# Caring for you

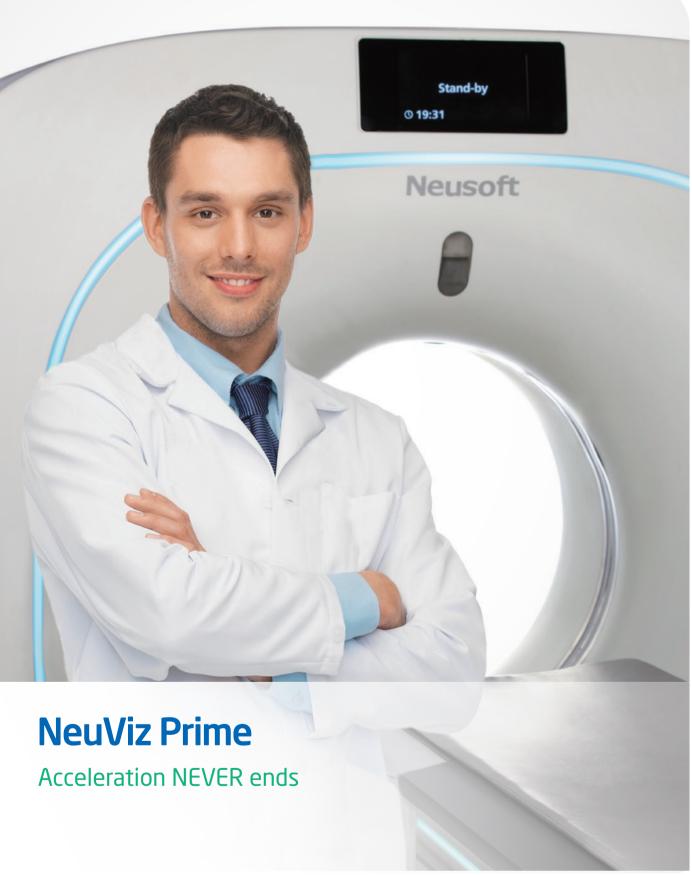
Contact Us:



www.neusoftmedical.com/en/



in Neusoft Medical



W 21.10

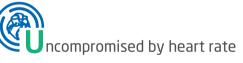


# Advanced, Value-Rich CT Technology

A growing number of patients are waiting for CT scanning, but CT scanners are expected to have "no" wait and "no" limitations on any procedures. This is the vision of all the CT manufacturers.

The NeuViz Prime, a high-end CT scanner which contains an advanced hardware platform and leading software technology, is designed to meet the needs of emergency patients and complex clinical procedures, even Spectral Imaging.





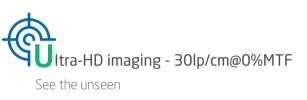
25ms temporal resolution Easy for high heart rate patients



(Effective anode heat content is 30MHU) Ultra-strong scanning capability and very long lifetime No need to warm up

Acceleration NEVER ends





# CUnique 60kV scanning

Care more for pediatric patients

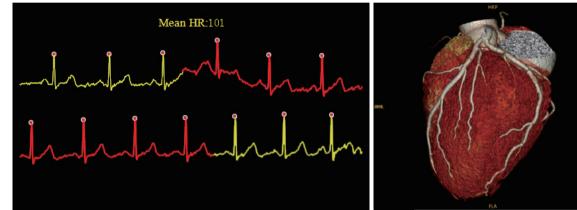
Anatomical to functional imaging Uncover more pathophysiological information



