

Imaging The Future

alltech
Medical Systems



ECHOSTAR
1.5T MRI

powered by
16-channel Orion RF

ECHOSTAR 1.5T

powered by

16-channel Orion RF

Imaging The Future

High-performance

The 16-Channel Orion RF system

Large 50cm FOV

High-efficiency

Phased array coil integrated imaging

High density matrix

High-stability

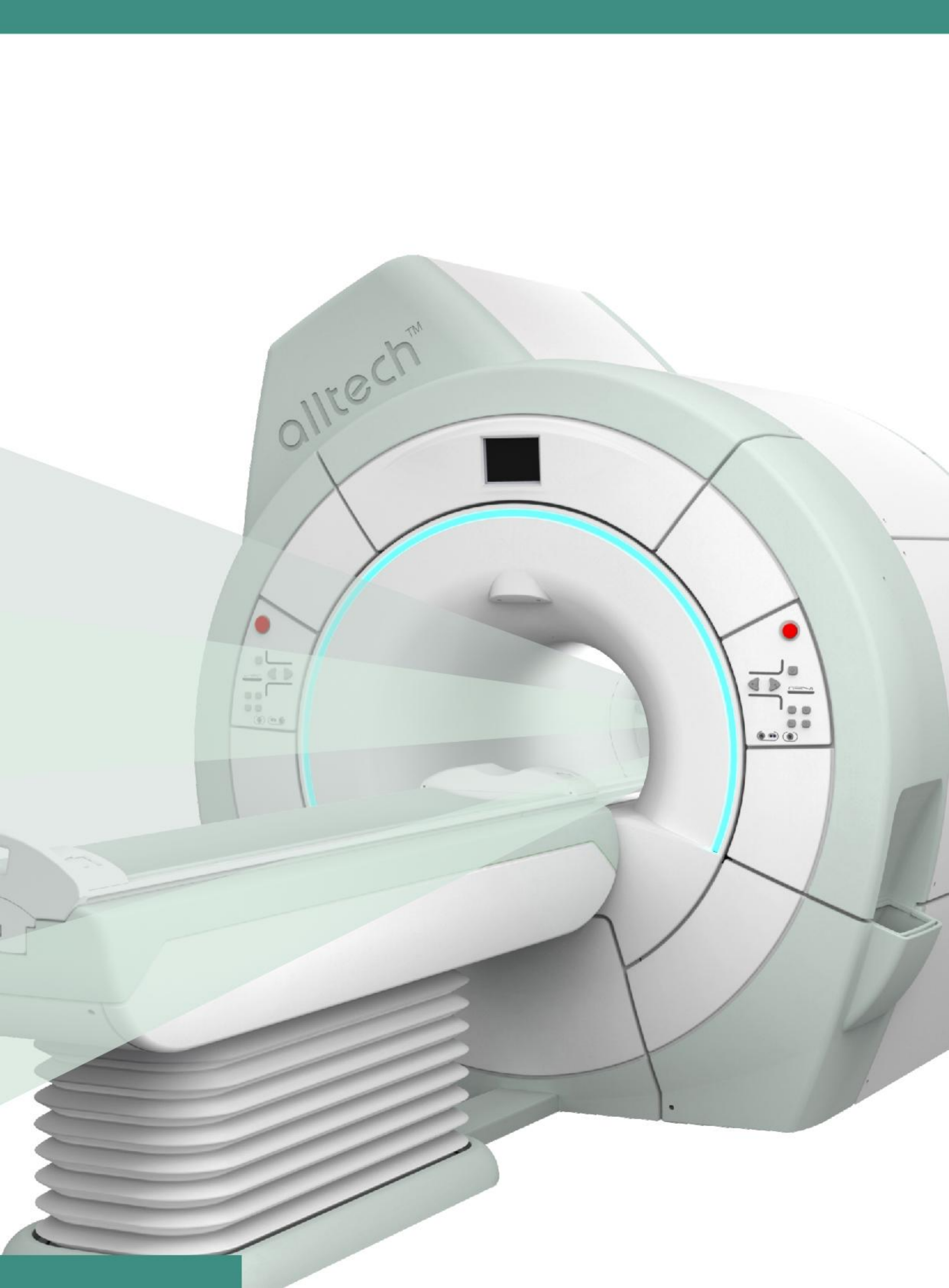
Large diameter magnet design

Superior gradient cooling efficiency

Affordability

Low power consumption

Excellent after-sales Service



powered by

16-channel Orion RF

