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Caring for you

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www.neusoftmedical.com/en/

Neusoft Medical Systems

Neusoft Medical
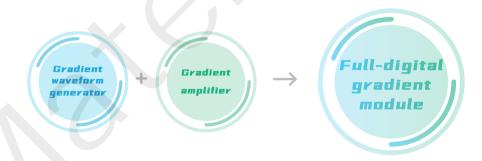
Address: No. 177-1 Chuangxin Road, Hunnan District, Shenyang, Liaoning, China 110167

NeuMR Rena/Y 23.08

NeuMR Rena

Optimized Results

Neusoft Medical Systems

Boundless Platform

Fiber Distributed Spectrometer

Full-digital Gradient Chain

Advanced Application

Neusoft

NeuMR Rena

NeuMR Rena

Boundless platform
Fiber Distributed Spectrometer

RF

Acquisition

Fiber Distributed Spectrometer

Gradient

Stronger real-time performance

Higher SNR

Wider scalability

Broader openness

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

NeuMR Rena

Boundless platform
Full-digital Gradient Chain

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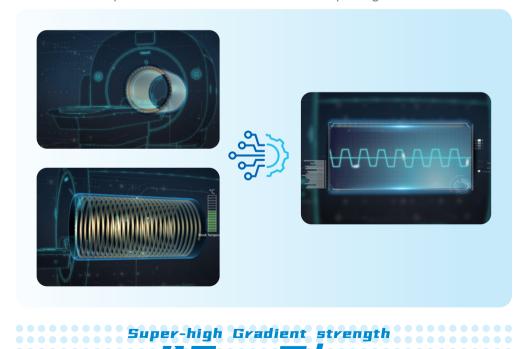
The gradient waveform generator is positioned in front of the gradient amplifier, forming a full-digital gradient module.

Gradient waveform generator + **Gradient amplifier** → **Full-digital gradient module**

The realization of digital transmissionthrough 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.
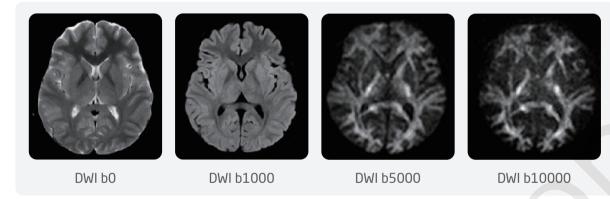
Super-high Gradient strength
46 mT/m

High Resolution
MUSIC-HDDWI Technology

High SNR/High Resolution/Artifact Free

SS-DWI   **VS**   MUSIC

RF   90   180   180

G_D

G_S

G_P

G_R

Imaging echo   Navigator echo

DWI b0

DWI b1000

DWI b5000

DWI b10000

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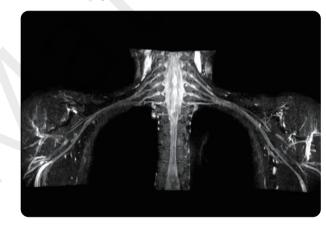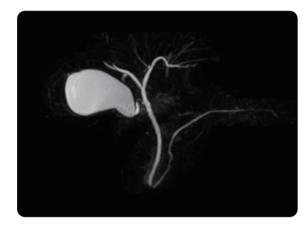
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High Resolution
High Resolution

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.
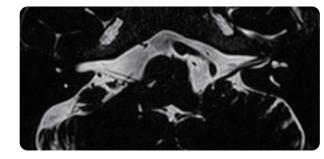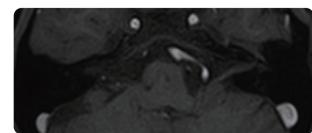
Brachial plexus ▼
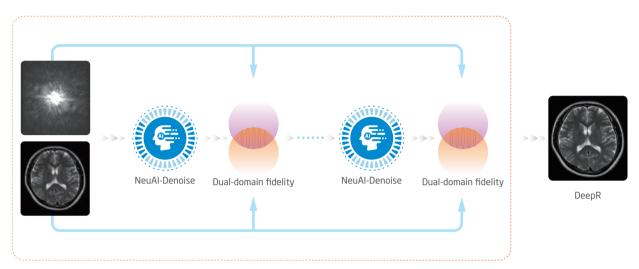
MRCP ▼

