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# NeuViz Prime

## Acceleration NEVER ends

Neusoft® Medical Systems

# Proven as a speed evolution
# ACCELERATING TO THE FURTHER FUTURE...

0.259S

Uncompromised to heart rate

Unlimited tube heat capacity

Ultra-HD imaging - 30lp/cm@0%MTF

Unique 60kV scanning

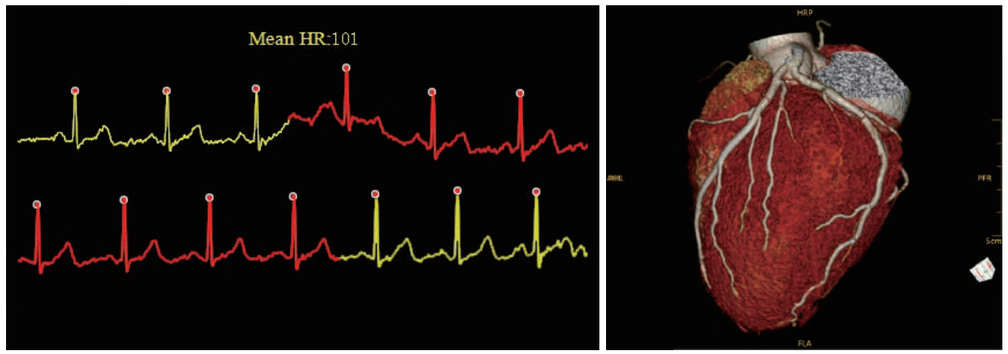
Upgradable spectral imaging

0.259S

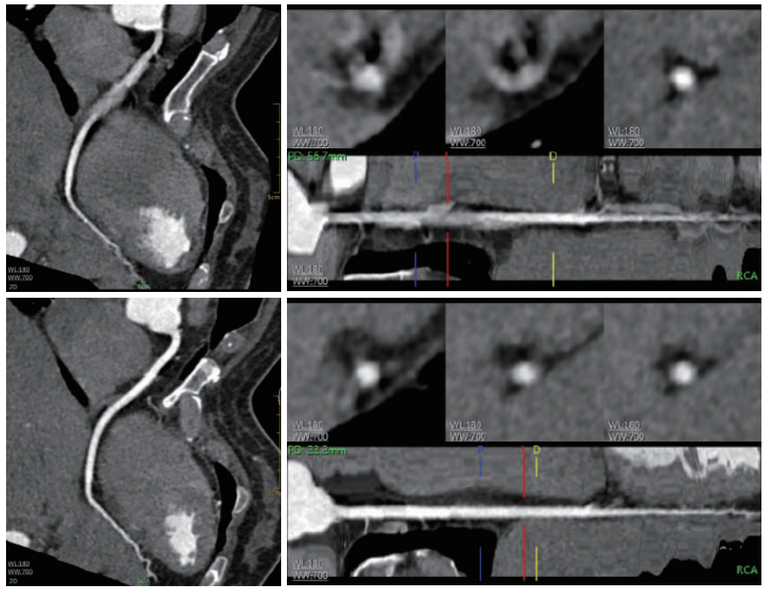
## Uncompromised to heart rate

With the brand-new gantry design and the patented 10GB/s HIFI data transmission technology, NeuViz Prime enables 0.259s per rotation which is desirable in many clinical applications, especially for cardiac scanning.

Female, 45 years old, 101 bmp, can't hold breath




ECG edit, automatically select best cardiac systole phase

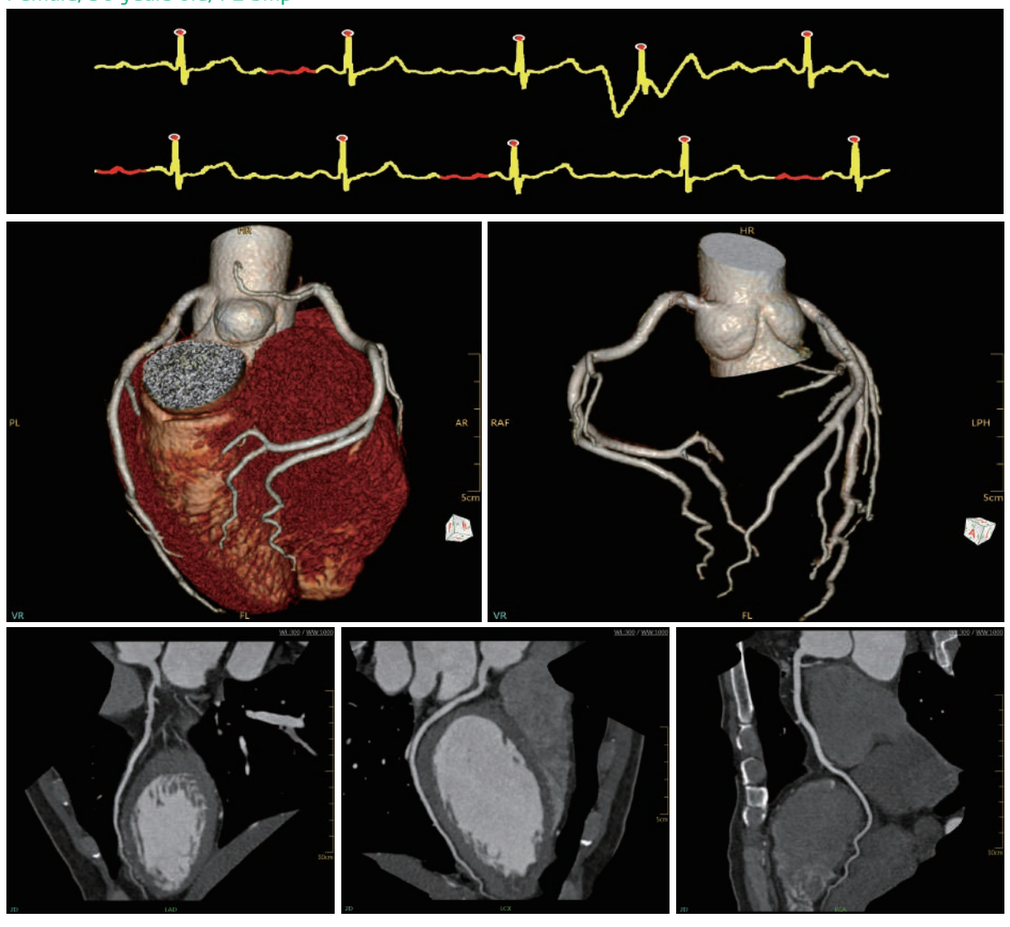



NeuViz Prime

## Arrhythmia Handling

Intelligentized cardiac scanning is able to automatically jump over the arrhythmia signals and ensure successful coronary artery exem. The coronary artery can be segmented, recognized, extracted, named, measured and analyzed automatically. It makes complex exams simple.

