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Edition ID | 88000004 - MPD - BRE - 03

uMR 780

ACS Edition

Fast. Accessible.

ABOUT UIH

At United Imaging, we develop and produce advanced medical products, digital healthcare solutions, and intelligent solutions that cover the entire process of imaging diagnosis and treatment. Founded in 2011 with global headquarters in Shanghai, our company has subsidiaries and R&D centers across China, the United States, and other parts of the world. With a cutting-edge digital portfolio and a mission of broader access to healthcare for all, we help drive industry progress and bold change.

To learn more, visit https://www.united-imaging.com

uMR 780
ACS Edition

Intelligent 3.0T MRI Driven by ACS

uMR 780 is driven by the unique ACS platform which includes the ACS imaging technology and the ACS processing engine, providing higher performance in both ultra-fast and high-resolution imaging.

ACS Platform

Comprehensive Applications

Powerful SuperSystem

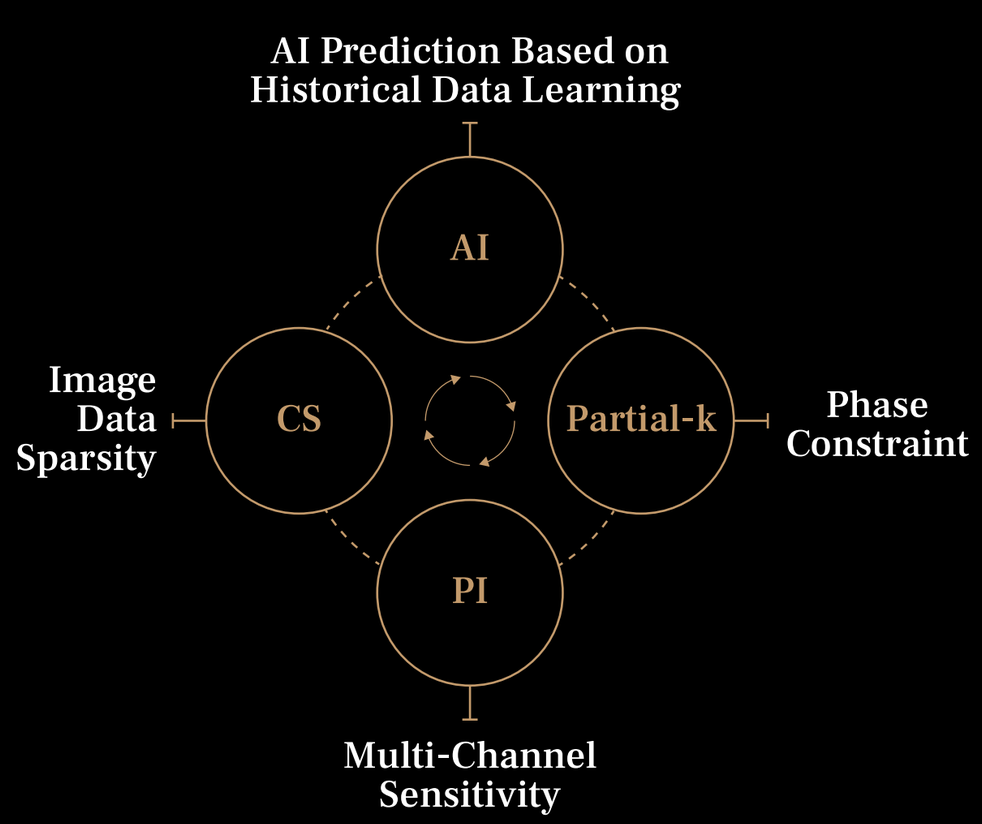
ACS Platform
(AI-assisted Compressed Sensing)

For the first time, ACS yields:

Historical prior knowledge & AI-assisted technology

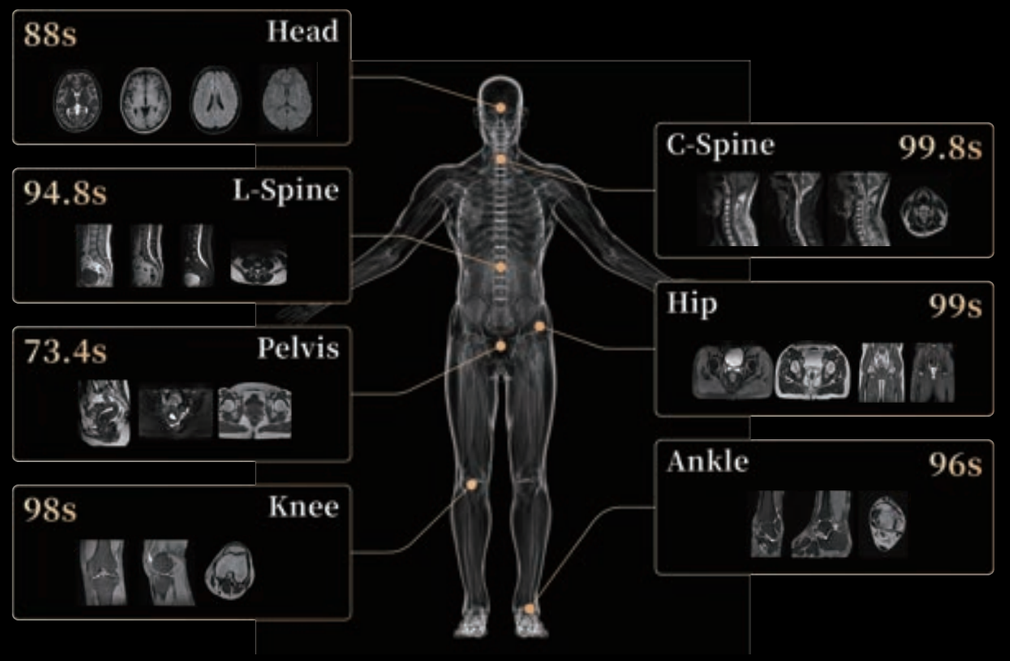
Combination of four acceleration methods: partial Fourier, parallel imaging, compressed sensing, and AI

