CASSONA
GLOBAL IMAGING LTD.
(A Cassona USA Company)

Caring for you

NeuViz 128

Remarkable Clarity and Precision

Contact Us:

www.neusoftmedical.com/en/

Neusoft Medical Systems

Neusoft Medical

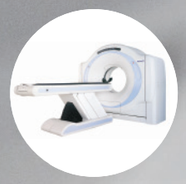
NeuViz 128 / Y22.08

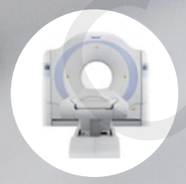
Neusoft Medical Systems

Neusoft CT

"A HISTORY OF INNOVATION"


CT-C2000


NeuViz Dual


NeuViz 16


NeuViz 64


NeuViz 64 In

CT-C2000
1998

CT-C2800/3000
2000

CT-C2800/3000 Dual
2002

Neusoft enters into a joint venture
with Philips Medical Systems
2004

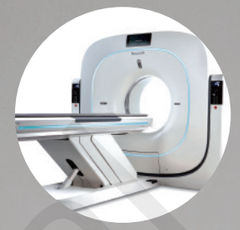
NeuViz Dual
2005

Neusoft CT installed base
reaches 1000 systems
2007

NeuViz 16
2009

NeuViz 64
2012

NeuViz 64In
2014


NeuViz 128 RELEASED
2015

Remarkable Clarity and Precision

NeuViz 128, one of the advanced scanner from the NeuViz CT family, provides remarkable clarity and precision to expand the range of services you can provide while reducing operational expenses. Full-featured, low-dose, workflow optimized and designed with patient comfort in mind, the NeuViz 128 is the CT choice you have been missing.

NeuViz 128 Product Highlights

- iHD (isotropic High Definition) imaging enables High Spatial Resolution: 24lp/cm@0%MTF
- Quad-sampling
- Micro-STAR detector
- 1024x1024 large matrix imaging
- Comprehensive low dose design
- ClearView, an advanced iterative reconstruction algorithm that adding diagnostic certainty with low dose imaging
- Robust, low dose cardiac imaging
- MAR+ (Metal Artifact Reduction)
- Patient centric, caring for patients and technicians

High Resolution Imaging-Chain

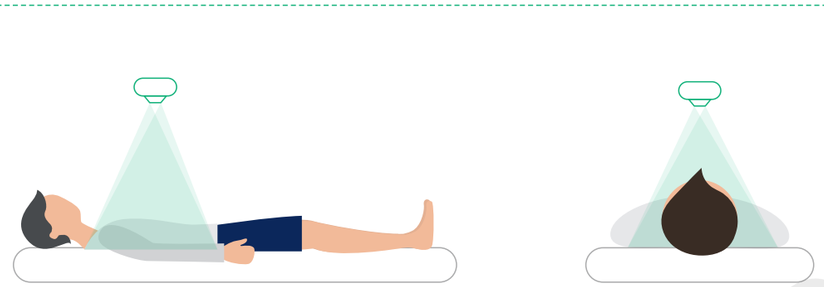
24lp/cm@0%MTF

Effective integration of high resolution hardware and software results in superior image and diagnostic quality.

Tube Quad-Sampling → Detector Micro-STAR → IR ClearView → 1024x1024 Matrix → 24lp/cm iHD

Quad-Sampling

By dynamically moving the focal spot axially and longitudinally, sampling density is increased to 400%. This means improved resolution, reduced artifact and extended scanning ranges.

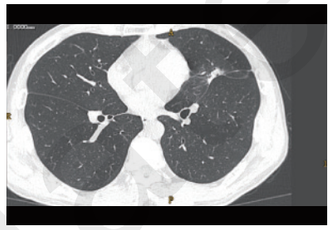


Micro-STAR detector

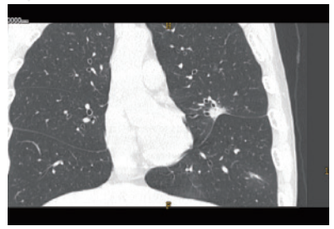
- True cone beam geometric design
- Precision cutting technology
- Ultra-thin photosensitive coating
- 4,640 sampling views/rotation
- X-Ray conversion efficiency to 99.99%

1024 Reconstruction Matrix

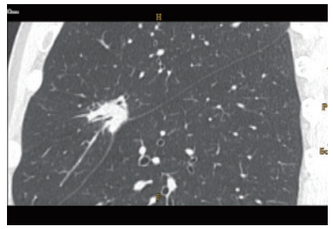
1024 x 1024 matrix technology and small focal spot provide the spatial resolution necessary from tiny lesions like lung nodule, inner ear, etc.