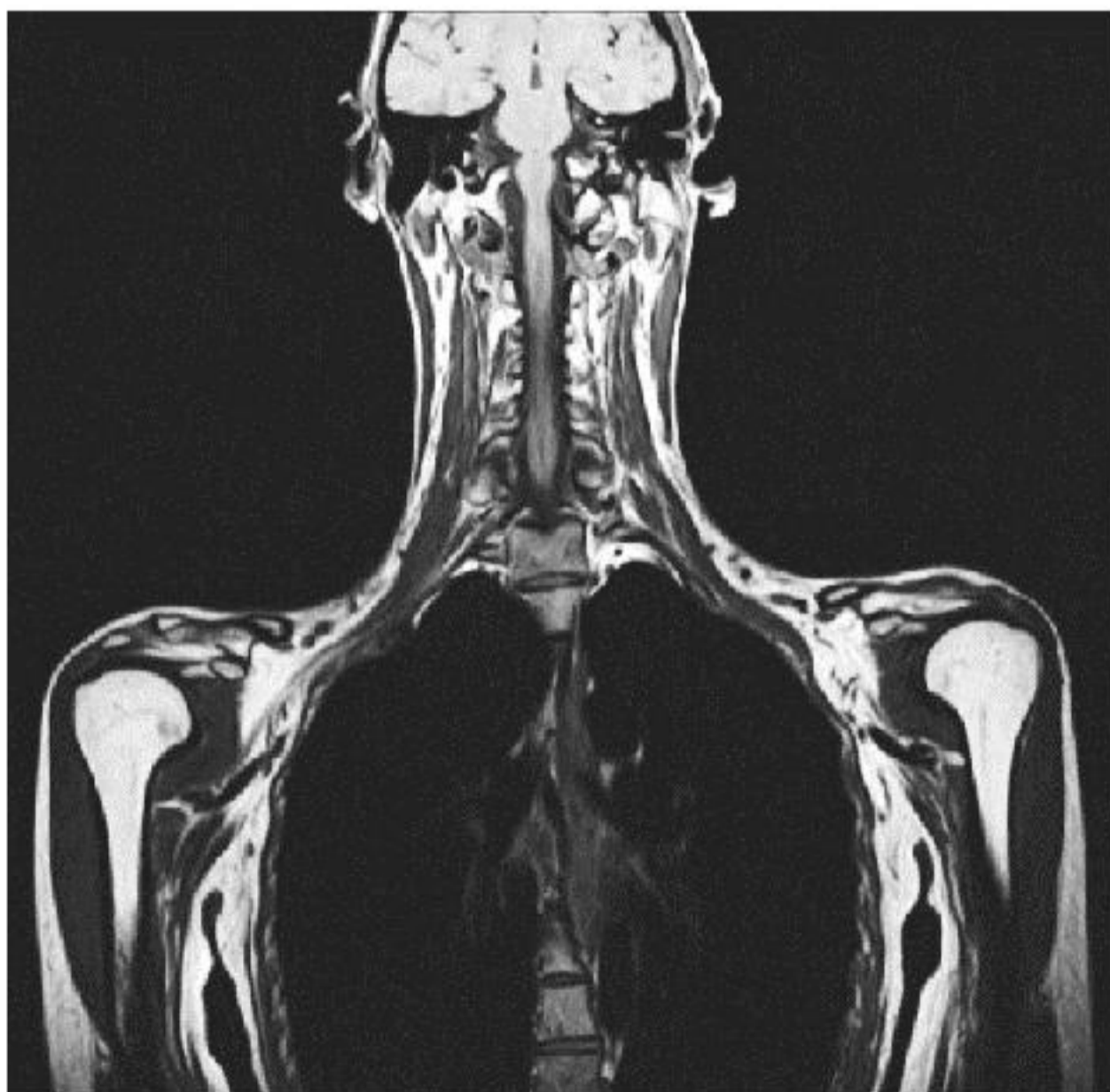
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Orion RF System Integrated Imaging + Target Coil

Providing excellent SNR & image quality without changing coils

EchoStar 1.5T features an advanced 16-channel RF system, inventively combining array coil integration and a high-density matrix design. The Orion RF system supports whole-body imaging without requiring any change in coils, while demonstrating some of the most optimal time and spatial resolution available in the industry.

