NeuViz 64 In

The New Standard
in Multi-Slice CT Scanners

Neusoft® Medical Systems

Neusoft History of Innovation

- 20+ years of CT development
- Proven components that you know and trust
- A patented detector design maximizes conversion efficiency
- Rapidly expanding installed base in North America

NeuViz 16 Essence

NeuViz 128

NeuViz 64 In

Standard Features

- MPR/CMPR,3D/SSD,MIP/MinIP/AIP/VE/VR
- SAS on supported injectors, Bolus Tracking
- Networking 100/1000 Mbps
- Auto Voice and Film
- Volume Calculation
- Vessel Analysis
- ClearView IR
- Head and Neck Bone Removal
- Organ Safe
- Quad-Sampling
- Pediatric Reference Protocols
- Advanced Detector Design
- Improved, Intuitive User Interface
- High-Speed RF Data Transmission

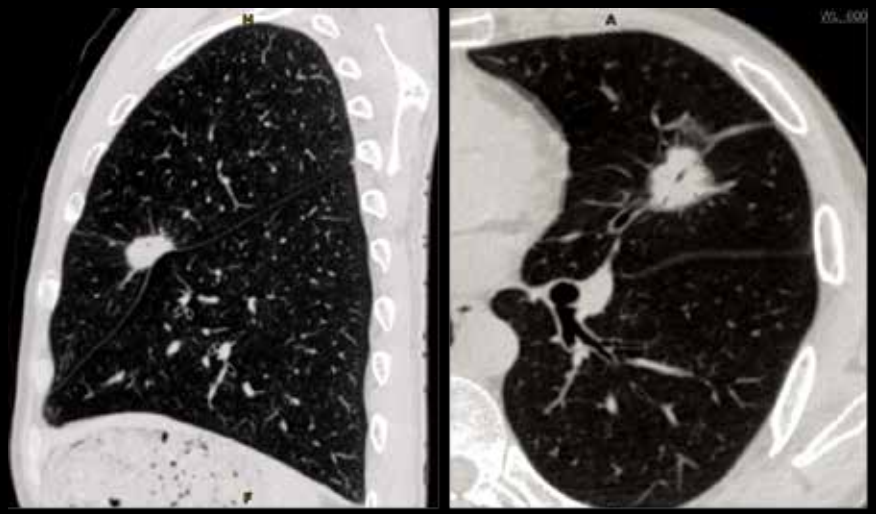
Optional Features

- Lung Density and 3D Lung Nodule Analysis
- Calcium Scoring
- Neuro DSA
- Dental Analysis
- Brain/Body Perfusion
- Neusoft Virtual Colonoscopy
- Tumor Evaluation
- CCT
- Prospective Cardiac Imaging

NeuViz Prime

NeuViz 64 In

Pioneering Technology



1024 Reconstruction Matrix

Exquisite resolution for clinical certainty

1024 matrix reconstruction technology provides the spatial resolution necessary for difficult-to-acquire studies.

High Resolution Lung Images

Multiplanar reformation showing a solitary pulmonary nodule in the left upper lobe. Nodule presents with irregular margins, lobulate sign, and hollowed pleura. There are clinical indicators for carcinoma.