1024x1024 matrix

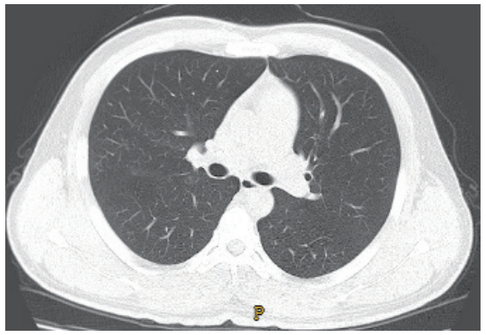


1024x1024 matrix

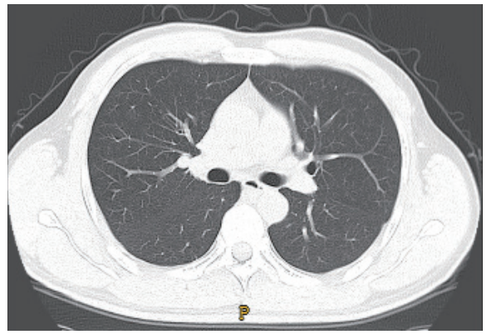


1024x1024 matrix

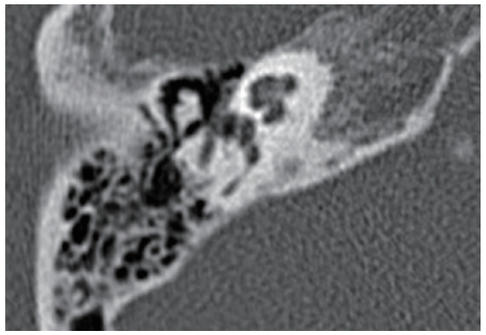
Compared with other 128-slice CTs, the spatial resolution of NeuViz 128 is greatly increased.



