

Caring for you

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 NeuSoft Medical Systems

 NeuSoft Medical

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NeuMR Rena
Optimized Results

NeuMR Rena/Y 23.08

Boundless Platform

Fiber Distributed Spectrometer

Full-digital Gradient Chain

Advanced Application



NeuMR Rena



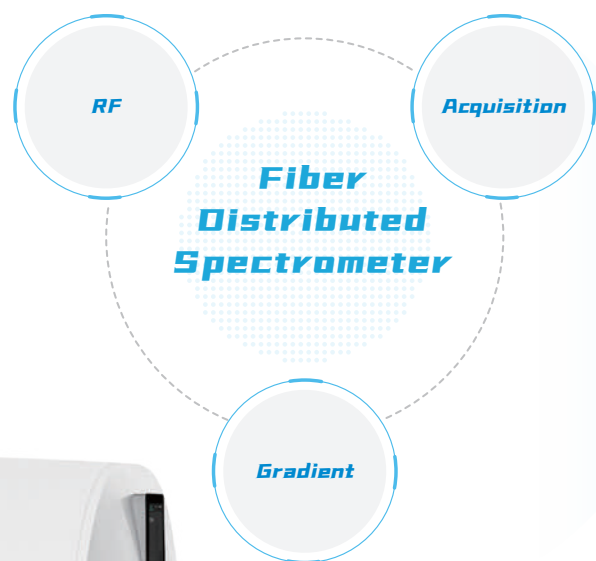
Neusoft



NeuMR Rena

Boundless platform

Fiber Distributed Spectrometer



Stronger real-time performance

Higher SNR

Wider scalability

Broader openness

Fully open scientific research platform that provides scientific research collaboration solutions.

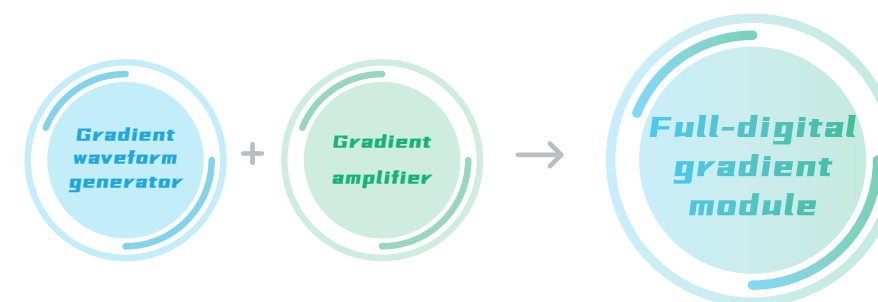


Boundless platform

Full-digital Gradient Chain

Full-digital gradient module

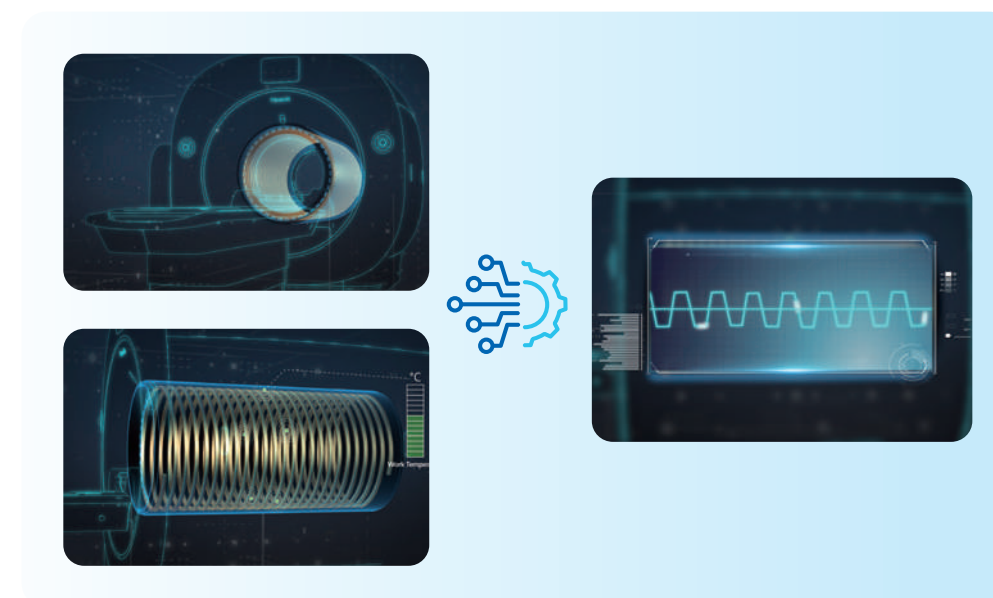
The gradient waveform generator is positioned in front of the gradient amplifier, forming a full-digital gradient module.



The realization of digital transmission through optical fiber ensures both high bandwidth and fidelity of gradient output.

Advanced gradient system

The gradient system utilizes an embedded cooling design and real-time temperature control at multiple points to ensure more accurate temperature control and achieve accurate output of gradient waveforms.