High Resolution Inner Ear Images

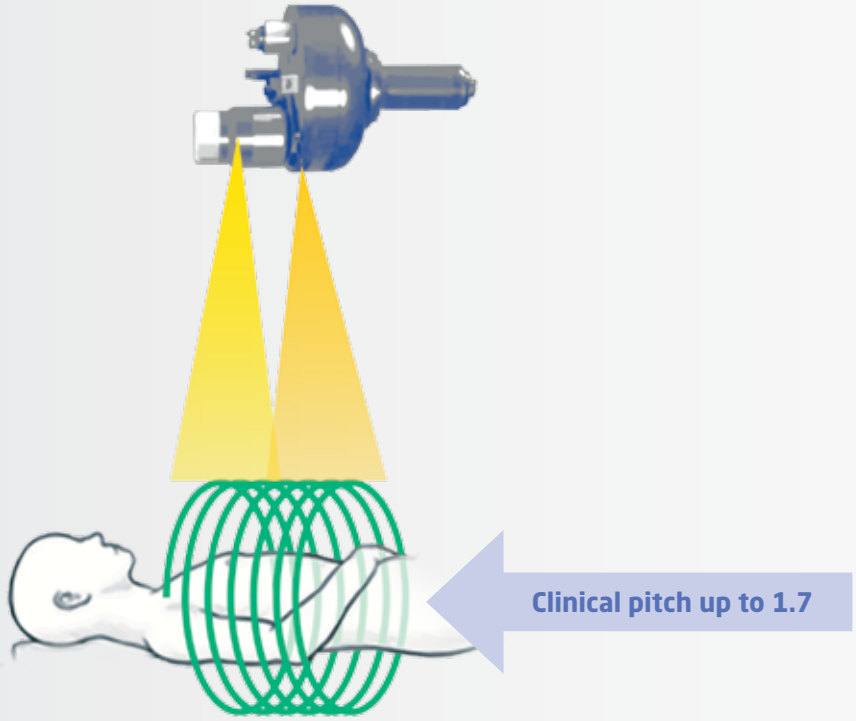
Coronal and axial multiplanar reformation shows the small structures of the inner ear such as cochlea, semicircular canals, and acicular.

Quad-Sampling

Faster scan times for clearer images

By dynamically moving the focal spot axially and longitudinally, sampling density is increased 400%. This allows for improved resolution, reduced artifact, and extended scanning ranges. Slices are scanned and double sampled to:

- Increase pitch
- Increase coverage
- Increase resolution
- Lower dose to patient

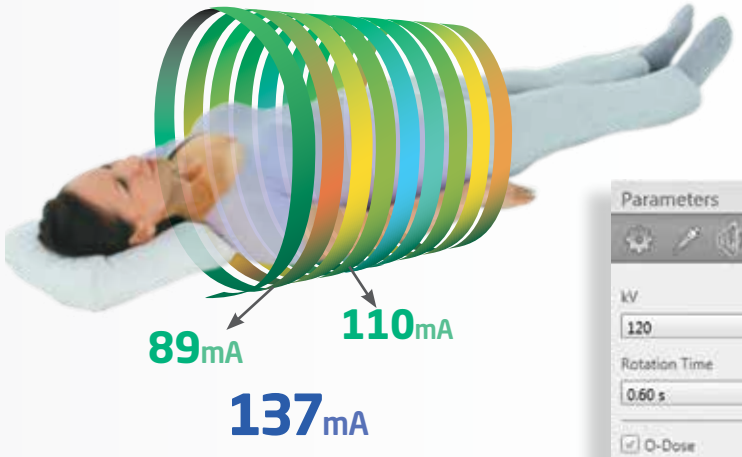


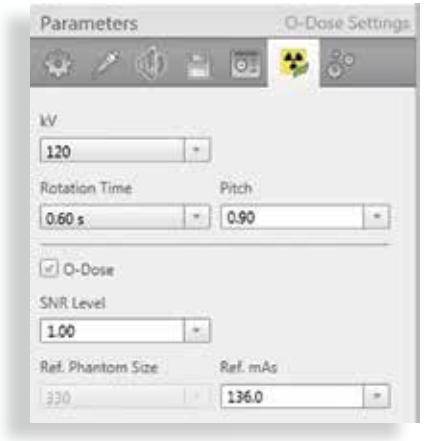
The O-Dose Platform

A multi-technology approach to minimizing patient dose

- 240 degree exposure for increased speed and reduced dose
- Organ-safe protecting vital areas
- Pediatric protocols for a lower radiation dose
- High efficiency detector design for increased x-ray absorption
- Dose check prevents accidental overexposure.
- 3D dose modulation modulates dose used for a specific anatomical region.
- ECG dose modulation reduces dose without diminished image quality or recon speed.

The O-Dose platform modulates mA ensuring the optimum dose is used for the specific anatomical region being imaged depending on patient body and size.