IAC ▼

Joint ▼

Ultra Fast Speed
Deep R-AI acceleration technology
Fast and fidelity

NeuAI-Denoise → Dual-domain fidelity → NeuAI-Denoise → Dual-domain fidelity

DeepR

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.
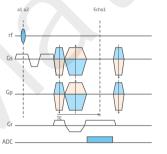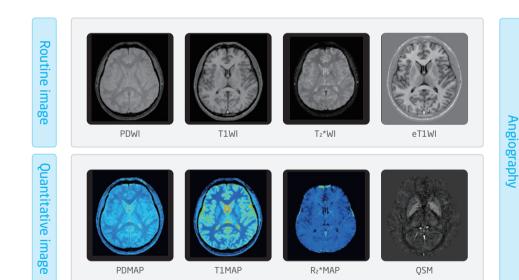
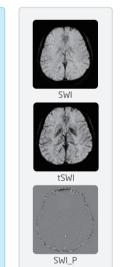# Time has been reduced
45%

Ultra Fast Speed
Fast BrainQuant

Gradient echo formula

$$f(x) = \rho \cdot B1^{-} \cdot \sin(B1^{+} \cdot \theta) \frac{1 - \exp(-\frac{TR}{T_1})}{1 - \cos(B1^{+} \cdot \theta) \cdot \exp(-\frac{TR}{T_1})} \cdot e^{-\frac{TE}{T2^{*}}} \cdot e^{i(\gamma\Delta(\Delta B) \cdot TE + \varphi_0)}$$

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.
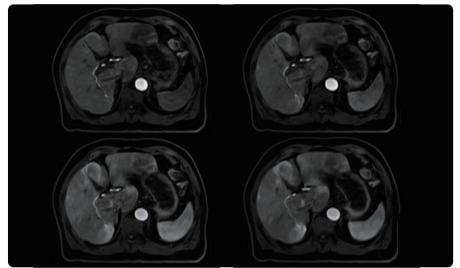
Routine image

| PDWI | T1WI | T₂*WI | eT1WI |

Quantitative image

| PDMAP | T1MAP | R₂*MAP | QSM |

Angiography

SWI
tSWI
SWI_P
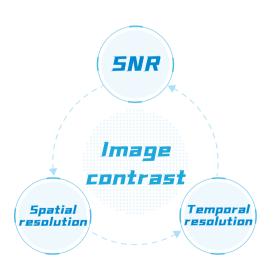
Faster   **Accurate**   **Better**
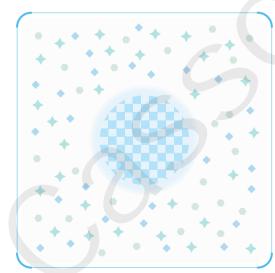
Ultra Fast Speed

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.
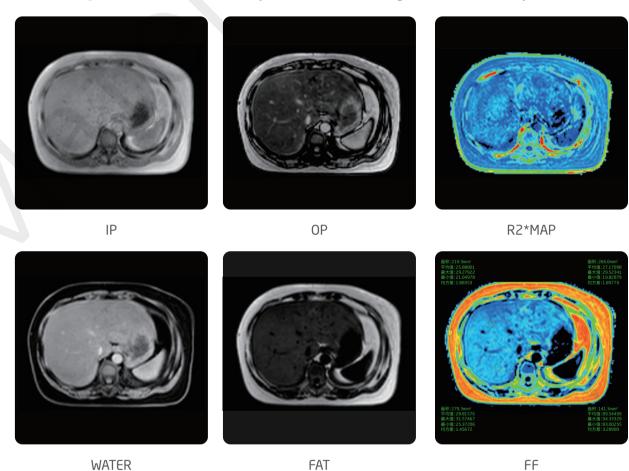
SNR

Image contrast

Spatial resolution

Temporal resolution

Precise Quant

LiverQuant for Liver

Precise Quantification of Hepatic Fat & Analysis of Iron Deposition.

IP

OP

R2*MAP

WATER

FAT

FF

「 Six Echoes 」

「 Six Contrasts 」
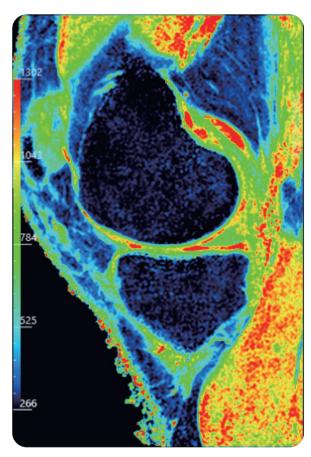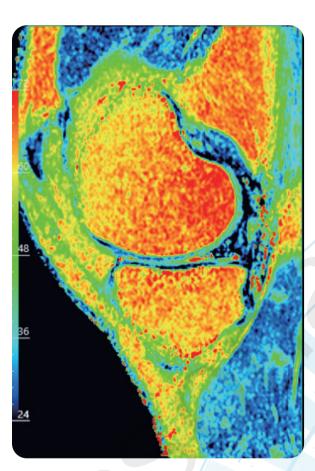
「 One Acquisition 」

「 Precise Quant 」

Neusoft

Welcome！

Precise Quant
KneeQuant

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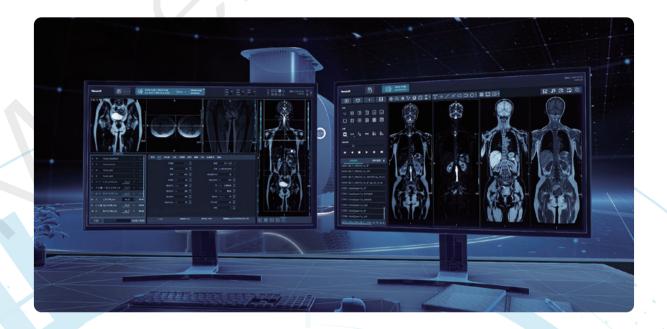

T1 Map

T2 Map

NeuUI 2.0

Dual Screen Design
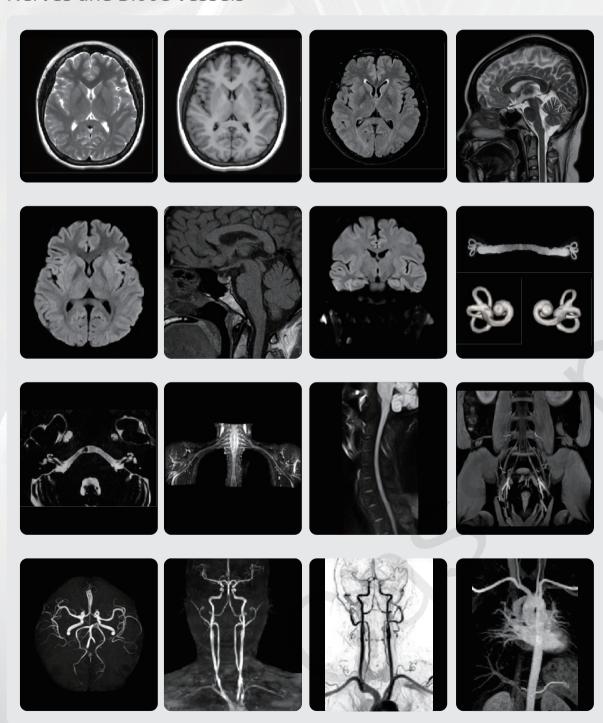
More convenient   More professional

