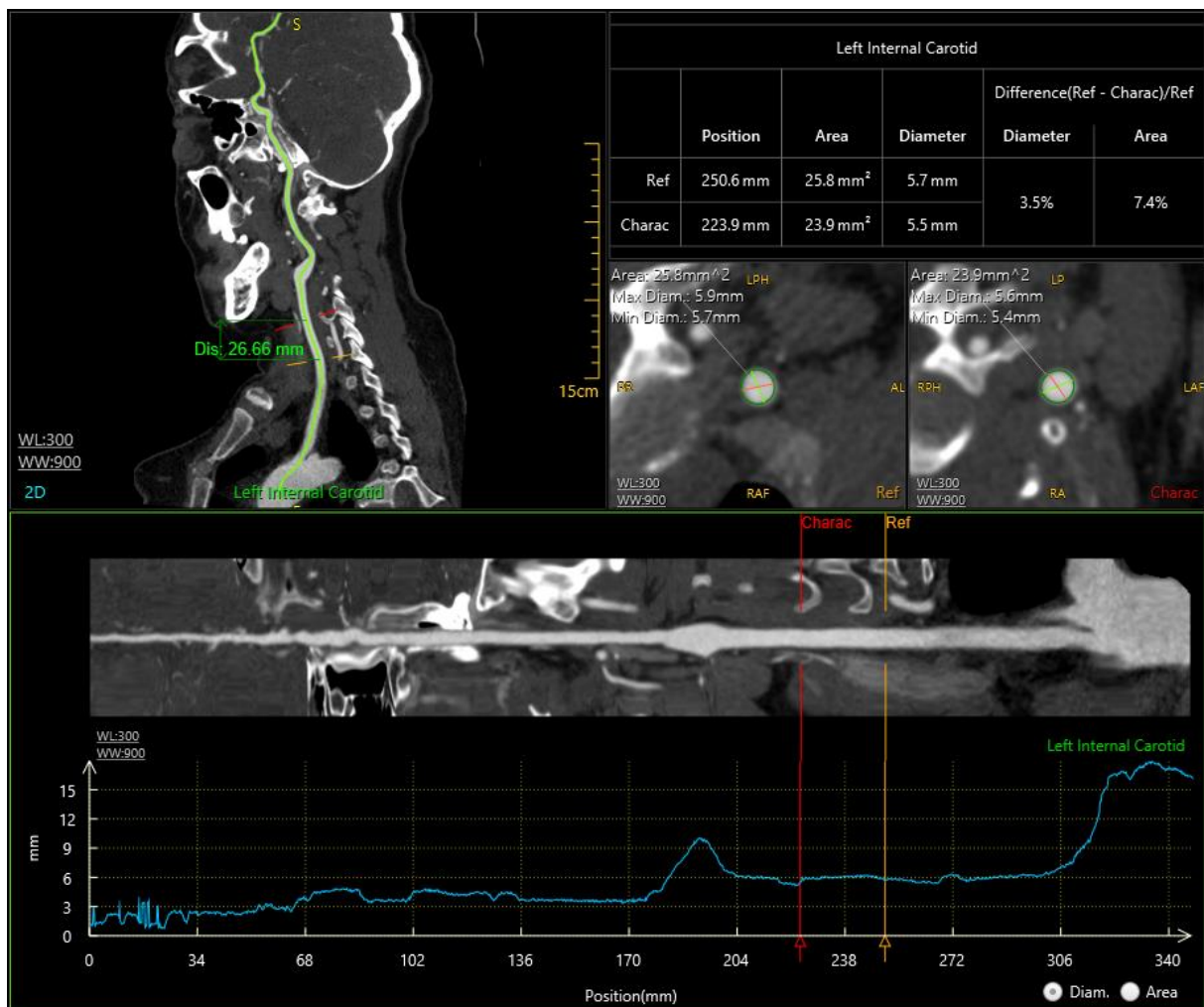
3. Abundant Clinical Applications

NeuViz ACE UP can provide you software solution for 3D reading and advanced visualization-perfect for both day-to-day and more challenging cases.

NeuViz ACE UP is capable of performing a full array of advanced imaging and post processing techniques to carry WHOLE body scanning.

Vessel Analysis

Vessel Analysis offers a set of tools for general vascular analysis. The following functions are supported in Vessel Analysis application: One-click bone removal; Vessel centerline extraction; various review modes may be used: Volume Rendering, MIP, MPR, CPR; Measurements are available for vessel assessment, including maximum and minimum cross-section diameters of lumen areas.