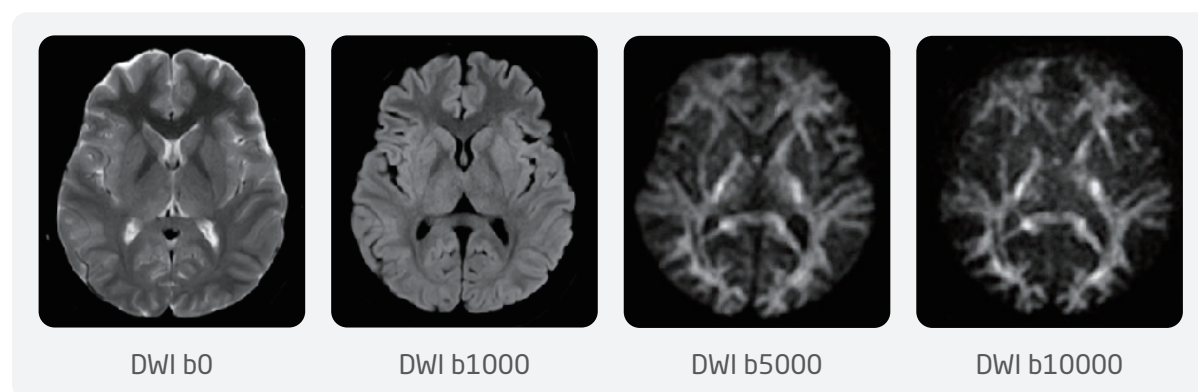
Super-high Gradient strength

46 mT/m

High Resolution

MUSIC-HDDWI Technology

High SNR/High Resolution/Artifact Free



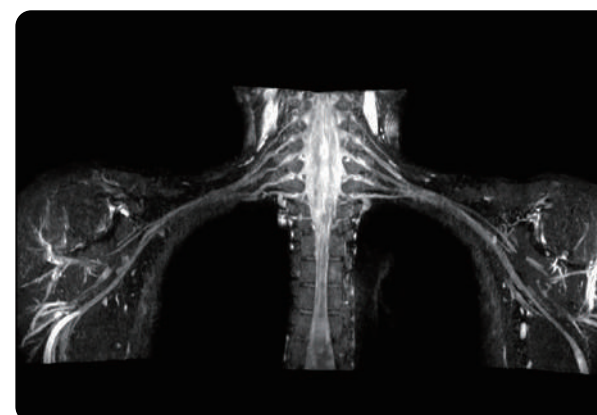
The higher b value, the higher performance requirements for the equipment. MUSIC sequence provides high spatial resolution and clear anatomical details.

High Resolution

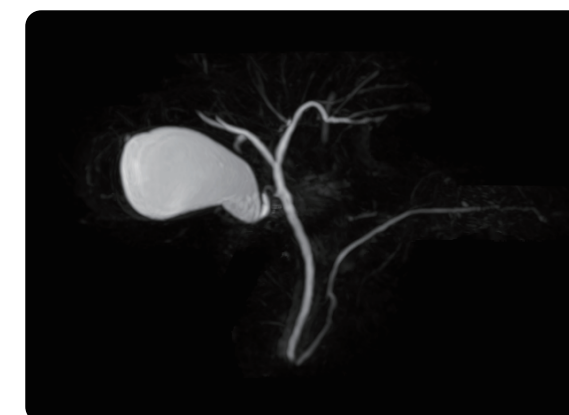
High Resolution

VAST can achieve 3D isotropic high-resolution imaging for T1, T2, FLAIR and PD, ensuring distortion-free MPR reconstruction. It can also be applied to various parts of the body.

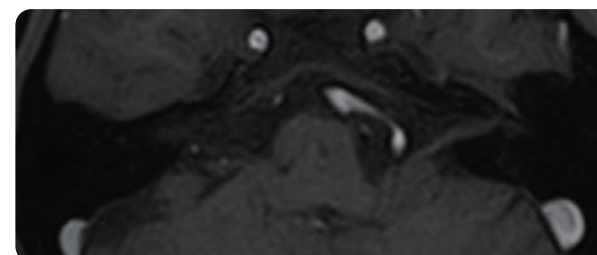
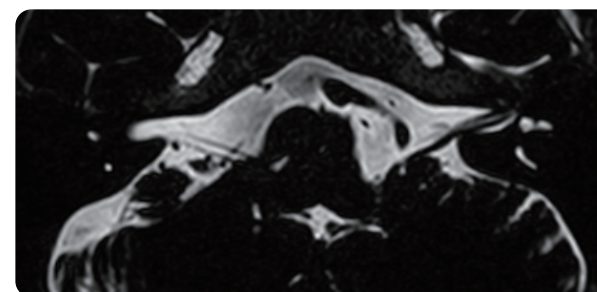
Brachial plexus ▼



MRCP ▼



IAC ▼



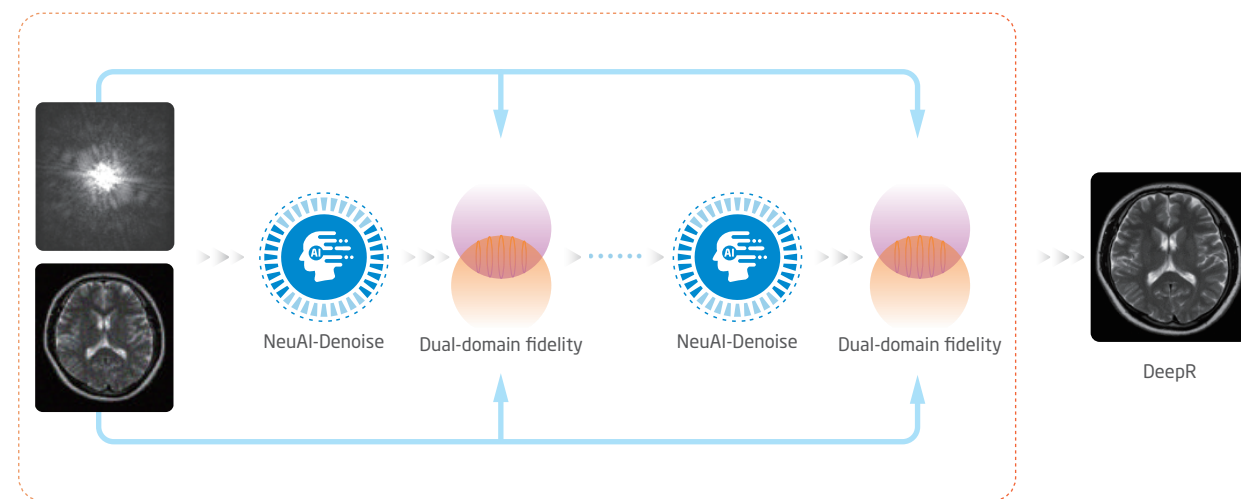
Joint ▼



Ultra Fast Speed

Deep R-AI acceleration technology

Fast and fidelity



The dual-domain fidelity module ensures the authenticity of the data during the image reconstruction process as well as the stability of the reconstructed image.