MR acquisition speed approaches that of CT



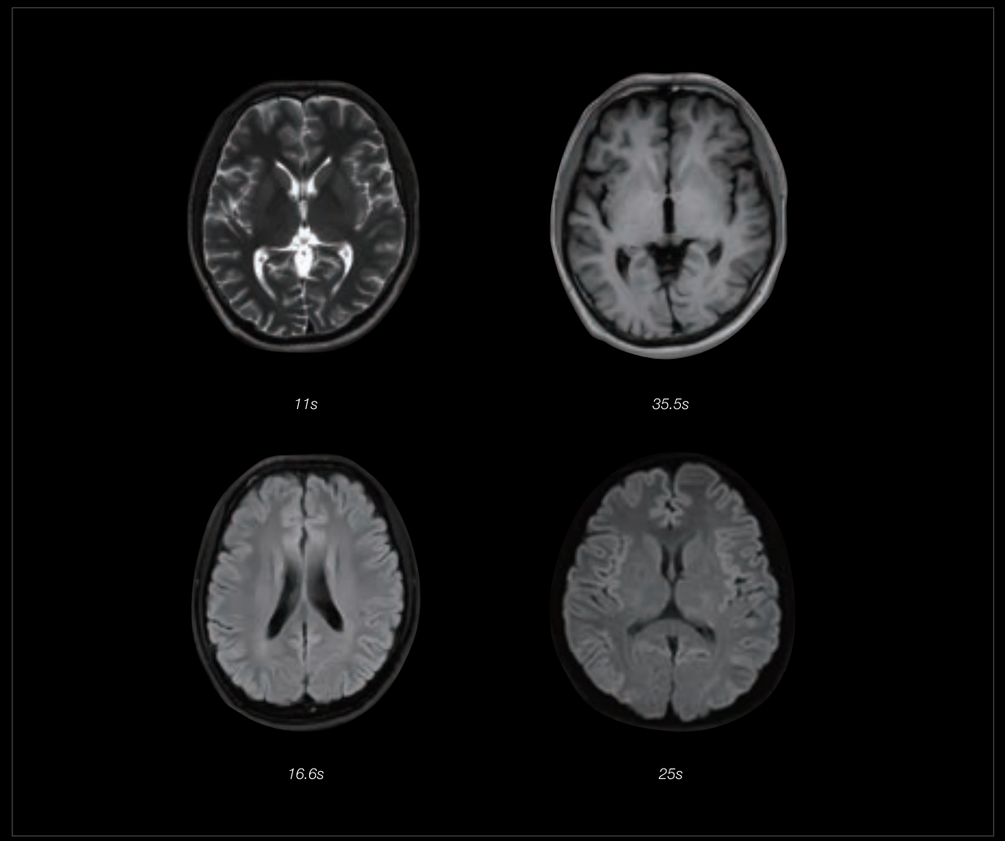
Optimized Coverage:

ACS Can Be Used on All Anatomies



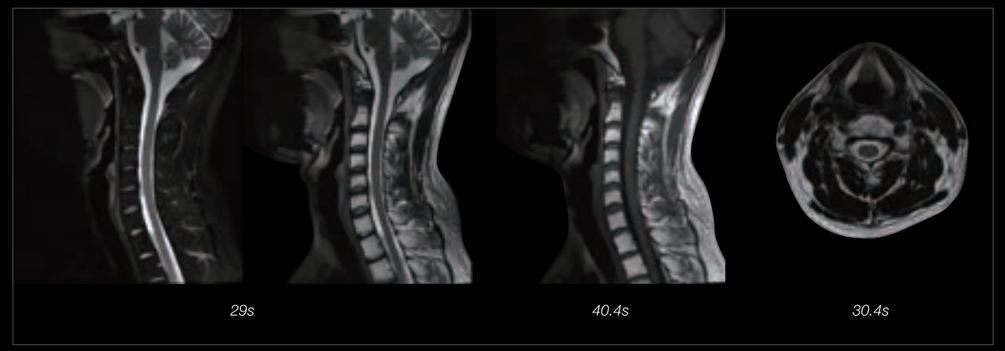
Comprehensive ACS Applications

Optimized Neuro

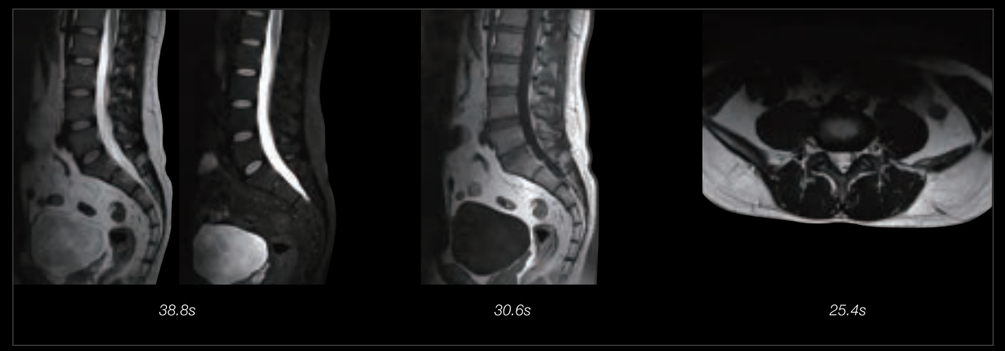


Total AD: 88.1 seconds

Optimized Spine



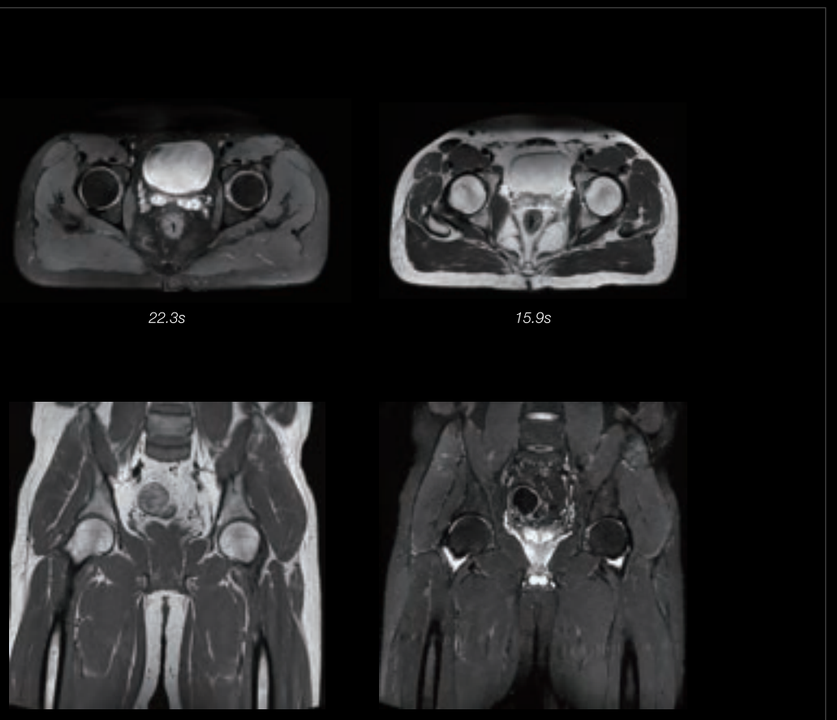
C-Spine
Total AD: 99.8 seconds



L-Spine
Total AD: 94.8 seconds

Comprehensive ACS Applications

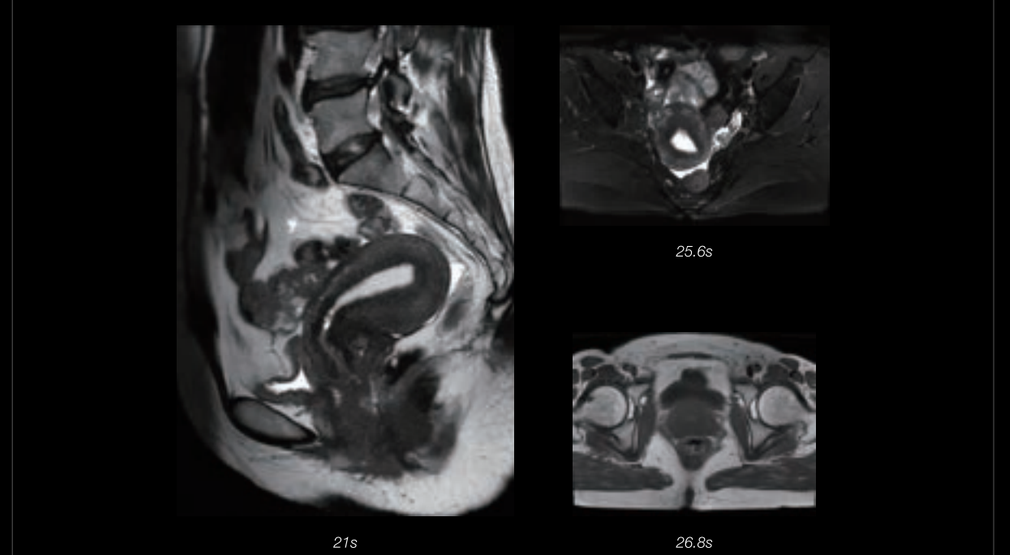
Optimized Hip



22.3s *15.9s* *27.6s* *33.2s*

Total AD: 99 seconds

Optimized Pelvis

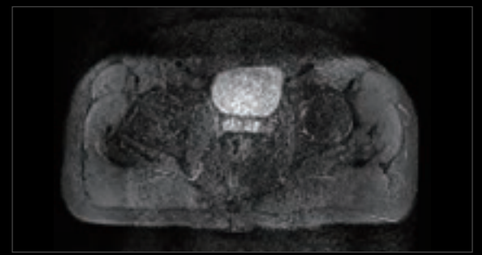


21s *25.6s* *26.8s*

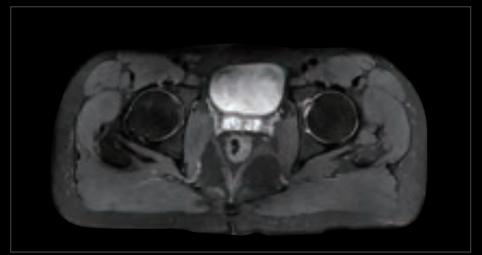
Total AD: 73.4 seconds

Comprehensive ACS Applications

Optimized Fidelity

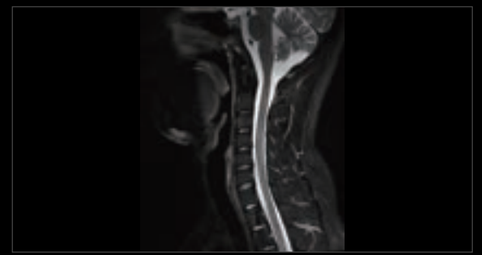


Parallel Imaging
AD: 27.2s

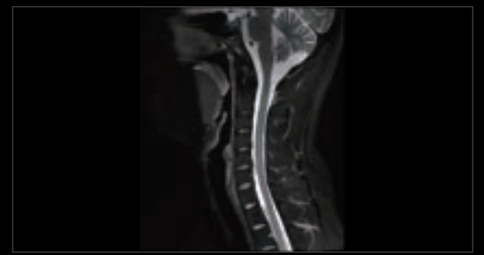


ACS
AD: 28s

Pulsation Freezing

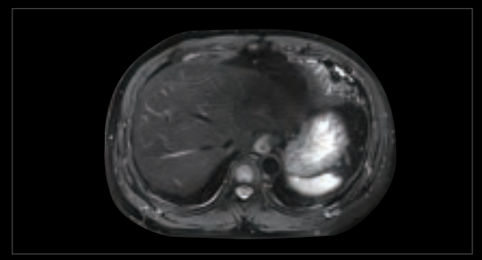


Parallel Imaging
AD: 2:30min

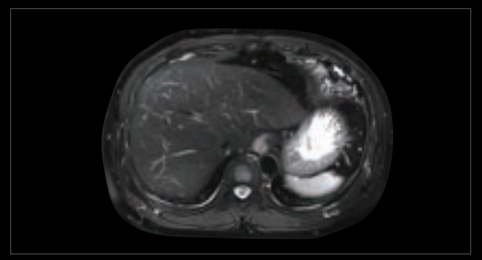


ACS
AD: 29s

Motion Freezing

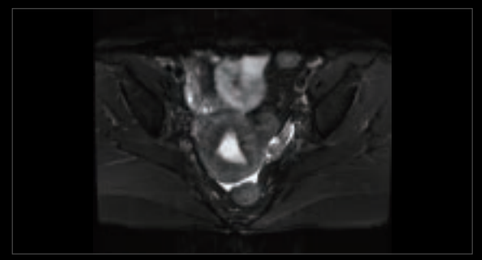


Parallel Imaging
AD: 2:43min

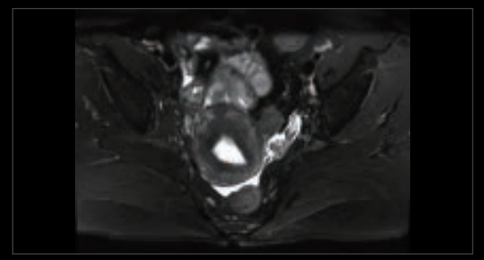


ACS
AD: 52s

Motion Freezing



Parallel Imaging
AD: 2:04min



ACS
AD: 25.6s

Comprehensive Applications

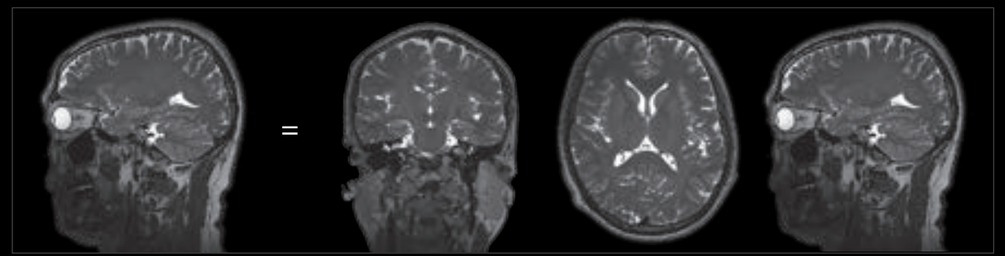
uMR 780 provides comprehensive clinical applications for whole body to meet the routine clinical and scientific research needs.

