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NeuViz 128/V 15.04

NeuViz 128

The **FUTURE** has **ARRIVED**

NeuViz 128

Neusoft®

Neusoft CT

"A History of Innovation"

NeuViz Dual

NeuViz Twin

NeuViz 16

NeuViz 16 Classic

NeuViz 64

CT-C2000
1998

CT-C2800/3000
2000

CT-C2800/3000 Dual
2002

Neusoft enters into a joint venture
with Philips Medical Sytems
2004

NeuViz Dual
2005

Neusoft CT installed base
reaches 1000 systems
2007

NeuViz 16
2009

NeuViz 64
2012

NeuViz 128 RELEASED
2015

NeuViz 128

Remarkable Clarity and Precision

The NeuViz 128 represents the latest state of Neusoft technological innovation. This exciting NEW product delivers increased value by reducing operating costs and improving work flow through the intelligent use of advanced clinical technology. NeuViz 128 brings the remarkable clarity and precision to CT imaging.

NeuViz 128 Product Highlights

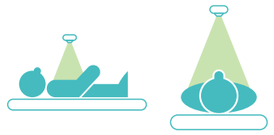
- Quad-sampling technology
- iHD (isotropic High Definition) imaging enables High Spatial Resolution: 24lp/cm
- Micro-STAR detector
- 1024x1024 large matrix imaging
- Comprehensive Low dose design
- ClearView, an advanced iterative reconstruction algorithm that adds diagnostic certainty to low dose imaging

High Resolution Imaging-Chain

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

Quad-Sampling

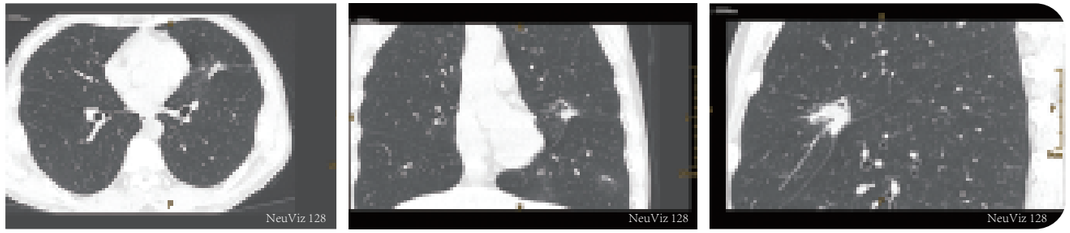
By dynamically moving the focal spot axially and longitudinally, sampling density is increased 400%. This means improved resolution, reduced artifact and extended scanning ranges.



Micro-STAR detector

iHD (isotropic High Definition) enables the half-slice acquisition, which delivers 24lp/cm isotropic resolution.

High resolution scanning (1024 x 1024 matrix, small focal spot) provides the spatial resolution necessary to perform lung nodule and inner ear studies.



1024 large matrix image

NeuViz128

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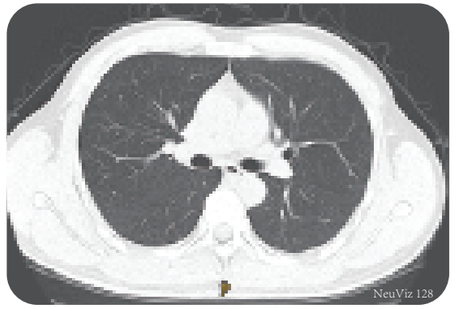
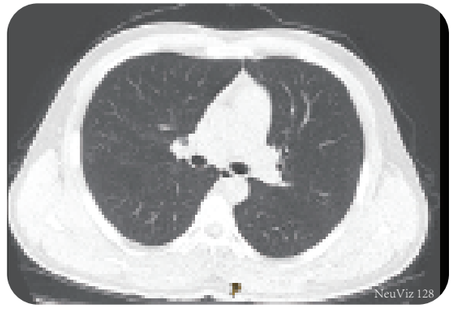
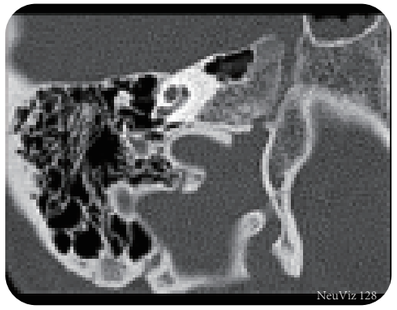