Taking brain scanning as an example, compared to conventional scanning techniques, achieves the same image quality.

Time has been reduced

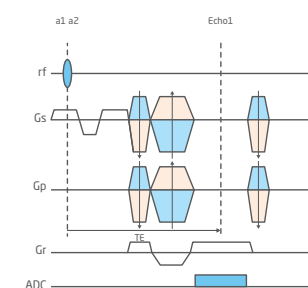
45%

Ultra Fast Speed

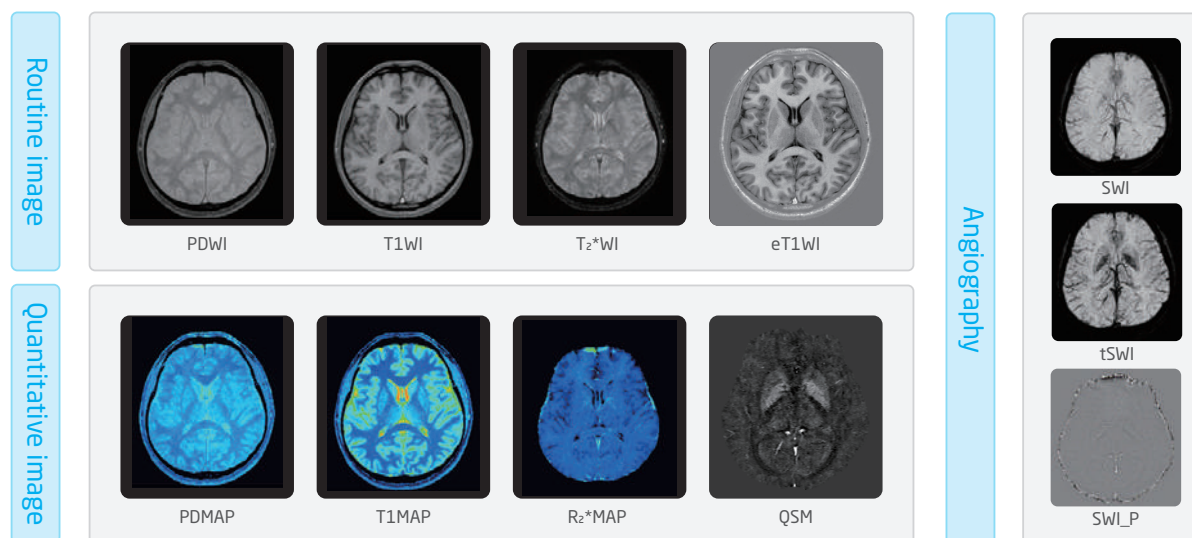
Fast BrainQuant

Gradient echo formula

$$f(x) = \rho \cdot B1^- \cdot \sin(B1^+ \cdot \theta) \frac{1 - \exp(-\frac{TR}{T1})}{1 - \cos(B1^+ \cdot \theta) \cdot \exp(-\frac{TR}{T1})} \cdot e^{-\frac{TE}{T2^*}} \cdot e^{i(\gamma \Delta(B) \cdot TE + \phi_0)}$$



By optimizing the acquisition technique and mathematical algorithms, according to the gradient echo formula, multiple sets of equations are obtained by transforming the flip angle and echo time. By solving the equation groups, all quantitative values contained in the signals are obtained.