Female, 56 years old, 72 bmp

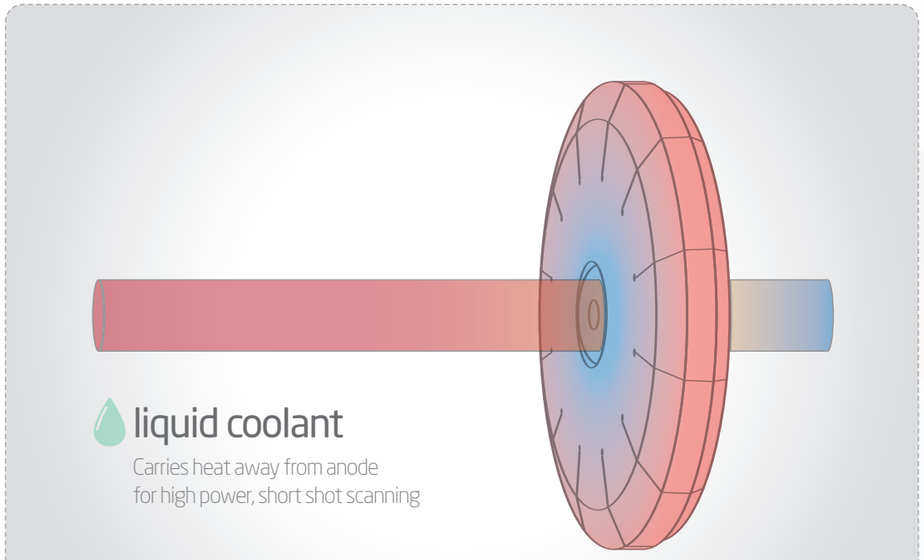


NeuViz Prime

# Unlimited Tube Heat Capacity

## Developed to annihilate waiting

Freezing cool technology with liquid streaming design enables rotating anode cooling down as soon as heat produced.  This is demanded for large patient  throughput and complex procedures like spectral imaging.




No need to warm up
No need to wait for the tube cooling down

Emergency patients can be scanned immediately

# Ultra-HD imaging

## 30lp/cm@0%MTF spatial resolution

### iHD

Through iHD technology spatial resolution can be achieved by 30lp/cm@0%MTF.

### Micro focal spot

With 0.4mmx0.7mm focal spot spatial resolution is significantly increased.

HD

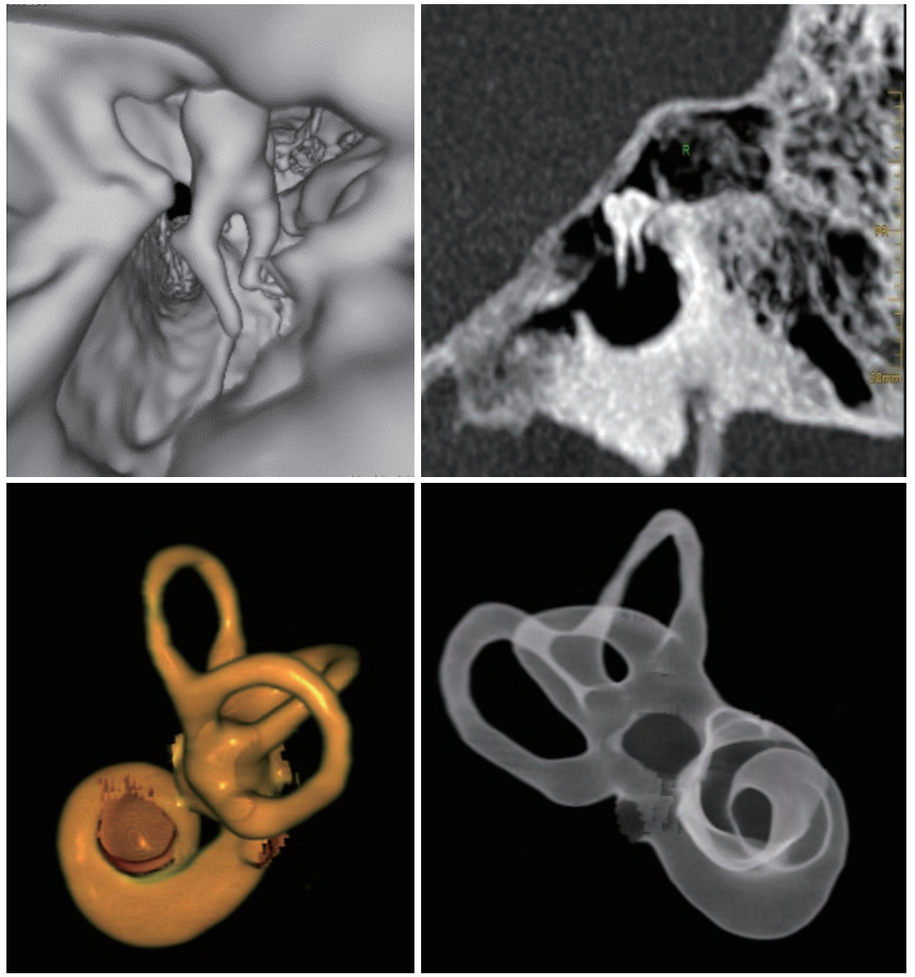
By dynamically moving the focal spot axially and longitudinally, sampling density is increased 400%.This means improved resolution, reduced artifact and extended scanning ranges .

### Quad-sampling

Compared with 512 matrix imaging, 1024 matrix imaging can achieve 4 times more lesion information, which is necessary for lung nodule and inner ear studies.

