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NeuViz 64 In /V2.08

NeuViz 64 In

Patient-centric Imaging

Neusoft Medical Systems

Neusoft CT

"A RICH History of Innovation"

Current trends of an aging population together with diverse and complex diseases bring a higher demand for medical imaging equipment providers. Healthcare providers are facing increasing numbers of patients, limited budgets, ever-increasing costs while facing ever-increasing demand for complex procedures, such as coronary CTA.

Neusoft Medical Systems is an excellent value innovator of global healthcare services through continuous focus on meaningful innovation of CT technology.

NeuViz 64 In was developed to be a patient-centric imaging CT, focused on minimizing patient X-Ray dose while maintaining excellent image quality, delivering high patient throughput at a lower cost, performing coronary imaging and a wide variety of easy to use post-processing and diagnostic operations.

In general, the NeuViz 64 In supplies new opportunities for whole body scanning, even coronary CTA.

2019
NeuViz Glory

2017
NeuViz Prime

2015
NeuViz 128

2014
NeuViz 64 In

2012
NeuViz 64

2009
NeuViz 16

2005
NeuViz Dual

2002
CT-C2800 / 3000 Dual

2000
CT-C2800 / 3000

1998
CT-C2000

NeuViz 64 In

Product Highlights

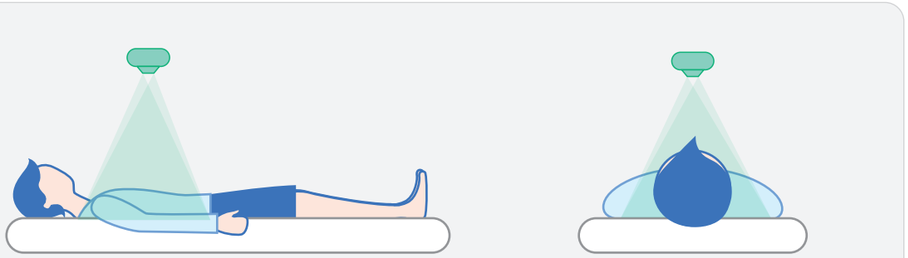
Full-range of Clinical Applications

Optimized Intuitive Workflow

Robust Cardiac Imaging

Low Dose Design

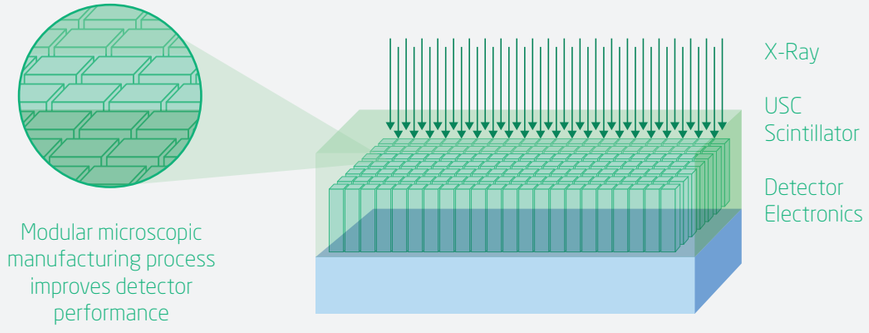
Quad-Sampling Technology



Unique Quad-Sampling Technology

4640 views per rotation provide high data sampling density. Simply put, this results in a market leading isotropic resolution of 0.32 mm and a pitch up to 1.7.

Dose Efficient Detector



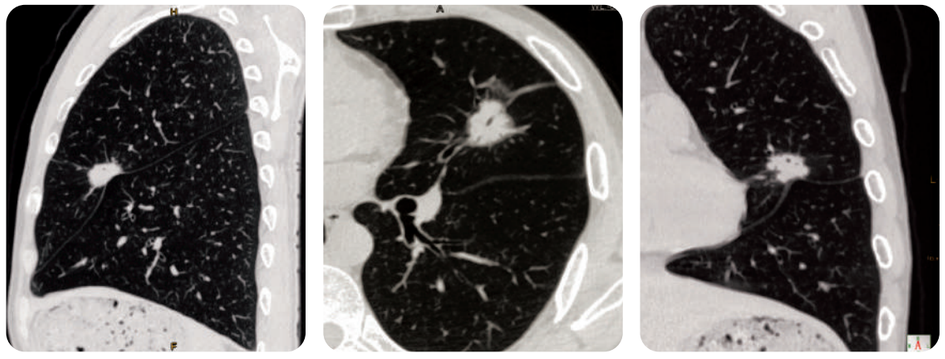
A patented manufacturing process reduces afterglow time (<2 us) and maximizes conversion rate (99.99%) . This results in a perfect balance between low dose and high quality.