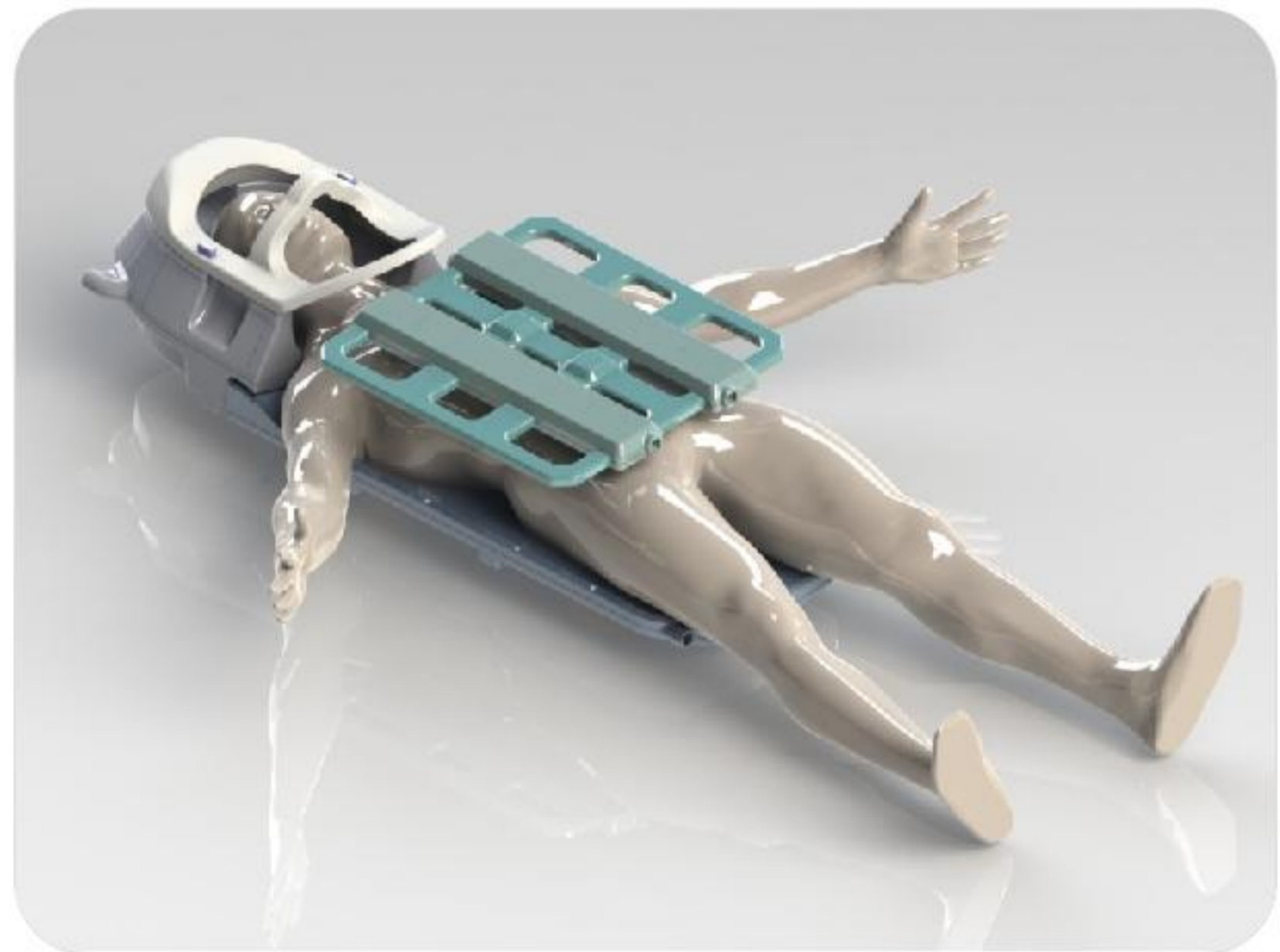
- 16 independent RF channels
- Powerful multi-core reconstruction module