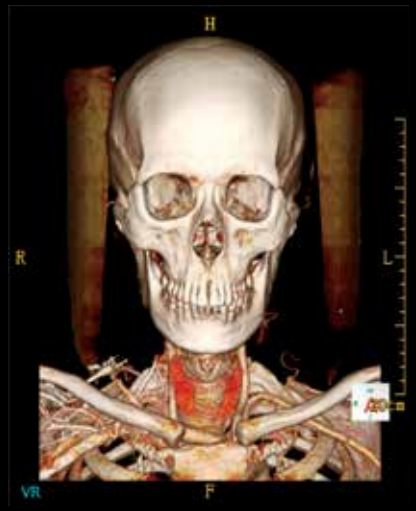


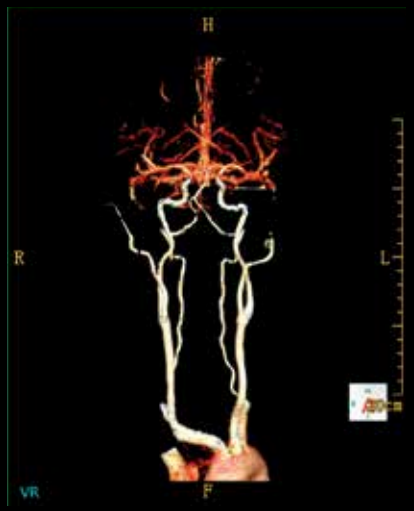
Advanced Applications

120kV, 180mA,
full dose

120kV, 90mA,
dose reduction

120kV, 90mA,
dose reduction
plus ClearView





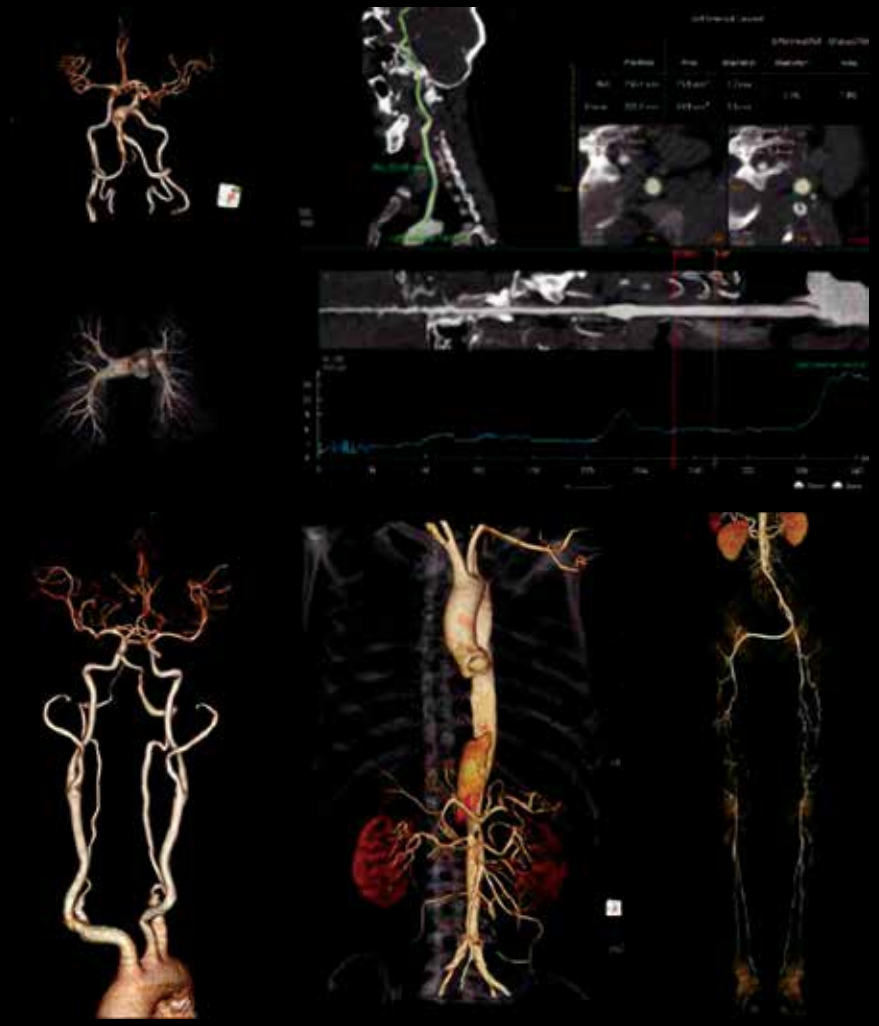
Our standard configuration is the gold standard