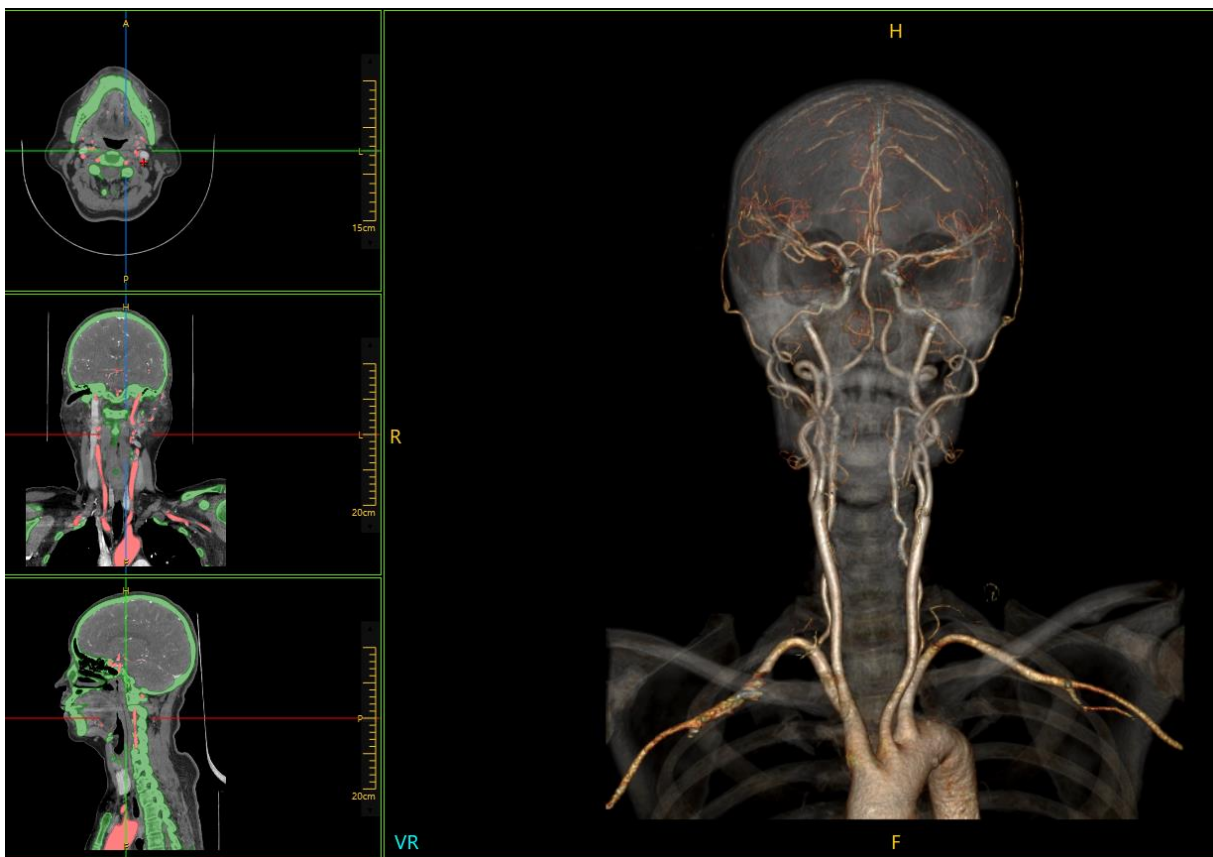
Nerve System DSA*

Application is used to remove boney structures and reveals vascular structure in the skull. It has following features:

Auto registration of contrast and without contrast series;

Auto subtraction of bone structures;

Rendering Modes: VR, MIP and MPR.



Cardiac Calcium Scoring*

- ★ Measure calcium scoring and display pseudo color
- ★ Display vessel name, plaque number, pixel number, volume/area score, continuous weight factor score, Agatston score and mass score
- ★ Add vessel, delete vessel, rename and modify vessel color