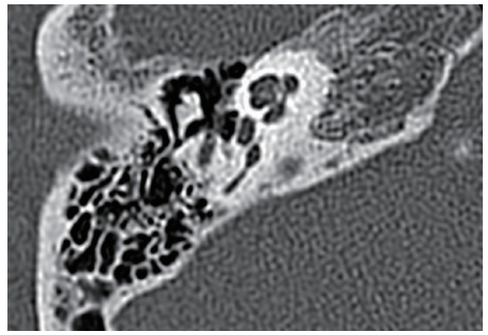
512 x 512 matrix, lung



1024 x 1024 matrix, lung



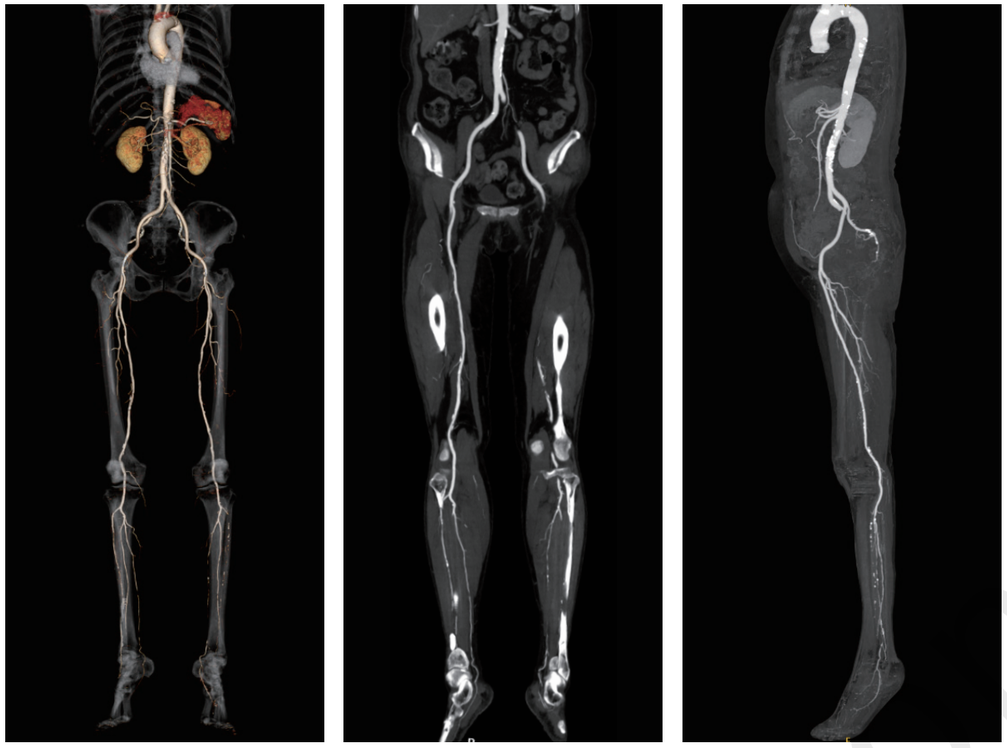
512 x 512 matrix, inner ear



1024 x 1024 matrix, inner ear

High Definition Imaging

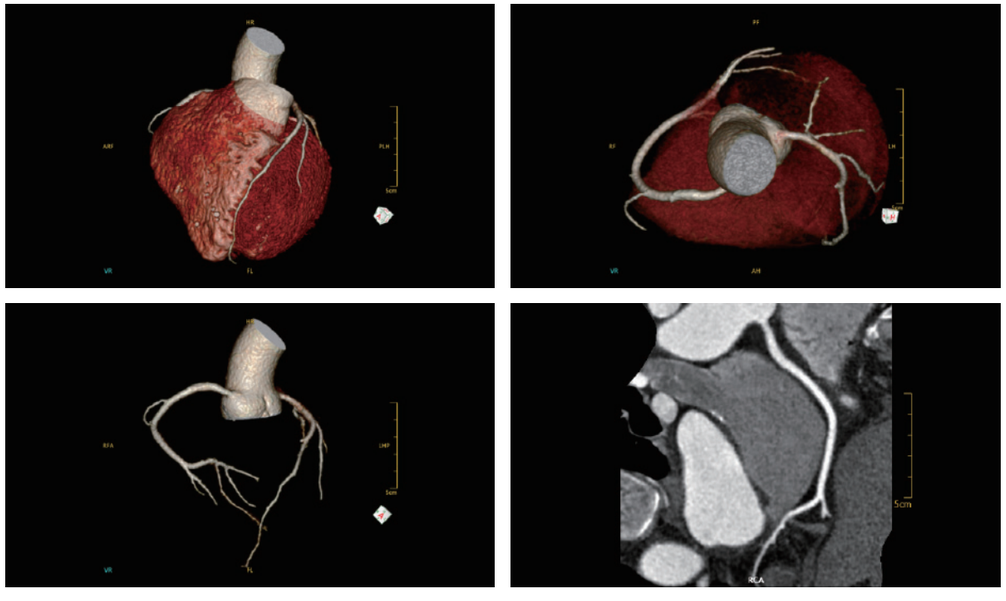
100kV, 150mAs, Contrast: 350mgI/ml, 80ml, 3.5ml/s



120kV, 315mAs, Contrast: 350mgI/ml,75ml, 3.5ml/s

120kV, 200mAs, Contrast: 350mgI/ml, 75ml, 4.0ml/s

100kV, 480mAs, Contrast: 350mgI/ml, 50ml, 3.5ml/s



A Focus on Low Dose Design

0-Dose Platform

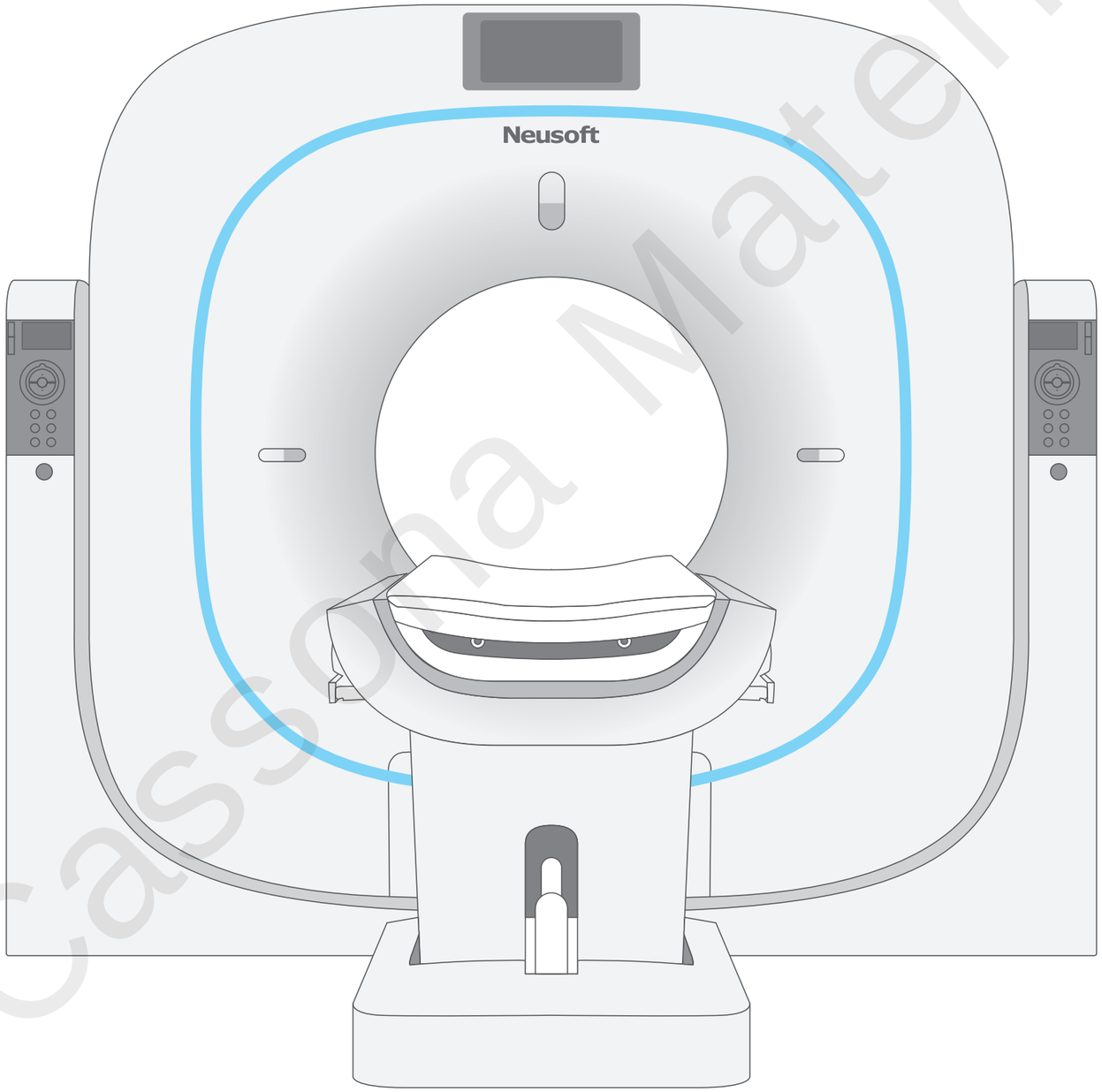
ClearView
Iterative Processing in projection and image spaces delivers unbelievable dose reduction.

