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# APERTO Lucent

High Performance Mid-Field Open MRI



Comfort, Value, Advanced Capabilities

# APERTO Lucent

Space-saving and affordable MRI delivering high-performance, reliability, excellent image quality and the unique open MRI patient experience.

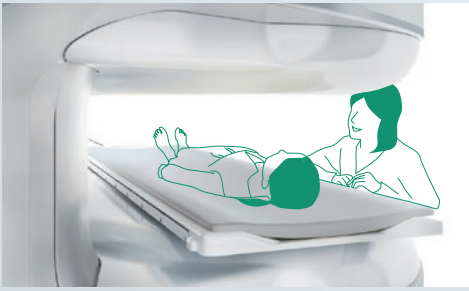
Cutting-edge imaging technologies and uncomplicated workflow accommodate increasing patient volumes and a wide range of applications.

The streamlined design includes a wide lateral-shift floating table for comfortable and precise positioning to speed and ease technologist workflow.

## At a Glance

- Space- and cost- saving design
- Open MRI versatility and comfort
- IP-Recon innovative de-noising reconstruction
- RADAR™ radial scan mitigates motion artifact to minimize rescans
- RF FatSat enabled by 0.4T field strength and multi-channel shimming
- VASC-ASL non-contrast 3D blood flow visualization
- High sensitivity solenoid coils contribute to amazing image quality





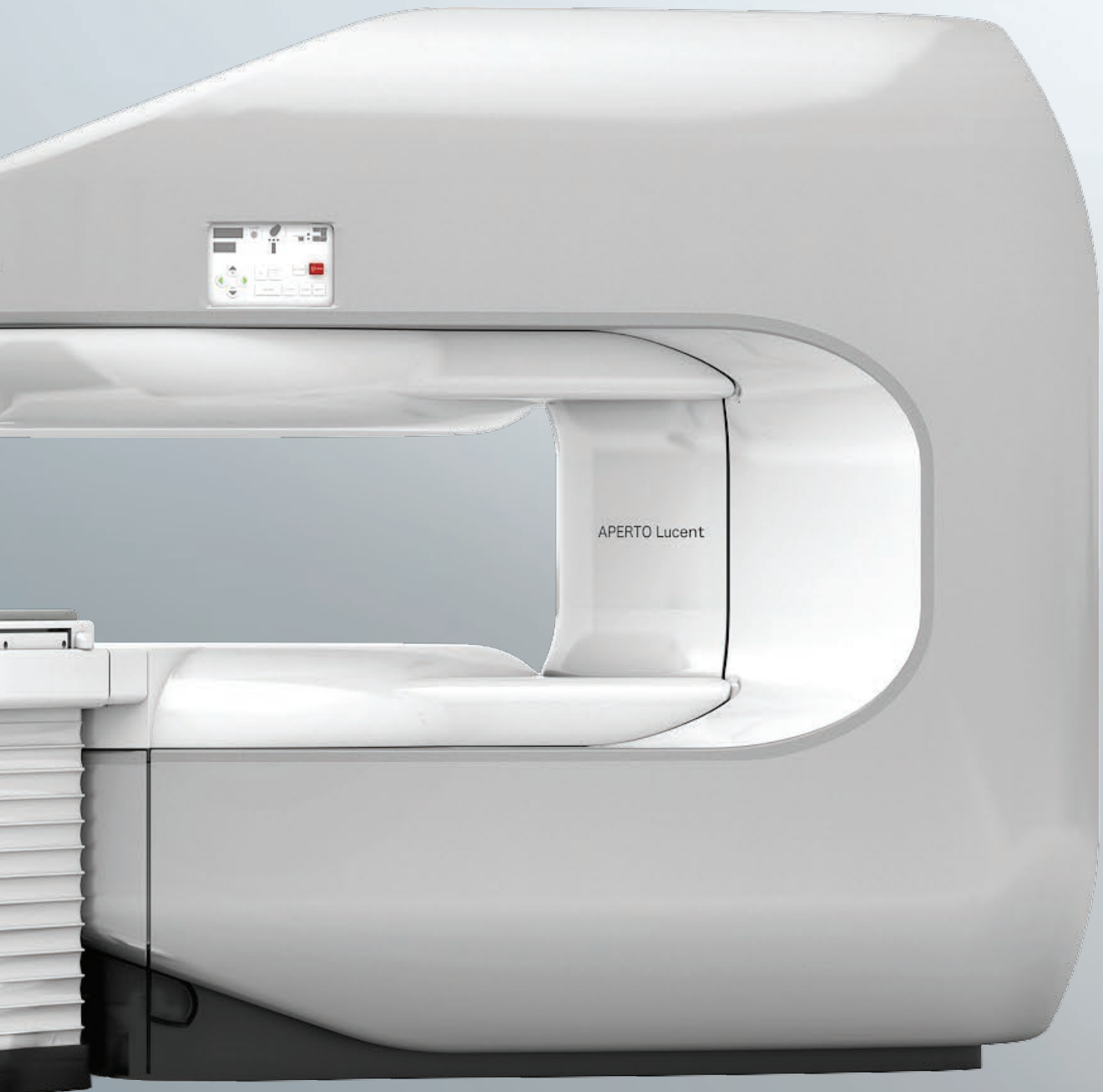
Patient comforting open view with easy technologist and patient partner access



Exclusive wide lateral shift table allows fast, easy isocenter positioning and up to 500 lbs. patient capacity