1024 Reconstruction Matrix

1024 matrix reconstruction technology provides the spatial resolution necessary for lung nodule and inner ear studies.

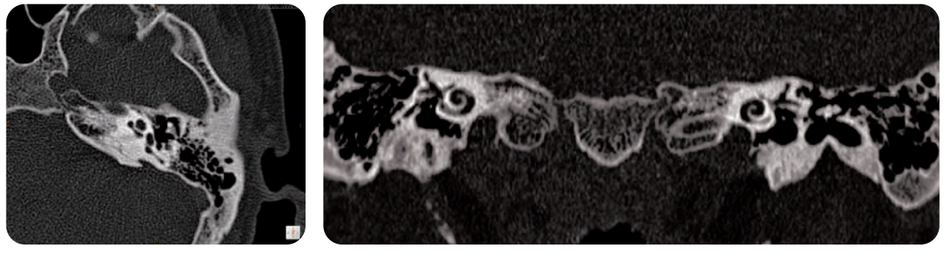
High Resolution Lung Images

Multiplanar reformation shows a solitary pulmonary nodule in the left upper lobe. This nodule presents with irregular margins, lobulated signs and hollowed pleuras. These are clinical indicators of carcinoma.



High Resolution Inner Ear Images

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



0-Dose Platform

240 degree exposure
Dose to the patient and physician reduced.

Organ-Safe
Reduces dose to radiosensitive organs, such as eyes, thyroid and breasts.

ClearView
Iterative Processing in projection & image spaces optimizes dose efficiency.

Auto kV
The kV automatically adjusts to the optimum level based upon the patients anatomy while insuring the best kV for a given exam type is used.

3D dose modulation
Tube current modulates based on the anatomy in the scan field for an anatomically optimized dose.

New detector design
Modular design delivers 99.99% x-ray conversion efficiency, lowering the dose necessary to deliver excellent image quality.

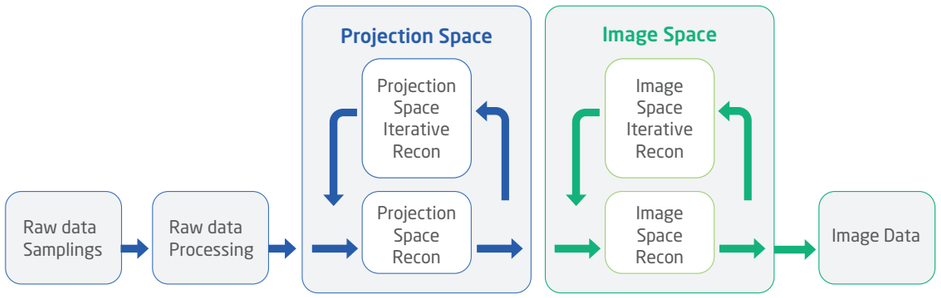
Pediatric Protocols
Not "scaled down" adult protocols. Designed specifically for pediatric anatomy.

ECG dose modulation
Reduces tube current during non-imaging phases of the cardiac cycle to minimize patient dose.

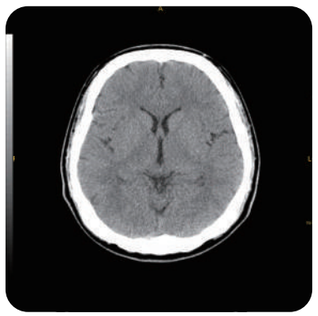
Dose check
DoseCheck (NEMA XR-25) and SmartDose (NEMA XR-29) are fully implemented. Patient safety is insured.