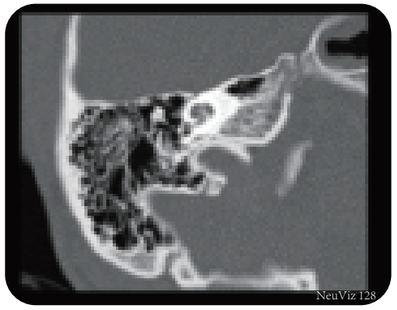
1024 x 1024 matrix, lung



512 x 512 matrix, lung

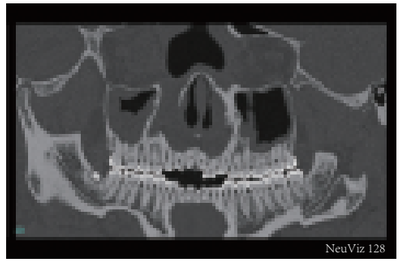


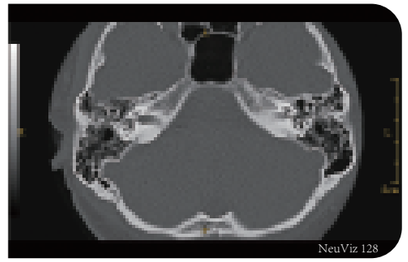
1024 x 1024 matrix, inner ear



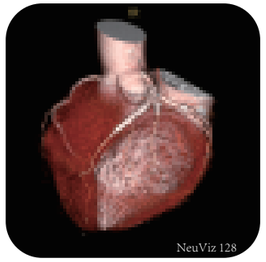
512 x 512 matrix, inner ear

High Definition Imaging

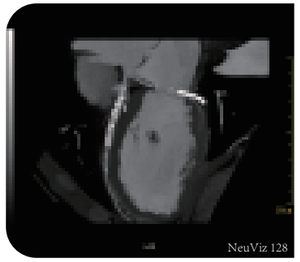


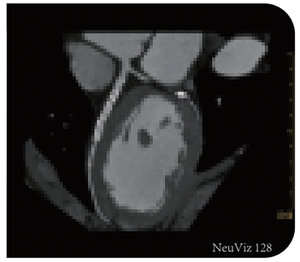


Small facial features



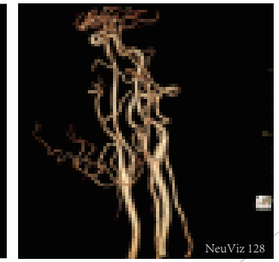
3D Caridac Recon



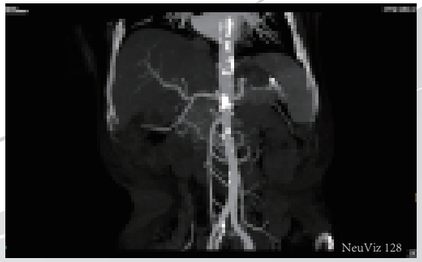


Coronary artery stents

Encephalic Angioma



Lingual artery



CTA

A Focus on Low Dose Design

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

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

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

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

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

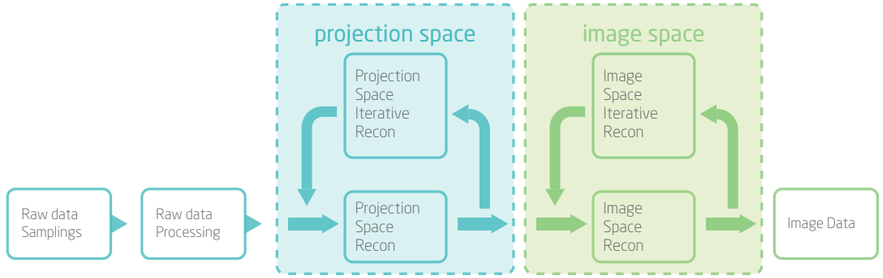
Dose Check
Full implementation of "Dose Check". Patient cannot be over radiated.