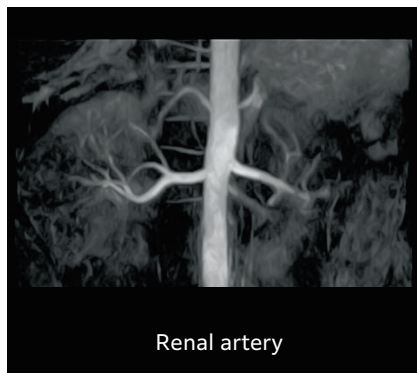
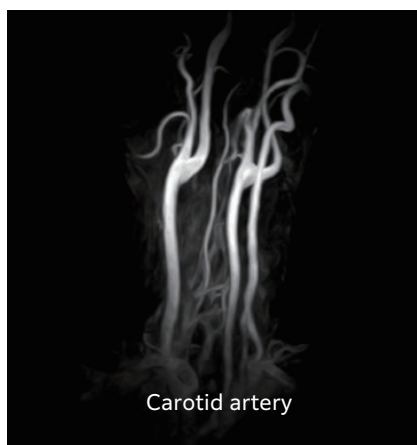
Floating table lowers to 20" for easy patient transitions



# Innovative technologies to promote image quality and capabilities

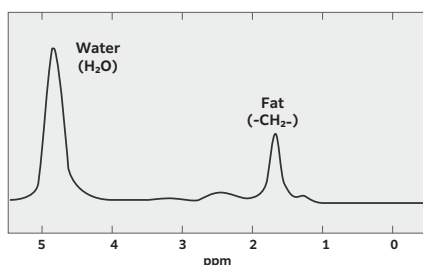
## VASC-ASL

Fujifilm's non-contrast MR angiography technique utilizes 3D BASG (balanced SARGE) to visualize blood flow with IR pulses. This results in sharper images of carotid artery, portal veins, renal arteries, and upper and lower extremity arteries.



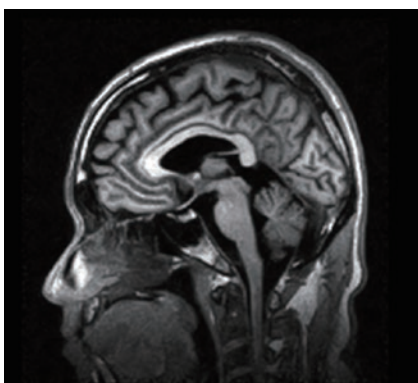
## RF FatSat and multi-channel shimming

Enhances image contrast, selectively suppressing fat signals. Patient multi-channel shimming combines with 0.4T field strength to deliver fat suppression for MSK and Neuro imaging applications. RF FatSat complements Aperto's Dixon type FatSep and IR based fat suppression approaches.



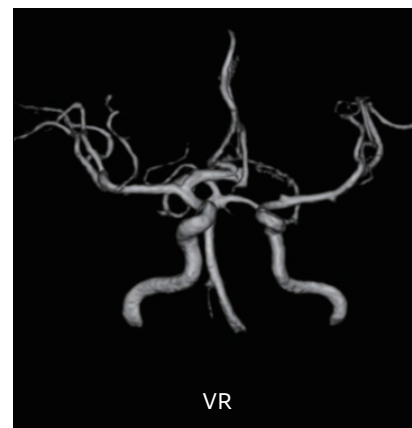
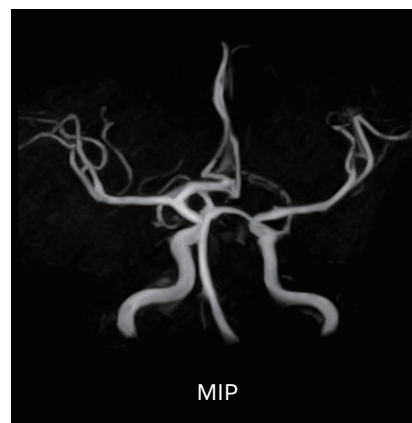
## 3DGEIR (option)

Enables collection of isotropic high contrast, high spatial resolution T1 weighted images. Excellent for neuro applications requiring volume imaging.



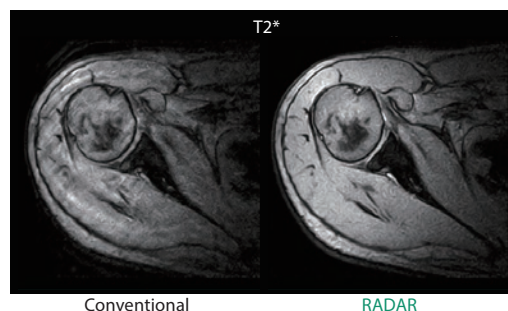
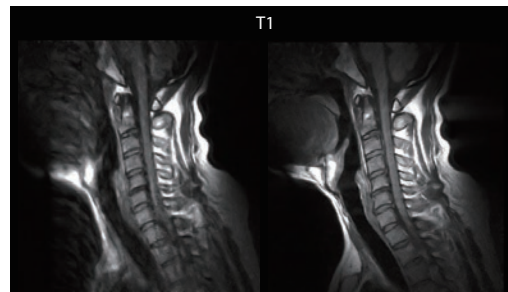
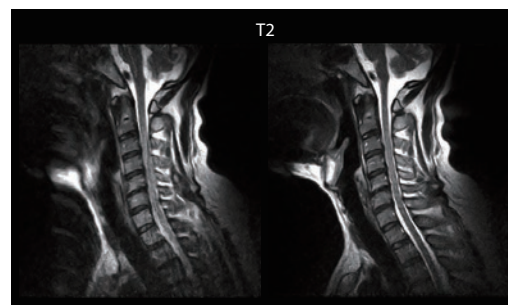
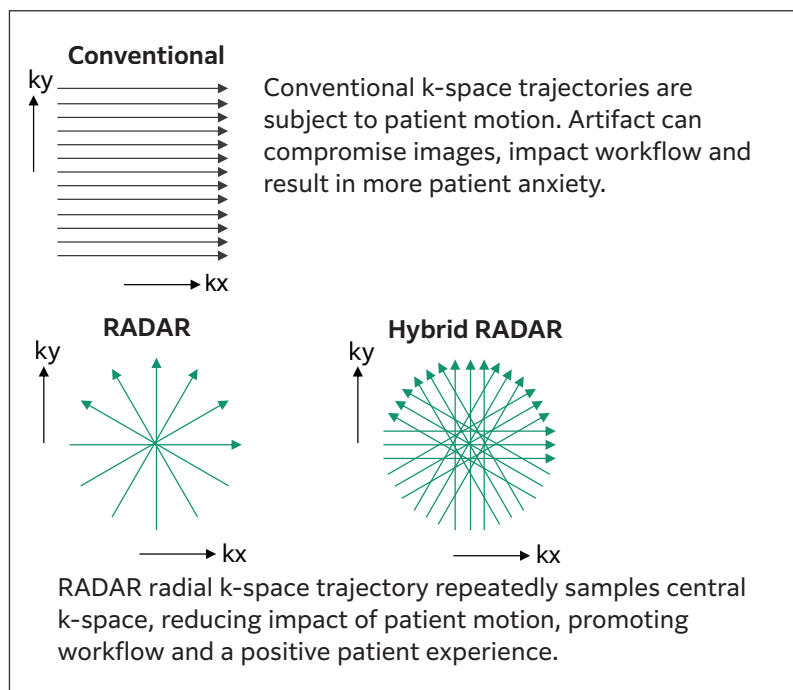
## Volume Rendering (VR) Function Advanced Blood Flow Visualization