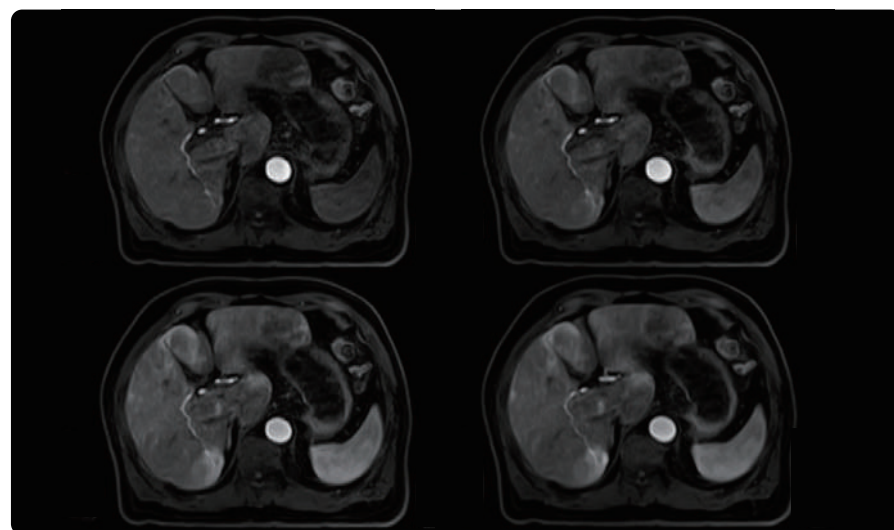
Faster

Accurate

Better

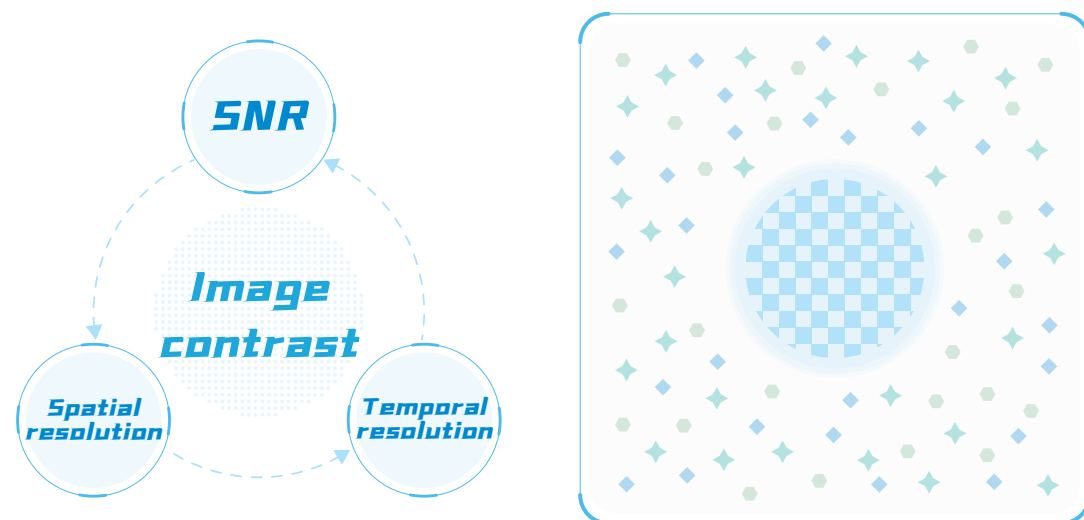
Ultra Fast Speed DANCE

A single BH scanning can achieve ultra fast multi-phase dynamic enhancement scanning, which can continuously obtain arterial multi-subphase images, ensuring ultra-high temporal and spatial resolution.



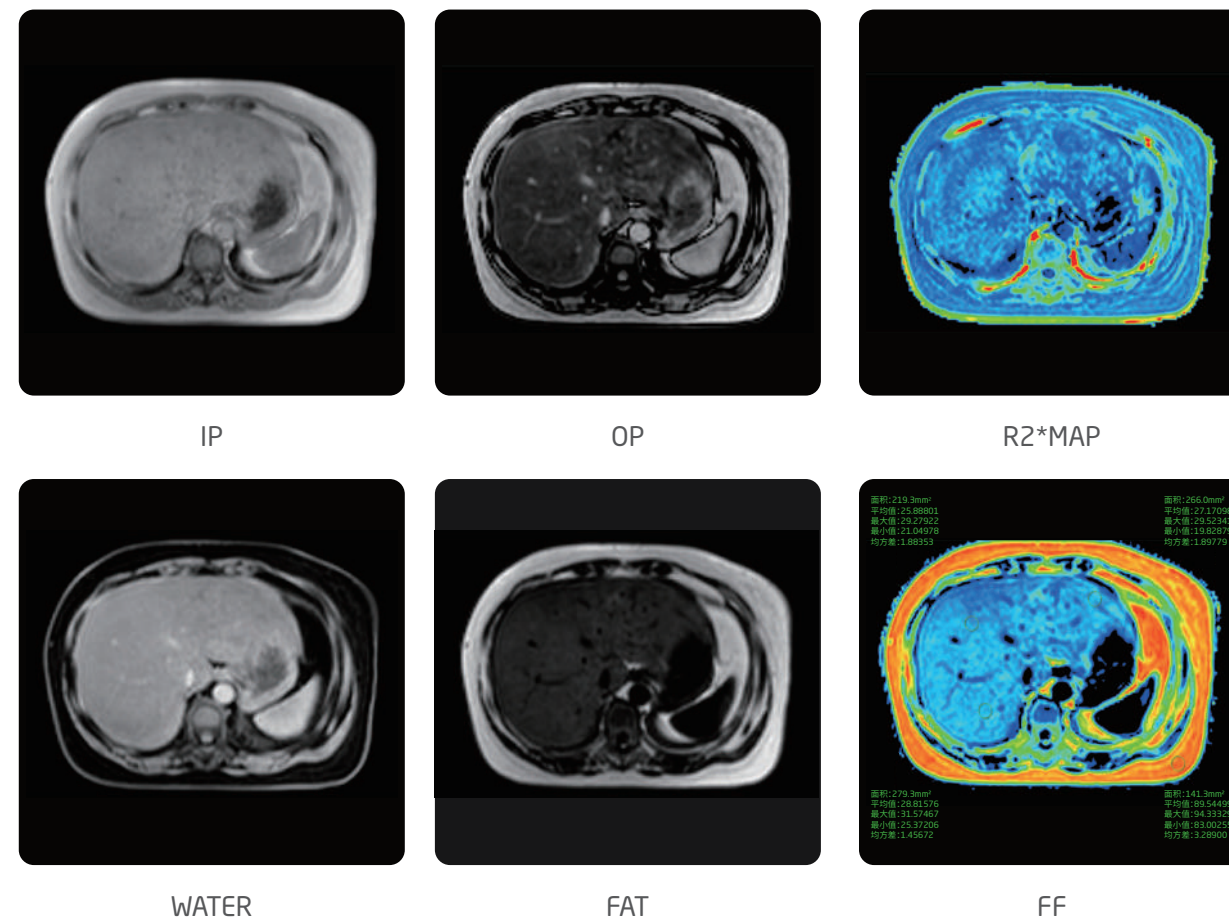
- ✓ Temporal resolution:
4 sec/phase
- ✓ Spatial resolution:
0.7mm*0.7mm*2.5mm

DANCE adopts **K-space dynamic random sparse sampling**, K-space central area fully sampled repeatedly, and dynamic random sparse sampling of surrounding data.