Comprehensive Application

Nerves and Blood vessels ▼
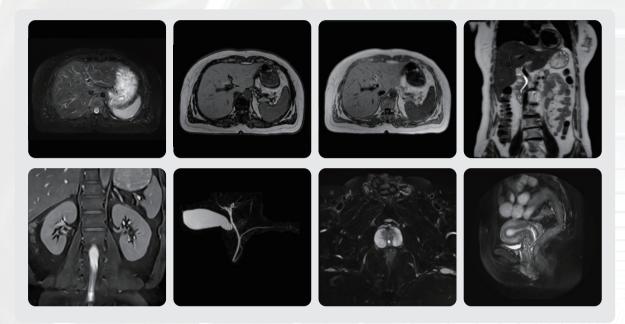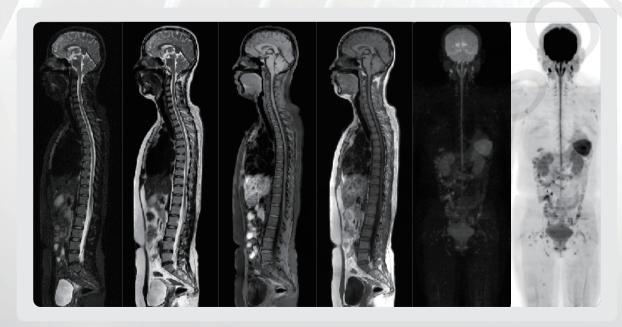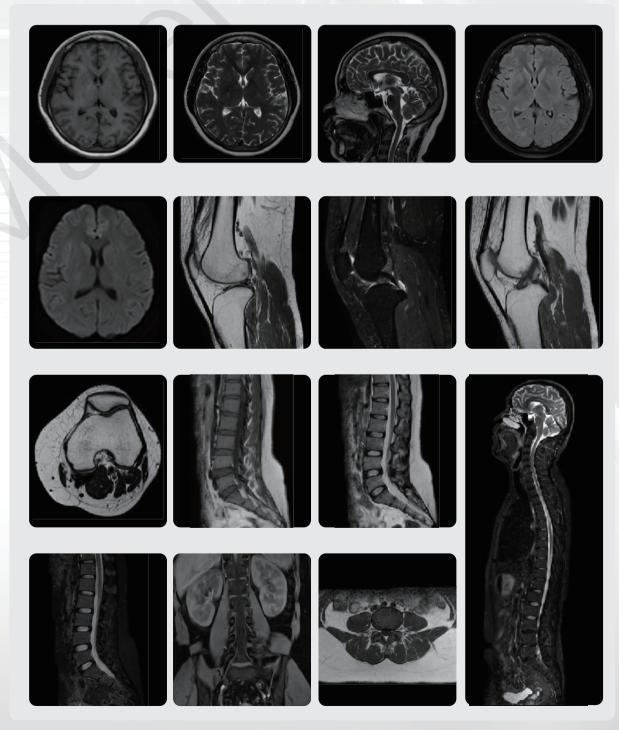
Joint ▼

Comprehensive Application

Abdomen ▼

Deep R ▼

Total Spine & PET-LIKE ▼
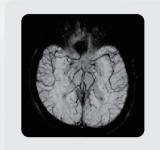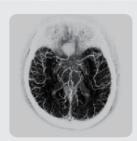
Comprehensive Application

Service and Logistics Support

SWI ▼

DTI ▼

ASL ▼

TI 1500ms   TI 1800ms
TI 2000ms   TI 2500ms
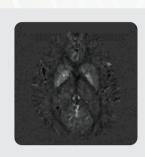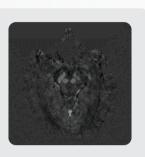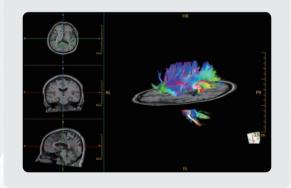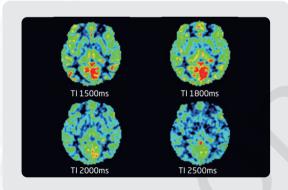
MRS ▼

Neusoft Global Service & Logistics Network

Germany subsidiary
Russia subsidiary
Russia service center
Russia spare parts center
Germany spare parts center
France service center
Uzbekistan service center
Uzbekistan spare parts center
HQ China
Korea Subsidiary
CT global training center USA
USA service center
USA subsidiary
USA spare parts center
Tunisia spare parts center
Dubai spare parts center
Dubai service center
Egypt service center
Egypt spare parts center
Thailand service center
Vietnam office
Vietnam service center
Vietnam spare parts center
Senegal service center
Kenya training center
Thailand Subsidiary
Ecuador service center
Nigeria service center
M.E. subsidiary
MENA subsidiary
Thailand spare parts center
Philippines service center
Philippines spare parts center
Peru service center
Peru subsidiary
Brazil subsidiary
Kenya spare parts center
Kenya service center
Kenya subsidiary
Tanzania service center
Peru training center
Peru spare parts center
Brazil service center
Brazil spare parts center

○ HQ   ○ Subsidiary   ○ Service center   ○ Spare parts center   ○ Training center   ○ Office

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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