### 1024 matrix

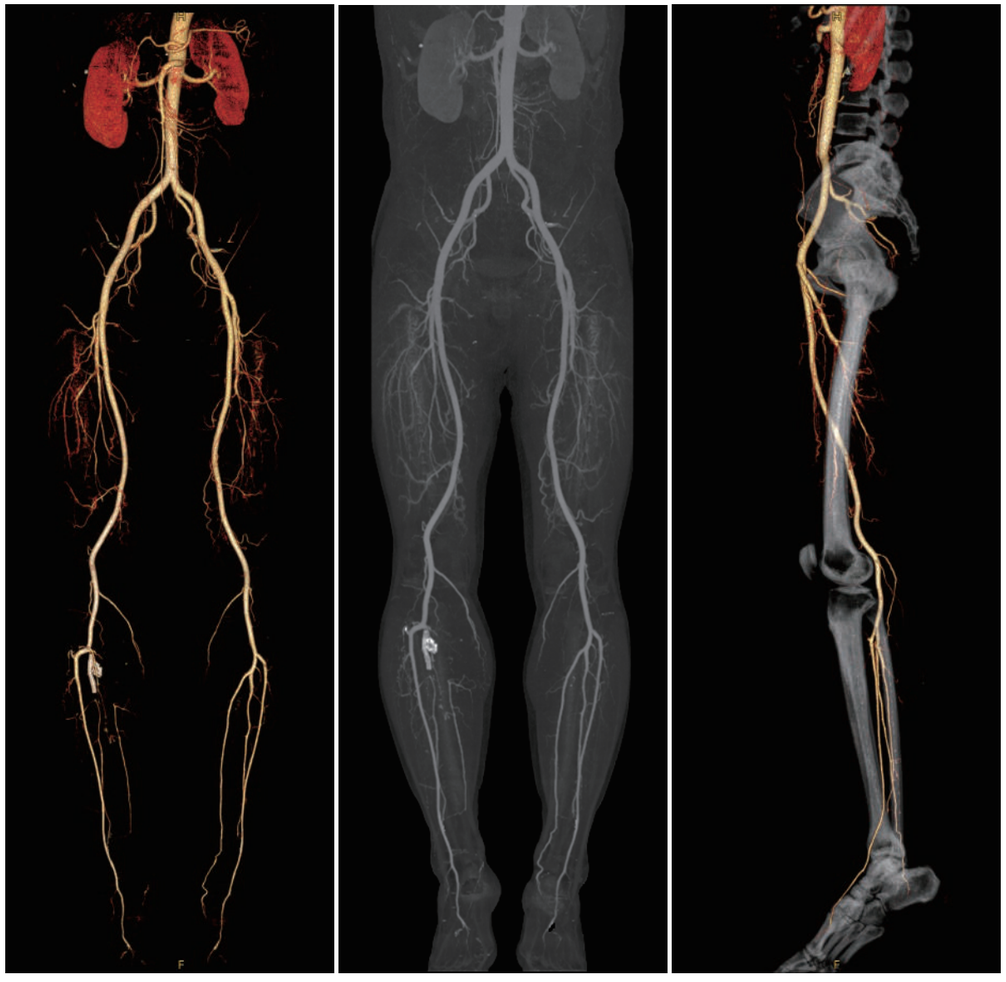

## Inner ear



# Ultra-HD imaging

NeuViz Prime

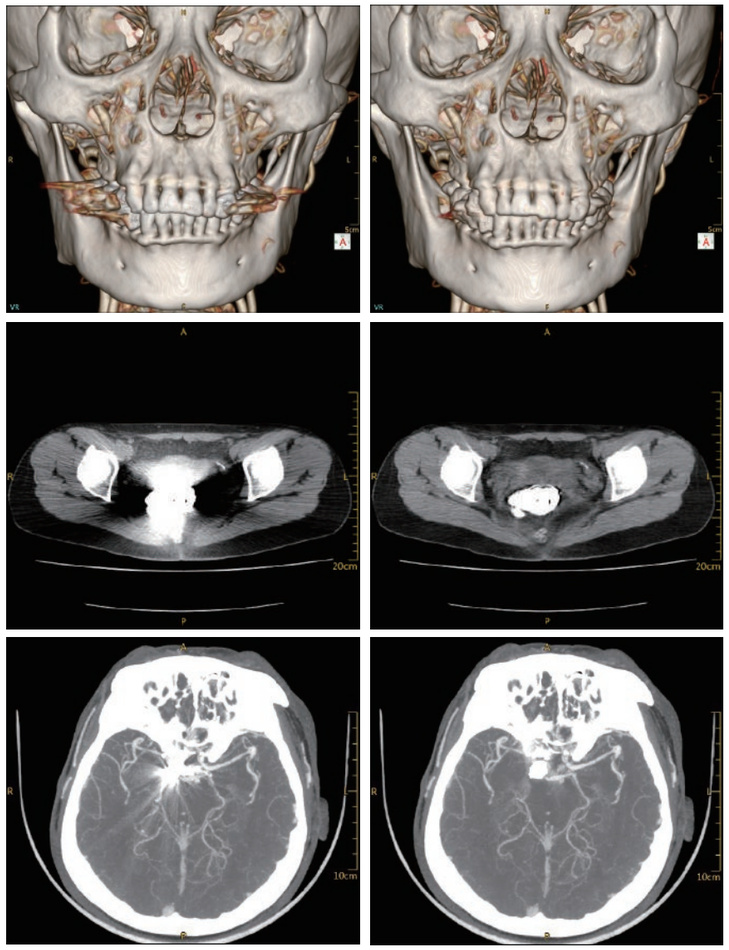
## CT Angiography



# Ultra-HD imaging

## MAR+

Automatically indentifies the metal raw data. Through iterative correction algorithm, it eliminates metal artifacts, greatly improving the visualization of implants in dental, caput femoris, etc.