Clearview Iterative Reconstruction (IR) algorithm operates in both projection and image spaces to transform noisy, low-dose images into high-quality studies that deliver improved diagnostic certainty. All edges, gutters, and anatomical detail and pathology are preserved.

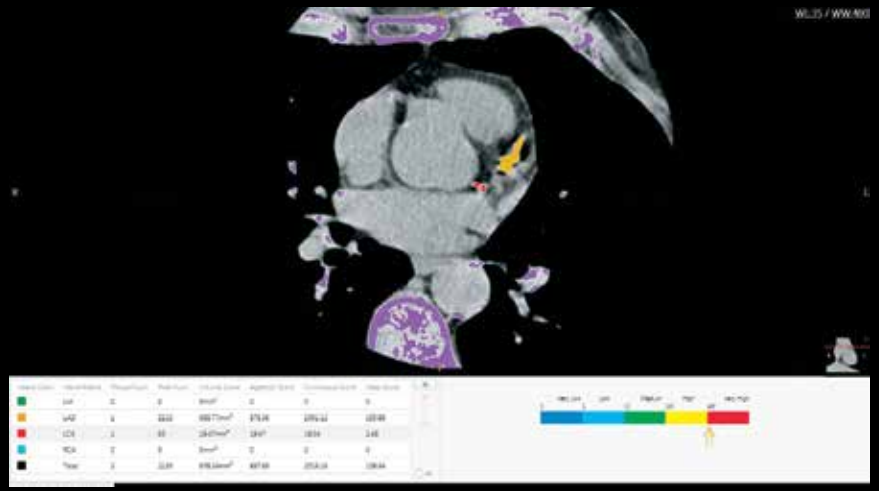
Head and Neck Bone Removal lowers dose by eliminating the need for running DSA examinations and reducing the time to do a Circle of Willis study. Neuro studies become effortless and can be performed at the CT console.

Metal Artifact Reduction. Software constructs front projection, anatomy, and noise models from the raw data and image data while removing the streaking artifact.

Vessel Analysis Run Off
Volume rendering (VR) studies take advantage of the extended scanning range capability of the NeuViz 64 In.



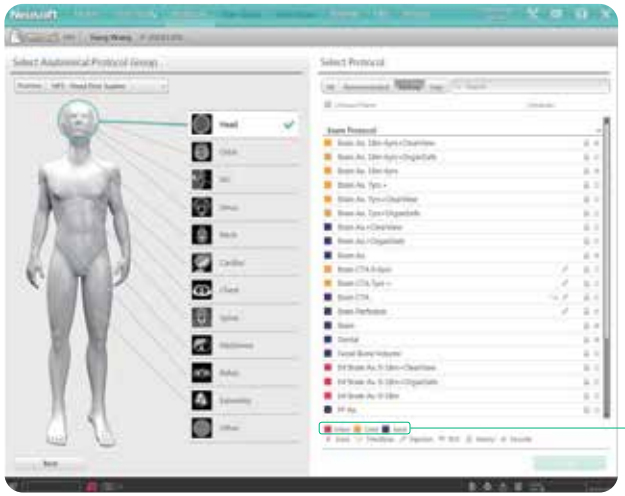
Cardiac Calcium Scoring
Accurately measures the amount of calcified plaque in coronary arteries to calculate coronary artery disease risk.



Workflow and System Configuration

Optimized, Intuitive Workflow

The carefully designed user interface improves workflow and clinician efficiency by guiding the user effortlessly through the examination.