ClearView Iterative Reconstruction

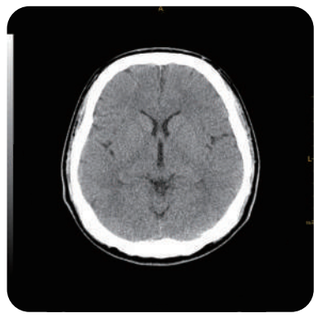
By performing iterative processing operations in both projection and image space, noise and artifacts associated with low dose imaging can be removed, while diagnostic information is retained, yielding a study with high clinical value.



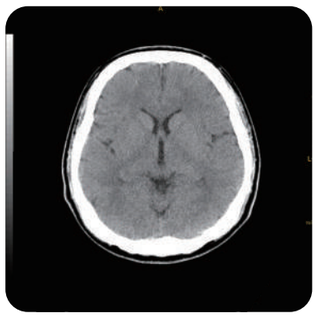
"Removes noise while preserving detail, providing low-dose image quality that is superior to that of full-dose images."



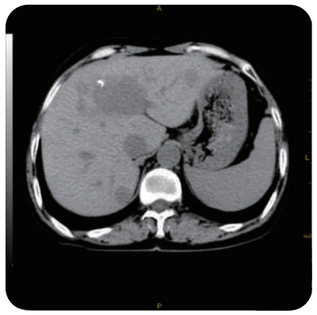
120kV, 260mA, full dose



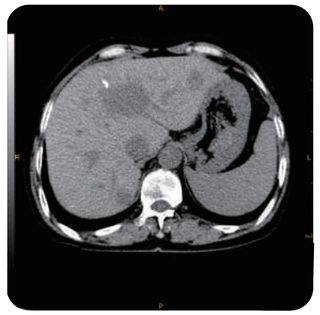
120kV, 169mA, dose reduction



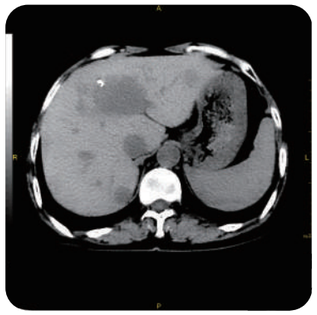
120kV, 169mA, dose reduction+ClearView



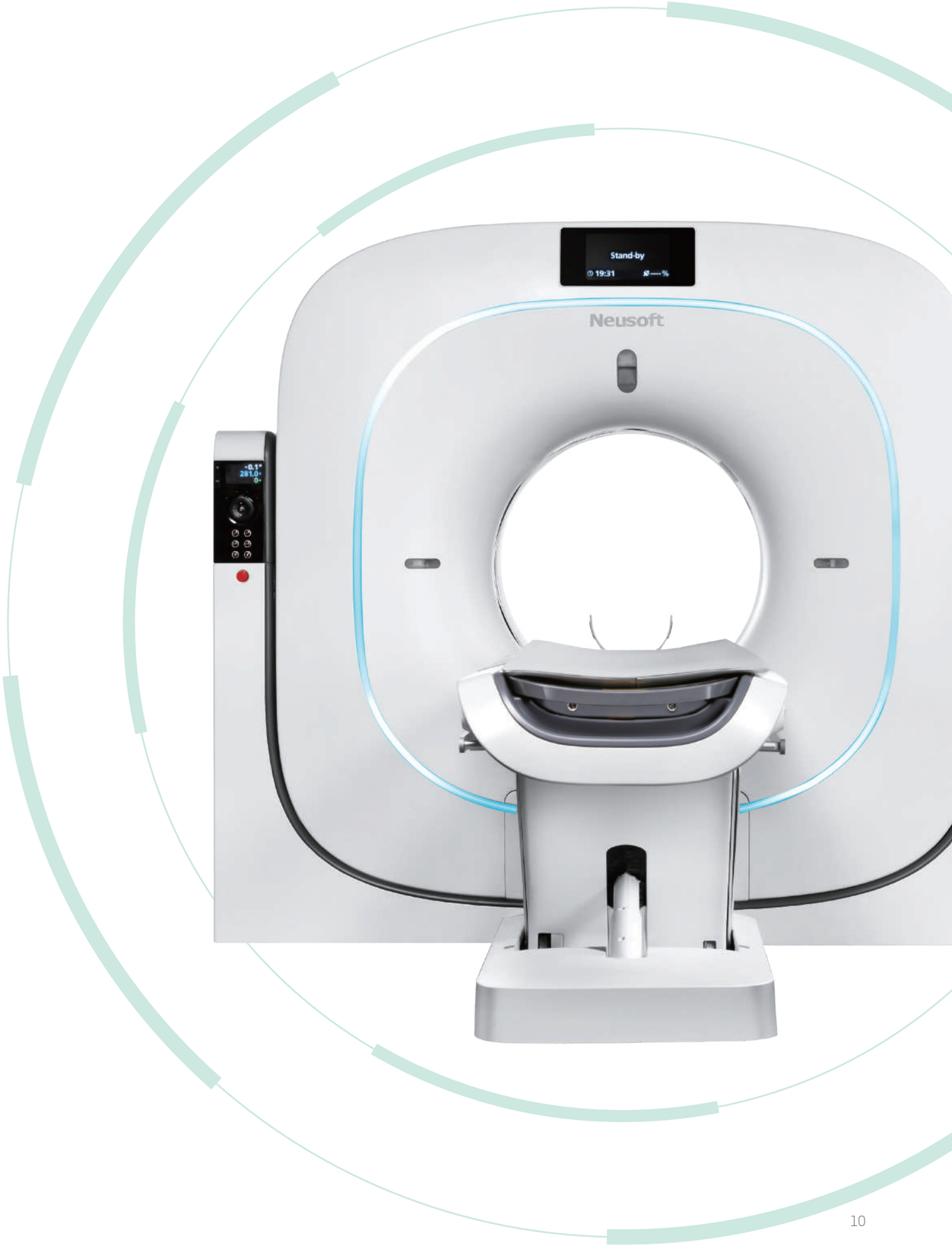