VR reconstruction techniques are generated at the console to enable 3D visualization of blood flow with high-resolution models and highlighted flow patterns. VR aids in diagnosis of vascular diseases in areas with complex vascular structures such as the head.



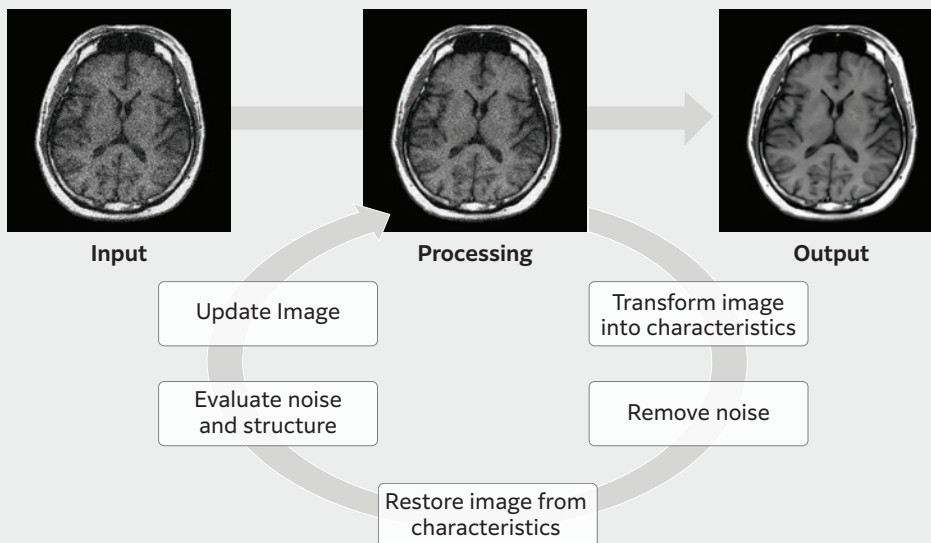
# RADAR

While conventional data collection methods are subject to patient motion, the RADAR radial k-space collection approach mitigates artifacts from patient movement. Broadly applicable to various contrasts, anatomies and coils, RADAR promotes workflow and a positive patient experience.



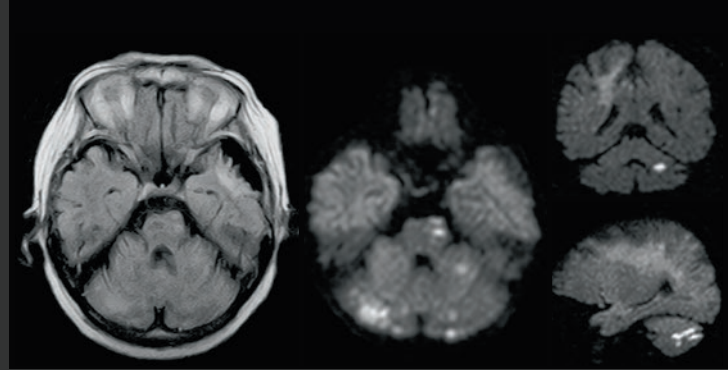
## IP-Recon

Iterative reconstruction boosts SNR, driving clinical flexibility and excellent spatial resolution across neuro, vascular and orthopedic applications.



# Clinical Image Gallery

[Atherosclerotic cerebral infarction]



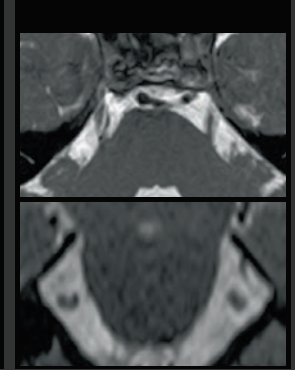
FLAIR                      DWI                      DWI COR/SAG

[Basilar aneurysm]



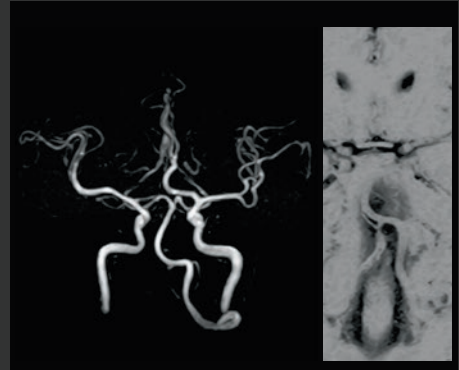
3D TOF MRA  
MIP image

[Trigeminal neuralgia susp.]