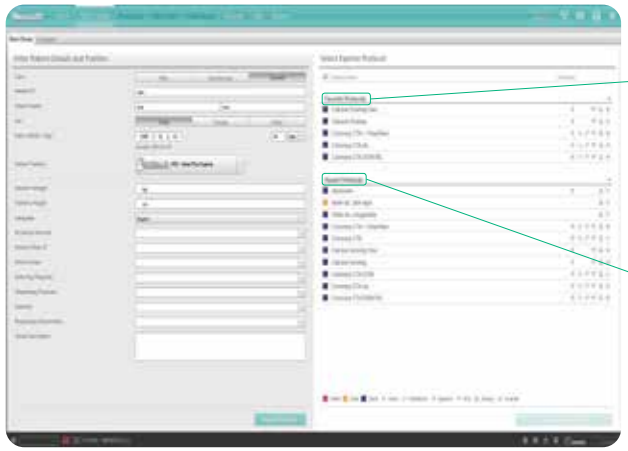


01 | Protocols are grouped by body anatomy which helps technicians quickly choose proper protocols

02 | Protocols for different patient age groups are differentiated by color, reducing the potential for error and contributing to workflow efficiency.

Infant Child Adult

01 | 02 |



Favorite Protocols

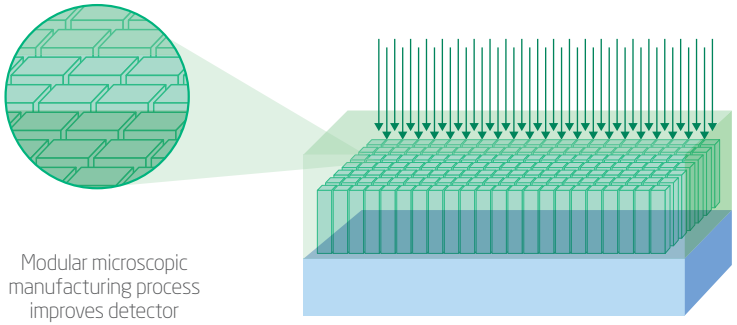
03 | Personally configured protocols save time and one-click scanning initiation improves workflow by reducing steps.

Recent Protocols

04 | Smart protocol management learns scanning patterns so that protocols are listed by use frequency..

Dose Efficient Detector

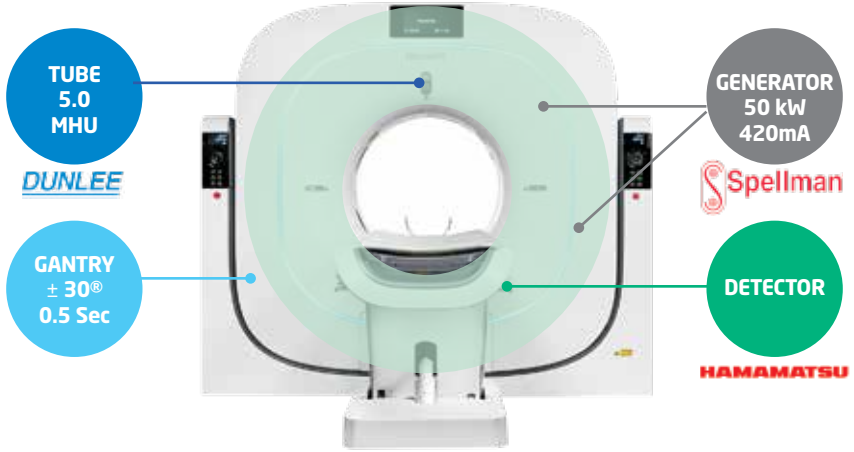
A patented manufacturing process reduces afterglow time and maximizes conversion rate. This results in lowering the patient dose with higher diagnostic quality..