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

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

ClearView

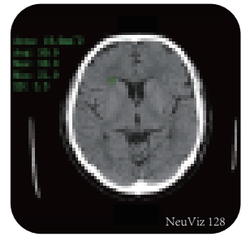
By performing iterative image processing operations in both projection and image space, the noise and artifact that often accompany low dose acquisition can be removed. This is done without a reduction in image detail.



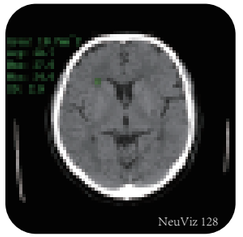
Low Dose Platform with optimized hardware AND software

Compared with routine 128-slice models, the Spatial Resolution of NeuViz 128 increases by 41%.

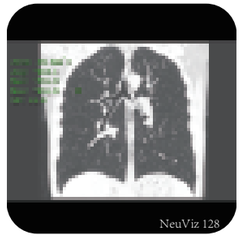
120kV 233mA
full Dose



120kV 152mA
dose reduction

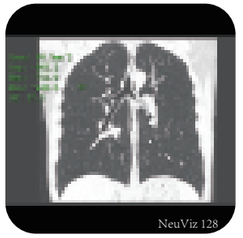


120kV 152mA
dose reduction +ClearView



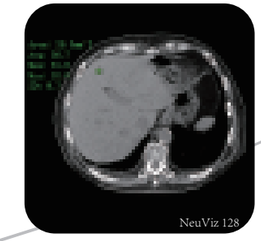
120kV 150mA
full Dose

120kV 37.5mA
dose reduction



120kV 37.5mA
dose reduction + ClearView

120kV 200mA
full Dose



120kV 90mA
dose reduction

120kV 90mA
dose reduction + ClearView

A system design that puts the patient at ease

The new cover and table design deliver important information to the patient and the clinician. Patient comfort is assured, improving their experiencing and insuring a high quality examination.

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

128

Gantry LCD Monitor

The integrated display panel and illuminated ring on the gantry give REAL-TIME information regarding the status of the scan.

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.

Ergonomically designed Control Box

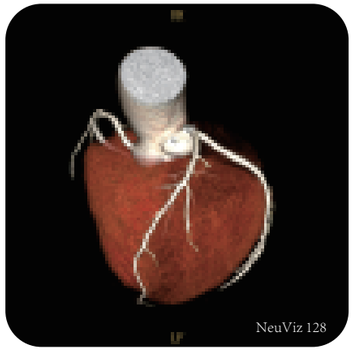
Easier for clinicians to operate, improving workflow.

Improved Patient Couch comfort

Increased padding with easily accessible emergency release buttons.

Robust, Low Dose Cardiac Imaging

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.

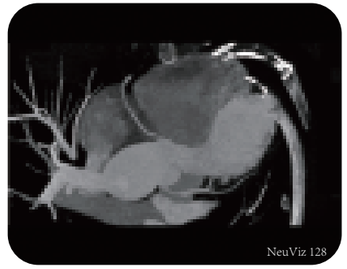


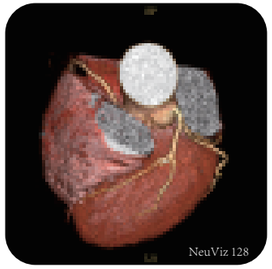
Prospectively Triggered Cardiac Imaging, 80kV, 0.4mSv

Maximizing Clinical Capabilities

'Triple-low' (low dose, low contrast concentration, low contrast volume) 100kV, 270mgI/ml, 50ml