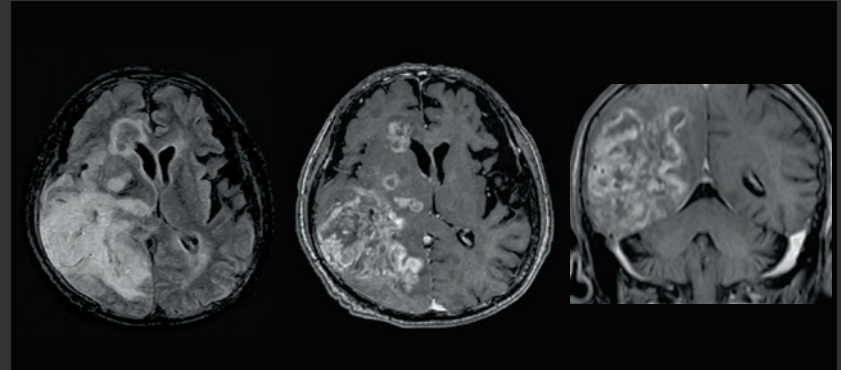
3DBASG  
(Below) MPR image

[Vertebral artery dissection susp.]



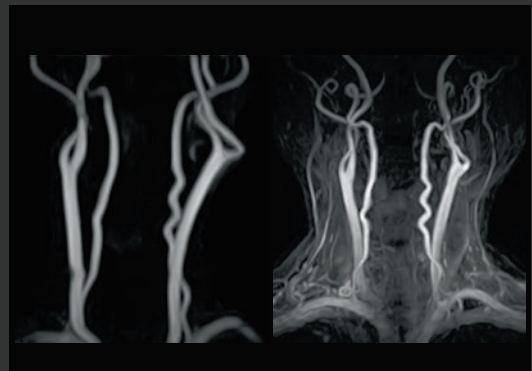
3D TOF MRA  
MIP image                      BPAS  
MPR image

[Glioblastoma]



WAIR                      3DRSSG+CE                      3DRSSG+CE  
MPR image

[Vertigo]



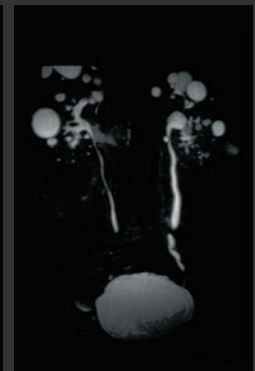
2D TOF  
MIP image                      3D VASC-ASL  
MIP image

[Renal artery/Portal vein MRA]



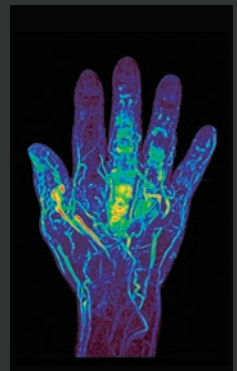
3D VASC-ASL  
MIP image

[Hydronephrosis]



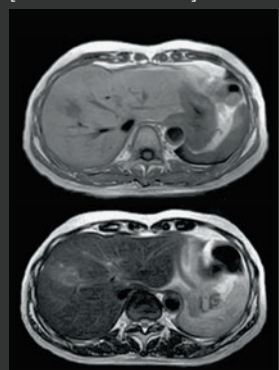
3D-Urography  
Resp Gate MIP image

[Rheumatoid arthritis]



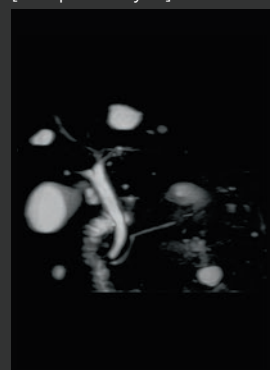
3D FatSep T1WI+CE  
Subtraction MIP image

[Metastatic liver tumor]



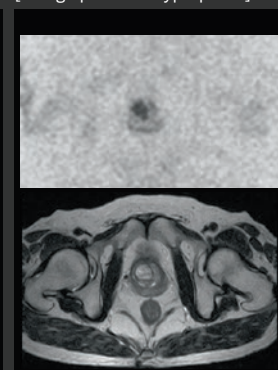
(Above) T1  
(Below) T2

[Multiple liver cysts]



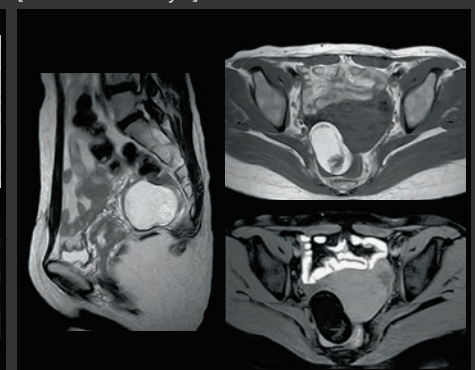
3D-MRCP  
Resp Gate MIP image

[Benign prostatic hyperplasia]



(Above) DWI  
(Below) T2

[Ovarian dermoid cyst]



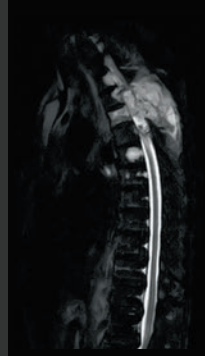
T2                      (Above) T1  
(Below) FatSep T1

[Cervical spine tumor susp.]



