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medical.neusoft.com/en

NeuViz 128/Y16.09

NeuViz 128

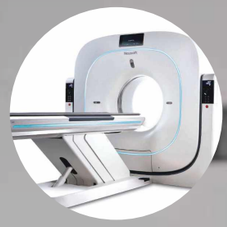
The FUTURE has ARRIVED

Neusoft® Medical Systems

128

Neusoft CT

“A History of Innovation”



NeuViz 128 RELEASED

2015

NeuViz 64

2012

NeuViz 16

2009

Neusoft CT installed base reaches 1000 systems

2007

NeuViz Dual

2005

Neusoft enters into a joint venture with Philips Medical Systems

2004

CT-C2800/3000 Dual

2002

CT-C2800/3000

2000

CT-C2000

1998

NeuViz Dual

NeuViz Twin

NeuViz 16

NeuViz 16 Classic

NeuViz 64

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.

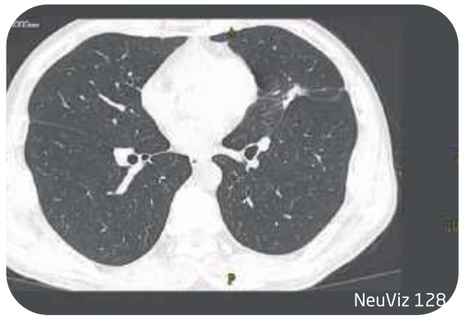
Micro-STAR detector

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

High Resolution Scanning

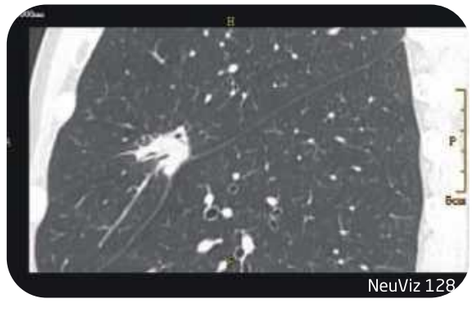
128

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

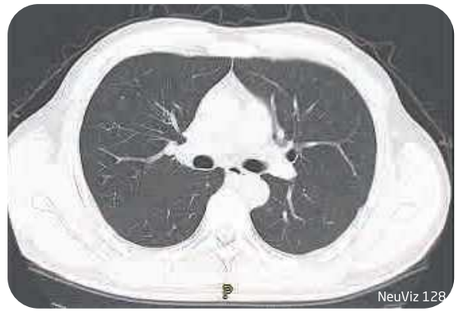


1024 large matrix image

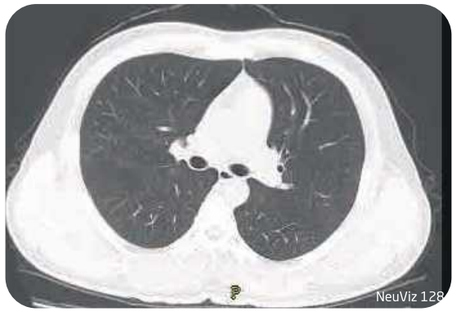
1024 large matrix image



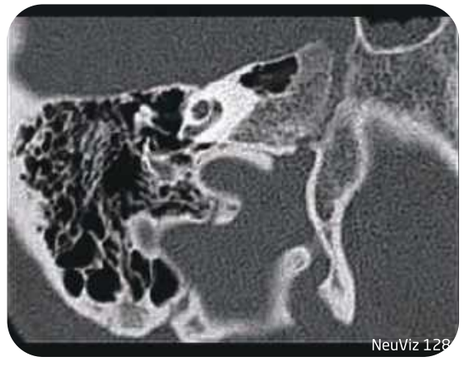
1024 large matrix image



1024 x 1024 matrix, lung



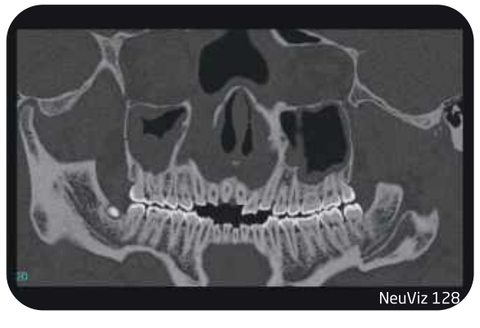
512 x 512 matrix, lung

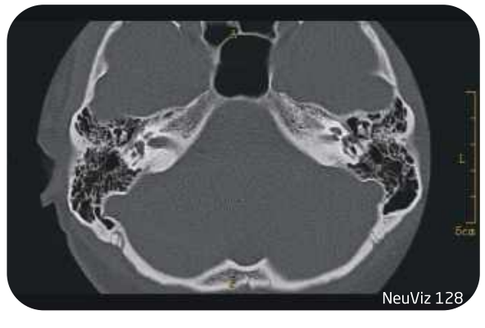


1024 x 1024 matrix, inner ear

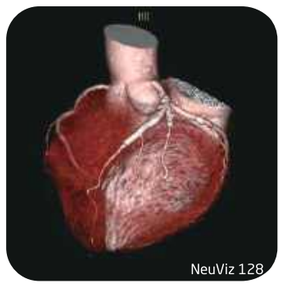
512 x 512 matrix, inner ear

High Definition Imaging

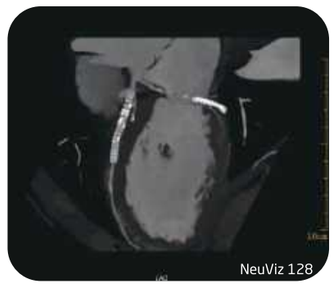




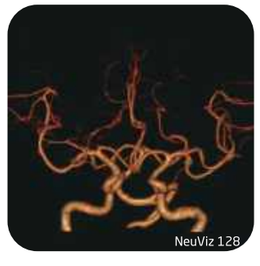
Small facial features



3D Cardiac Recon

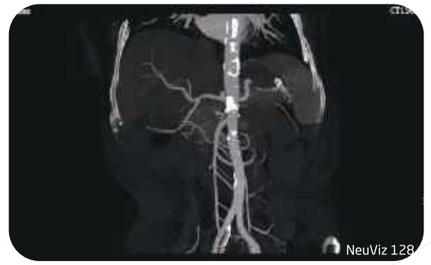


Coronary artery stents



Encephalic Angioma

Lingual artery



CTA

A Focus on Low Dose Design

128

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

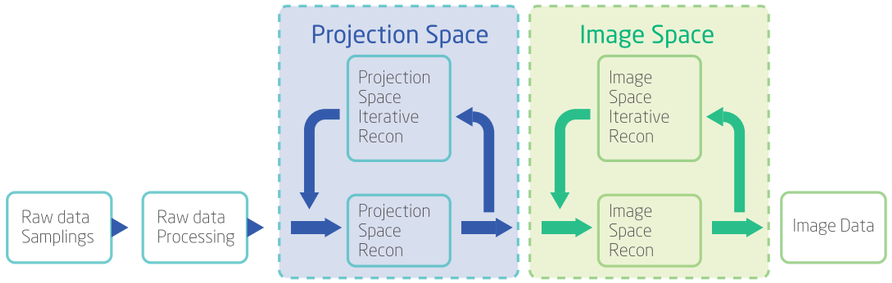
Tube current modulated based on the anatomy in the scan field. Anatomically optimized dose.

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

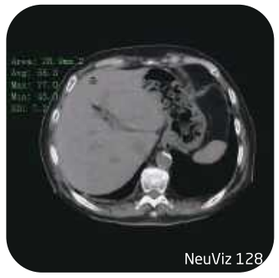
120kV 152mA
dose reduction

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.

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

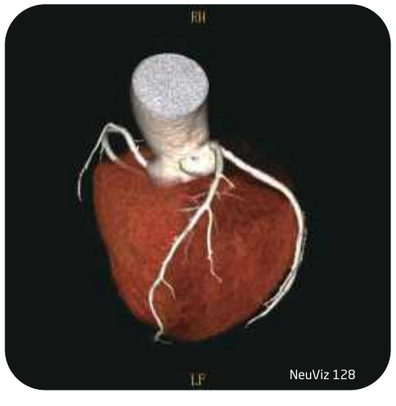
Easier for clinicians to operate, improving workflow.

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.

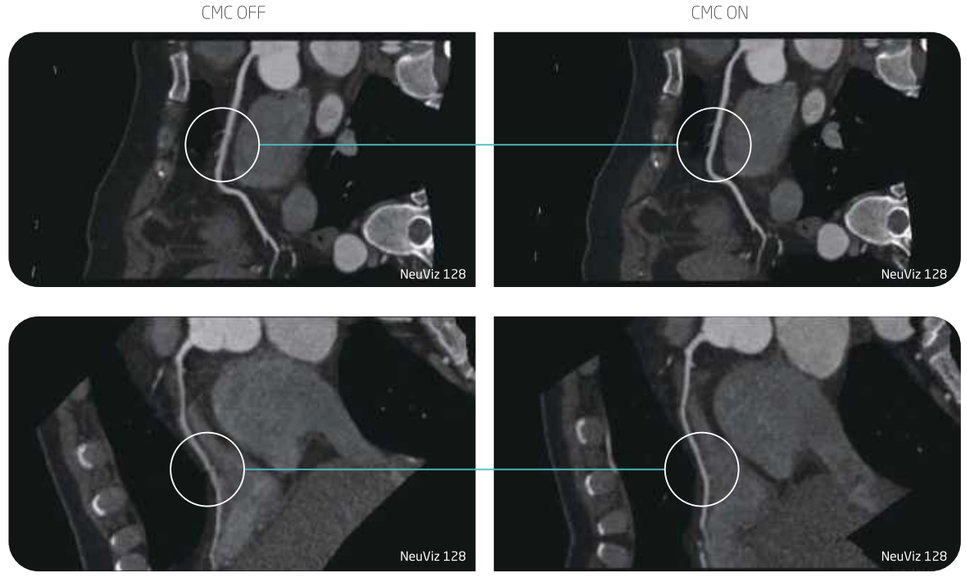


Prospectively Triggered Cardiac Imaging, 80kV, 0.4mSv

CMC (Coronary Motion Artifact Clear)

128

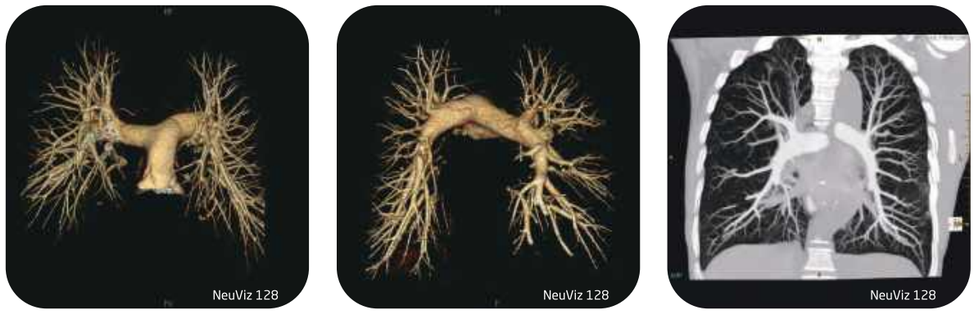
Neusoft latest algorithm can correct cardiac motion artifact based on the modeling of coronary vascular motion tracing, Which offers accurate cardiac imaging and significantly improve the temporal resolution.



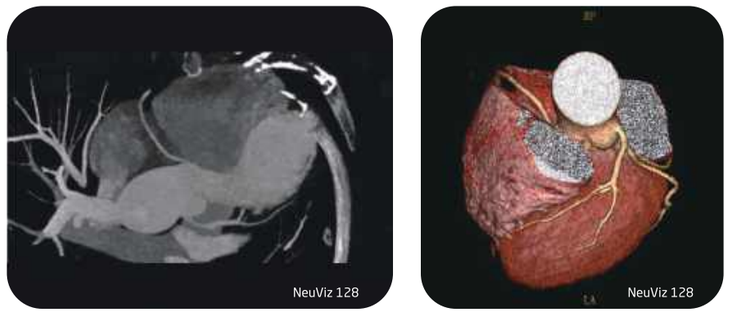
Maximizing Clinical Capabilities

128

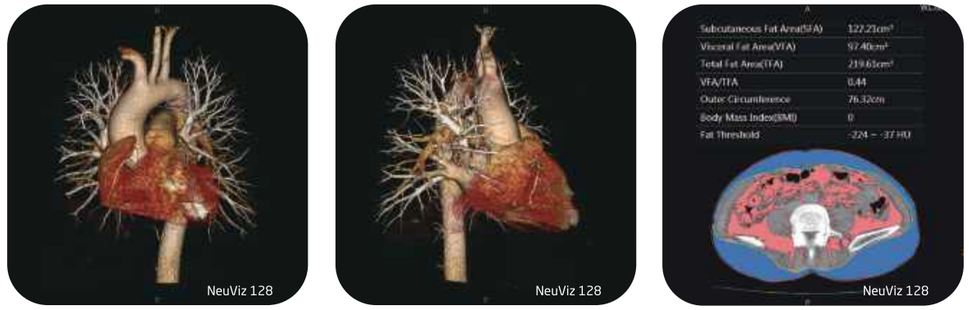
'Triple-low' (low dose, low contrast concentration, low contrast volume)
100kV, 270mgI/ml, 50ml



Angiography of Pulmonary Arteries, 1.5mSv

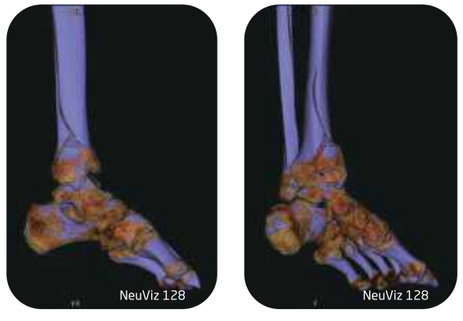


Height: 164cm, Weight: 131kg, BMI: 50



Chest Pain Triad

Fat Analysis



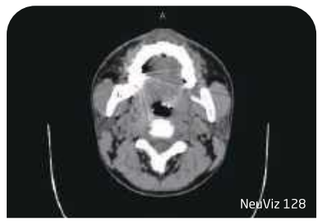
Color-coded 3D Bone

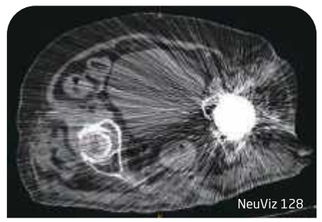
CTA Runoffs

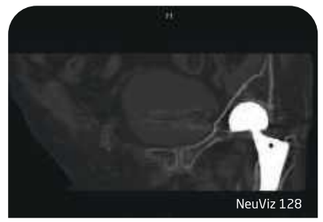
MAR+ (Metal Artifact Reduction)

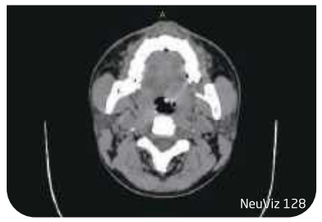
According to the raw data and image data, build Forward Projection model, Anatomy Model and Noise Model, through Iterative Correction Algorithm removes the metal noise, realizes Metal Artifact Removal, and greatly improves the visualization of implants around dental and femoral head.

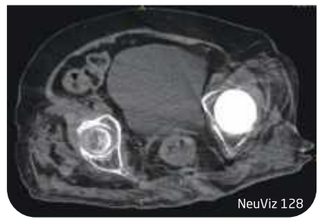
MAR+ OFF

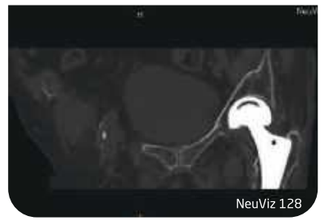




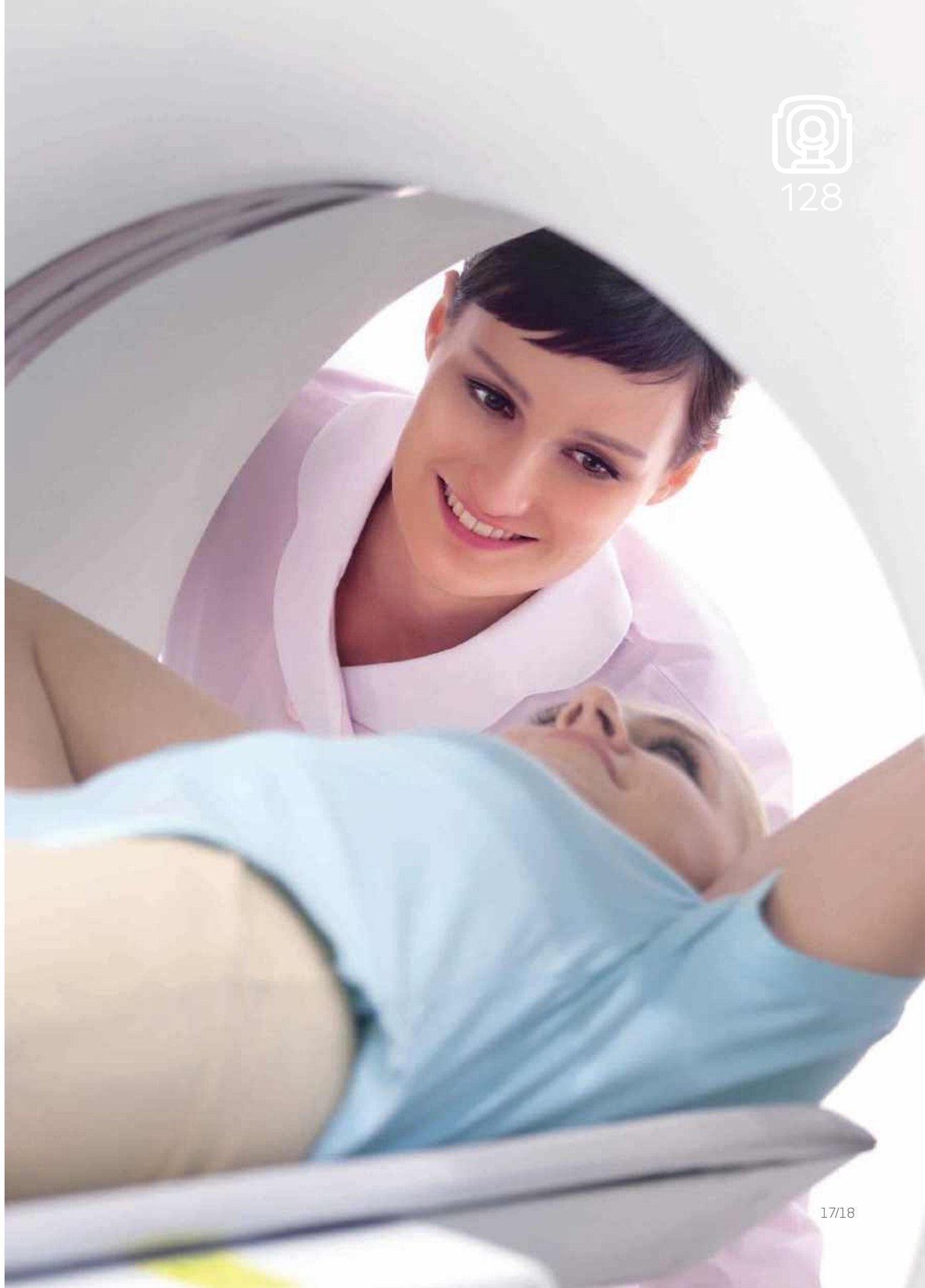






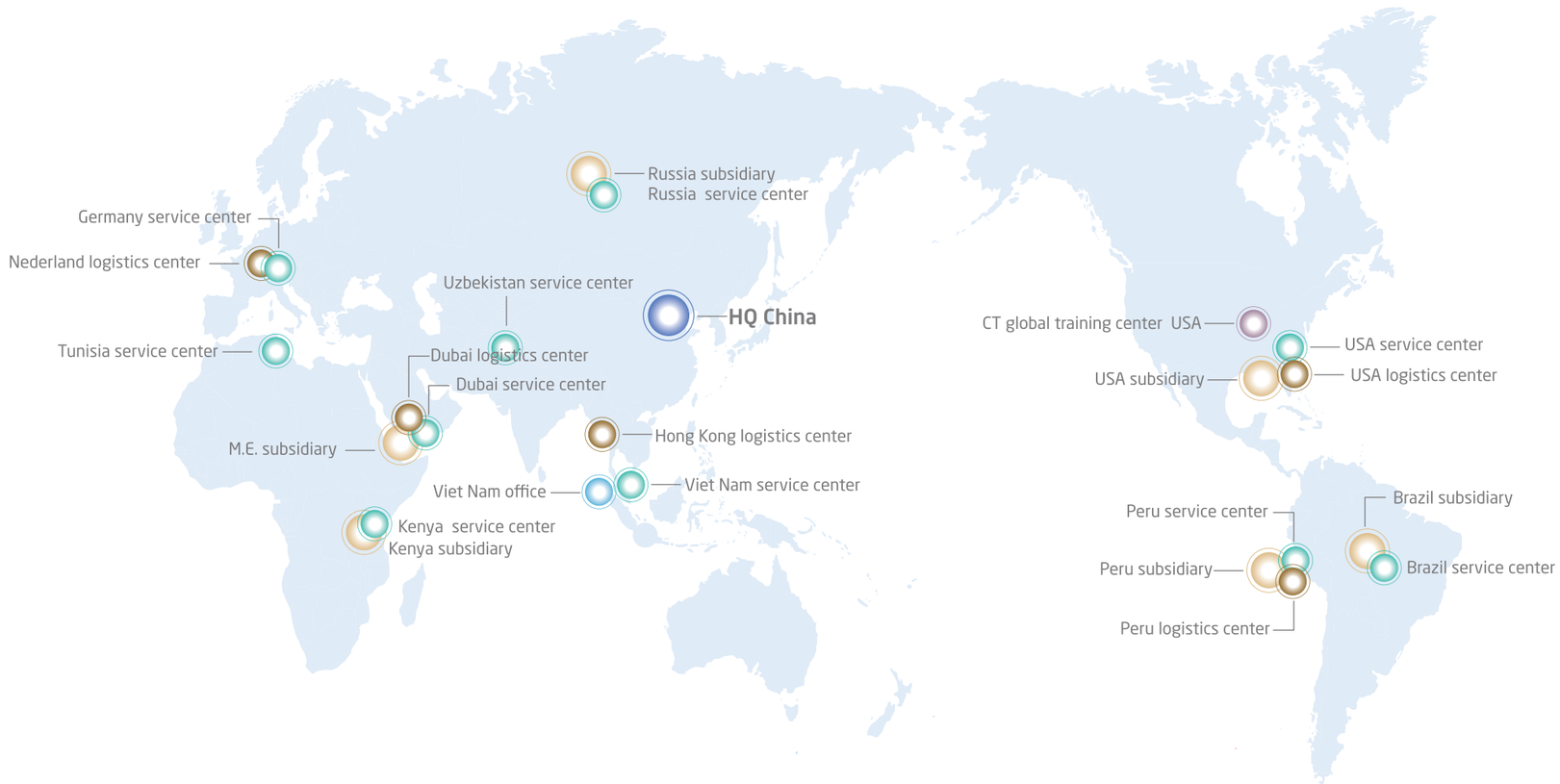


MAR+ ON



Service And Logistics Support

Neusoft Global Service & Logistics Network



HQ Subsidiaries Service centers Logistics center Training center Office

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.

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* Not available in N.A.