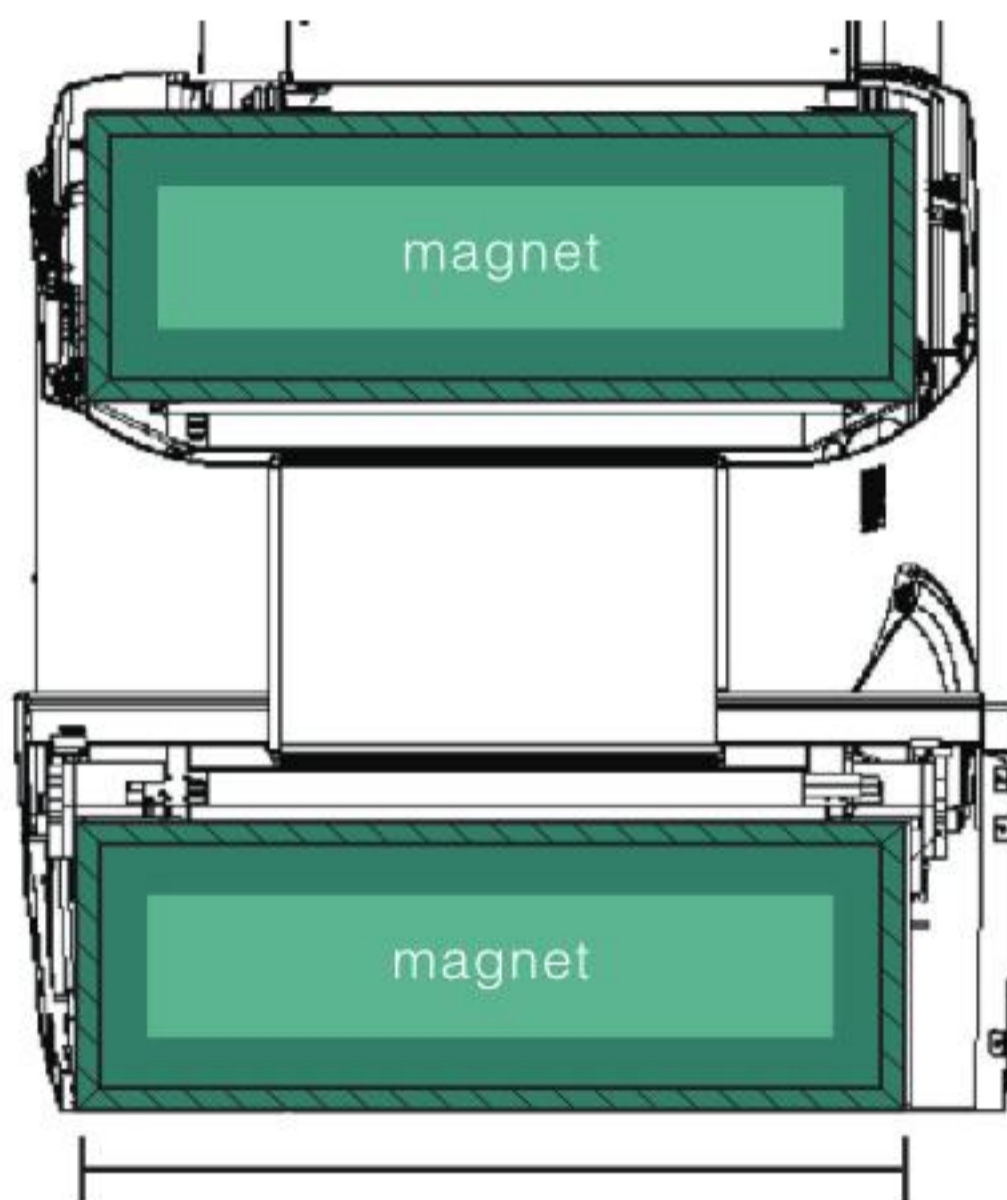


The 16-channel Orion RF system provides high-signal 50-cm FOV coverage

Orion

Multiple Phased Array coils can be used simultaneously for integrated scanning without changing coils for highly efficient examination.