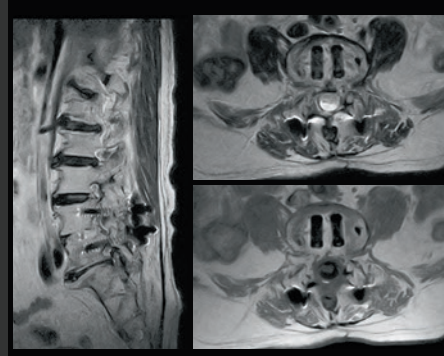
DWI T2 T1

[Spinal cord tumor]



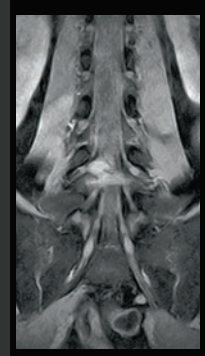
FatSep T2

[Postoperative lumbar spondylolisthesis]



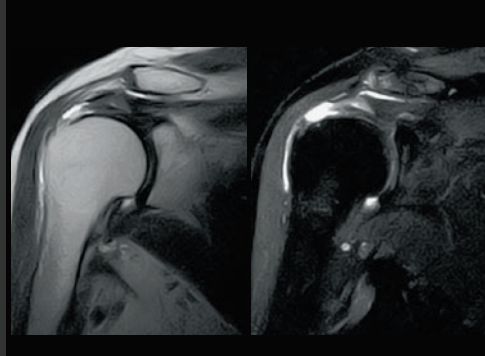
T2 (Above) T2 (Below) T1

[Disk herniation]



FatSep Myelo CPR image

[Rotator cuff injury]



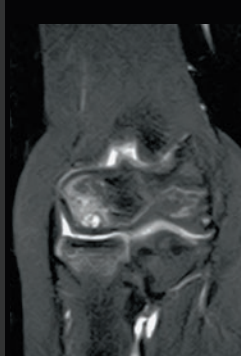
RADAR T2 RADAR FatSat T2

[AIGHL rupture]



T2 ABER position

[Osteochondritis dissecans]



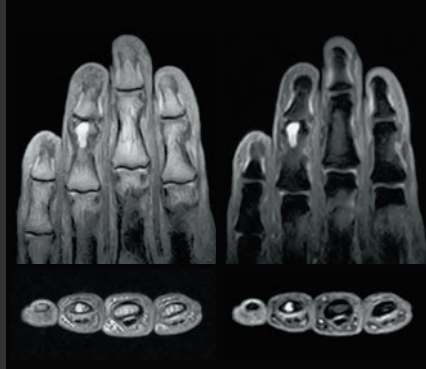
FatSep T2

[TFCC damage]



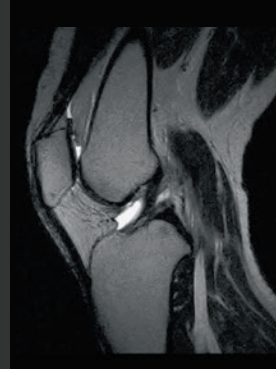
T2\*

[Giant bone cell tumor]



T2\* FatSep T2\*

[ACL]



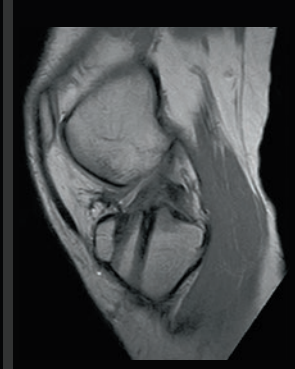
T2

[Inner meniscus damage]



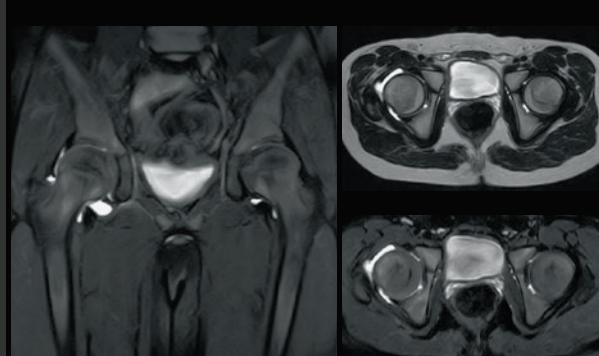
T2\*

[After ACL rupture]



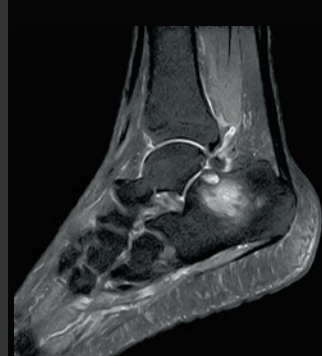
PDWI MPR image

[rt. Hip arthroplasty/Pediatrics]



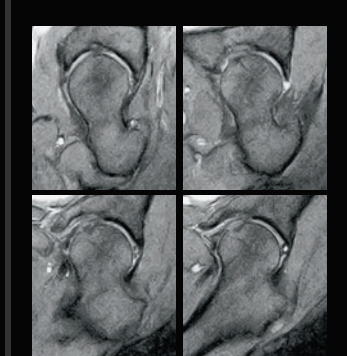
FatSep T2 (Above) T2 (Below) FatSep T2

[Osteomyelitis (Cellulitis susp.)]



FatSat PDWI

[Giant bone cell tumor]



T2\* Radial stack

# High performance permanent magnet technology



Easy siting design maximizes space utilization while ensuring patient comfort and accessibility