Lung Nodule Analysis*

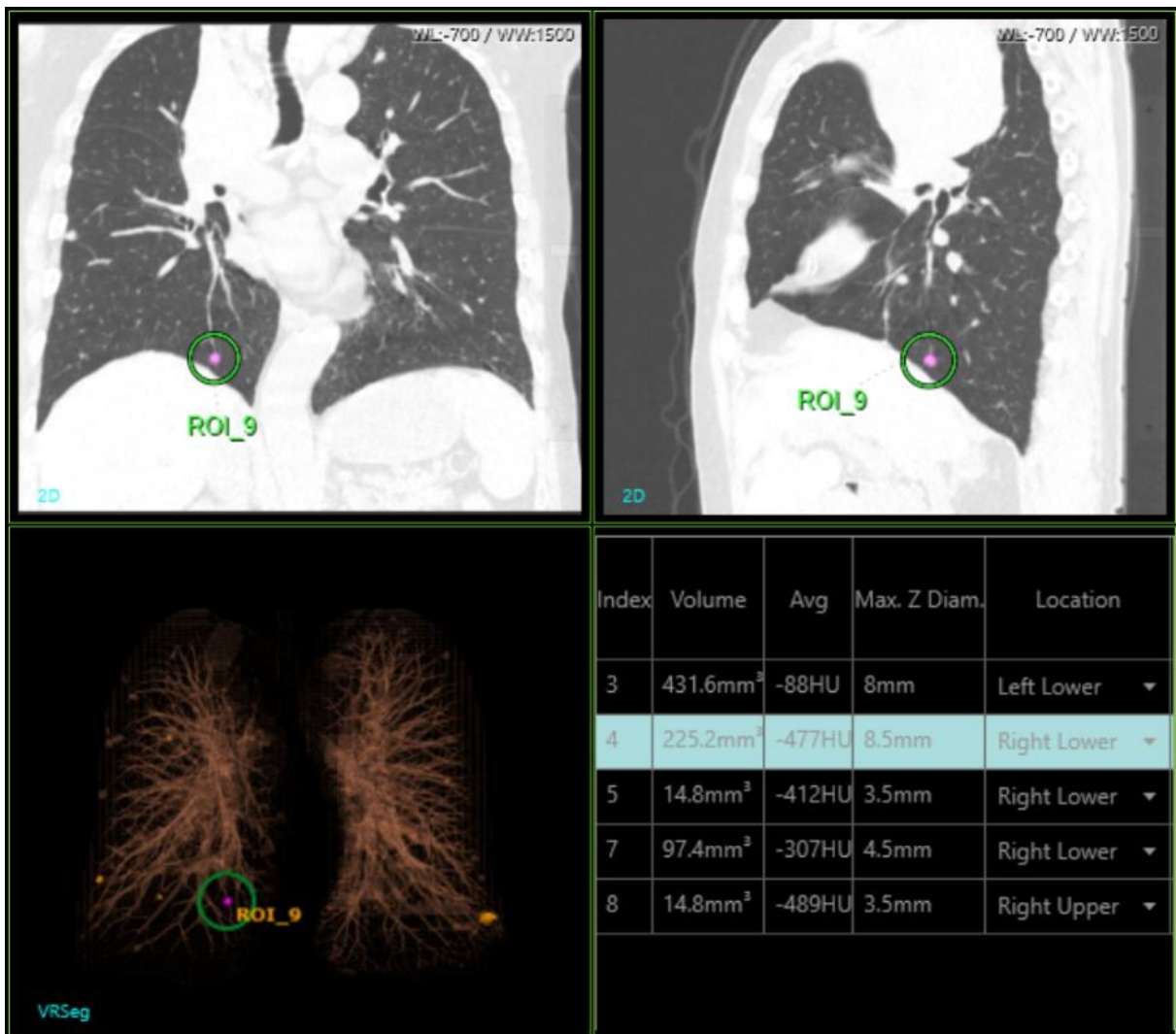
Lung Nodule Analysis assists clinicians in the detection and quantification of pulmonary nodules and lesions.

Single-click Segmentation;

Nodule Volume Calculation;