240 degree exposure
Dose to the patient and attending physician is reduced.

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

Pediatric Protocols
Designed specifically for pediatric anatomy.

New detector design
Modular design delivers excellent X-Ray conversion efficiency, enhancing lower dose imaging while delivering exquisite image quality.



Auto kV
Automatically adjusted to the optimum kV. It reduces dose while insuring the optimum kV.

Dose Check
Fully implemented "Dose Check" ensures that a patient cannot be over radiated.

3D dose modulation
Tube current modulated based on the anatomy in the scan field to deliver anatomically optimized dose.

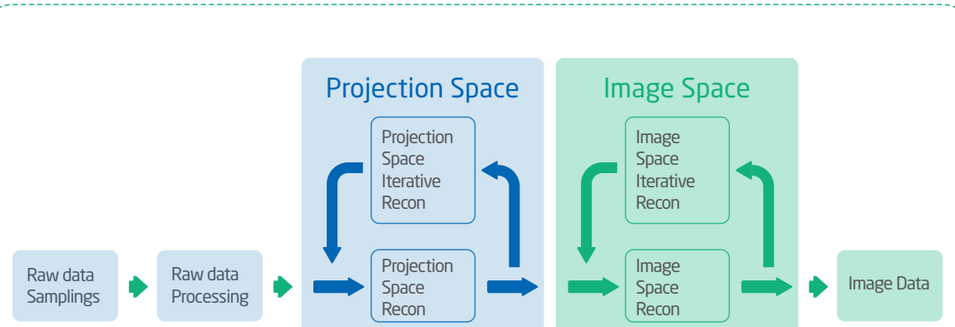
ECG dose modulation
Reduces tube current during non-imaging phases of the Cardiac Cycle to minimize patient dose.

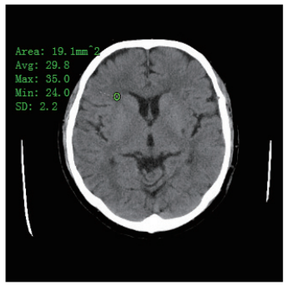
Dose Report
Dose Report with DICOM conformity can be automatically created after scanning.

A Focus on Low Dose Design

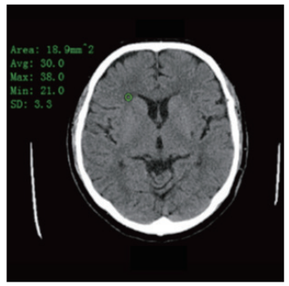
ClearView

By performing iterative image processing operations in both projection and image space, the noise and artifact that often accompany low dose acquisition can be removed. This is done without a reduction in image detail.

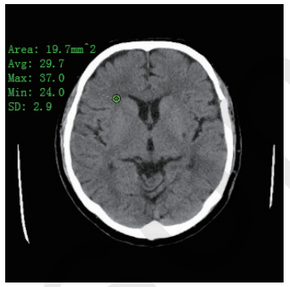




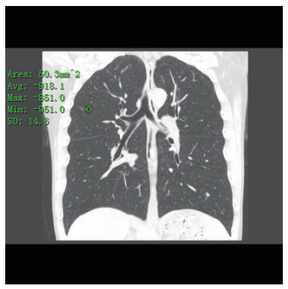
120kV 233mA
full Dose



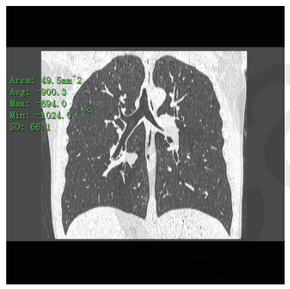
120kV 152mA
dose reduction



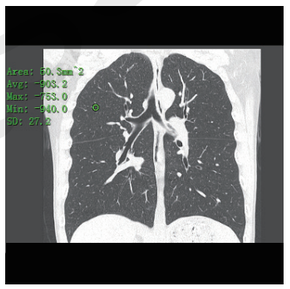
120kV 152mA
dose reduction + ClearView



120kV 150mA
full Dose



120kV 37.5mA
dose reduction

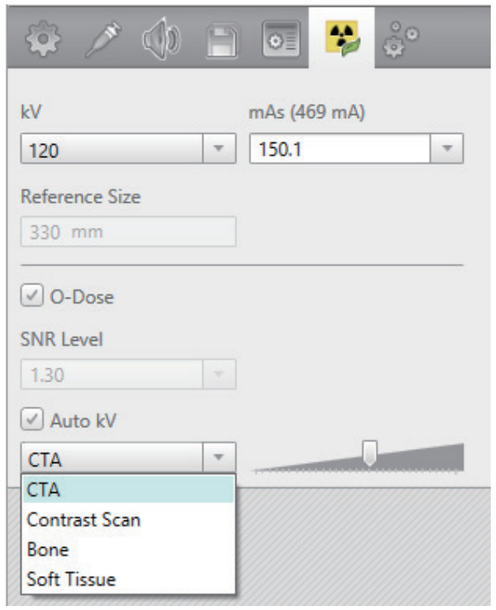


120kV 37.5mA
dose reduction + ClearView

Auto kV

Auto kV enables the Triple-low (low dose, low contrast concentration, low contrast volume) scanning while maintaining high image quality.