MAR+ OFF

MAR+ ON

# Low Dose Design

## 0-dose platform

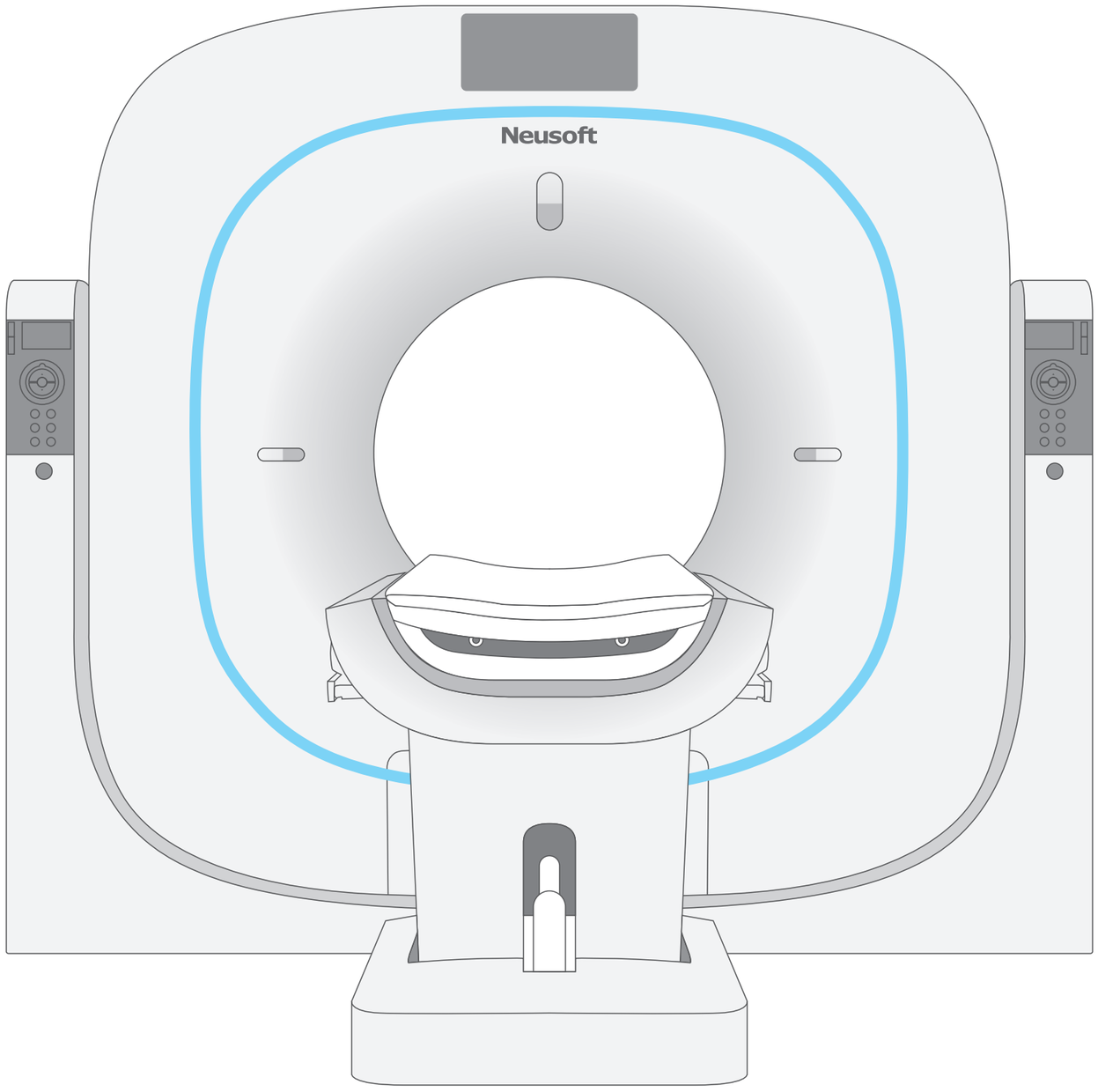
### Unique 60kV scanning
Maintaining contrast concentration while reducing radiation dose.

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

### Organ-Safe
Reduces dose to radiosensitive organs such as eyes, thyrold 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 efficlency, lower dose necessary to deliver exquisite image quailty.




### Auto SFOV
Automatically change SFOV based on target organ and scan protocols, lower radiation dose.

### ClearView
Iterative processing in projection and image spaces that delivers unbelievable dose reducton.

### Dose Check
Full implementation of "Dose Check", patient cannot be over radiated.

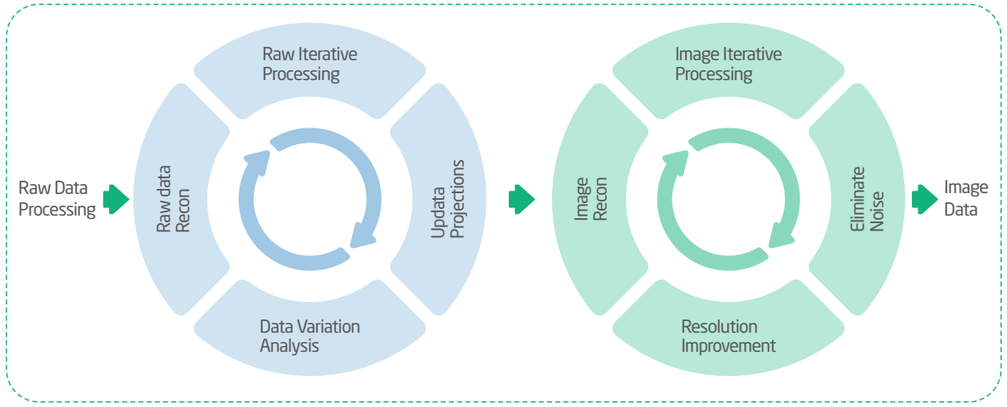
### 3D dose modulation
Tube current modulated based on the anatomy in the scan field, anatomically optimized dose.

### ECG dose modulation
Reduces tube current during non-imaging phases of cardiac cycle to minimize patient dose.

# Low Dose Design

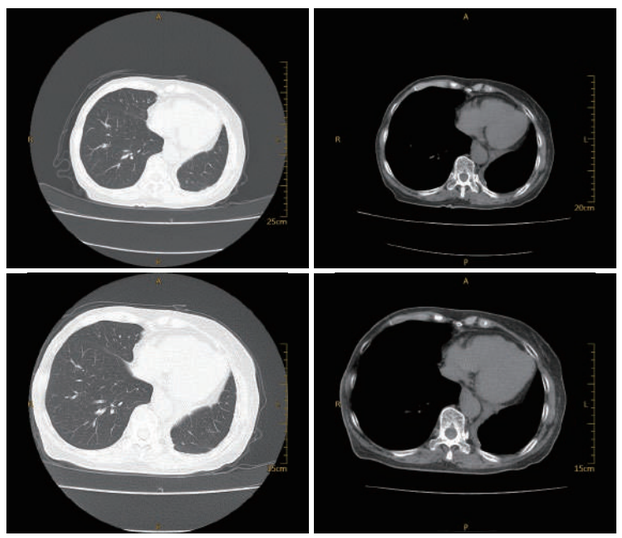
## ClearView

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




## Auto SFOV

Automatically changes SFOV based on target organ and scan protocols, lower radiation dose.