Precise Quant LiverQuant for Liver

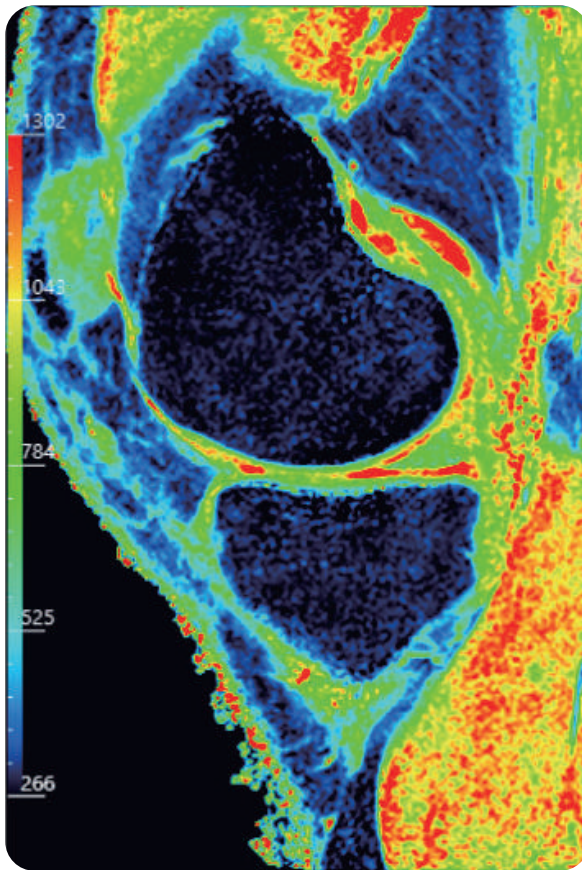
Precise Quantification of Hepatic Fat & Analysis of Iron Deposition.



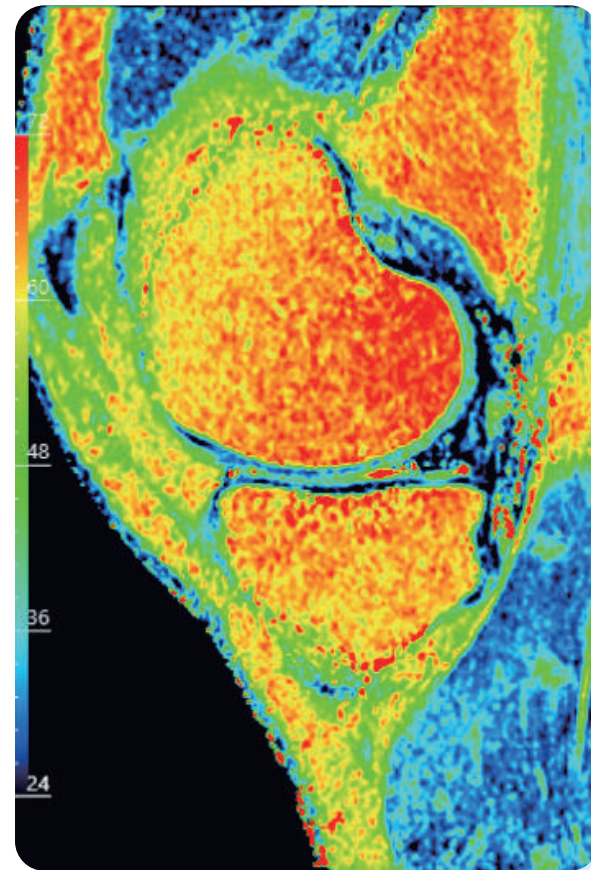
Precise Quant

KneeQuant

A noninvasive method to evaluate the biochemical changes of cartilage and meniscus in patients with early-stage osteoarthritis.