80kV, 100mAs, Contrast: 350mgI/ml, 30ml, 3.5ml/s

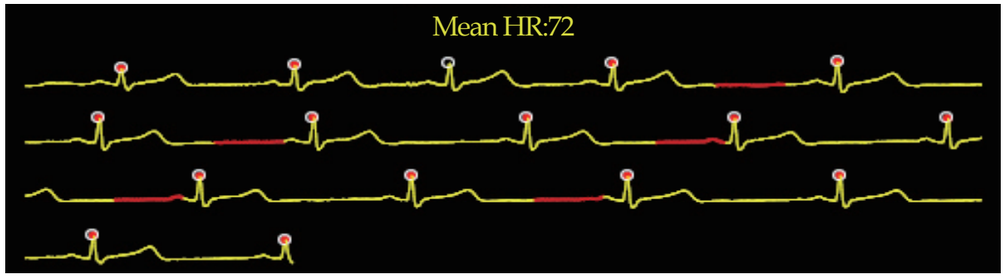


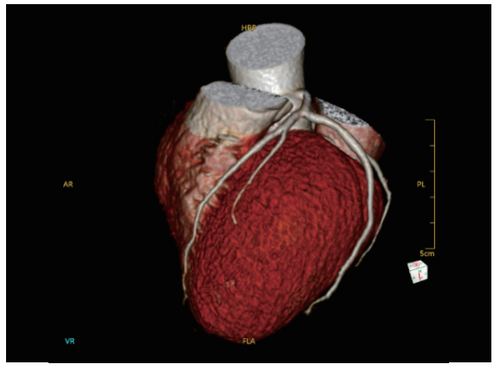
Robust, Low Dose Cardiac Imaging

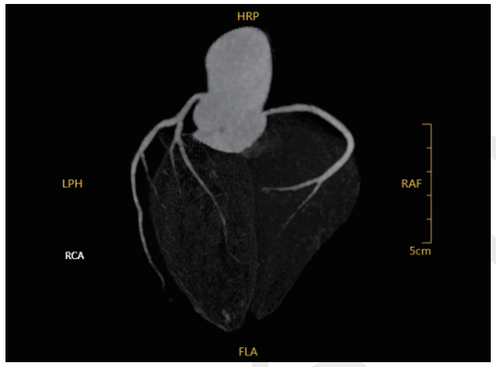
ECG-DOM

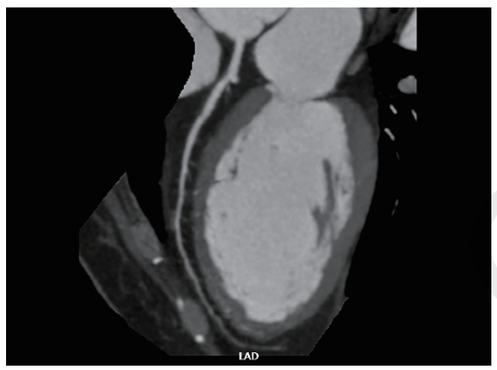
By reducing the tube current during periods of the Cardiac Cycle where image data is not being acquired, patient dose can be significantly reduced.
Low dose Cardiac Images can be acquired and then processed with ClearView reducing patient dose to <=1mSv.

100kV, 160mAs, Contrast: 350mgI/ml, 65ml, 5.0ml/s





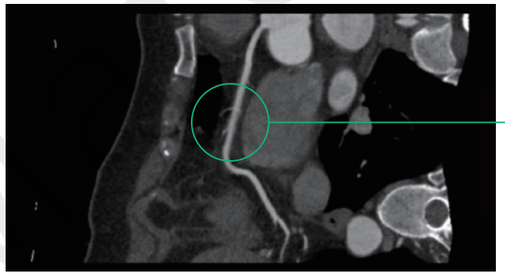




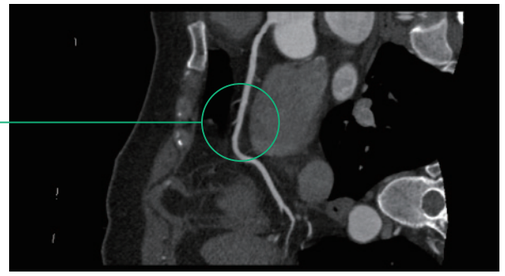
Coronary Motion Artifact Clear

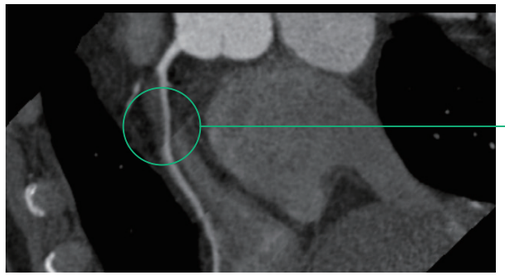
Neusoft latest algorithm can correct cardiac motion artifact based on the modeling of coronary vascular motion tracing, Which offers accurate cardiac imaging and significantly improves the temporal resolution.

CMC OFF



CMC ON





Patient Centric

Caring for Patients and Technicians

The humanized cover and table design deliver scanning information to the patient and technician. Patient comfort is assured, improving their experience and insuring a high quality examination.