Modular microscopic manufacturing process improves detector performance

Trusted Components

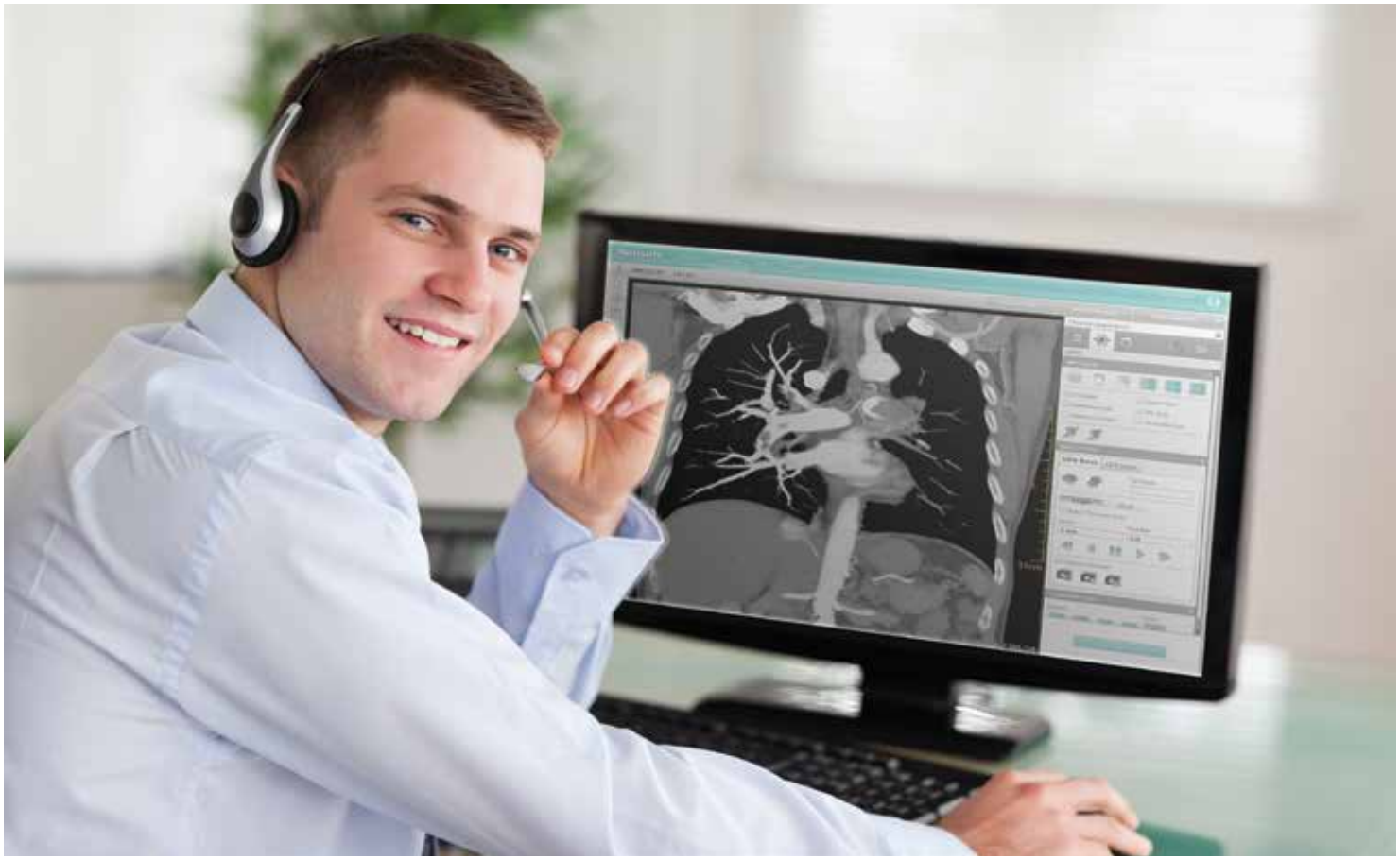
The NeuViz 64 In utilizes highly respected and reliable components for optimal dependability.