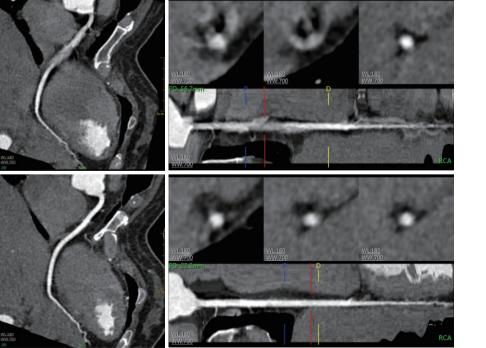
#### Uncompromised by Heart Rate

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

#### Female, 45 years old, 101 bpm, can't hold breath



#### ECG edit, automatically selects best cardiac phase

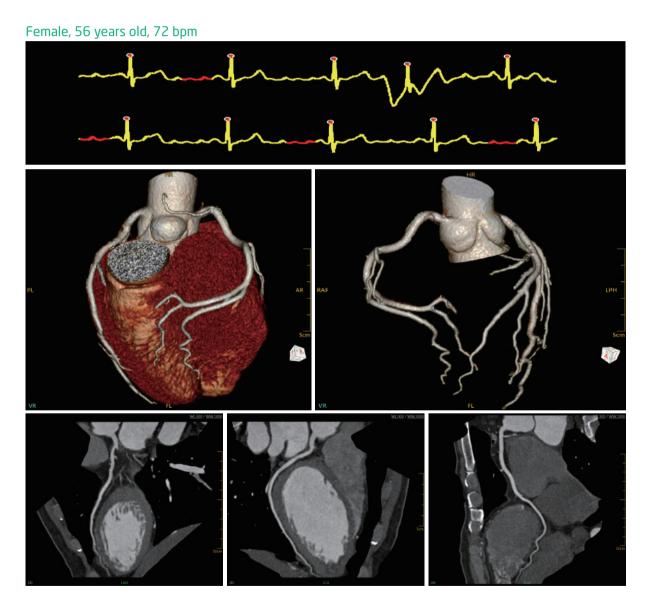






# Arrhythmia Handling

Intelligent cardiac scanning is able to automatically filter out arrhythmic signals and ensure a successful coronary artery exam. The coronary artery can be segmented, recognized, extracted, named, measured and analyzed automatically. It makes complex exams simple.

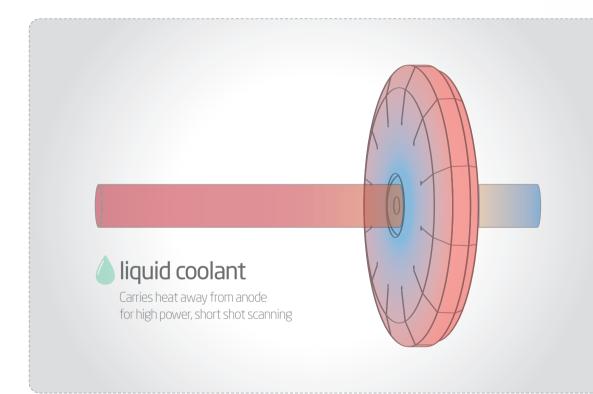






#### **Developed to End Waiting**

Cutting edge cooling technology with liquid streaming design keeps rotating anode cool for an extended period. This is beneficial for large patient throughput and complex procedures like Spectral Imaging.



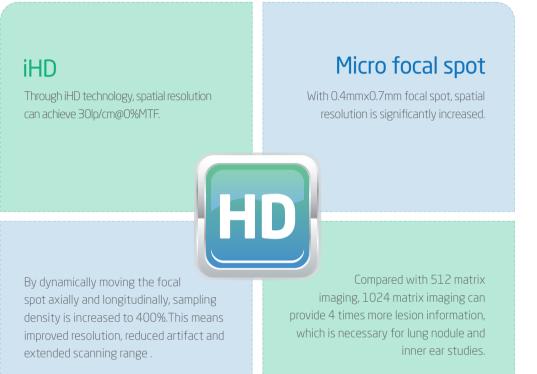
No need to warm up No need to wait for the X-Ray Tube to cool down Emergency patients can be scanned immediately