Gantry LCD monitor

The integrated display panel and illuminated ring on the gantry gives REAL-TIME information.

Control panels that are easier to read and use

The bold new design of the control panels includes larger knobs which are easier to operate.

Improved patient couch comfort

Increased padding with easily accessible emergency release buttons.

Ergonomically designed control box

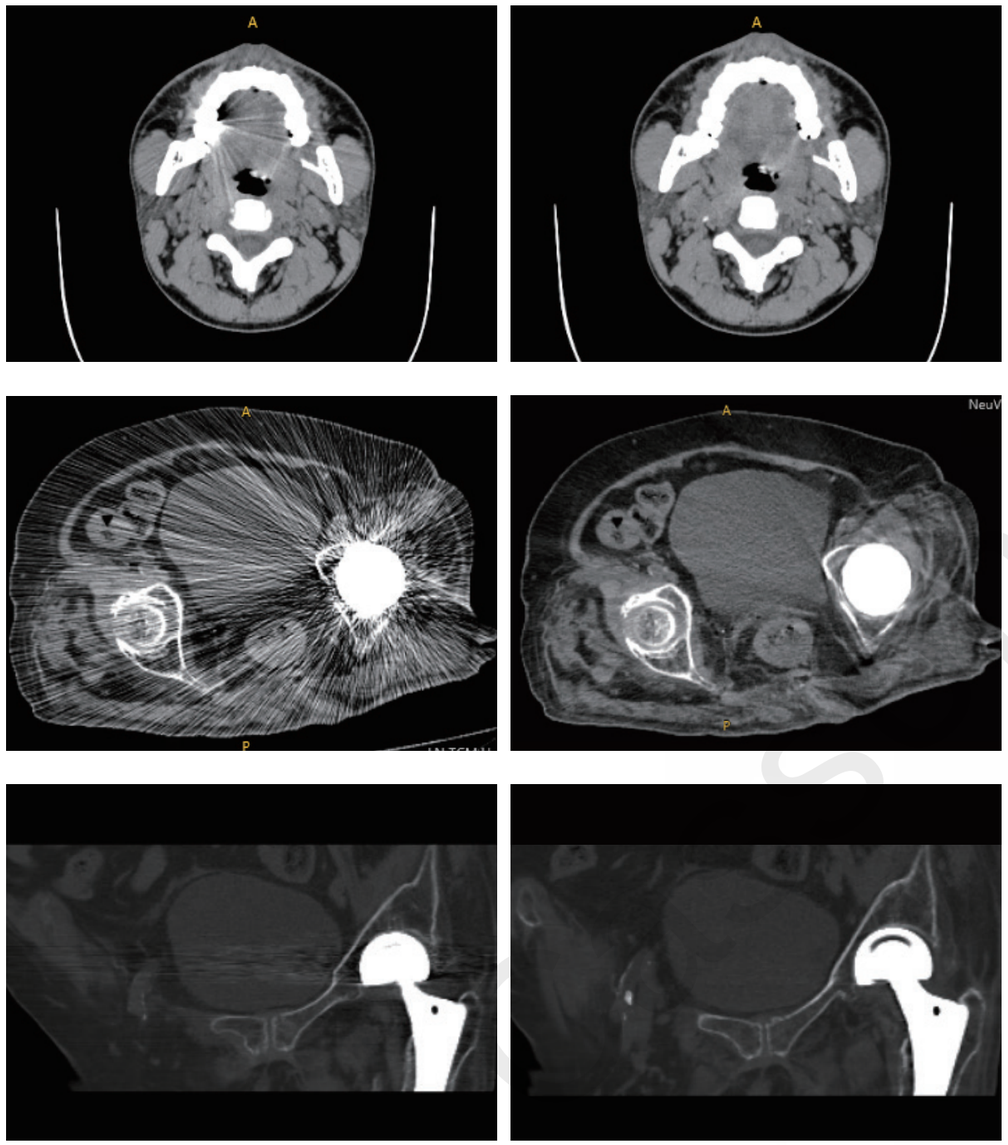
Easier for clinicians to operate, improving workflow.

The newly designed user interface improves clinician effciency by guiding the user effortlessly through the examination. The number of steps required to perform a study has been reduced, decreasing study times.

MAR+

Metal Artifact Reduction

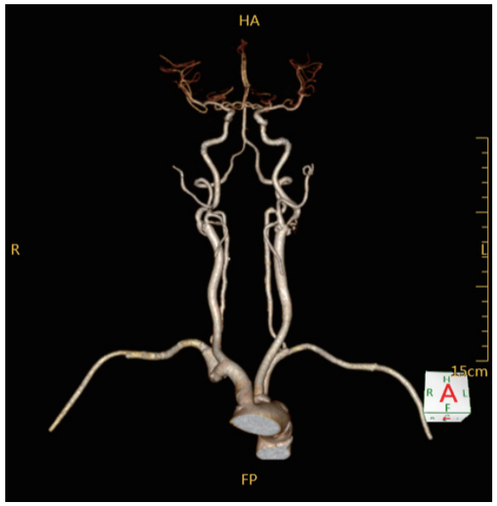
Effective integration of high resolution hardware and software results in superior image and diagnostic quality.