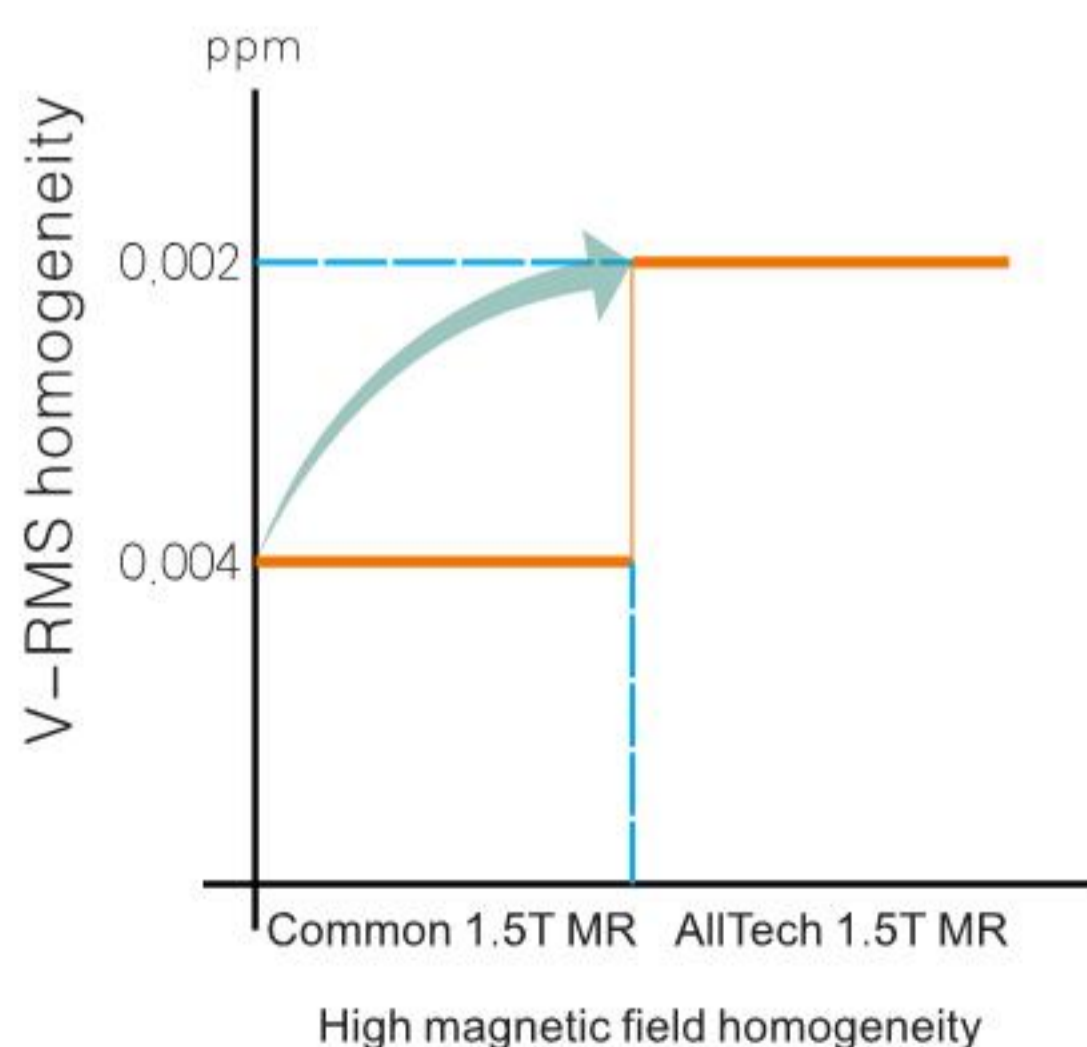


Ultra-High Uniformity Magnet

Our magnets boast a superior scanning scope, featuring:

- **The industry best FOV: 50 cm in 3 directions**
- **the highest degree of homogeneity: 10 cm DSV < 0.002 ppm**

The combination of large imaging volume and Orion RF system optimizes the visualization region.



Highest uniformity contributes to image quality. Industry best!

EchoStar 1.5T magnetic resonance imaging system is independently developed by AllTech Medical Systems. Its ultra high uniformity magnet provides full 50cm DSV imaging volume and ultra fast dynamic shimming.

Patient Care

Improved comfort

The ergonomic industrial design provides low operating noise and a comfortable patient environment.