120kV, 180mA, full dose



120kV, 90mA, dose reduction



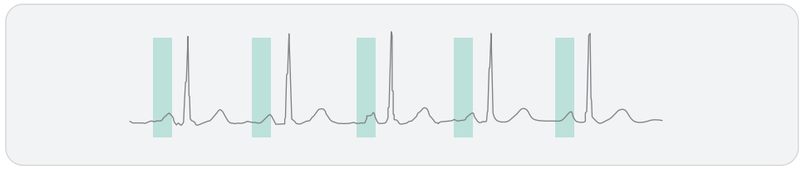
120kV, 90mA, dose reduction+ClearView



Low Dose Cardiac Solutions

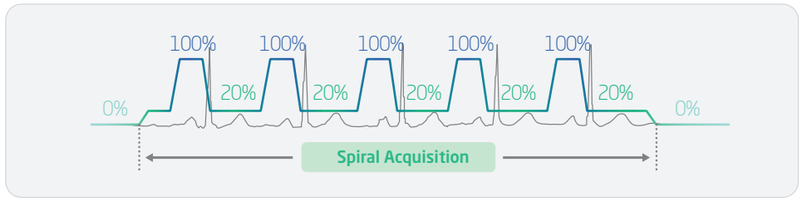
Prospective Scan

The NeuViz 64 In can support ECG-Triggered prospective cardiac imaging with cardiac acquisition at the end of diastole. Combined with reduced tube current and advanced iterative reconstruction algorithm ClearView, patient dose below 3mSv can be achieved.



Low Dose Retrospective Scan

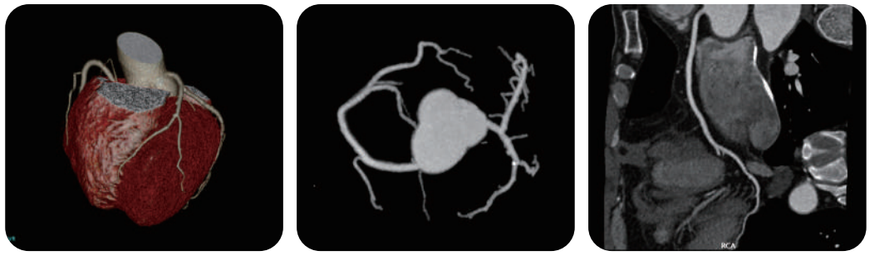
In each cardiac cycle, acquisition is continuous, with simultaneous ECG-Tracking to obtain data. However, tube current would be largely reduced at systole and beginning of diastole to optimize patient dose.