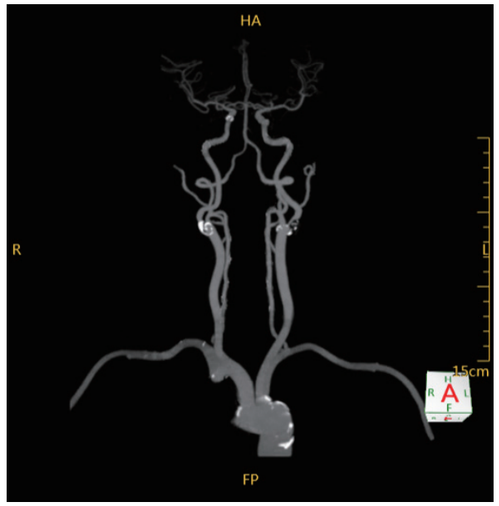


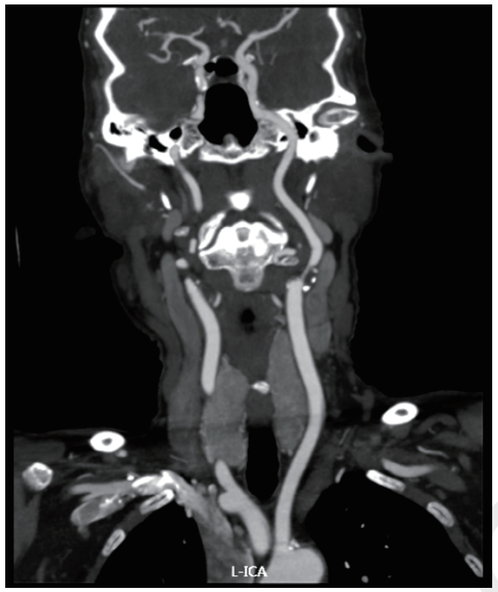
MAR+OFF MAR+ON

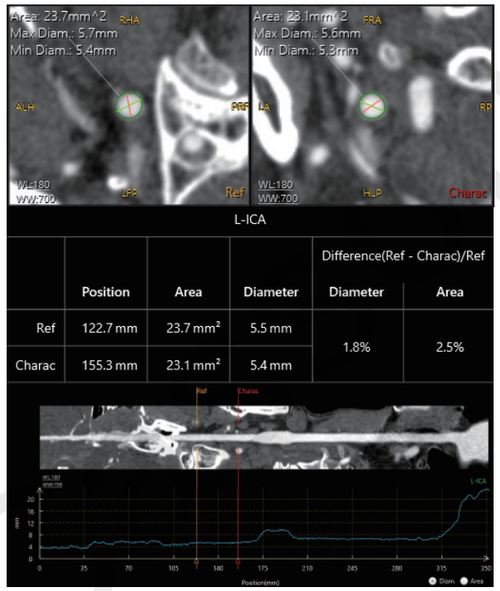
Maximizing Clinical Capabilities

Advanced Vessel Analysis





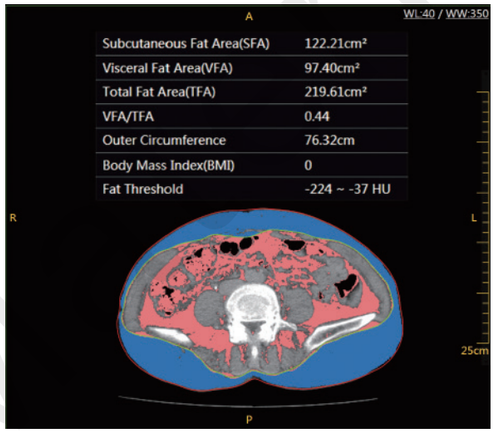




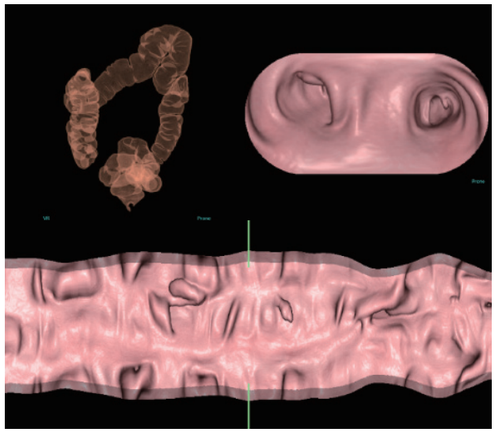
L-ICA

	Position	Area	Diameter	Difference(Ref - Charac)/Ref Diameter	Area
Ref	122.7 mm	23.7 mm²	5.5 mm	1.8%	2.5%
Charac	155.3 mm	23.1 mm²	5.4 mm		