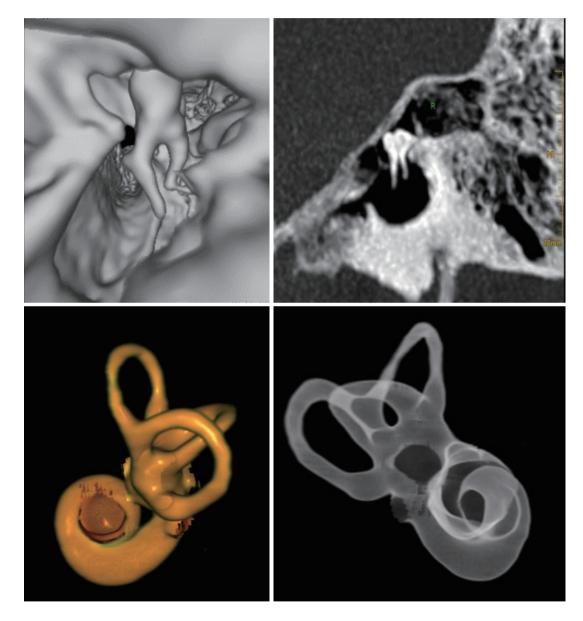
### 30lp/cm@0%MTF Spatial Resolution



#### Quad-sampling

1024 matrix

#### Inner Ear



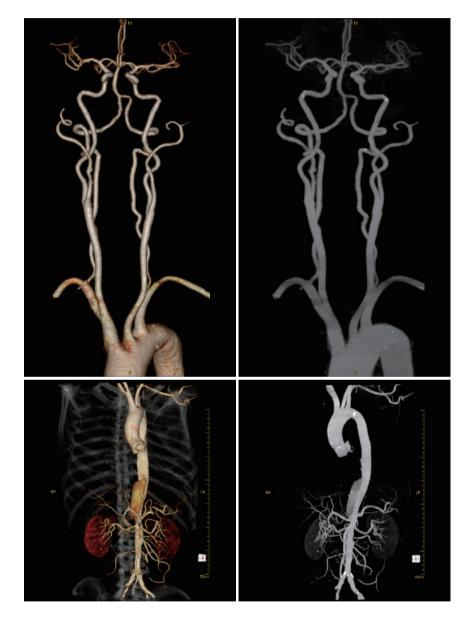




# CT Angiography



# CT Angiography

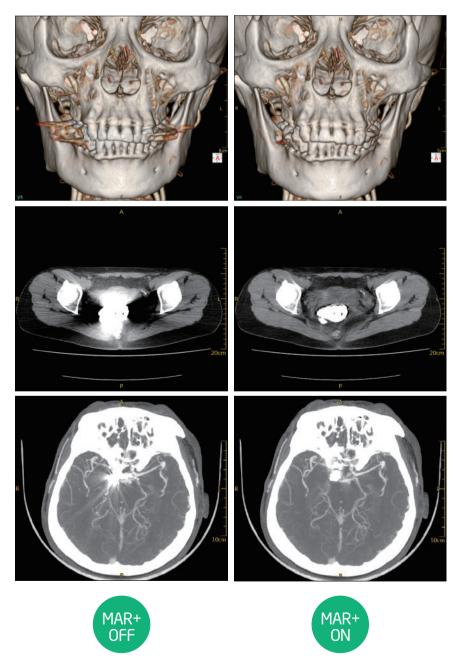






#### MAR+

Automatically indentifies and filters out metal raw data. Through an iterative correction algorithm, it eliminates metal artifact, greatly improving visualization of implants such as dental, caput femoris, etc.