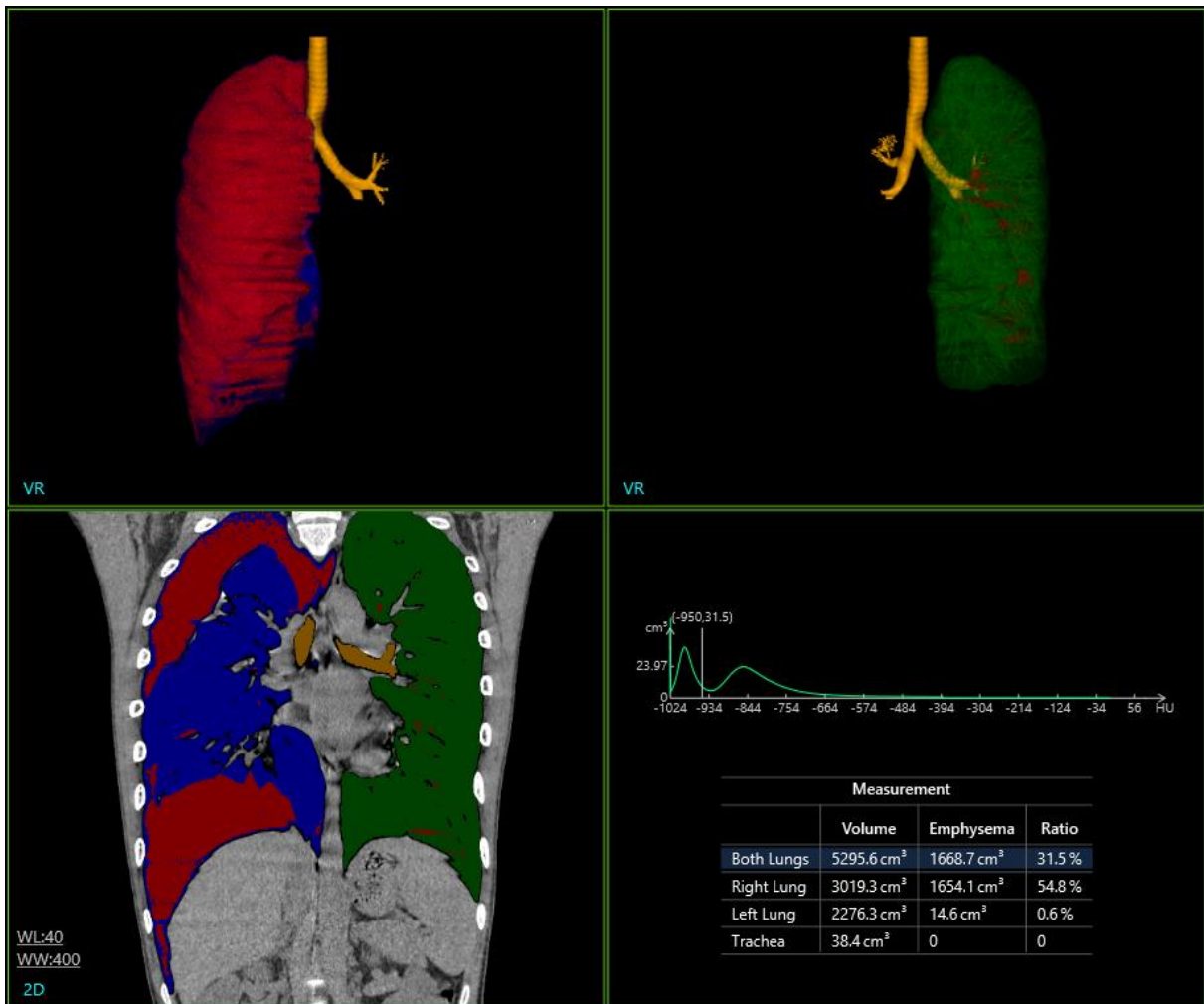
Follow-up support;

Growth of nodules can be tracked over time.



Lung Density Analysis*

Lung Density Analysis is an automated application that provides quantitative (volumetric) lung emphysema measurements and a visual representation of the diffusion of emphysema.