Neurology

uCS static imaging technology combined with MATRIX acquisition provides high-resolution and multi-contrast isotropic images for Neurology diagnosis.

uCS Static Imaging

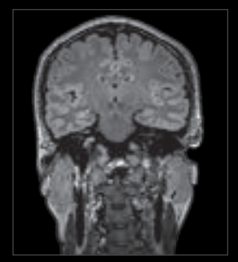
Three Dimensional Acquisition =
Two Dimensional Reconstruction from any plane



T2W MATRIX, uCS 5x,
1mm Isotropic, AD: 1:42min

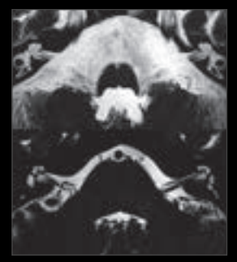
uCS Static Imaging

Head Multi-contrast Imaging

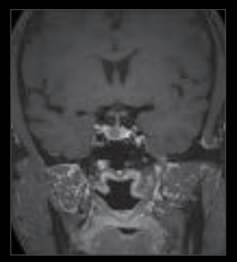


T2 FLAIR MATRIX

DIR MATRIX



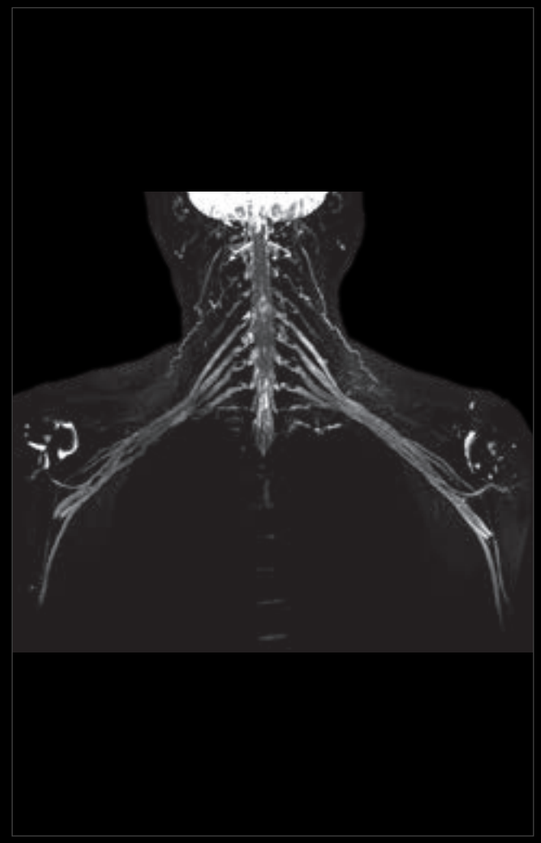
T2W MATRIX



T1W MATRIX

uCS Static Imaging

Brachial Plexus Imaging



uCS Static Imaging

Whole-spine Imaging with 2 acquisitions

Body

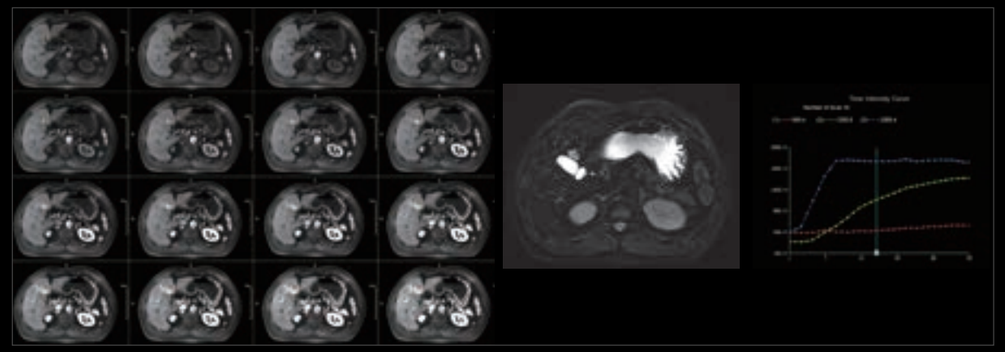
uCS Static Imaging

MRCP

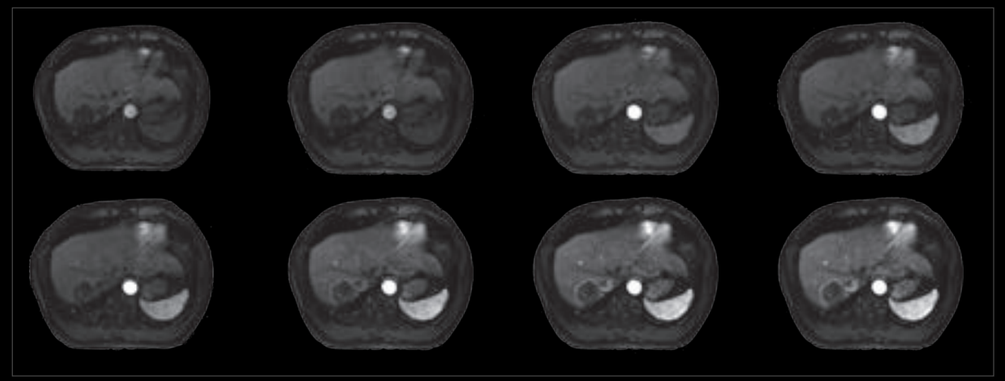
T2 MATRIX FS, uCS 2.6x
Voxel: 0.9x0.9x1.2mm^3, AD: 2:18min

uCS Dynamic Imaging

Dynamic Enhancement with Whole-liver Coverage, easily captures the time course of leision enhancement



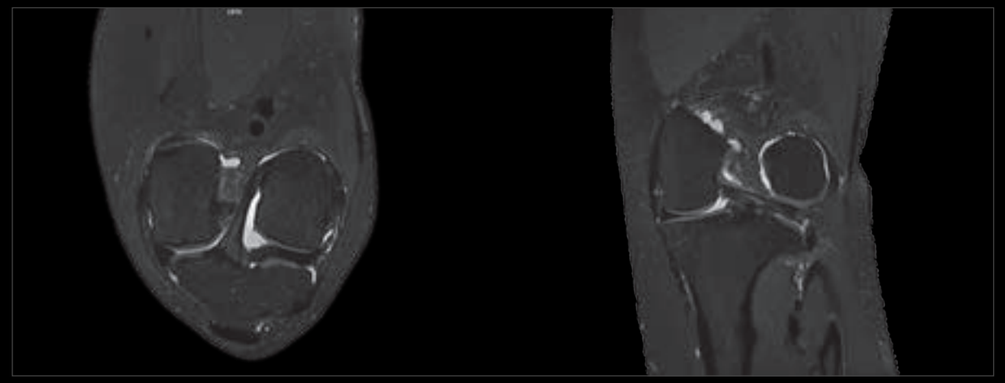
uCS 16x, Single Breath Hold, 0.5s/phase, 32 phases



uCS 16x, Single Breath Hold, 2s/phase, Voxel: 1.5x2.2x3mm^3

Orthopedics and Angiography

uCS Static Imaging

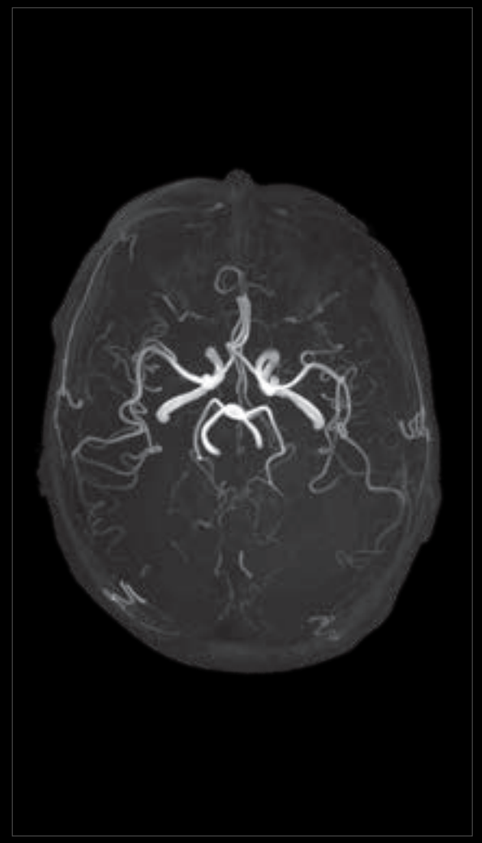


PDW MATRIX, uCS 5x, Voxel: 0.6x0.6x0.6mm³

PDW MATRIX FS, uCS 5x, Voxel: 0.6x0.6x0.6mm³

uCS Static Imaging

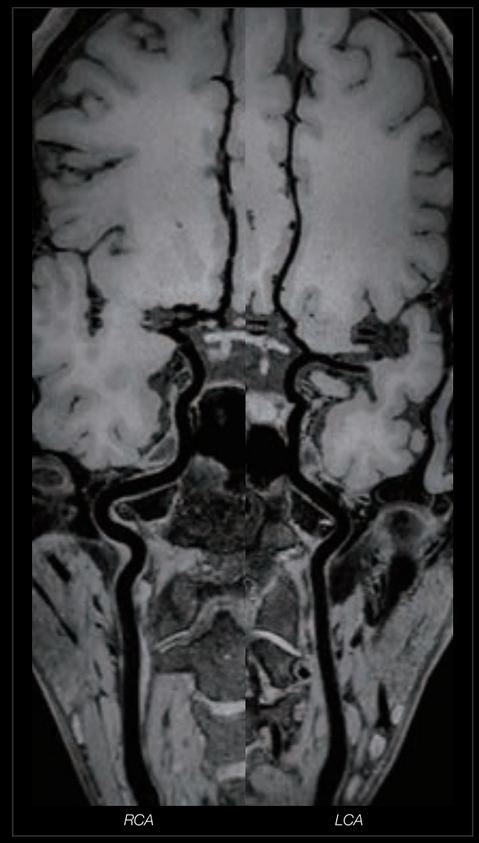
TOF



uCS 3.5x, Voxel: 0.4x0.5x0.5mm³

uCS Static Imaging

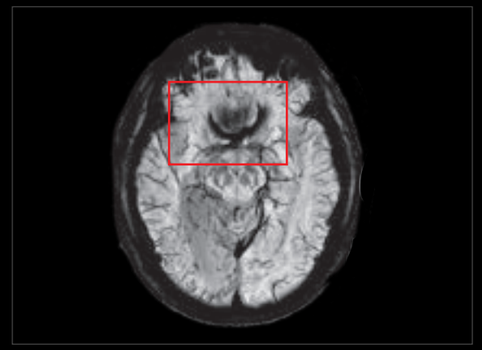
Vessel Wall Imaging with Whole-Brain Coverage



uCS 3x, Voxel: 0.5X0.5X0.5mm³

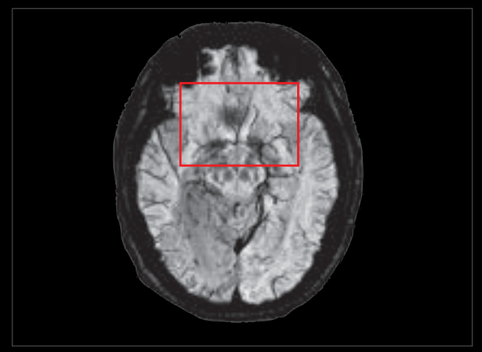
SWI+

With the all-phase flow compensated multi-echo sequence and optimized reconstruction technique, SWI+ has unique advantages in susceptibility artifact control, imaging stability and information diversity. It also supports virtual TE reconstruction for better display of tiny veins, calcification, bleeding in the brain and precise study of iron deposition.



Conventional SWI

Skull Base Susceptibility Artifacts

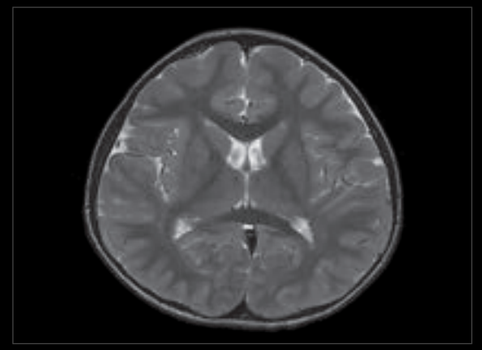


SWI+

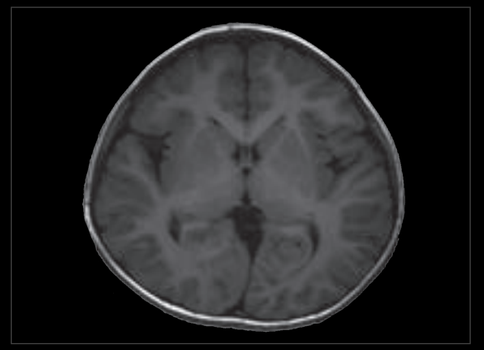
Artifacts Eliminated

Pediatrics

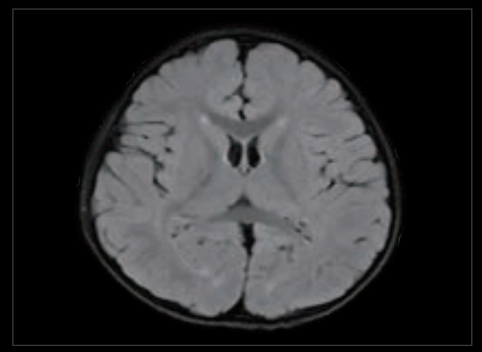
With high-density coil and versatile motion correction technologies, pediatric MRI achieves fast imaging and delivers superior image with high SNR.



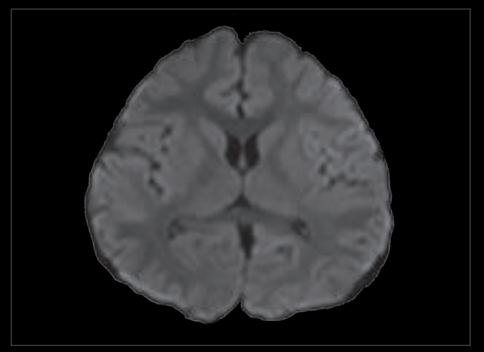
T2W, AD: 36s



T1W, AD: 44s



T2 FLAIR, AD: 56s

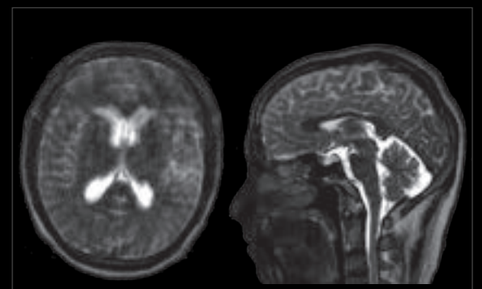


DWI, AD: 33s

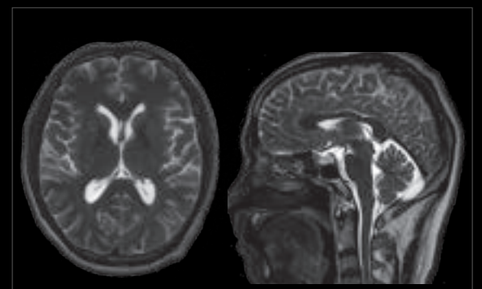
Motion Artifact Correction

The optimized sequence acquisition and reconstruction eliminates the motion artifacts in head, orbit, abdomen, pelvis, shoulders and many other parts caused by involuntary movements or physiological movements.

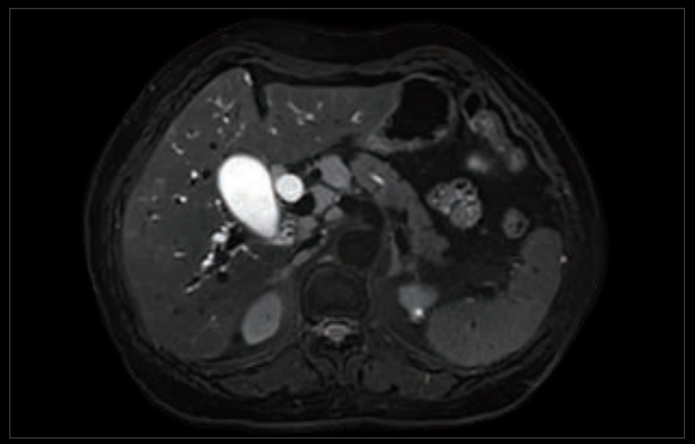
ARMS



FSE

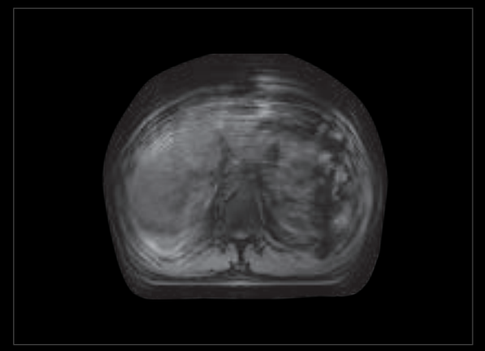


ARMS

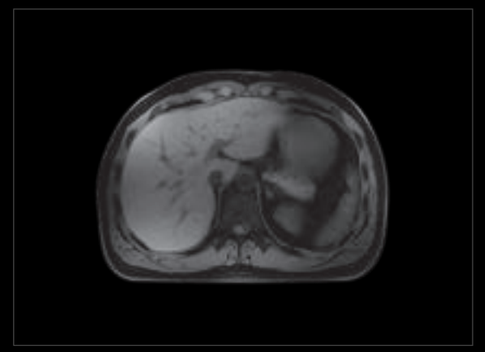


Breath-hold T2W ARMS FS

uFreeR



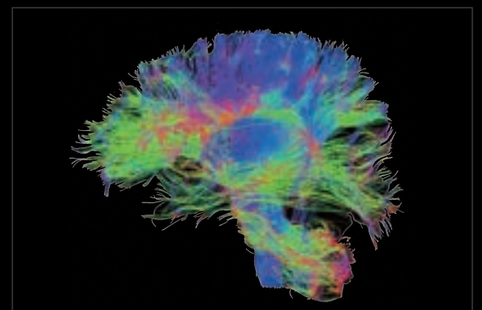
non-uFreeR



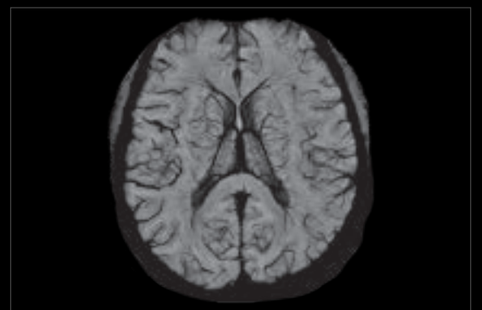
uFreeR

Neurology

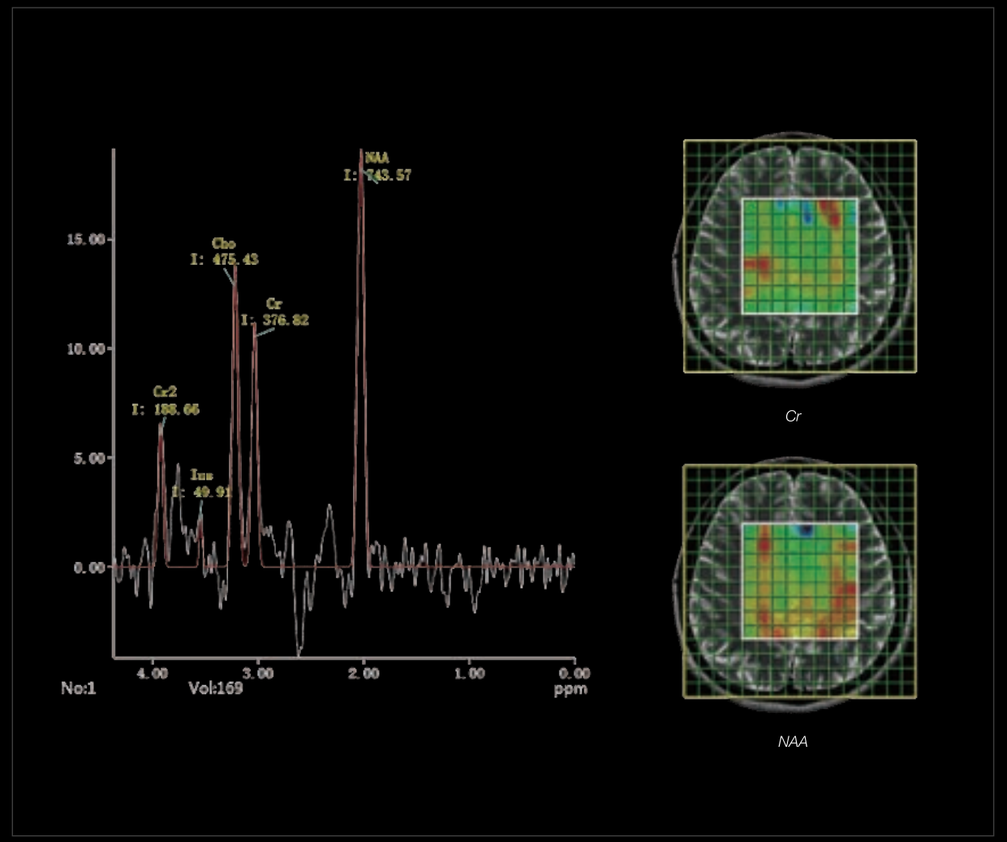
DTI



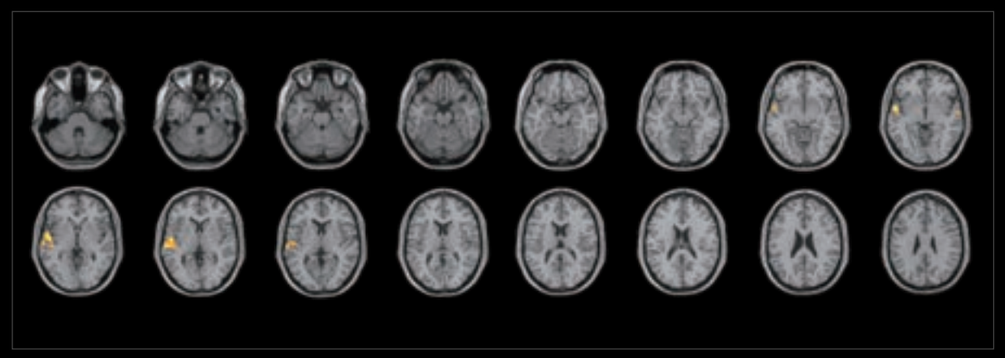
SWI



CSI

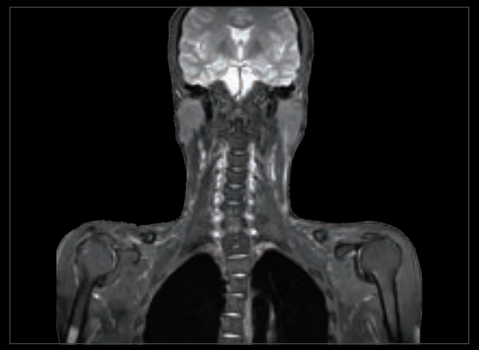


BOLD

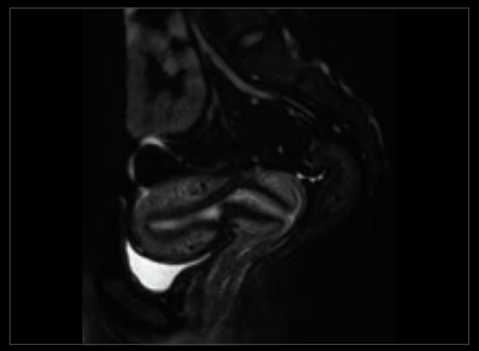


Body

Customized imaging sequences are developed to meet different imaging requirements like multi-contrast, large FOV and motion correction in different parts of body.



WFI (Water Fat Imaging)



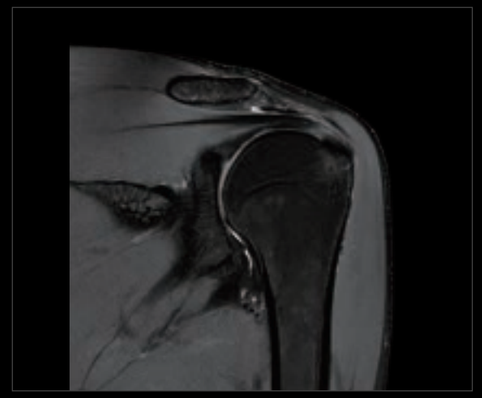
Pelvis Imaging with FS

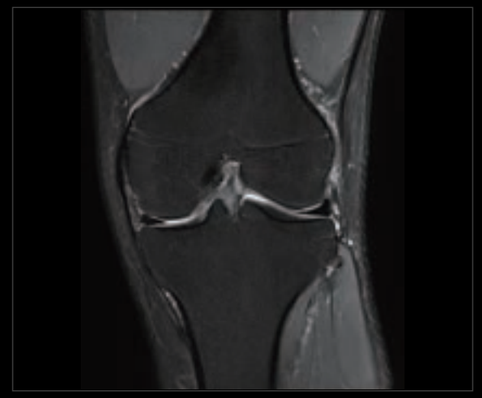
Large FOV with FS

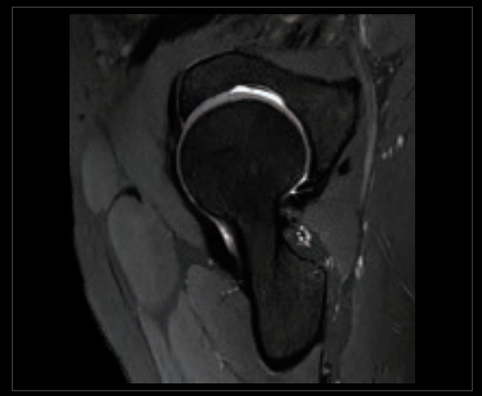
Orthopedics

High density extremity coils, which are designed by taking specific anatomical features into consideration, are capable to achieve high quality Musculoskeletal imaging.

Musculoskeletal Imaging with Fat Saturation

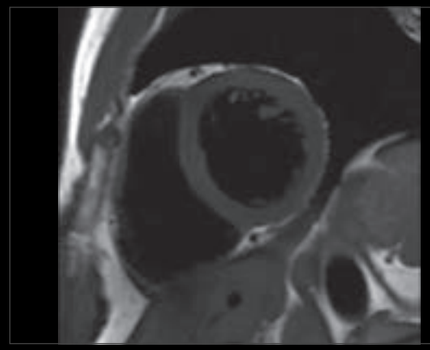




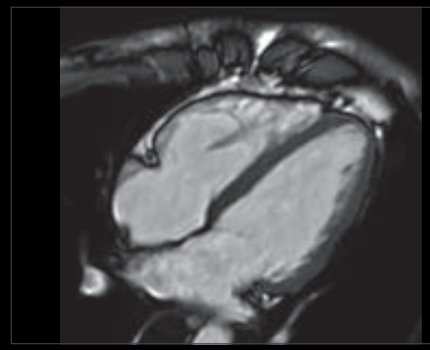


Cardiology

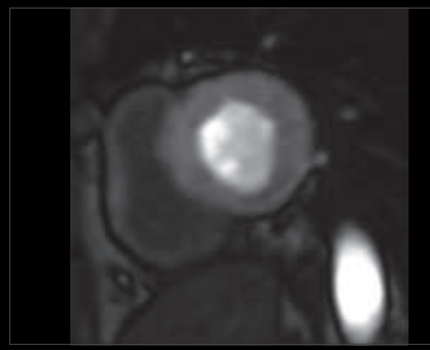
Comprehensive cardiac package consists of excellent scan acceleration and optimized k-space filling, is provided to address complicated cardiology cases.