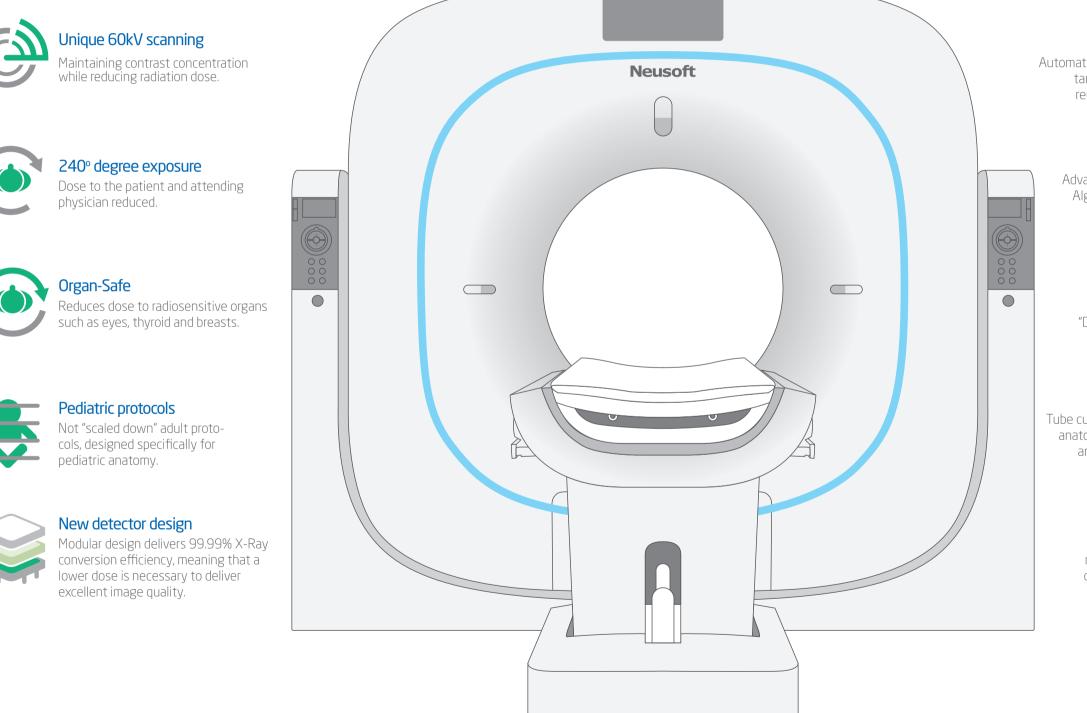








#### **O-Dose Platform**





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

#### ClearView

Advanced Iterative Reconstruction Algorithm that reduces dose and maintains diagnostic quality.

#### Dose Check

With full implementation of "Dose Check", patient cannot be over radiated.

#### 3D dose modulation

Tube current modulated based on the anatomy in the scan field, providing an anatomically optimized dose.