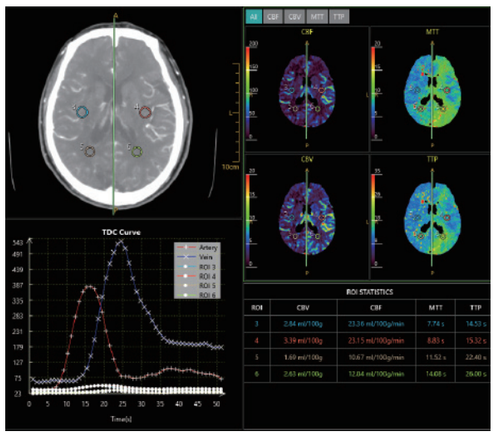
Fat Analysis



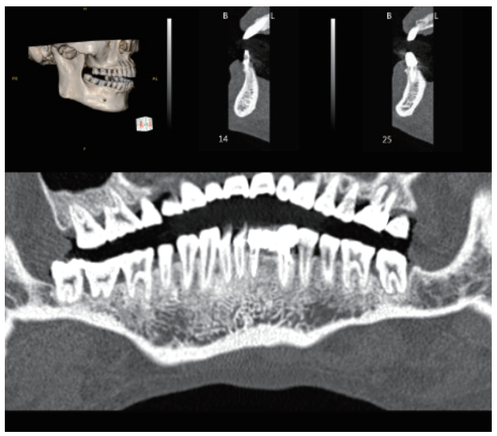
Virtual Colonoscopy



Perfusion Solution

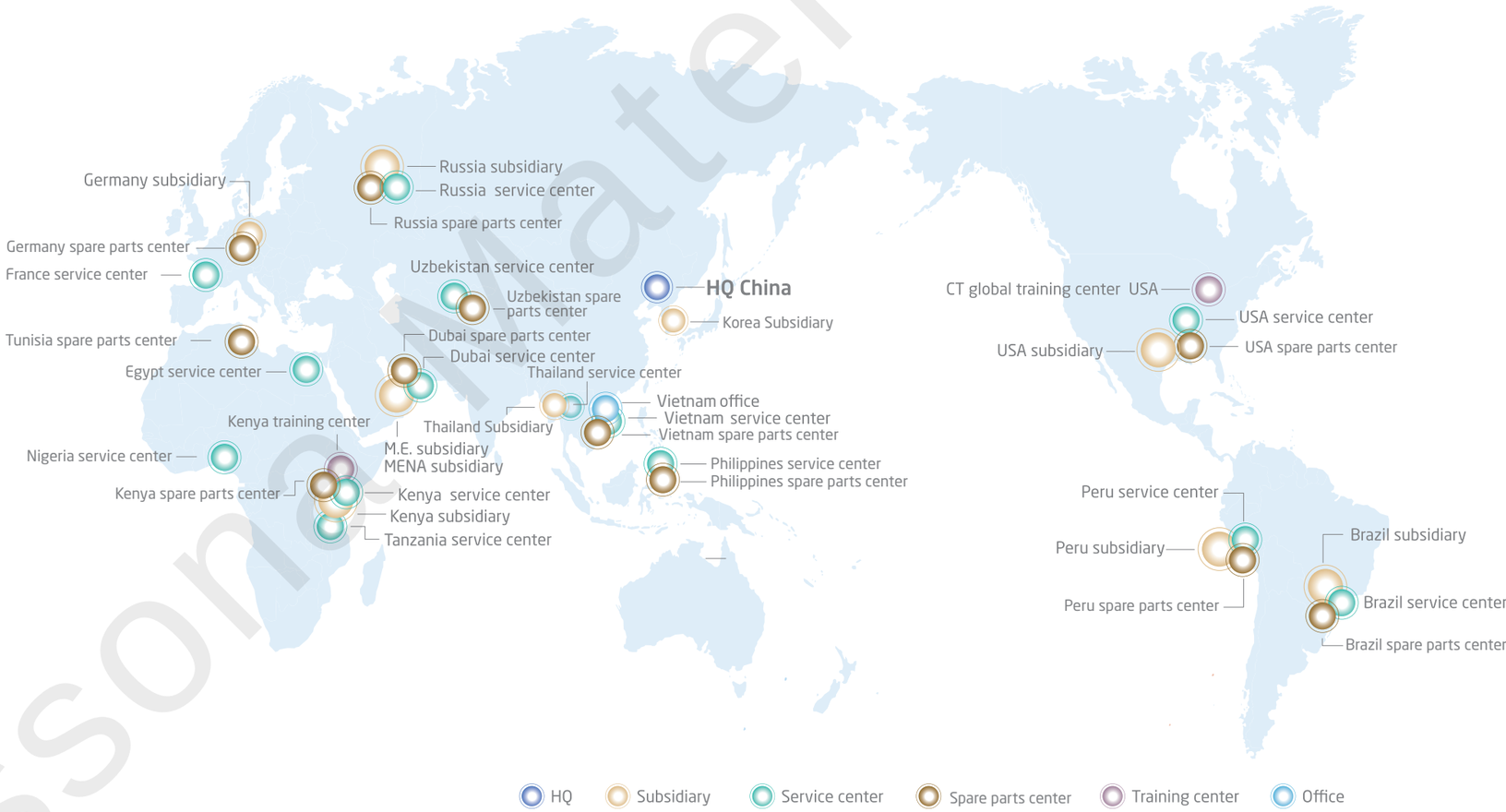


Dental Analysis



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.

* Note: The contents of this publication and the listed parameters are for reference only and not intended as legal offers or commitments. Neusoft Medical Systems reserves the right to modify the contents, design, specifications and options described herein without prior notice, and will not be liable for any consequences resulting from the use of this publication. Please contact your local Neusoft sales representative for the current information. The specific sales product configuration is subject to the actual contract signed by Neusoft.

* Not available in the United States.