SPECIFICATIONS	64 In
Minimum room size scan and operator combined	254 sq/ft
Minimum ceiling height	6'7"
Gantry dimension (L x W x H)	7' 4.75" x 2' 11" x 6' 3.6"
Main power requirement	80 KVa
Aperture	72cm
Scan field	50cm
Tilt	plus/minus 30°
Rotation times	0.5s, 0.6s, 0.8s, 1.0s, 1.5s, 2.0s
Partial rotation times	0.32s, 0.39s, 0.52s, 0.65s, 0.97s, 1.3s
Temporal resolution	83ms
Focus-to-isocenter distance	570mm
Focus-to-detector distance	1040mm
Detectors	32
Slices	64
Number of detector elements	672x32
Total channels per slice	1344
Number of projections	4640
Sequence acquisition modes	64x0.625, 32x0.625, 16x0.625, 8x0.625, 4x0.625, 2x0.625
Spiral acquisition modes	64x0.625, 32x0.625, 16x0.625
X-ray tube	CTR2250
Tube current range	30mA～420 mA
Voltage	80kV, 100kV, 120kV, 140kV
Heat storage	5.0 Mhu
Cooling rate	815 KHU/min
Focal spot (mm)	0.6×1.2 (Small); 1.1×1.2 (Large)
Filter	Al Equivalent Tube: 1.5mm Al
Beam-limiting device	Equivalent to 6.68mm Al
Generator	50KW

SPECIFICATIONS	64 In
Table load	Standard 205kg/452lbs; Optional 300kg/661lbs
Table feed speed	1mm/s-160mm/s
Verticle table/travel range	430mm-970mm
Verticle travel speed	9 mm/s-15mm/s
Scannable range	1750mm
Host computer	Intel Quad Core Xenon processor technology; 2.40 Ghz
Display	1,280 x 1,024 resolution
Image storage	500 GB; 960,000 uncompressed images
Additional storage	CD-R, DVD
Scout length	50-1700mm
Scan times	1.5-18s
Scout views	AP, Lateral, Dual
Axial reconstructed slice thicknesses	0.625, 1.25, 2.5, 5, 10mm
Dynamic multi-scan	Multiple continuous scans without table movement
Spiral acquisition reconstruction slice thicknesses	0.625, 0.8, 1, 1.25, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8, 9, 10mm
Slice increment	0.1-20mm
Maximum scan time	100 seconds
Pitch	.13-2.0
Real-time display	Yes
Scan field	50cm
Recon field	5-50cm
Recon matrices	512x512, 768x768, 1024x1024
HU scale	–3,2768 to +3,2767
Recon speed	20 images/second
Cine display rate	30 images/sec
Full DICOM support	Yes
Low-contrast resolution	4mm @ 3HU; 19.8 mGy
High-contrast resolution	0%MTF 17lp/cm