#### ECG dose modulation

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







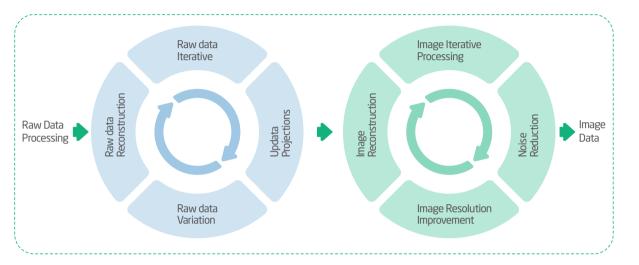






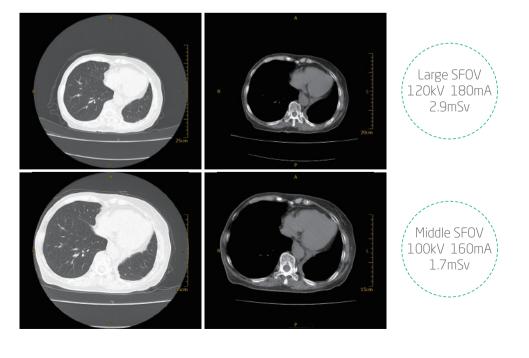
#### ClearView

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



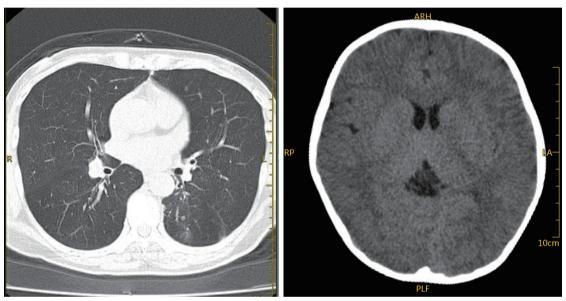
#### Auto SFOV

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

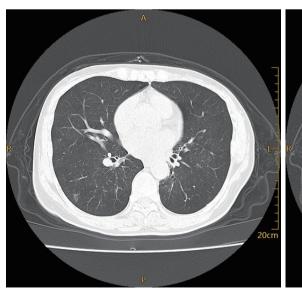


### 60kV Pediatric Image

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



60kV



120kV



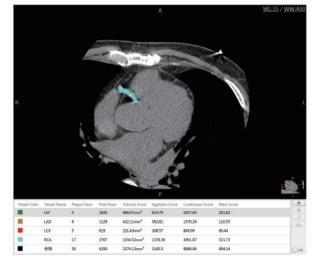
60kV



60kV



#### **Cardiac Solutions**

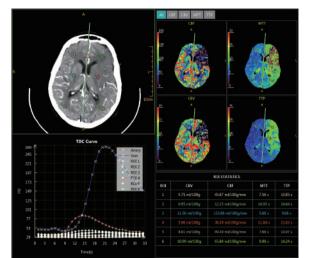


Cardiac Calcium Scoring



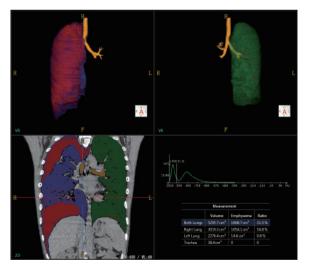
Coronary Analysis

### **Perfusion Solutions**

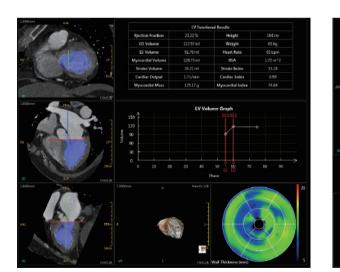


Brain Perfusion

## Lung Solutions



Lung Density



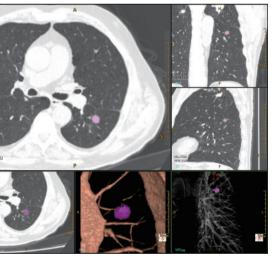
Cardiac Function Analysis

Plaque Analysis





Body Perfusion

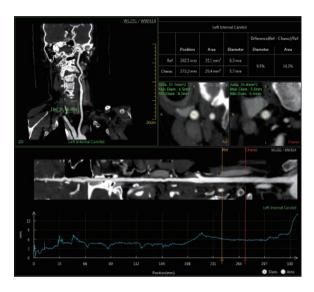


Lung Nodule Analysis



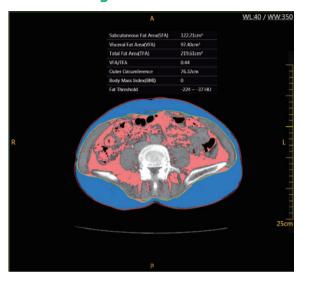
## Advanced Vessel Analysis



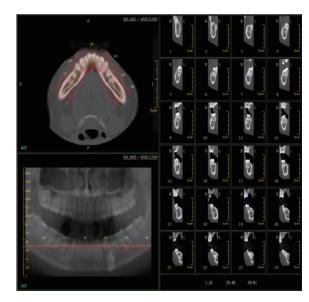


#### Fat Analysis

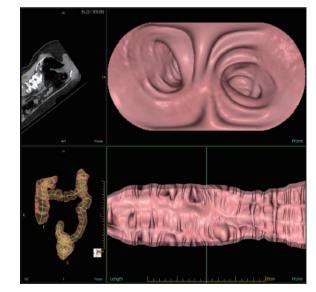




## **Dental Analysis**



## Virtual Colonoscopy



## **Internal Fracture Fixation**





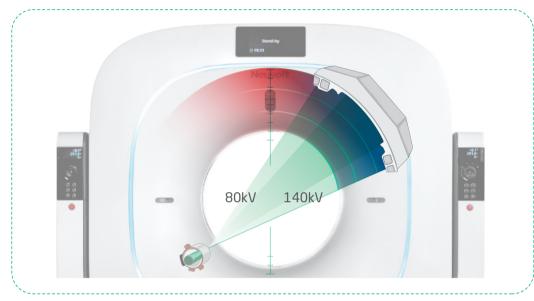




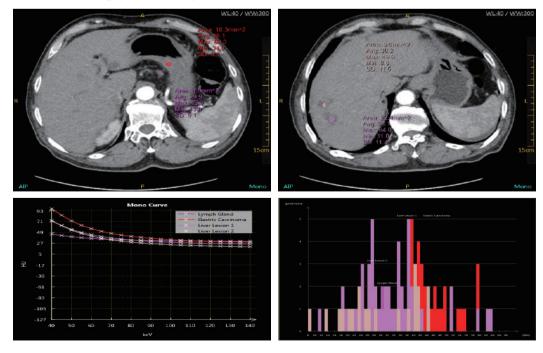


#### **Spectral Imaging**

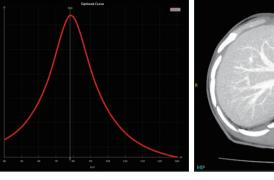
The NeuViz Prime is designed to offer Spectral Imaging by kV switching, which can add tissue characterization to morphology based on different materials. Calcium, iodine and water can be separated easily. The benefits focus on diagnosis for cancer, gout, calcified plaque, etc.