T1 Map



T2 Map

NeuUI 2.0

Dual Screen Design

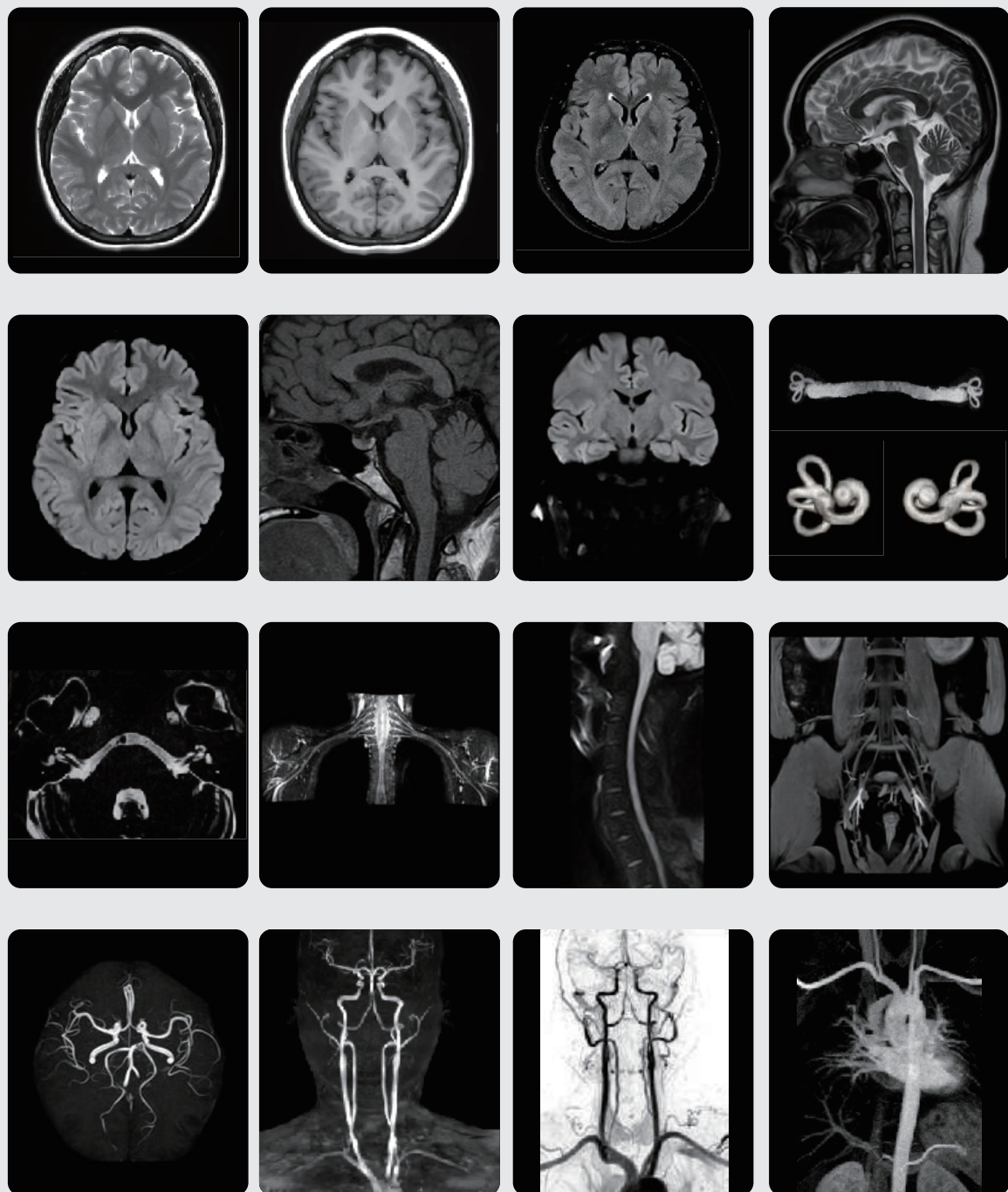
More convenient

More professional



Comprehensive Application

Nerves and Blood vessels ▼

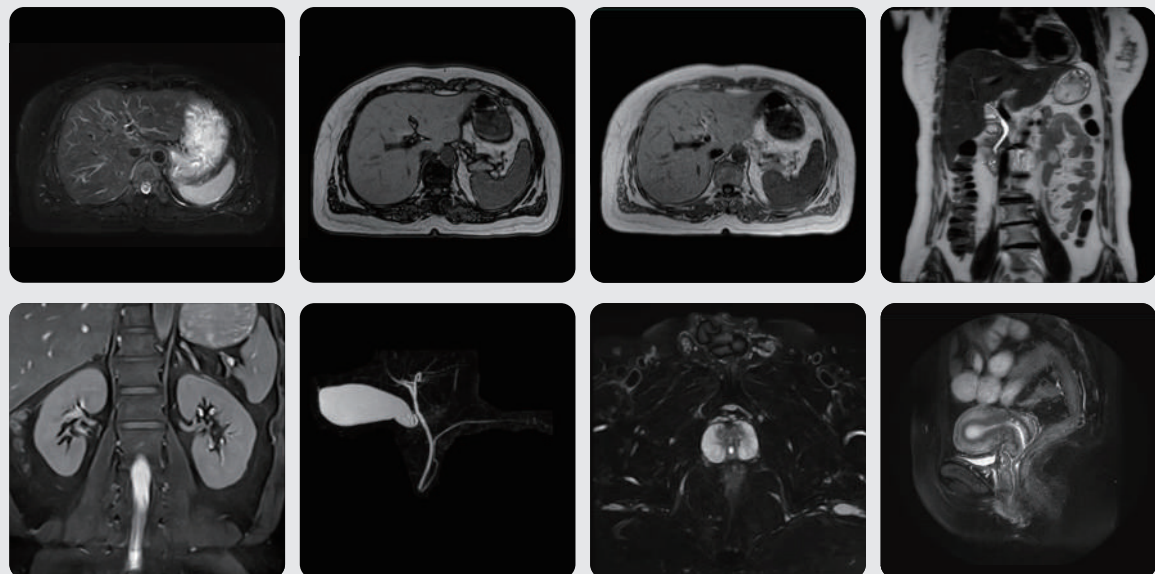


Joint ▼

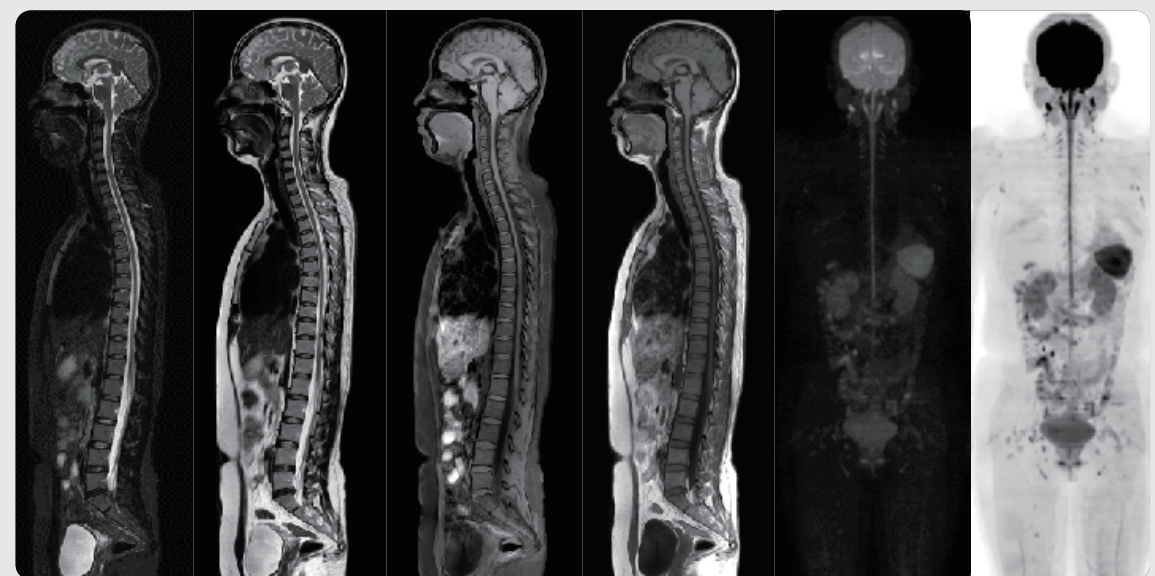