Clinical Benefits

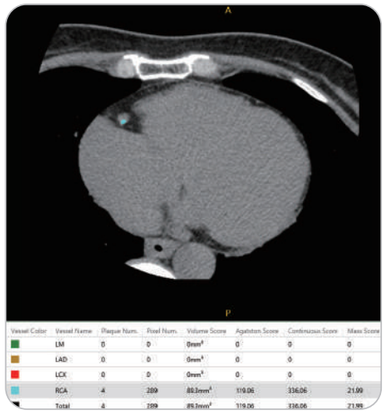
The NeuViz 64 In provides for superior Coronary Artery visualization as demonstrated in the VR and MPR studies pictured below:

Male, 45 years old, 66bpm, 2.77mSv

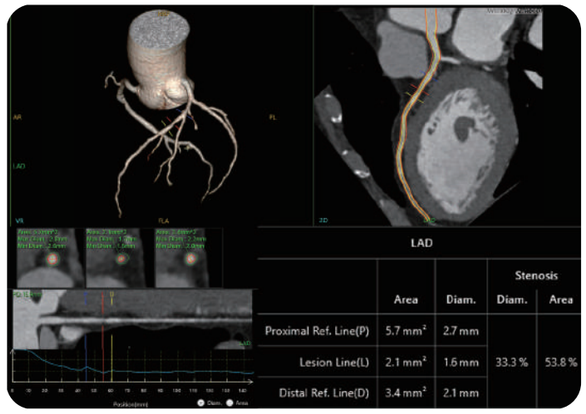


Post-processing Application Solutions

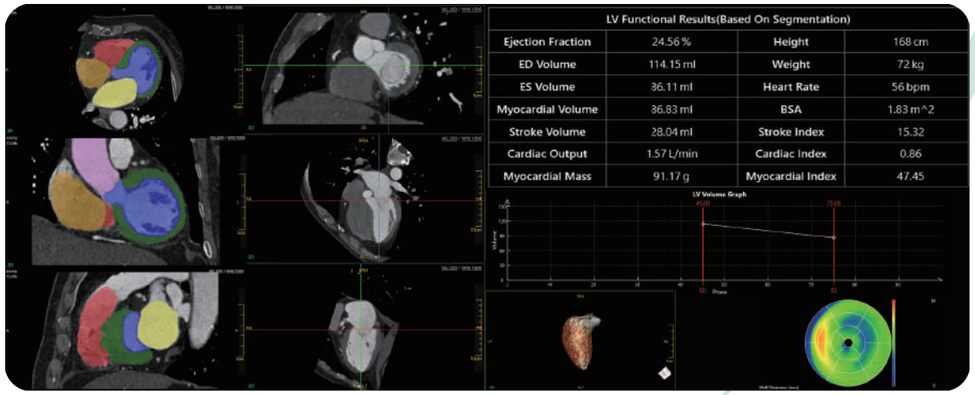
The NeuViz 64 In is designed to offer cardiac solutions which include Cardiac Calcium Scoring, Cardiac Function Analysis and even Coronary Analysis. It delivers one-stop, full-range diagnostic certainty to cardiac imaging.