Delivering Exemplary Service



Rest Assured with Remote Service Capabilities*

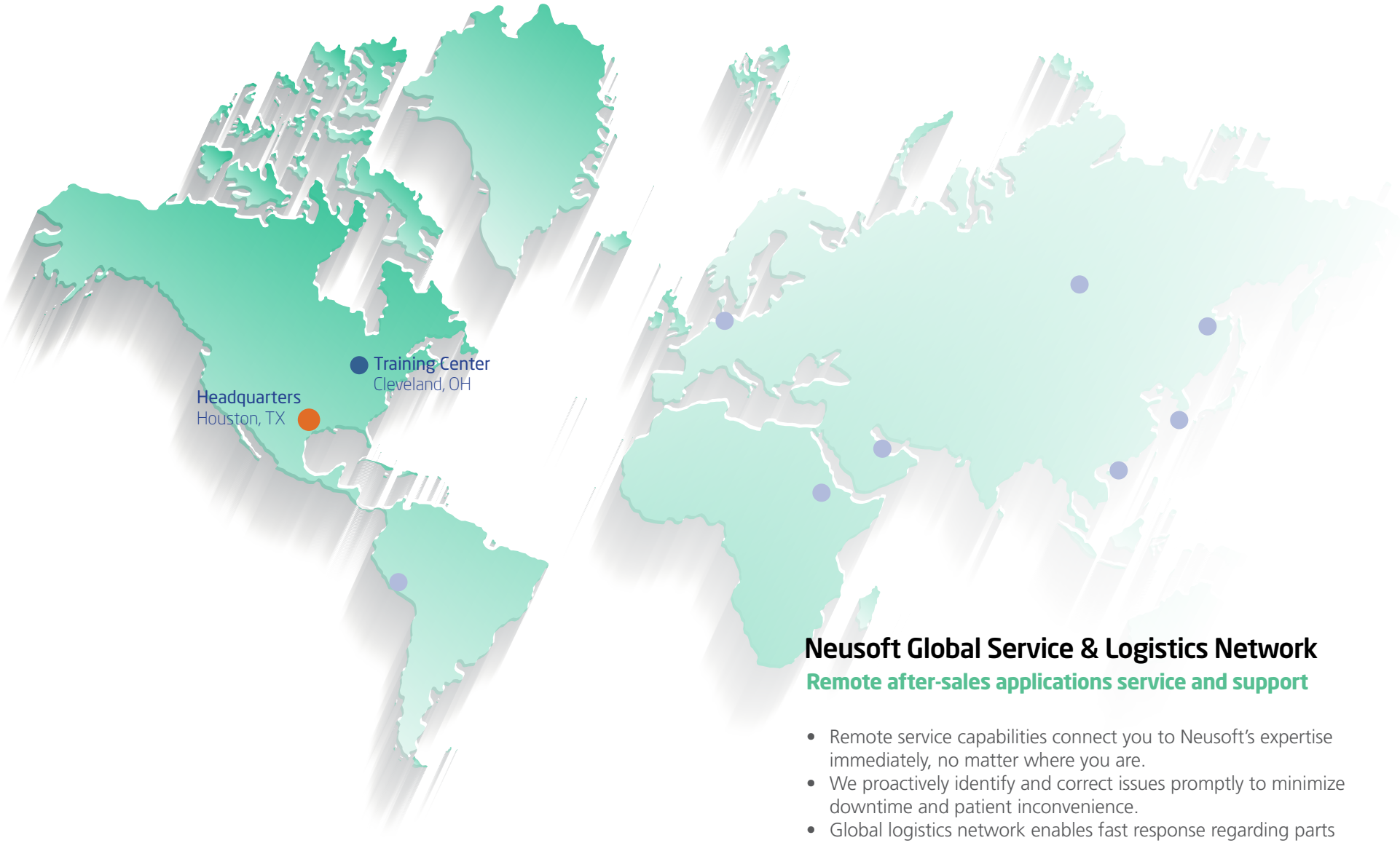
The Neusoft Remote Service package continuously links your scanner directly to our online service center to proactively detect performance deviations and prevent downtime and ensure that the NeuViz 64 In is running at maximum performance.

**Optional. Broadband Internet is required.*

Invest Wisely

Neusoft delivers more functionality and a lower total cost of ownership:

- Extended warranty including non-prorated tube coverage.
- FREE Applications support.
- FREE software upgrades for life — no service contract required..



Neusoft Global Service & Logistics Network

Remote after-sales applications service and support

- Remote service capabilities connect you to Neusoft's expertise immediately, no matter where you are.
- We proactively identify and correct issues promptly to minimize downtime and patient inconvenience.
- Global logistics network enables fast response regarding parts and supplies.

Only available in NA.

Neusoft® Medical Systems

HEADQUARTERS
Neusoft Medical Systems Co., Ltd.
No. 16 Shiji Road,
Hunnan New District
Shenyang 110179, China
Tel: +86 24 8366 3269
Fax: +86 24 2378 2797
http://medical.neusoft.com/en

CONTACTS:
Neusoft Medical Systems USA, Inc.
14425 Torrey Chase, Suite 100
Houston, TX 77014
Tel: +1 281 453 1205
nmsusa@us.neusoft.com

Middle East & North Africa
Dubai Healthcare City
No. 705/706, Bldg., 26 Al-Baker Bldg.
Dubai Healthcare City, UAE
http://medical.neusoft.com
Tel: +971 4 4404885

Europe
Tel: +86 24 8366 3996

South America
Tel: +86 24 8366 0761

Africa
Tel: +86 24 8366 0565

Asia & Oceania
Tel: +86 24 8366 5682

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