Comprehensive Application

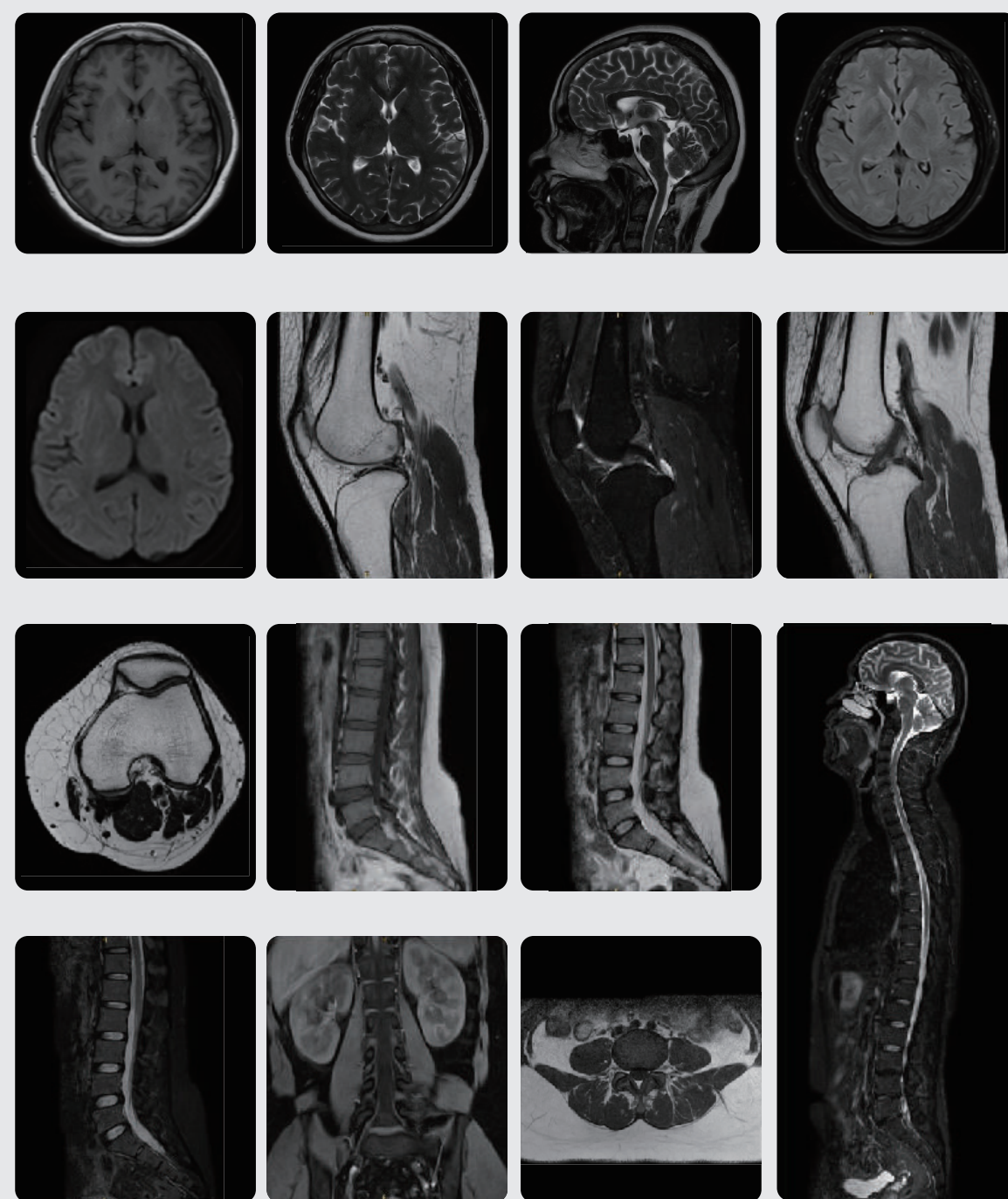
Abdomen ▼



Total Spine & PET-LIKE ▼

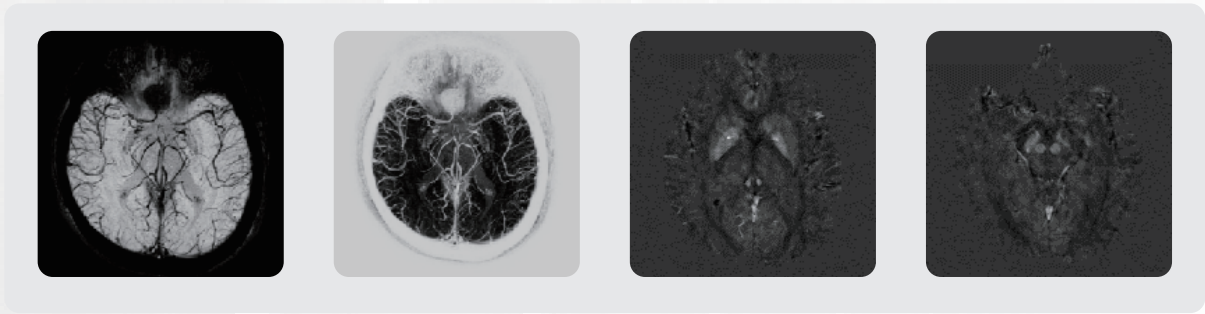


Deep R ▼

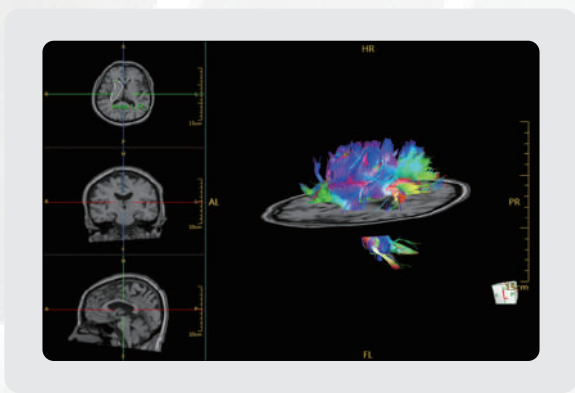


Comprehensive Application

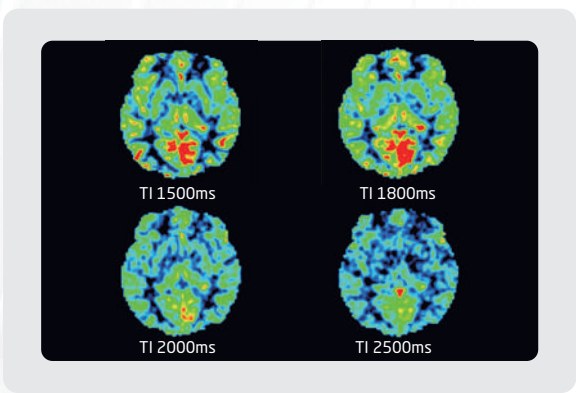
SWI ▼