0.4T Field Strength

Permanent, self-shielded magnet

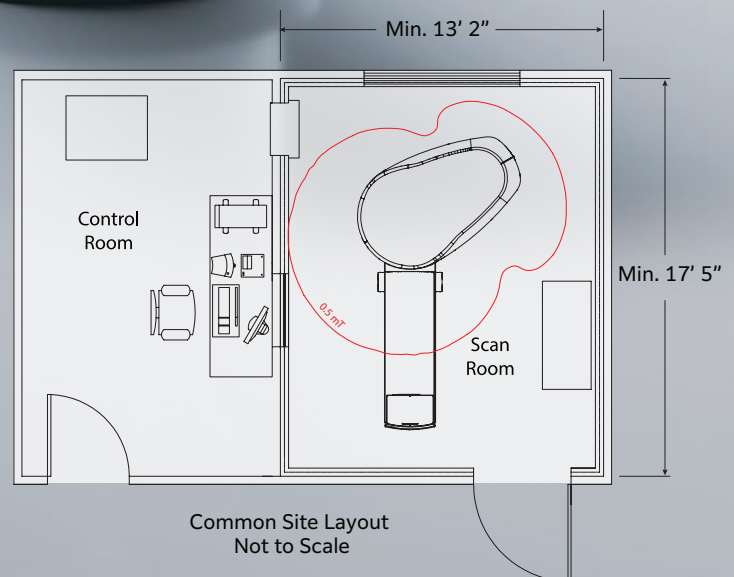
Active multi-channel shimming

Single Phase 208 VAC 9.5 kVA power

Gantry weight 14,800 kg (32,628 lbs)

No helium

Minimal room dimensions





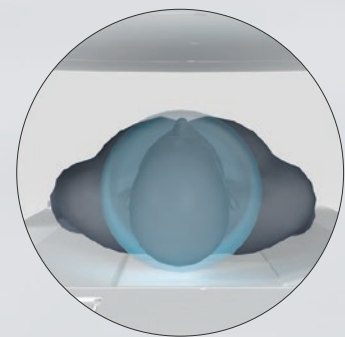
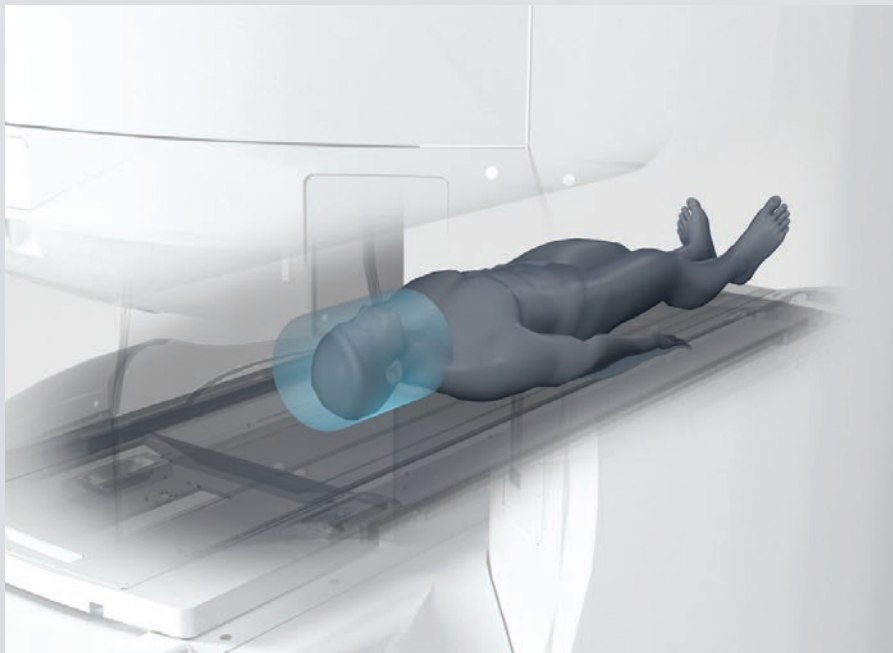
# High sensitivity solenoid coils

Specialized solenoid coils' high efficiency deliver excellent resolution in small field of view applications. These small diameter coils are tailored to fit the body and more precisely target the region of interest to the center of the coil where sensitivity is highest.



## Vertical Field

Volume coils enclose the scanned anatomy to maximize signal capture and uniformity throughout the imaging volume.