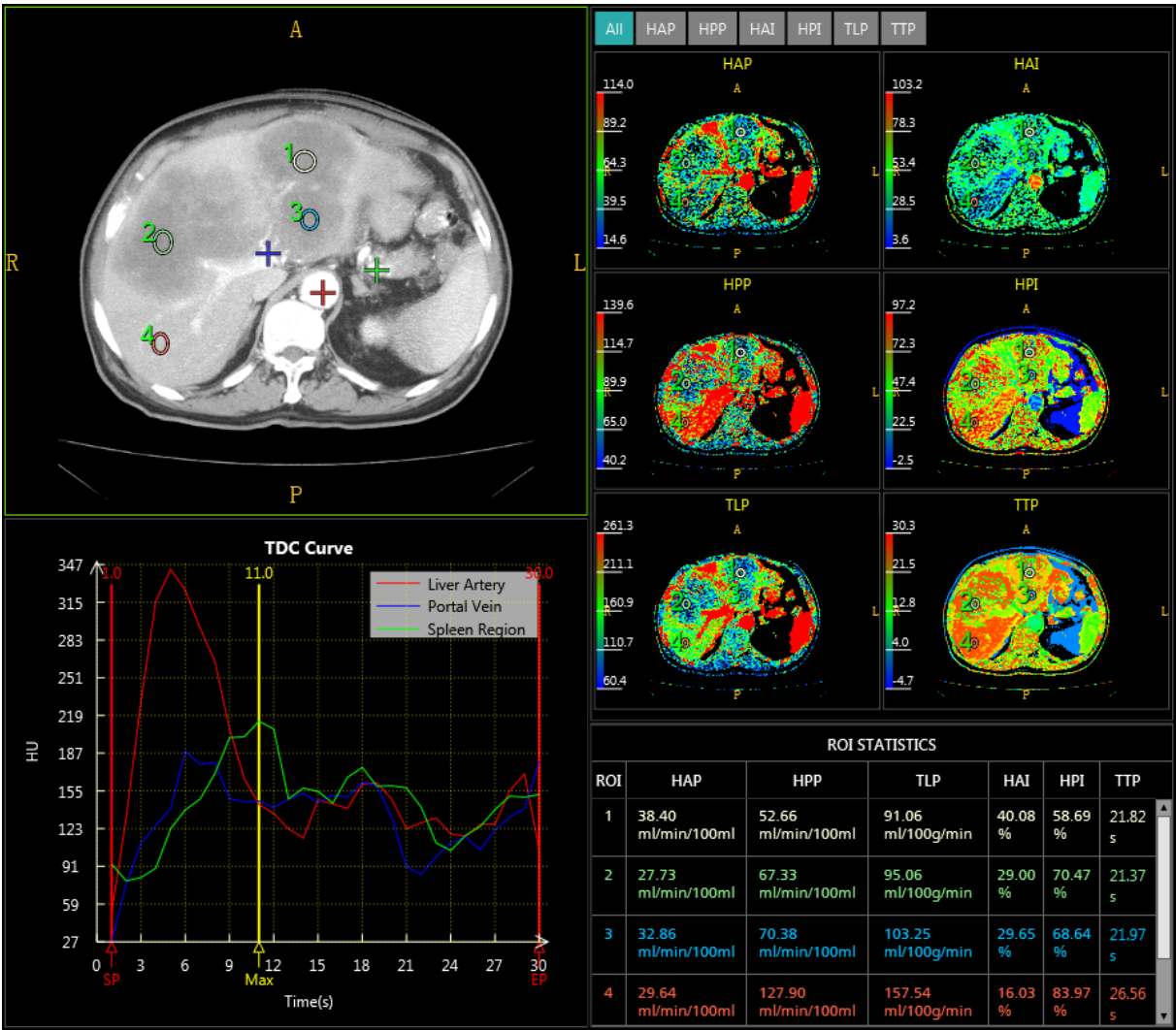
Body Perfusion*

Body Perfusion is an advanced application for quantitative analysis of renal, hepatic and pancreatic blood flow.

It has the following features:

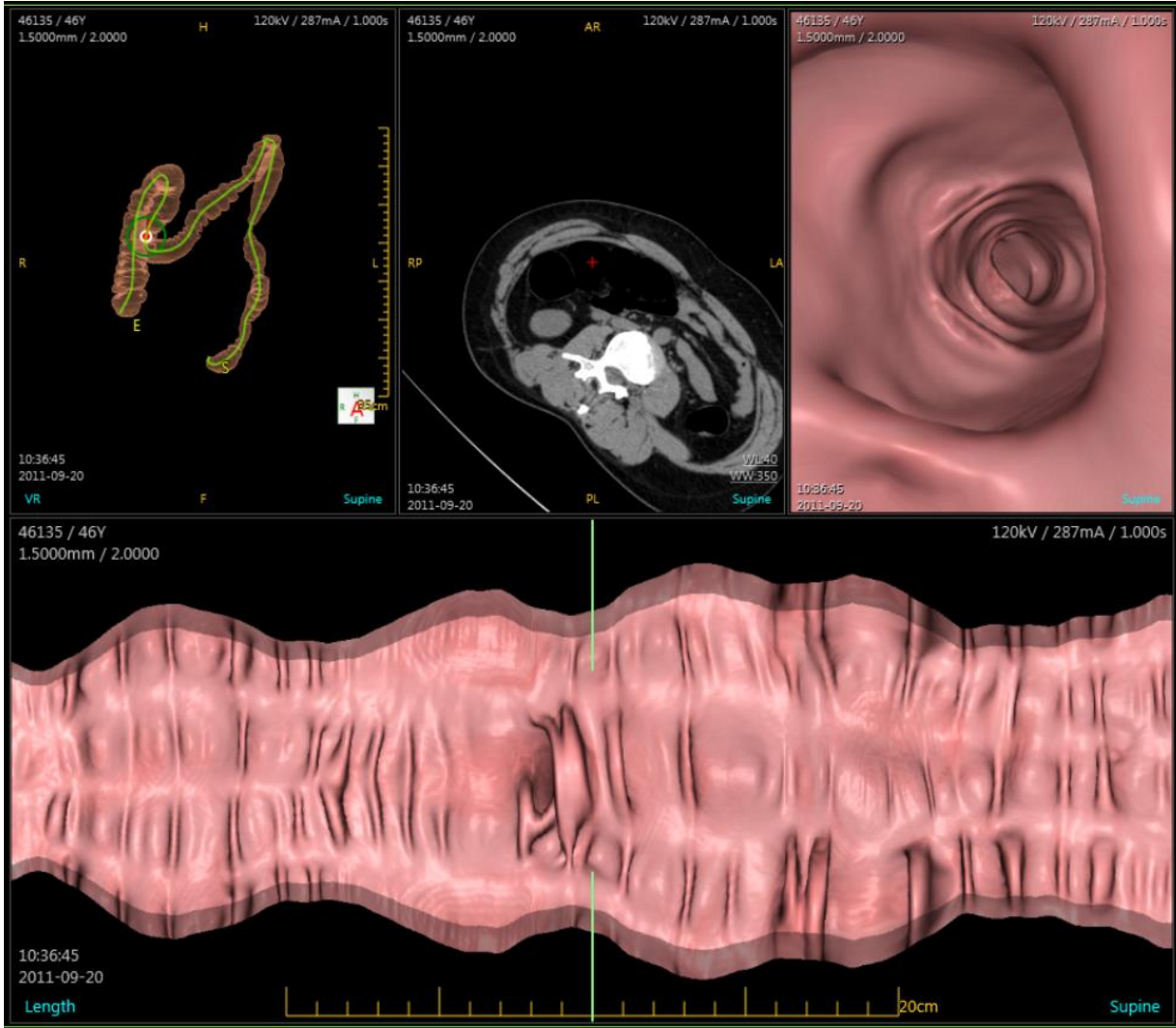
Calculation of CBF, CBV, MTT, TTP, PS Map ROI, TDC display;

Send Result to Film & Report.



Virtual Colonoscopy*

Virtual Colonoscopy application is a clinical application for the viewing and evaluation of virtual colonoscopy CT images. The application is an interactive tool to help visualizing colon anatomy, locating polyps and assessing their characteristics.