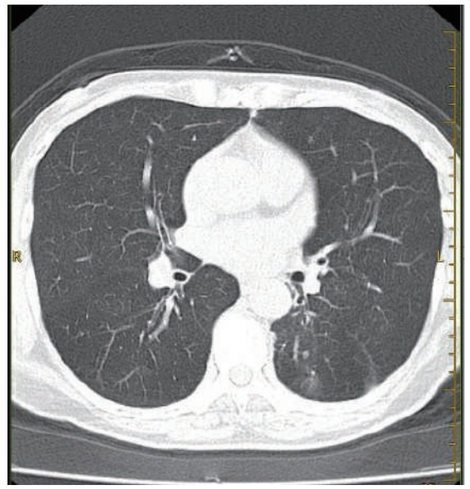


Large SFOV
120kV 180mA
2.9mSv

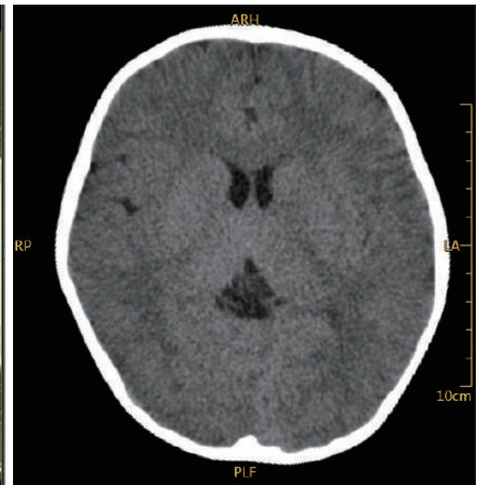
Middle SFOV
100kV 160mA
1.7mSv

## Unique 60KV scanning

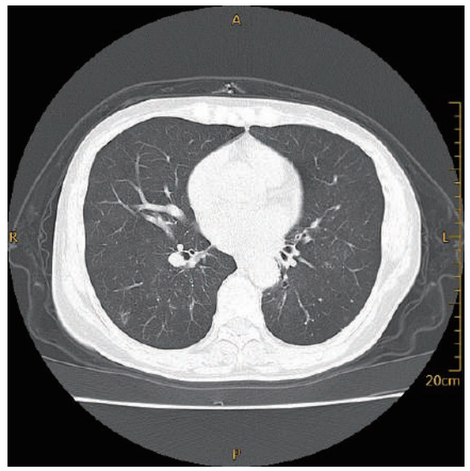
60kV provides clinical breakthroughs on low dose scanning ,with the most advanced lung image reconstruction algorithm, lower radiation dose is achieved without compromising to image quality. It's significantly beneficial to pediatrics, lung cancer screening and renal failure patients.