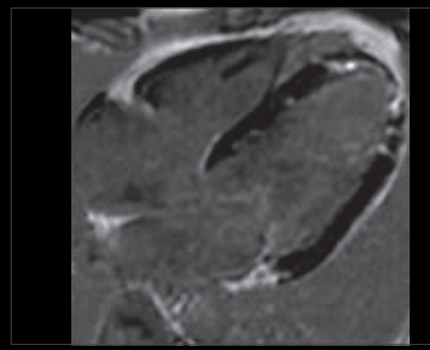
Dark Blood T1W



Bright Blood Cine



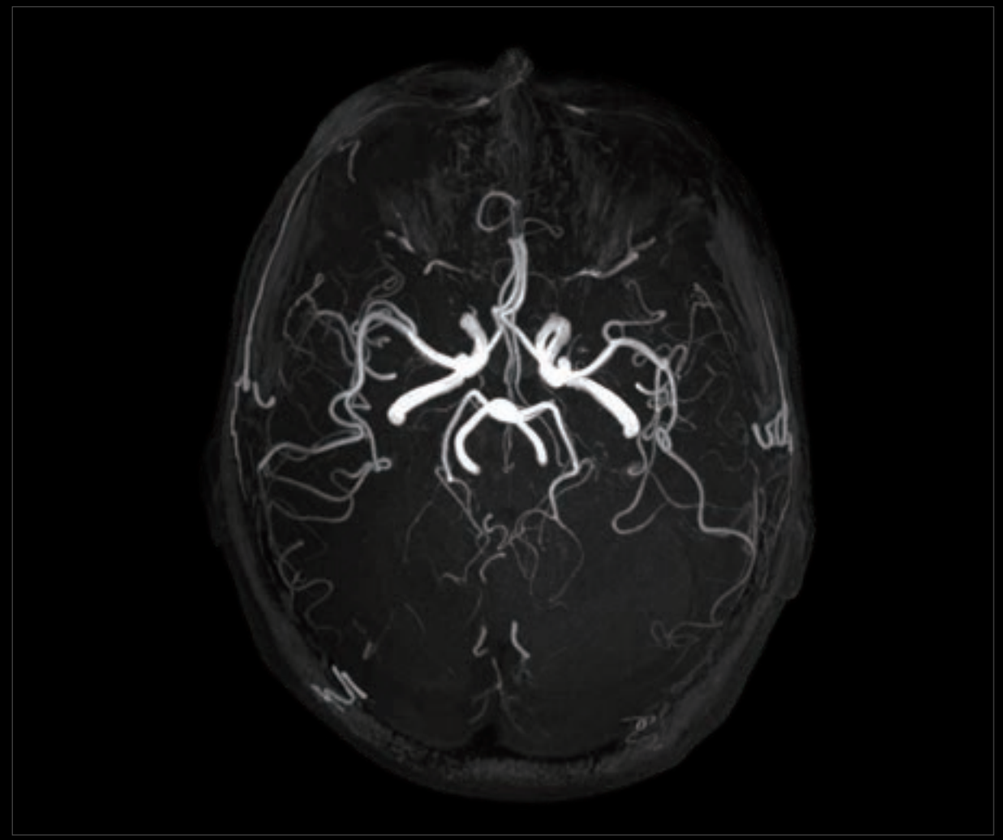
Myocardial Perfusion



Myocardial Viability

Angiography

Comprehensive angio application solution consisting Non-CE MRA, is provided to achieve vascular exams of various body parts.



TOF

Powerful SuperSystem

Powerful SuperSystem embeds the high-performance components to lay a solid foundation for rapid acquisition and high-resolution imaging.

High-performance Gradient

The gradient performance is designed with excellent performance to improve sequence acquisition, elevate data acquisition speed, and achieve faster imaging and higher work efficiency.

Industry-leading Uniform Magnet

Large 50cm FOV and excellent image quality achieved by 170cm short magnet.

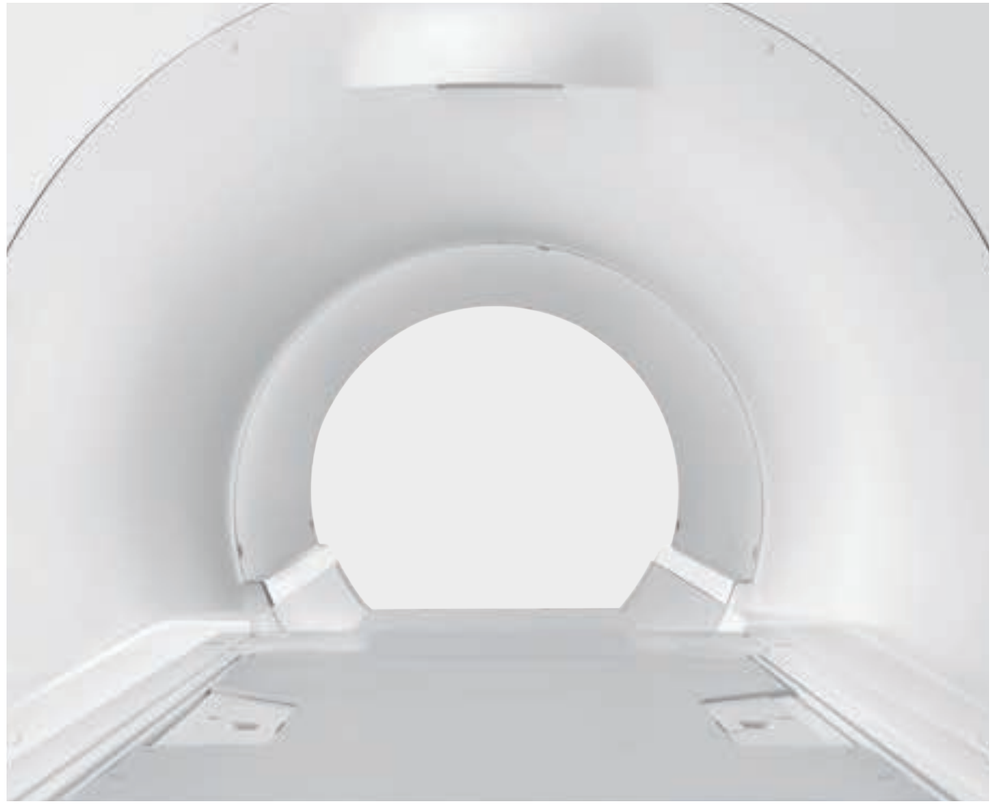
The powerful 3.0T magnet adopts an 170cm short magnet design to ensure the leading homogeneity of the magnetic field, bringing fast imaging and large-coverage fat saturation.

High-density RF Channels

The high channel-count RF receiver architecture enables the full use of high-density surface coil arrays, thus significantly increasing image Signal-to-Noise Ratio. Multiple high-density coils can be used in different combinations to reduce scan time and improve workflow efficiency. Each coil element utilizes an independent low-noise amplifier to reduce as much noise as possible while retaining MR signal to the maximum extent.

User in Mind Design.

Focusing on user experience, uMR 780 combines precise operation with a lightweight and artistic design. We bring aesthetic enjoyment and ease of use to the technology, delivering care, trust and respect through our design.



Pleasing Aesthetics

Our design scheme integrates oriental aesthetics with minimalism, presenting a seamless fusion of traditional and modern styling.

User-Friendly Design

The product design delivers comfort, safety, efficiency and ease-of-use. By applying ergonomic principles the uMR 780 combines innovative design with optimal functionality in order to provide the best possible user experience, optimizing patient comfort during the examination.

Sophisticated Craftsmanship

Driven by the tenets of design, we fine-tune every technological detail to embody the spirit of craftsmanship in every product.