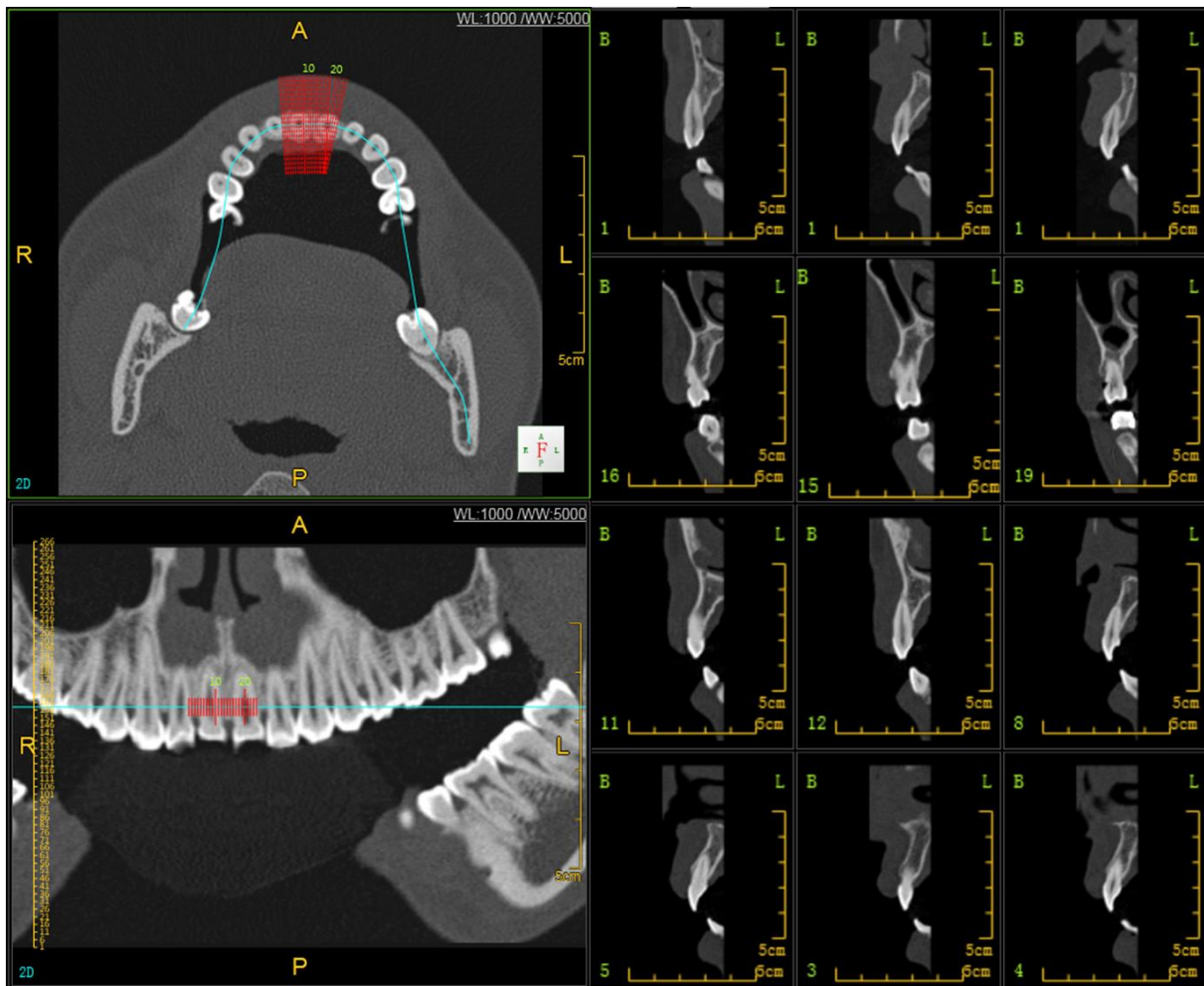
Dental Analysis*

Dental Analysis is designed to assist oral surgeons in planning implantation of prostheses. It has the following features:

Display panoramic views of dental;

Display cross-sectional planes of dental;

Filming panoramic and cross sectional images in true size.



Fat Analysis*

Fat Analysis application is used to analyze abdominal fat, segment subcutaneous fat from visceral fat. The areas of subcutaneous fat, visceral fat and outer circumference, etc. are calculated.



4. Technical Specification

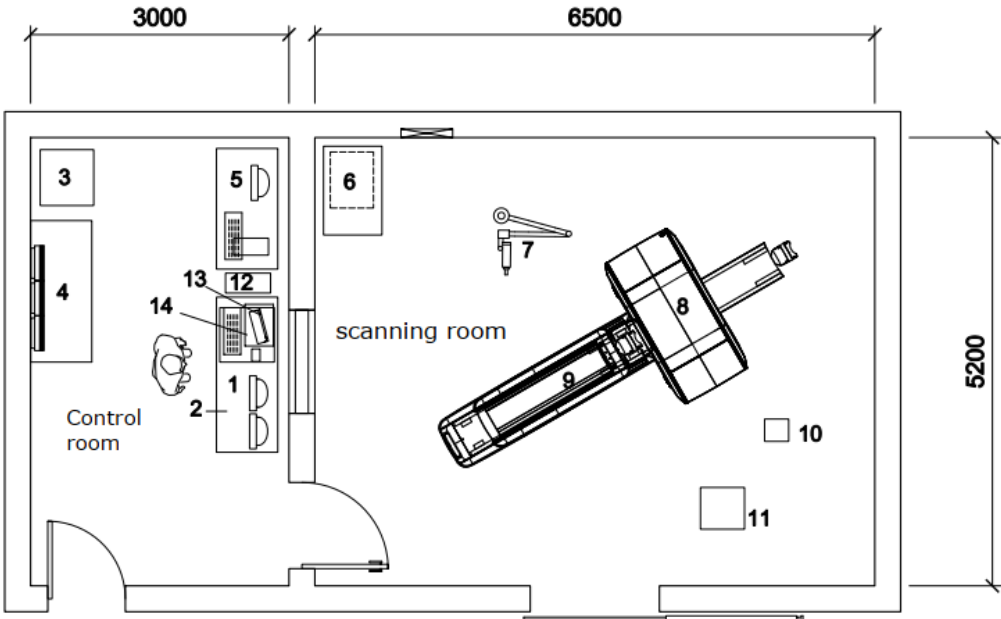
Key Parameters

Tube heat capacity.....	3.5 MHU
Generator power.....	32 kW
kV steps.....	60, 70, 80, 100, 120, 140 kV
mA range.....	10-320 mA
Slices.....	64 slices
Rotation time.....	0.71 s/360°
Spatial resolution.....	22 lp/cm@0%
Low contrast resolution.....	2mm@0.3%