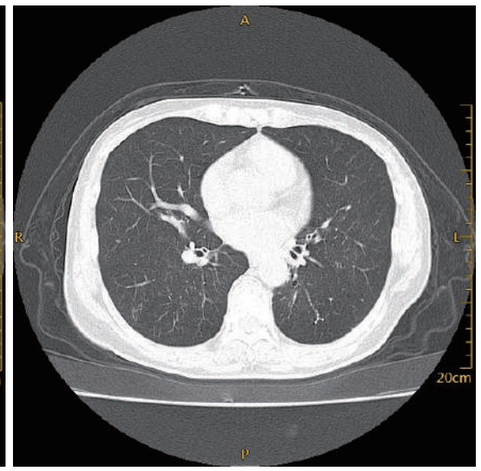
60kV



60kV



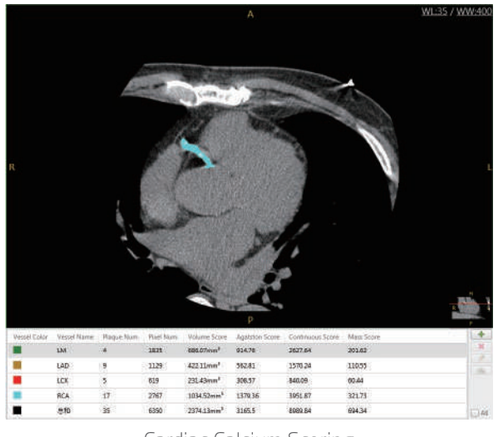
120kV



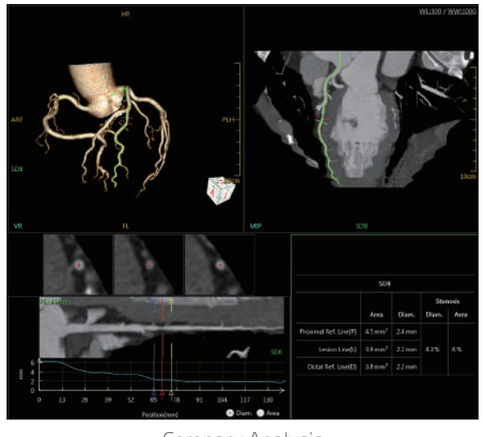
60kV

# Full Range of Clinical Applications

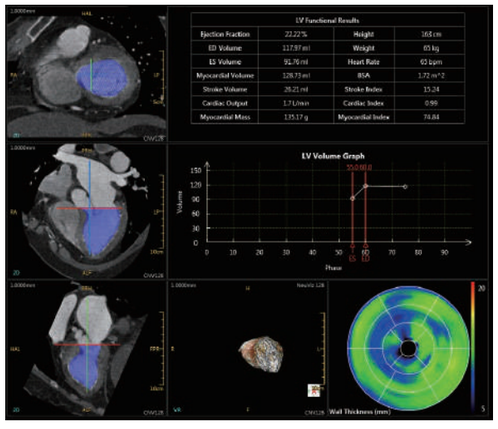
## Cardiac Solution



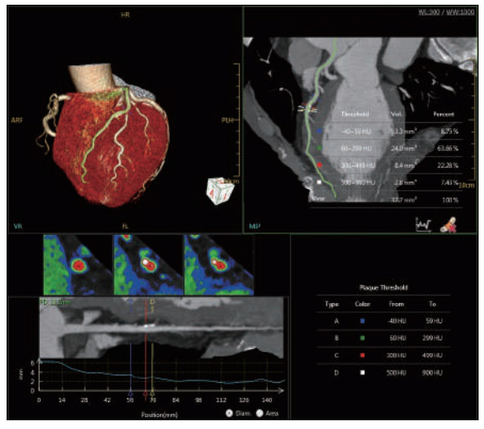
Cardiac Calcium Scoring



Coronary Analysis

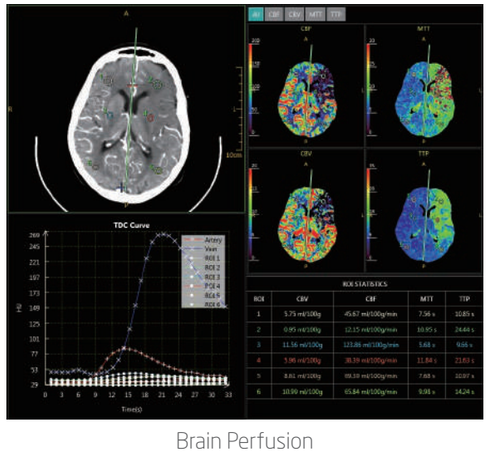


Cardiac Function Analysis



Plaque Analysis

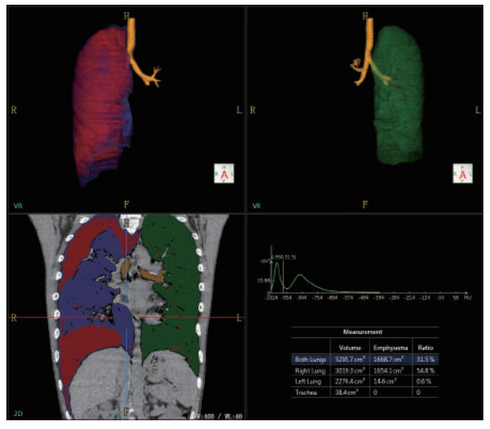
## Perfusion Solution



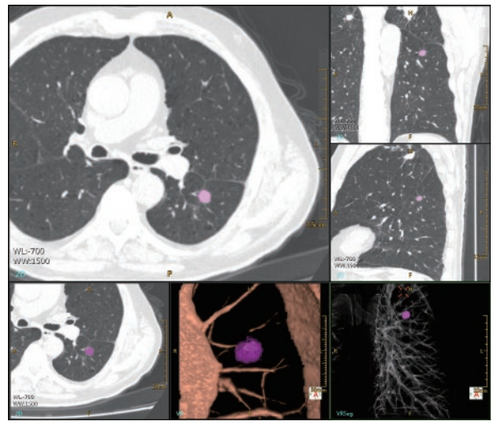
Brain Perfusion

Body Perfusion

## Lung Solution



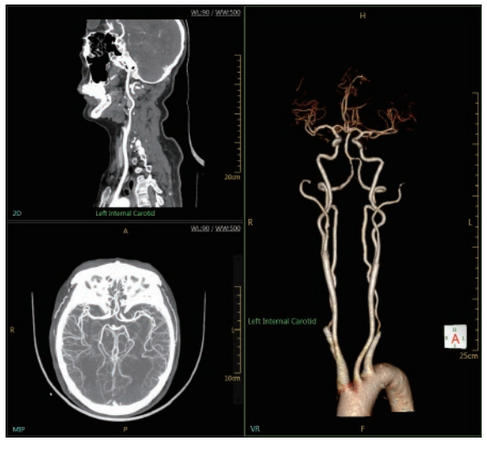
Lung Density

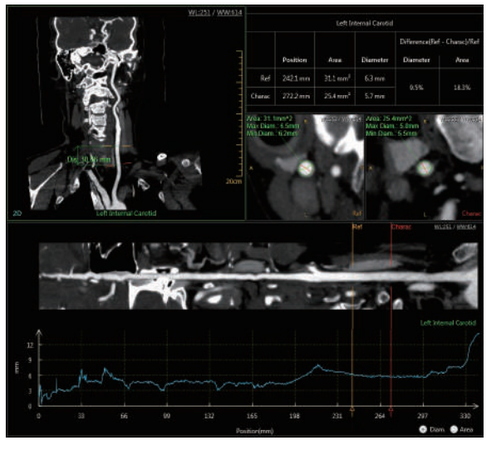


Lung Nodule Analysis

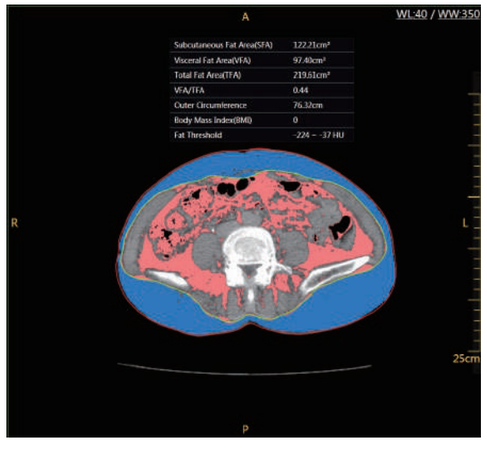
# Full Range of Clinical Applications

## Vessel Analysis



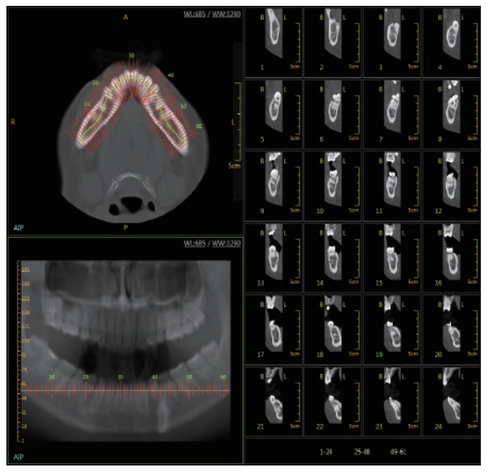




## Fat Analysis

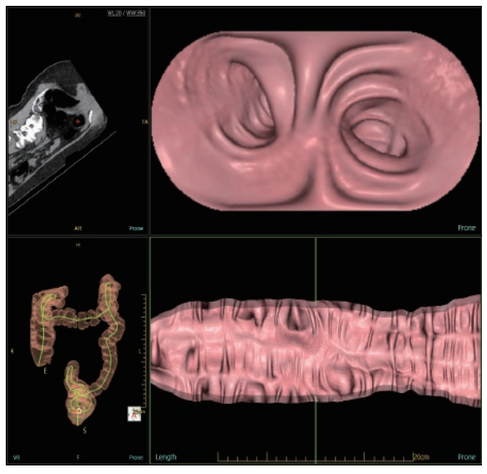



## CTU

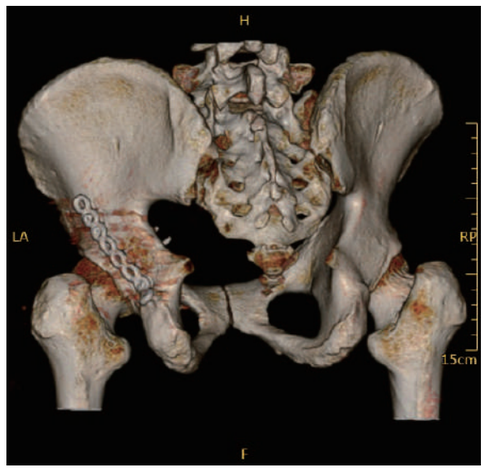
## Dental Analysis

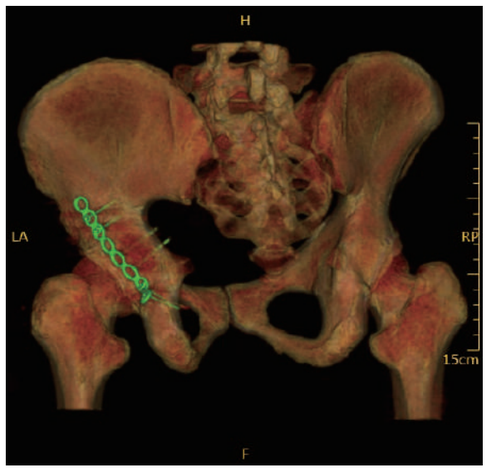


## Virtual Colonoscopy



## Internal Fracture Fixation

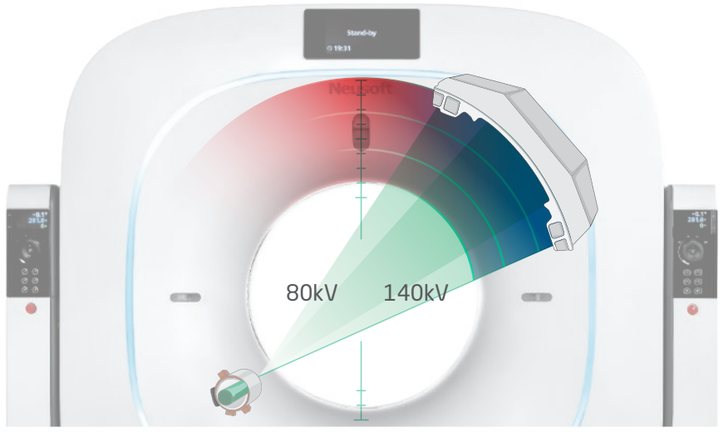




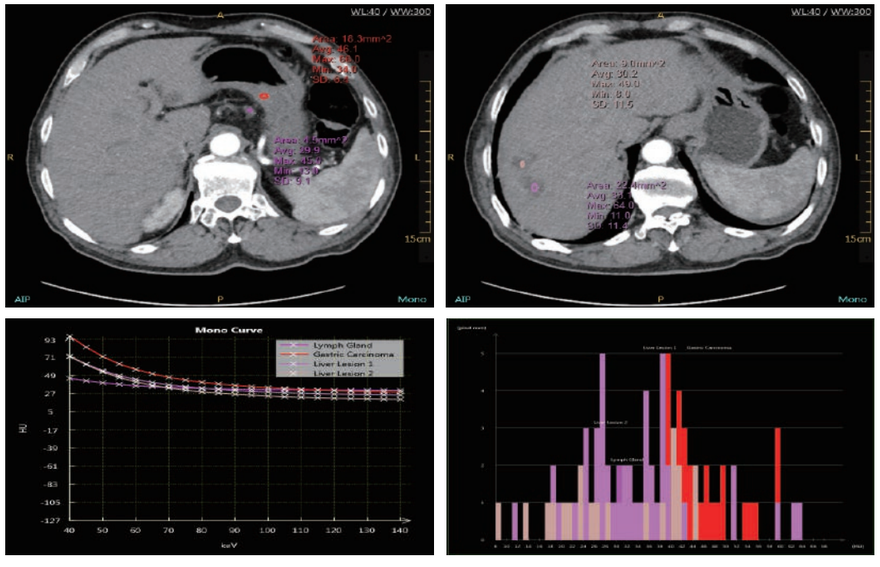
# Upgrable Spectral Imaging

## Spectral imaging

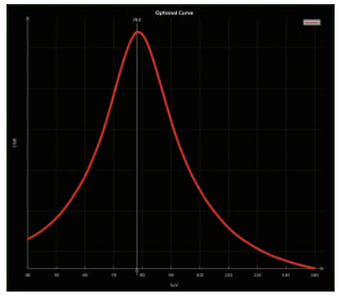