Cardiac Calcium Scoring



Cardiac Coronary Analysis

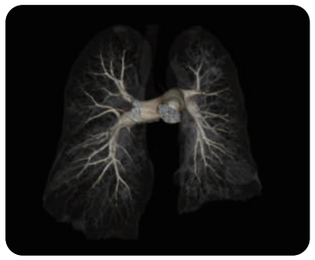


Cardiac Function Analysis

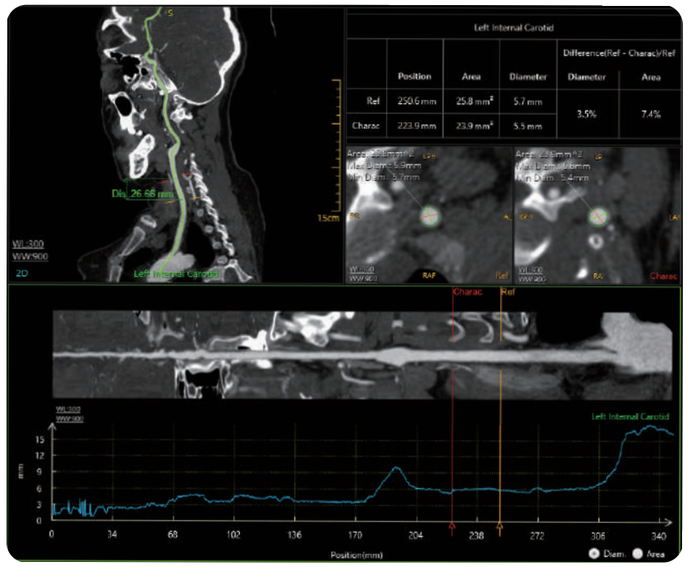
Full Range of Clinical Applications

Advanced Vessel Analysis

Neuro CTA

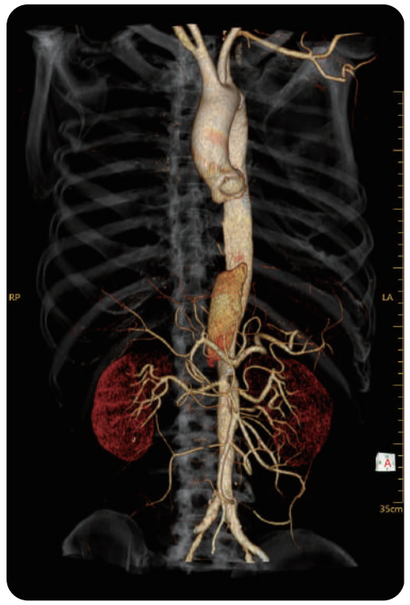


Pulmonary Artery CTA



Vessel Measurement

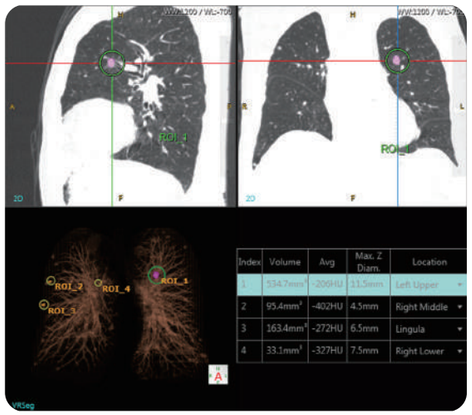
Head & Neck CTA



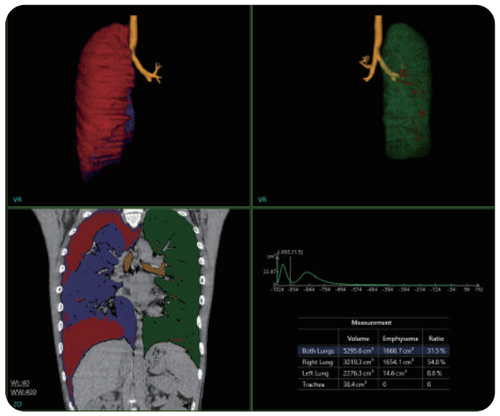
Abdominal Aorta CTA

Run-off CTA

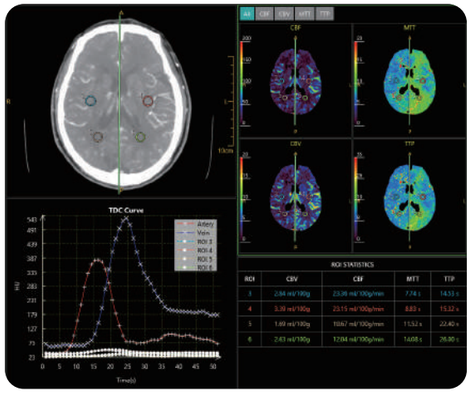
Lung Nodule Analysis



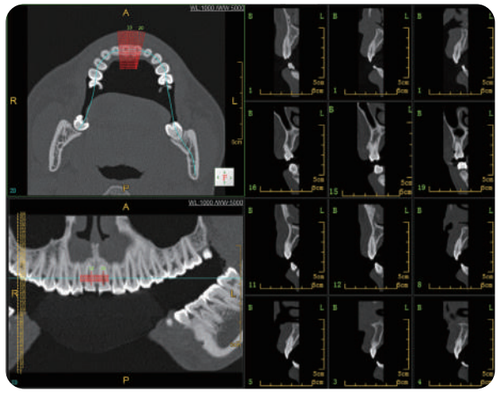
Lung Density Analysis



Brain Perfusion



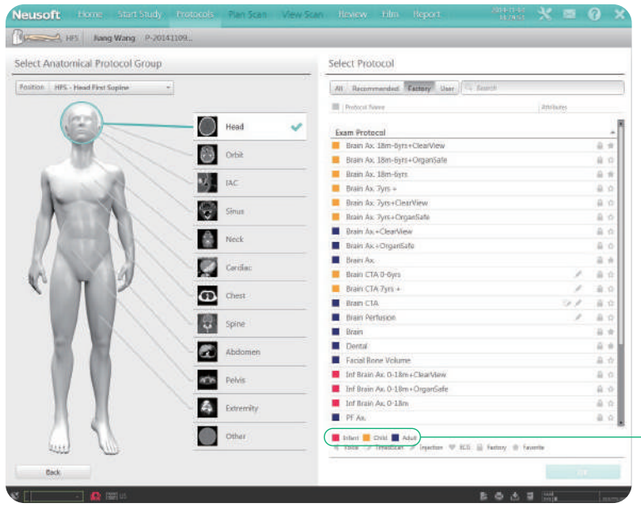
Dental Analysis



Optimized, Intuitive Workflow

Intuitive Operation & Smart Protocol Selection

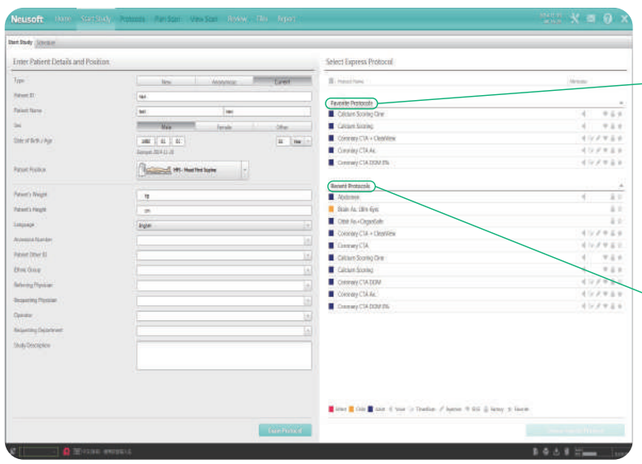
Intuitive workflow and user interface guide healthcare providers using a "guided tool bar", designed to facilitate daily workflow.



01 | Protocols are grouped by human body anatomy which will help technicians choose proper protocols intuitively.

02 | Protocols are divided by different patient ages which are represented by different colors (Pink for infant, orange for child and dark blue for adult), contributing to improved work efficiency with less human error.

01 | 02 |



Favorite Protocols