Cross section view of vertical field

Sensitivity

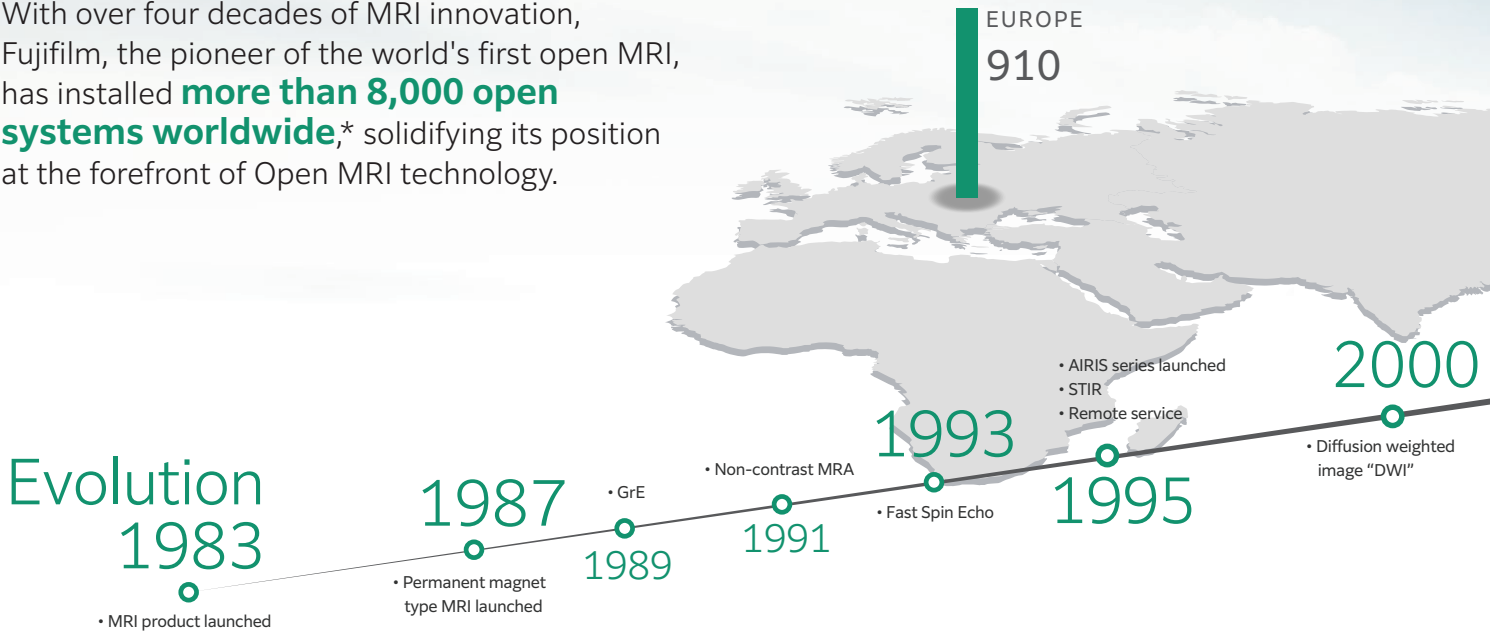
High Low



# Experience you can trust

## Why choose Fujifilm Open MRI

With over four decades of MRI innovation, Fujifilm, the pioneer of the world's first open MRI, has installed **more than 8,000 open systems worldwide**,\* solidifying its position at the forefront of Open MRI technology.



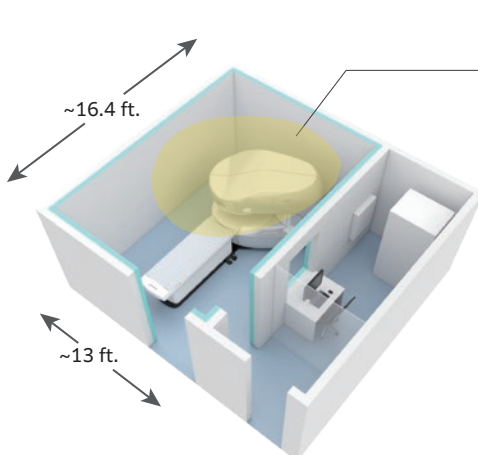
## Cost-saving and efficient

APERTO Lucent's permanent magnet design has fewer components, requires less complex infrastructure, setup, space and power requirements, helping to keep initial and long term operational costs low.

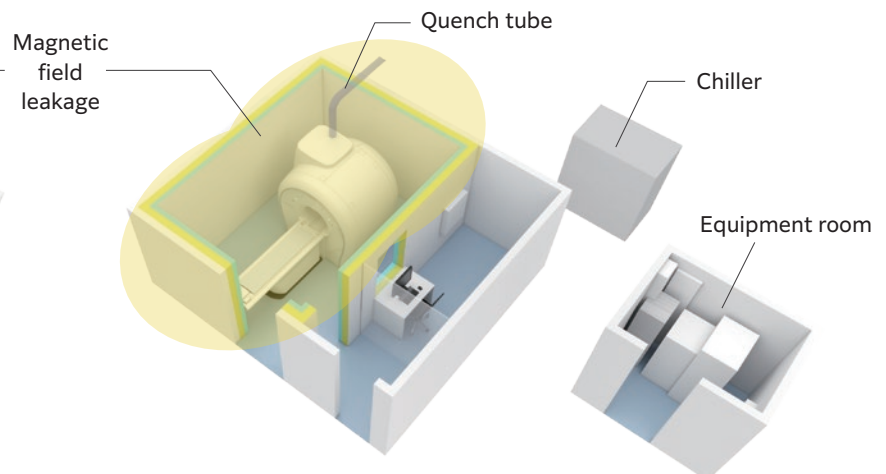
System	Equipment room	Chiller cooling system	Quench tube Intake and exhausted system	Power consumption (cooling system)	Maintenance
Superconductive MRI system	Necessary	Necessary	Necessary	High cost	High cost
APERTO Lucent	Unnecessary*	Unnecessary	Unnecessary	Unnecessary	Low cost