Angiography of Pulmonary Arteries, 1.5mSv



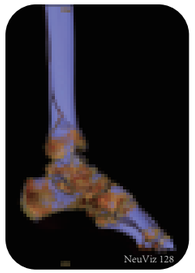


Height：164cm, Weight：131kg, BMI:50

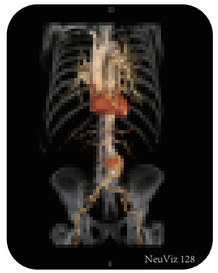
Chest Pain Triad

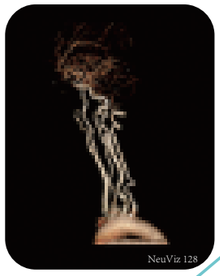
Fat Analysis

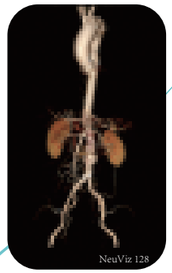
Color-coded 3D Bone



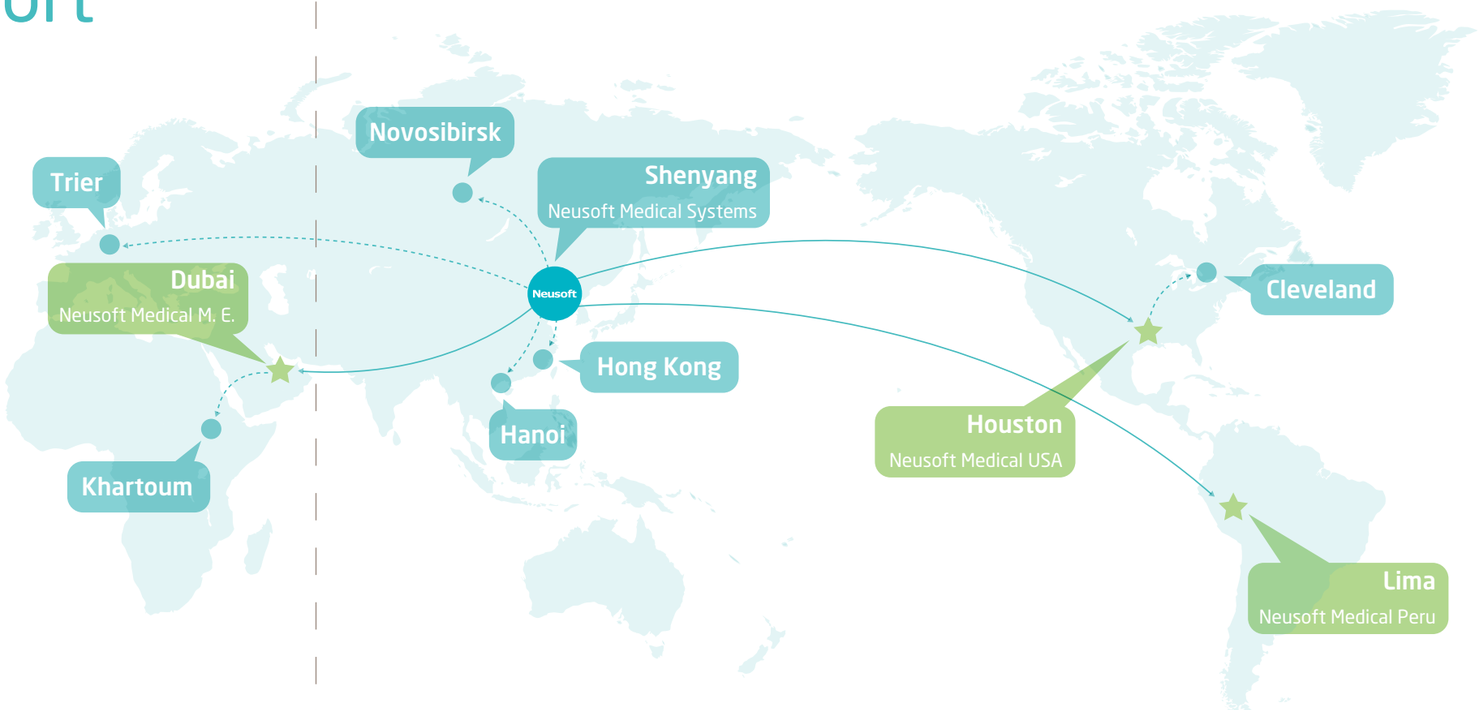
CTA Runoffs







Service and Logistics Support



Support service, after the sales

- Remote diagnostic capabilities that bring Neusoft expertise to you **IMMEDIATELY,** no matter where you are!
- Identifying and correcting problems PROACTIVELY, minimizing downtime and patient inconvenience.
- Global logistics network, prompt response regarding parts and supplies.

Neusoft Medical Systems reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation.