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The **FUTURE** has **ARRIVED**  
**NeuViz 128**

NeuViz 128/1504

**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

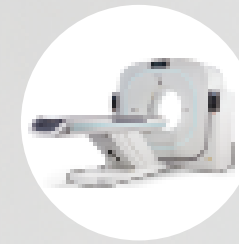
Neusoft enters into a joint venture  
with Philips Medical Systems  
2004

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



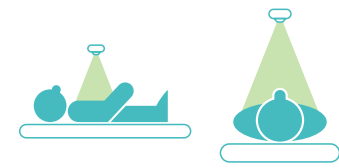
## High Resolution Imaging-Chain

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



## Quad-Sampling

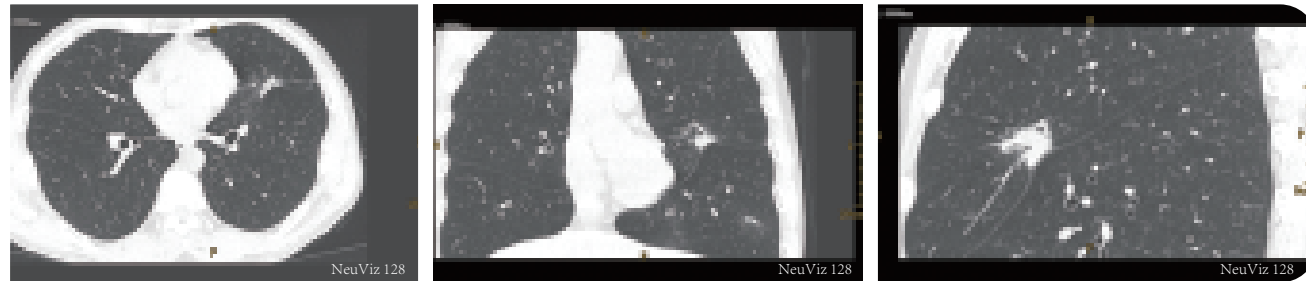
By dynamically moving the focal spot axially and longitudinally, sampling density is increased 400%. This means improved resolution, reduced artifact and extended scanning ranges.



## Micro-STAR detector

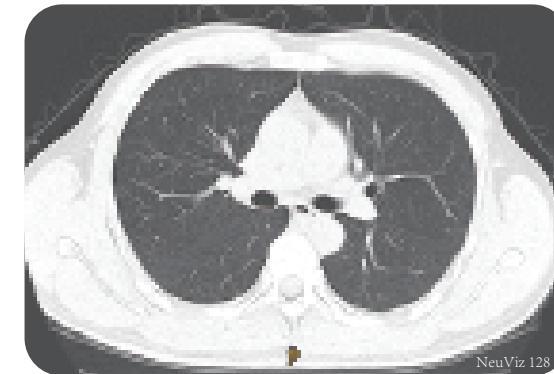
iHD (isotropic High Definition) enables the half-slice acquisition, which delivers 24lp/cm isotropic resolution.

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

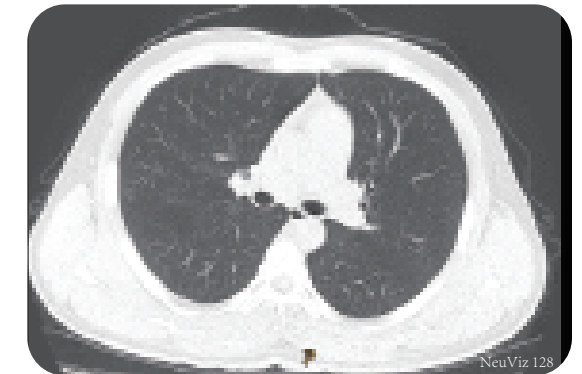


1024 large matrix image

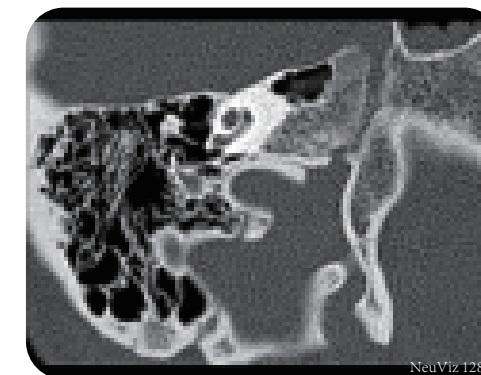
NeuViz128



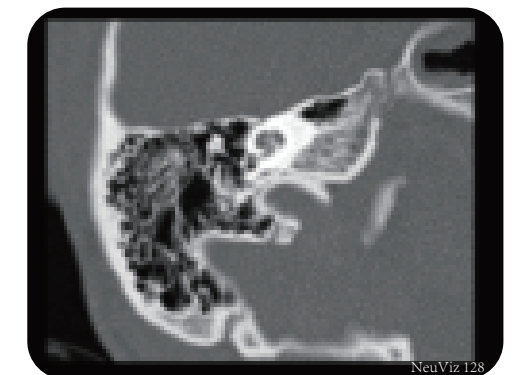
1024 x 1024 matrix, lung



512 x 512 matrix, lung

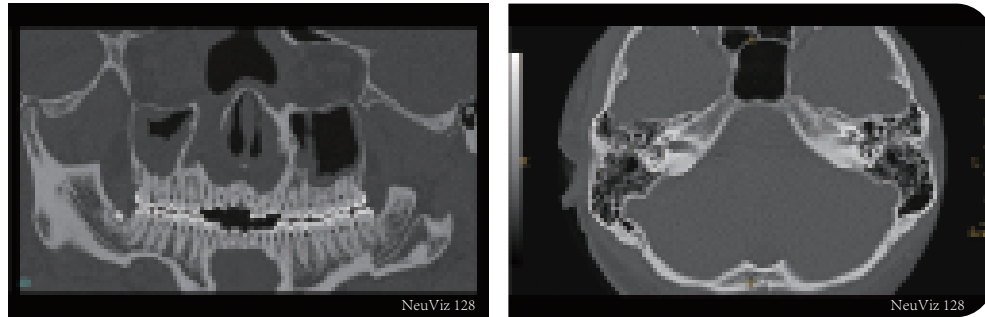


1024 x 1024 matrix, inner ear

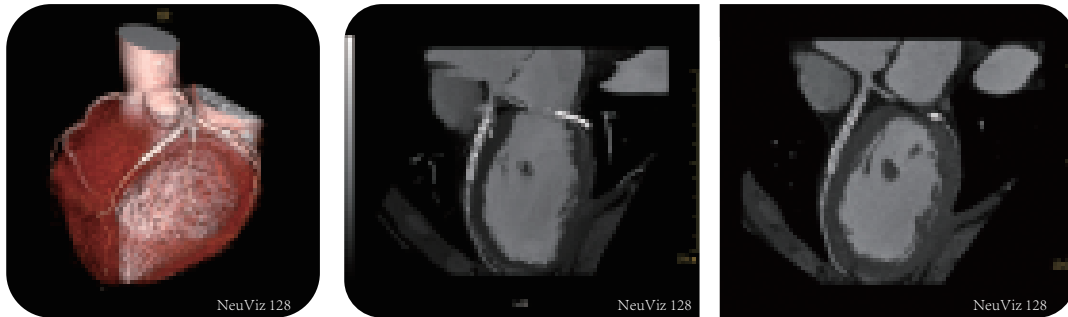


512 x 512 matrix, inner ear

# High Definition Imaging

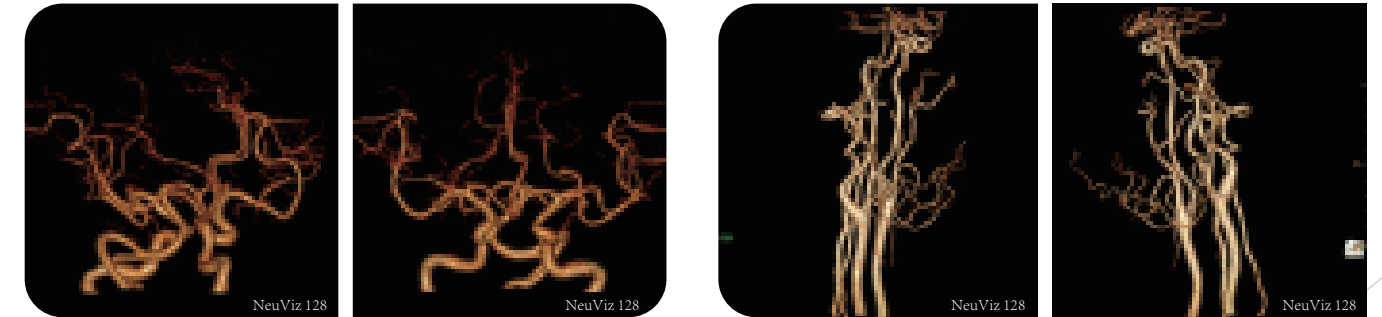


Small facial features



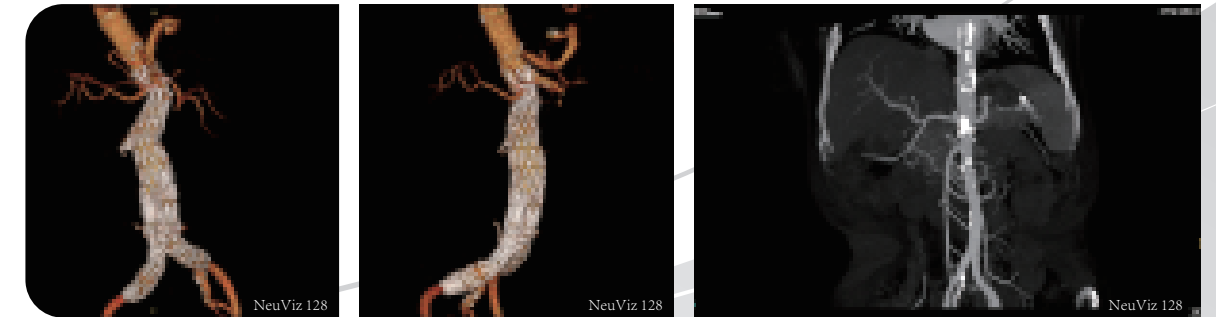
3D Cardiac Recon

Coronary artery stents



Encephalic Angioma

Lingual artery



CTA

# A Focus on Low Dose Design



## 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.



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## 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.



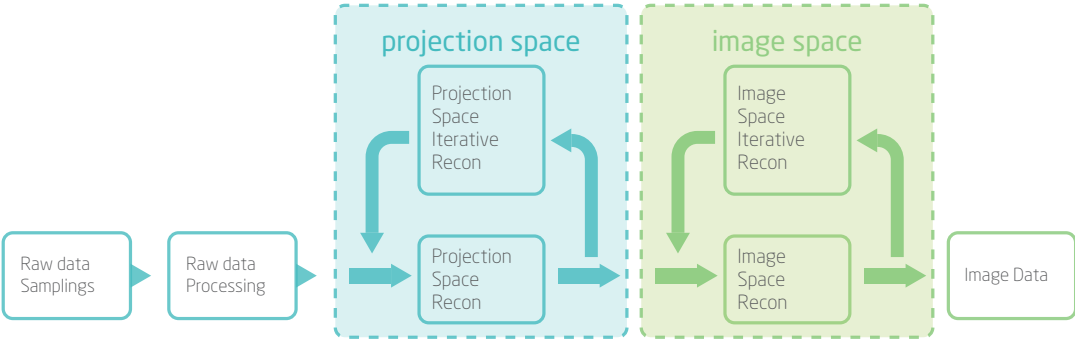
## ECG dose modulation

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



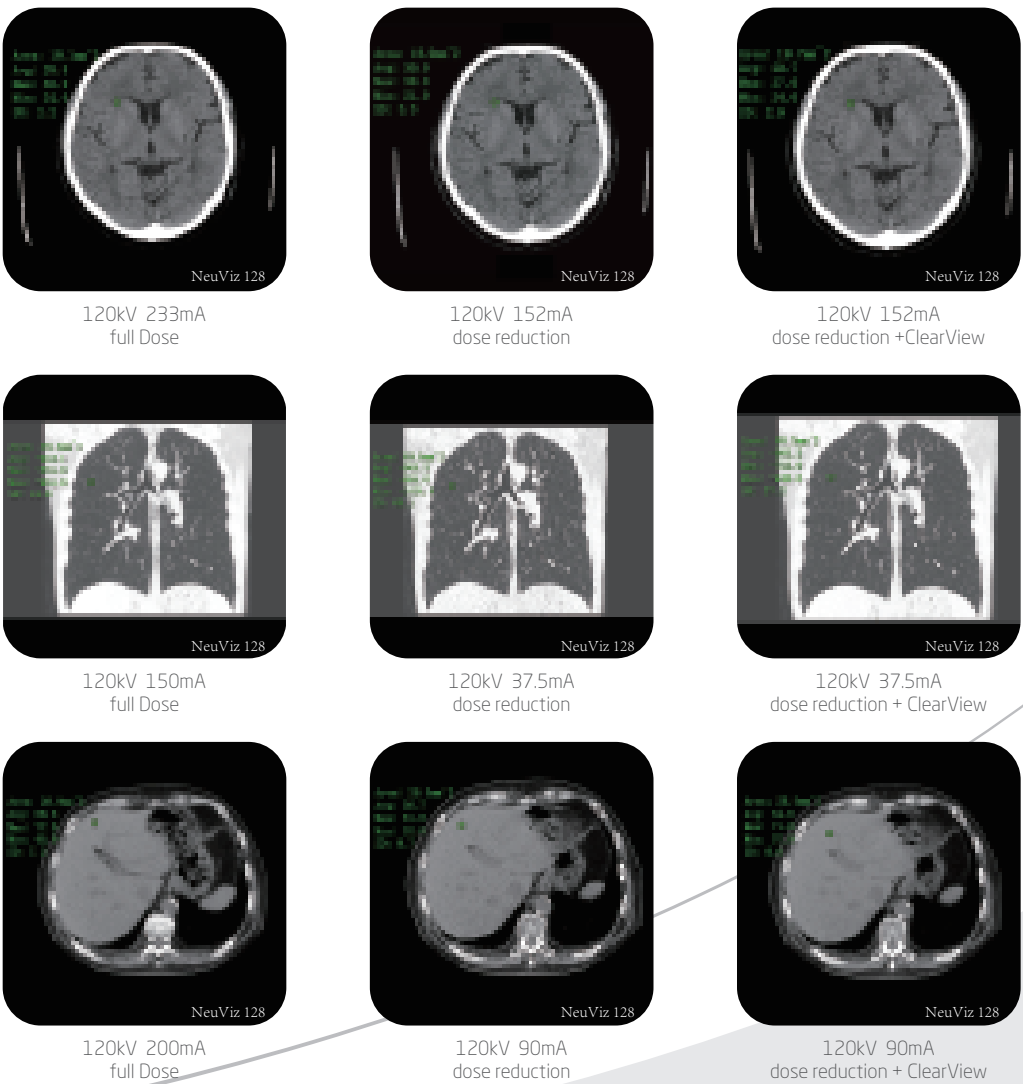
# ClearView

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%.





# A system design that puts the patient at ease

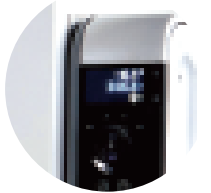
The new cover and table design deliver important information to the patient and the clinician. Patient comfort is assured, improving their experiencing and insuring a high quality examination.

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.

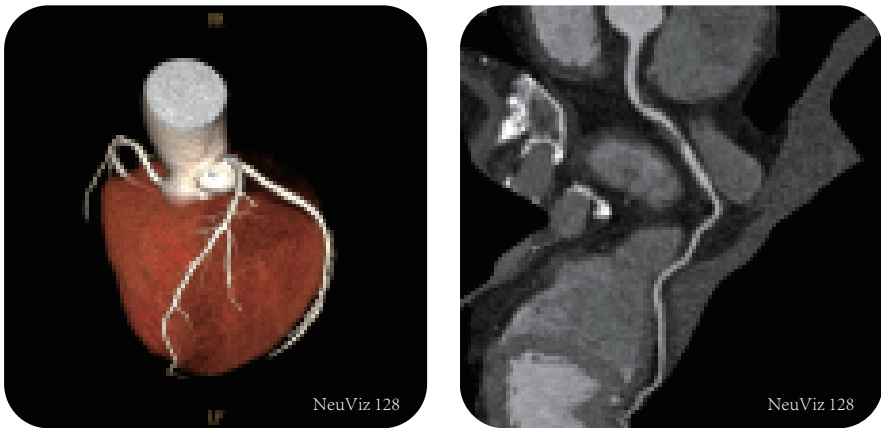


## Improved Patient Couch comfort

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  $\leq 1\text{mSv}$ .



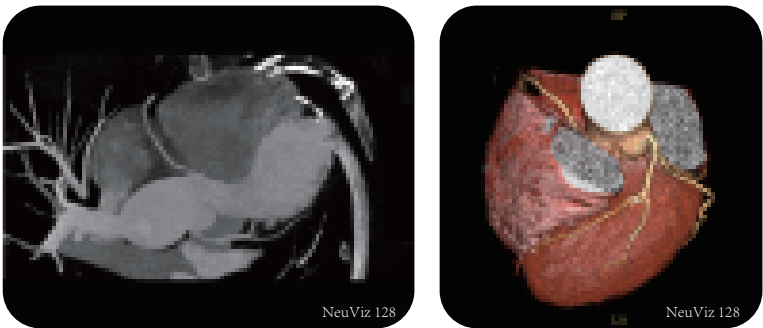
Prospectively Triggered Cardiac Imaging, 80kV, 0.4mSv

# Maximizing Clinical Capabilities

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

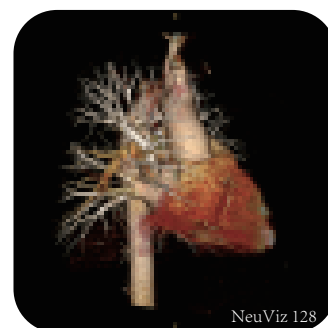


Angiography of Pulmonary Arteries, 1.5mSv

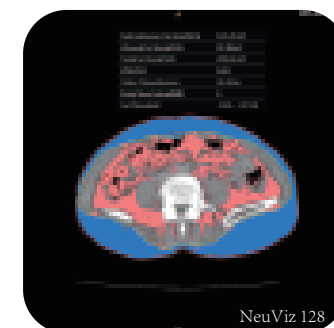


Height: 164cm, Weight: 131kg, BMI:50

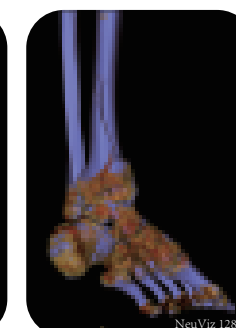
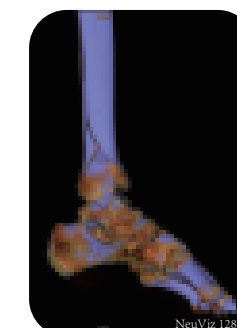
Chest Pain Triad



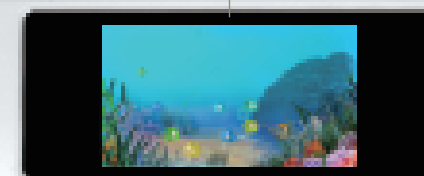
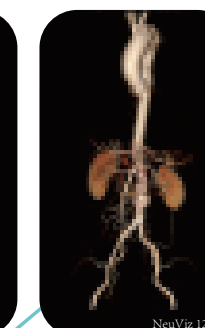
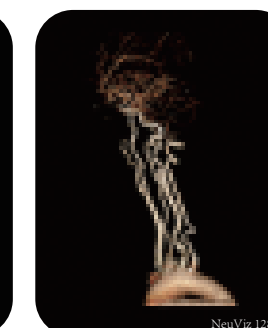
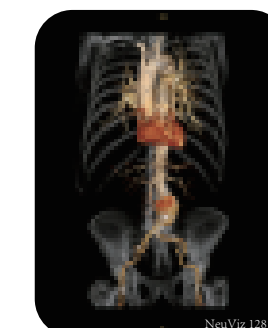
Fat Analysis