NeuViz Prime is designed to offer spectral imaging by KV switching, it can add tissue characterization to morphology based on the different materials. Calcium, iodine and water can be separated easily. The benefit  focus on diagnosis like oncology,  gout, calfied plague, etc.



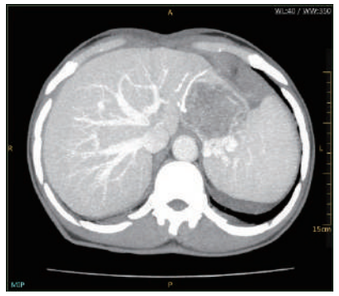

## Material Mono-source Analysis




## Automatically Choosing Best CNR



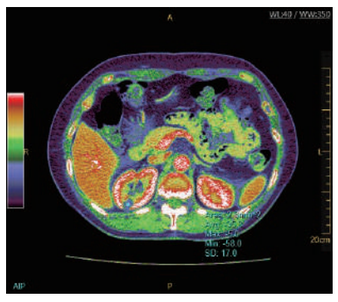

CNR Curve



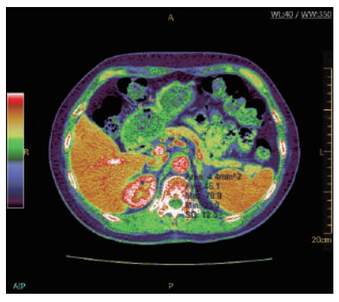

78keV

It automatically looks for the best mono-energy image displaying ROI tissues, helping improve small lesions detectable ratio and displaying arteries and veins. Disease diagnosis and surgical program are more conveniently formulated.

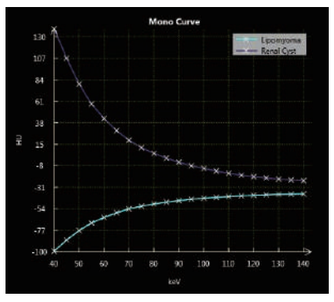
## Mono-energy Rainbow Images  & Curve




70keV

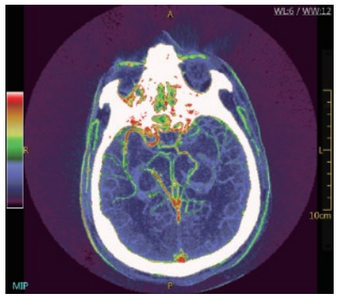



70keV

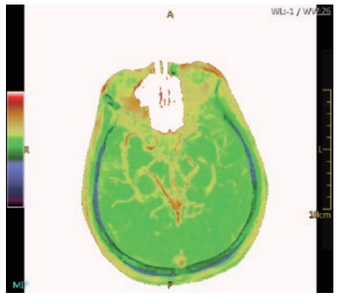



Mono Curve

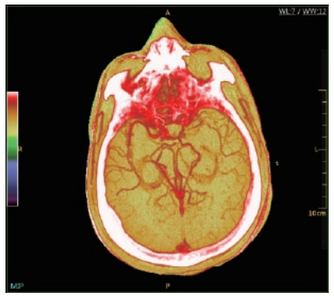
## Multi-material Seperation & Effective Atomic Images




Iodine (Water) image quantitatively analyzes iodine uptaken value




Iodine (Calcium) image erases calcification and precisely evaluates angiostenosis