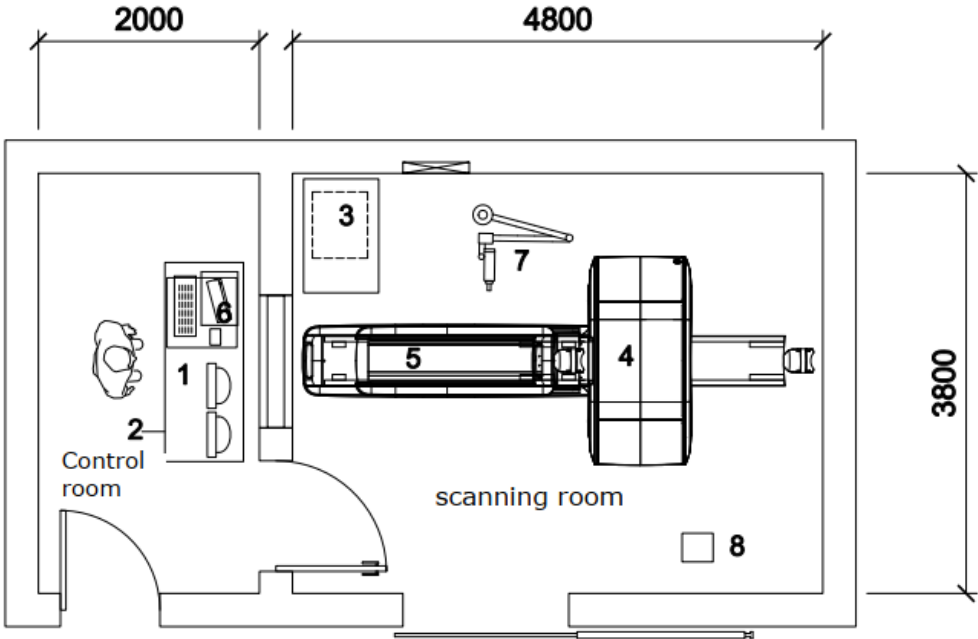


5. Site Planning

Preferred room layout

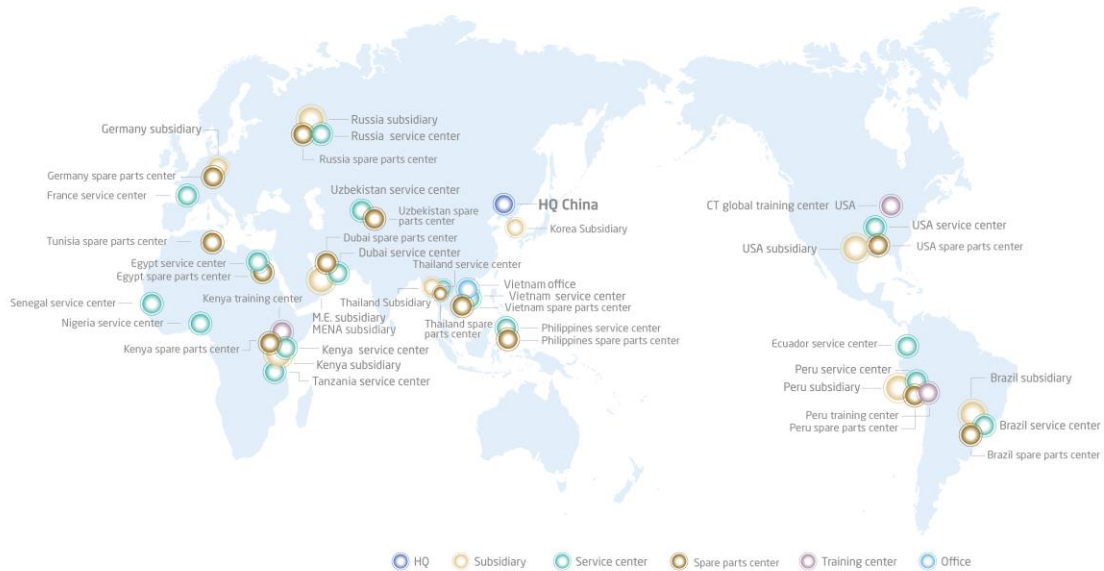


Minimum room layout



6. NMS Global Service Coverage

NMS Global Sales & Service 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.