Color-coded 3D Bone



CTA Runoffs



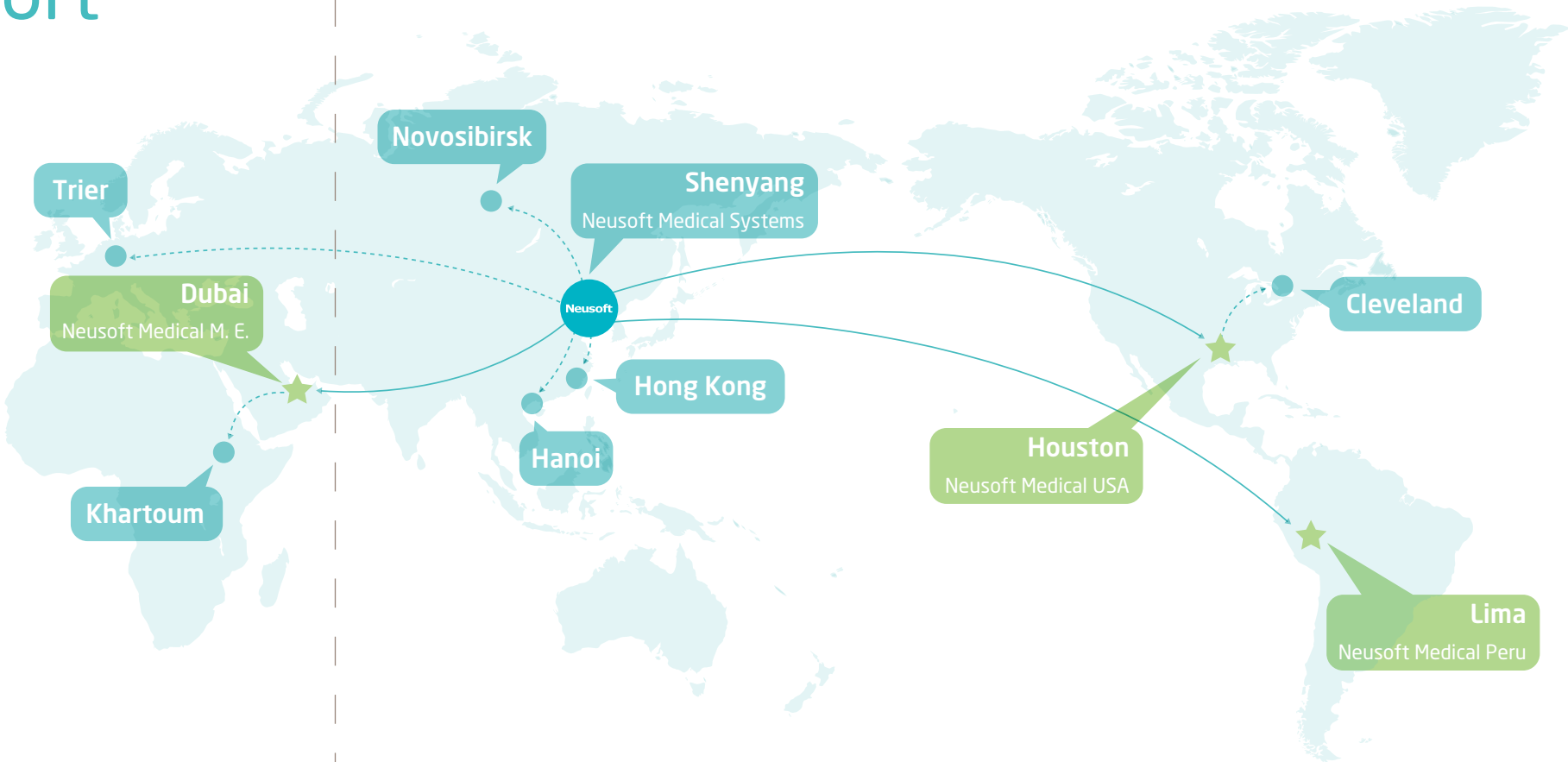
NeuViz 128

# 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.



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