03 | Self-set protocols can add common emergency protocols to favorite protocols. Scanning start by one click, which will ease workflow by reducing operation procedures.

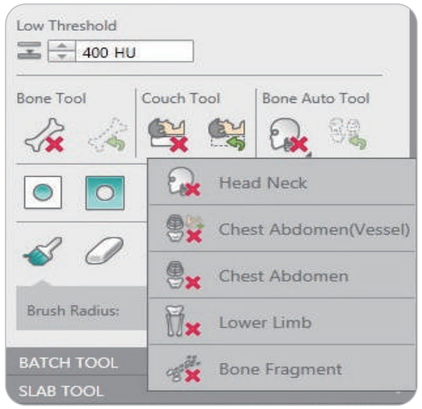
Recent Protocols

04 | Smart protocol management can learn from statistics, these protocols will be listed by use frequency.

03 |
04 |

Efficient Post-processing

Post processing is designed to optimize time saving. Key strokes are minimized and process steps automated, streamlining workflow.



RSSF
(Real-time System Status Feedback)

System status and ECG are clearly displayed.
Breath hold commands are also communicated to the patient.

Emergency Examination without Waiting

Patented RSSF allows emergency scanning without preheating, saving precious time and decreasing exposure. This guarantees the timeliness and safty of emergency scanning.

Service and Logistics Support

Neusoft Global Service & Logistics Network

After-sales service and support

- Remote service capabilities bring Neusoft expertise to you IMMEDIATELY, no matter where you are!
- Identifying and correcting PROMPTLY and PROACTIVELY, minimizing downtime and patient inconvenience.
- Global logistics network enables fast response regarding parts and supplies.

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