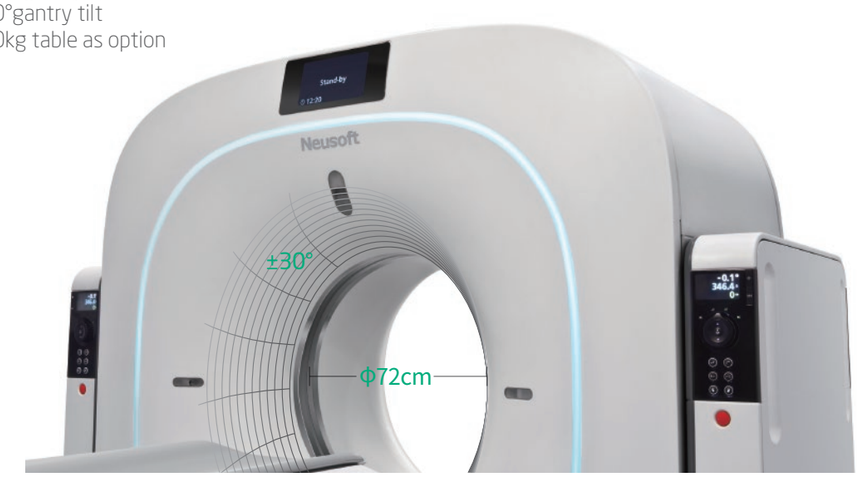



Effective atomic number image further analyzes material composition

# Easier Workflow

## Newest Design

72cm gantry aperture
±30°gantry tilt
300kg table as option

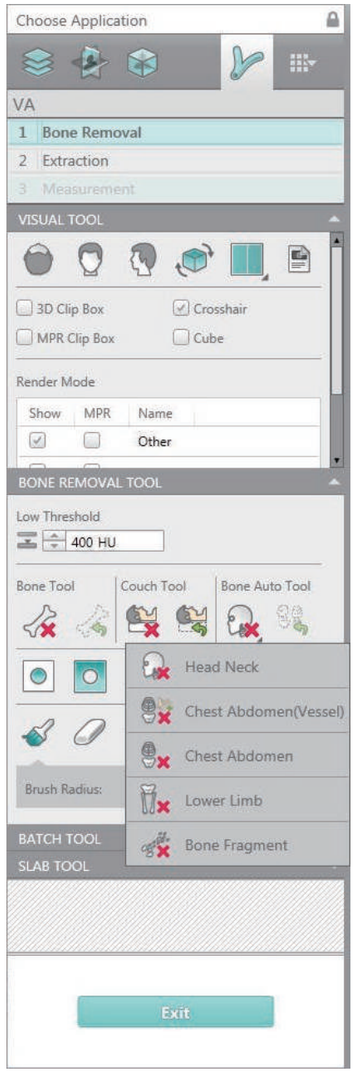



## Smart Protocols Selection

Intelligently learns from mathematical statistics and helps users select protocols with high using frequency.


## Easy Using AVW workstation

Post processing is designed to save time. Key strokes are minimized and process steps are automated with streamlining workflow.



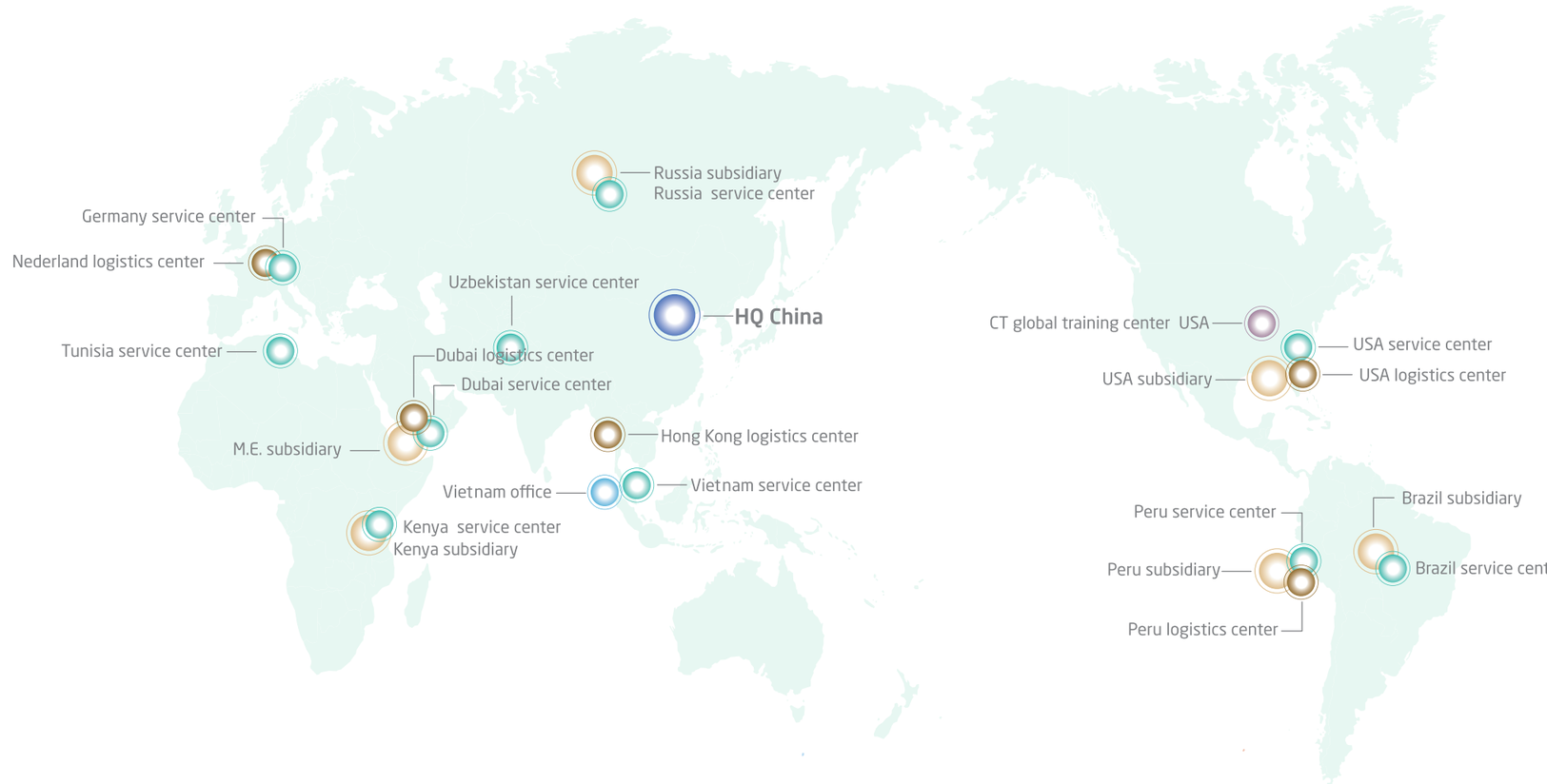


## eCare

Remote images browsing and diagnosis are realized by mobile devices, which is easy for doctors absent from hospitals in emergency cases.

# Service And Logistics Support

## Neusoft Global Service & Logistics Network




HQ Subsidiaries Service centers Logistics center Training center Office

## support service, after the sale!

- Remote diagnostic capabilities bringing Neusoft expertise to you IMMEDIATELY, no matter where you are!
- Indentifying and correcting prompt PROAVTIVELY, minimizing downtime and patient inconvenience.
- Global logistics network, prompt response regarding parts and supplies.



Not available in N.A.