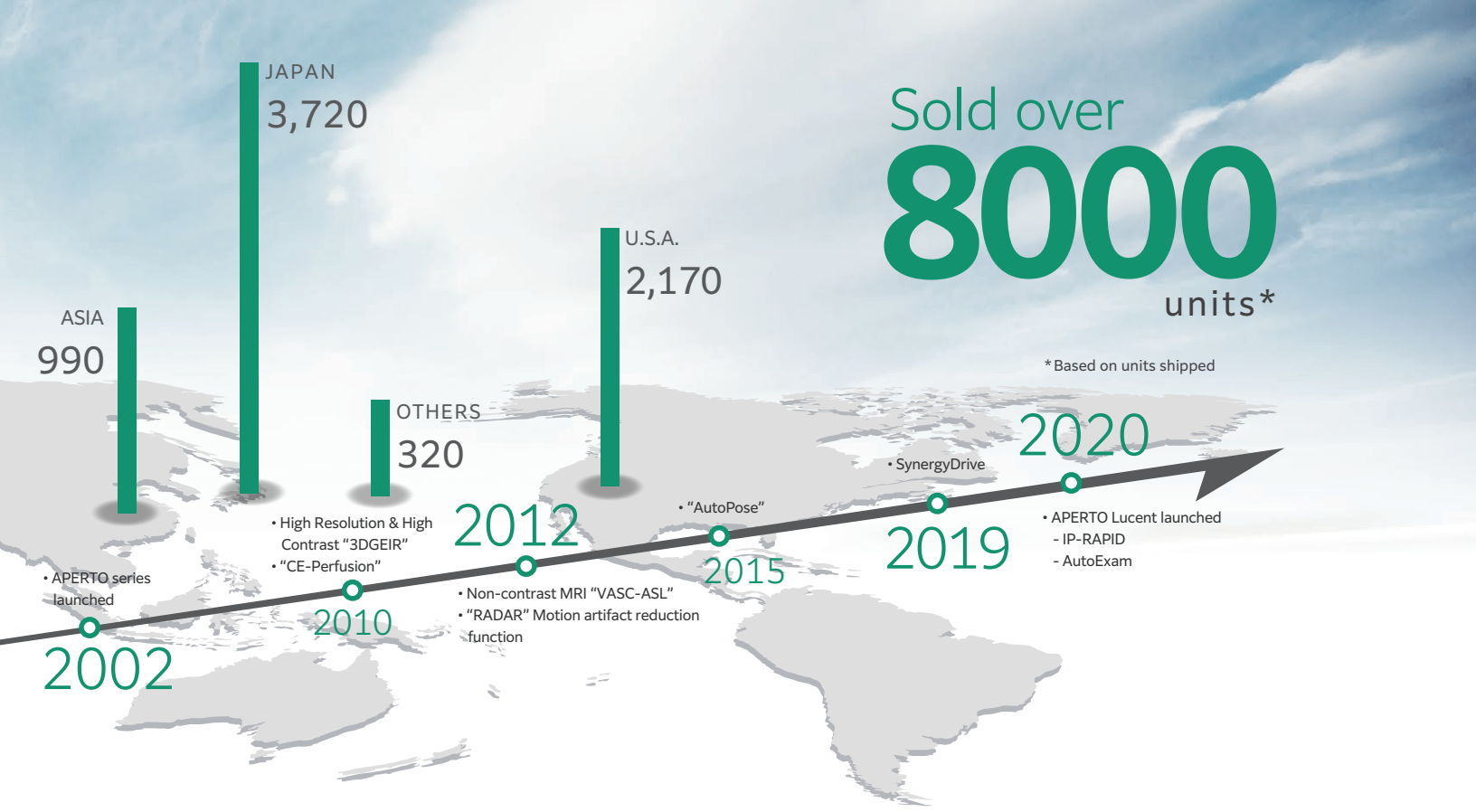
\*Depends on the environment and the room layout.

### APERTO Lucent



### Supercon MRI Systems





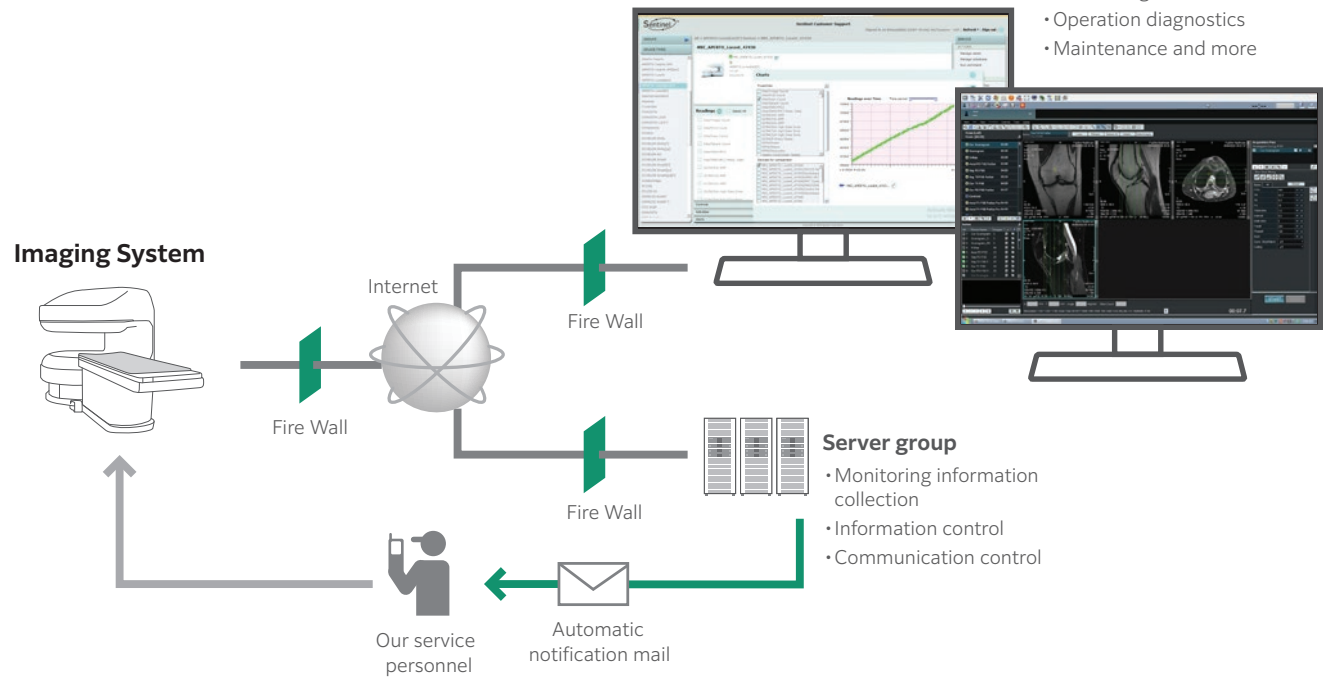
# Excellent reliable and support

## Sentinel Remote Monitoring

Fujifilm reliability and professional services combined with remote monitoring ensures your system is kept running smoothly and efficiently around the clock.

### Sentinel browser

- Monitoring information check
- Operation diagnostics
- Maintenance and more



### Server group

- Monitoring information collection
- Information control
- Communication control



Fujifilm is driven by our legacy of pioneering diagnostic imaging technologies and our commitment to bringing future imaging innovations. Most importantly, we are dedicated to helping you deliver the highest quality patient care.

We meet your real needs with real solutions. We help you deliver better outcomes – financial, operational, and clinical – through exceptional image quality, increased patient safety, enhanced workflow, reliability, and improved return on investment.

**This is true “value from innovation”  
and what we offer every day.**