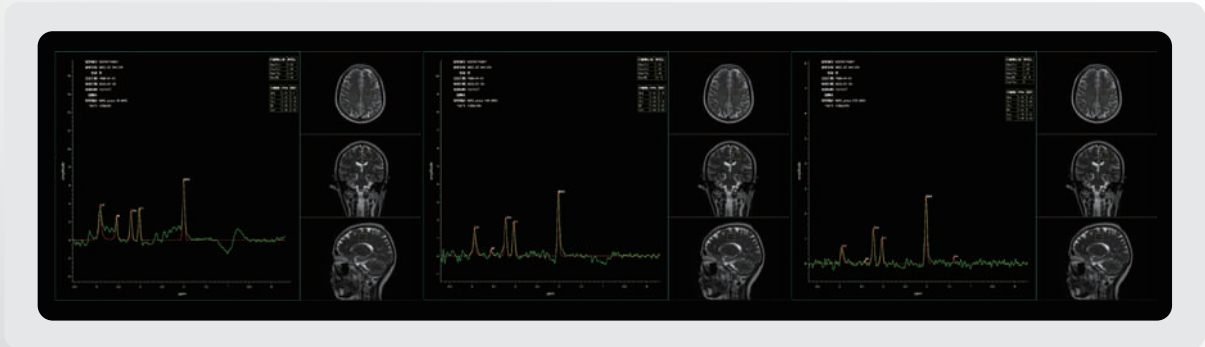
DTI ▼



ASL ▼

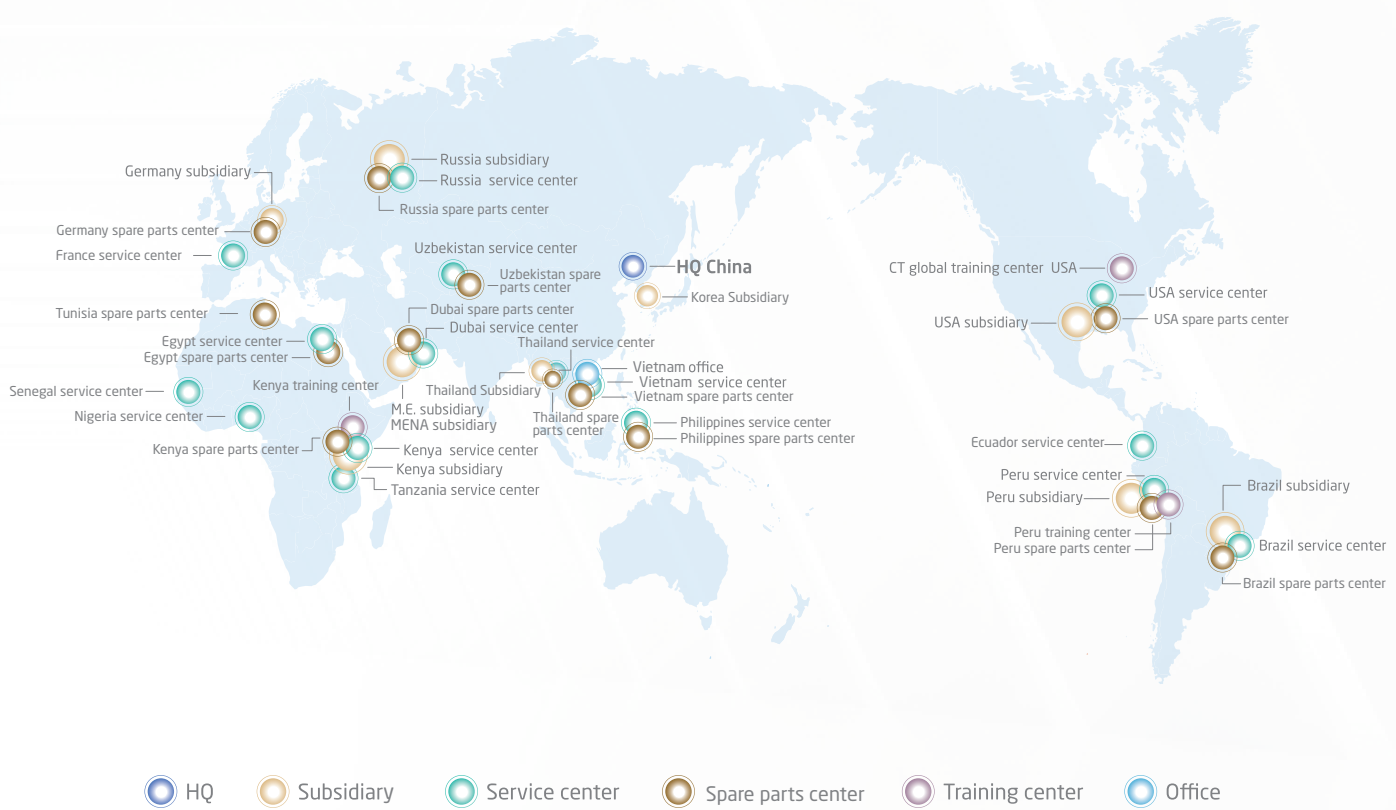


MRS ▼



Service and Logistics Support

Neusoft Global Service & Logistics Network



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.

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