#### Homology Analysis



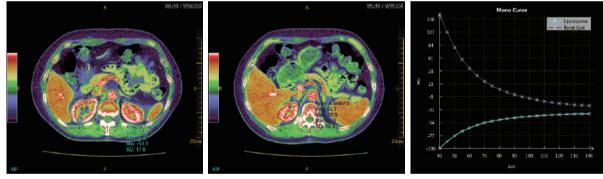
#### Automatically choosing Best CNR



CNR Curve

78keV

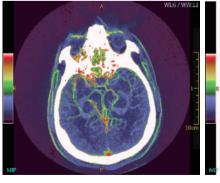
#### Mono-energy rainbow images & curve

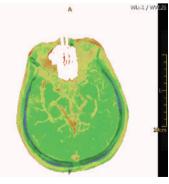


70keV

70keV

## Multi-material separation & Z effective images

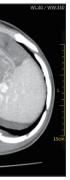




lodine (Water) image quantitatively analyzes iodine uptake value

lodine (Calcium) image erases calcification and precisely evaluates angiostenosis





It automatically selects the best mono-energy image displaying ROI tissue, helping improve the small lesion detectability ratio and displaying arteries and veins. Disease diagnosis and surgical programs are more conveniently formulated.

Mono Curve

Effective atomic number image further analyzes material composition



#### **New Design**

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



#### **Smart Protocol Selection**

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

Protocol Name	Attributor
Favorite Protocols	
Calcium Scoring Cine	4 944
Calcium Scoring	4 * 🗠 🛪
Coronery CTA + ClearView	40/44
Coronary CTA Ax.	40/94
Coronary CTA DOM 0%	4 (9 / 7 ± 4
Recent Protocols	
Abdomen	≪ ≙⇔
Brain Au. 18m-6yrs	A 0
Orbit Ax.+OrganSafe	A 0
Coronery CTA + ClearView	モジアマ品本
Coronary CTA	40/460
Calcium Scoring Cine	< ♥≙★
Calcium Scoring	4 944
Coronery CTA DOM	40/**A4
Coronary CTA Ax.	40/944
Coronary CTA DOM 0%	<0/>
l Mart ■ Dile ■ Alah 4 Vace 1/2 Treation / Species 1/1 Species 1/1 Species	ofa

#### Easy Using AVW Workstation

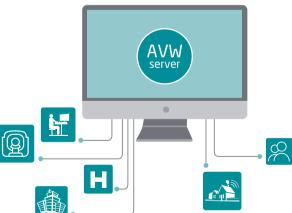
Post-processing is designed to save time. Key strokes are minimized and process steps are automated with streamlined workflow.

'One-click' bone removal can remove all bones, meanwhile automatically identifying and naming main vessels. 'One-click' segmentation can extract interest organs automatically, such as coronary arteries, lung, colon, etc.

VA VA 1 Bone Removal 2 Extraction 3 Measurement
1     Bone Removal       2     Extraction
2 Extraction
3 Measurement
s. Alterative Mathematic
VISUAL TOOL
□ 3D Clip Box
MPR Clip Box Cube
Render Mode
Show MPR Name
Other
BONE REMOVAL TOOL
Low Threshold
400 HU
Bone Tool Couch Tool Bone Auto Tool
k k 😫 😫 👧 🔍 🗌
Head Neck
Chest Abdomen(Vessel)
Chest Abdomen
Brush Radius: Lower Limb
BATCH TOOL Bone Fragment

your work efficiency.

A new solution to enhance your teamwork, while caring more for your patients.





#### Server-Client Architecture

AVW.Cloud offers a new platform for efficient and automated workflow. It supports multi-terminal operation and multi-modality reading. It expands your clinical practice, lowers your daily costs and improves

# Service and Logistics Support





#### After-sales service and support

- Remote service capabilities bring Neusoft expertise to you IMMEDIATELY, no matter where you are!
- Identifying and correcting PROMPTLY and PROACTIVELY, minimizing downtime and patient inconvenience.
- Global logistics network enables fast response regarding parts and supplies.
- \* Note: The contents of this publication and the listed parameters are for reference only and not intended as legal offers or commitments. Neusoft Medical Systems reserves the right to modify the contents, design, specifications and options described herein without prior notice, and will not be liable for any consequences resulting from the use of this publication. Please contact your local Neusoft sales representative for the current information. The specific sales product configuration is subject to the actual contract signed by Neusoft.
- \* Not available in the United States



#### Neusoft Global Service & Logistics Network