Accommodate patients up to 200kg

AllTech proprietary SNDB noise reduction system reduces noise by up to 18%



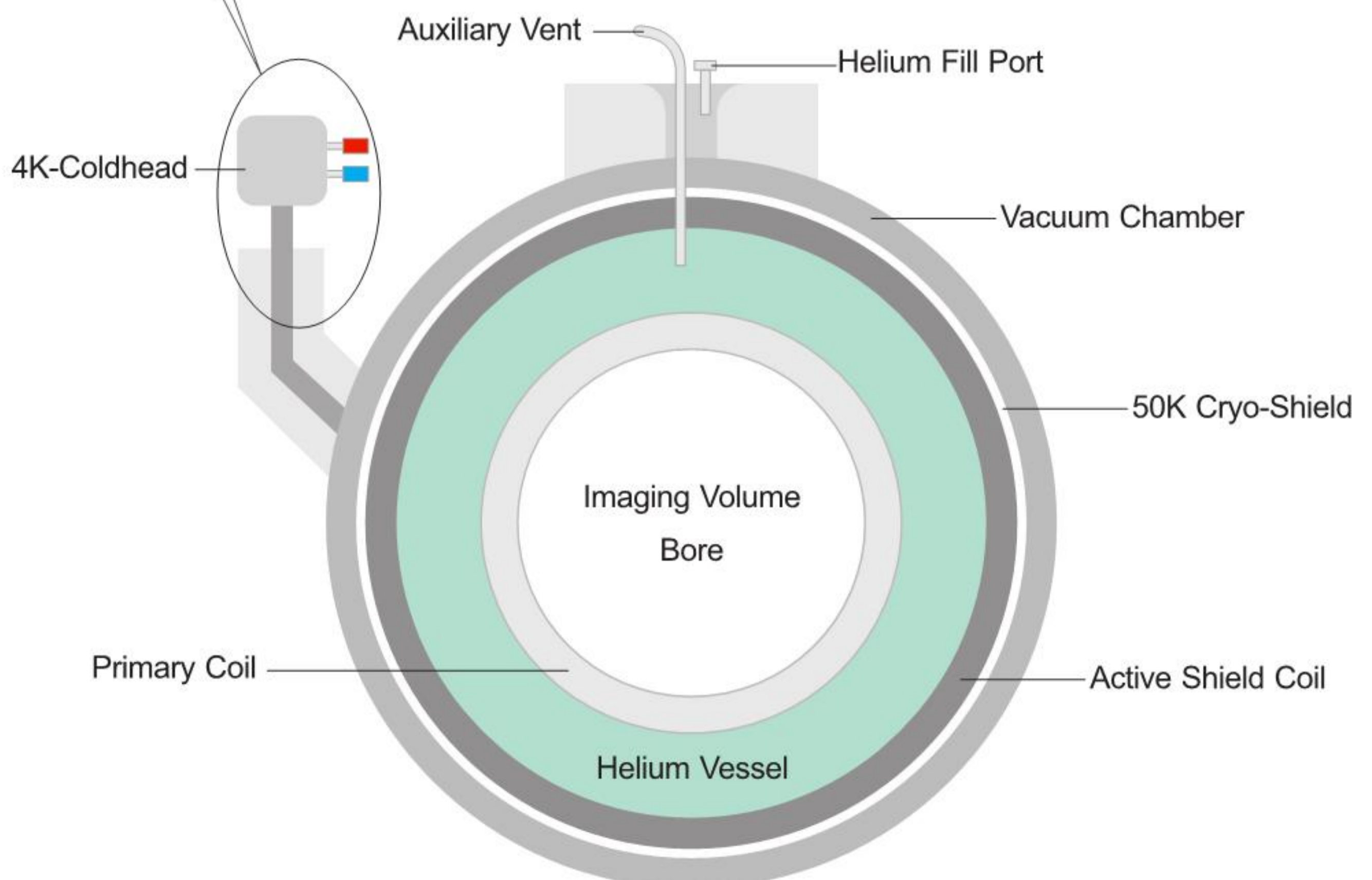
Zero boil off

Increased service life & reduced operators' costs
Highly tolerant to unscheduled site power failures



Helium boil-off rate: <math><0.01</math> liter per hour

Helium refill period: >10 years

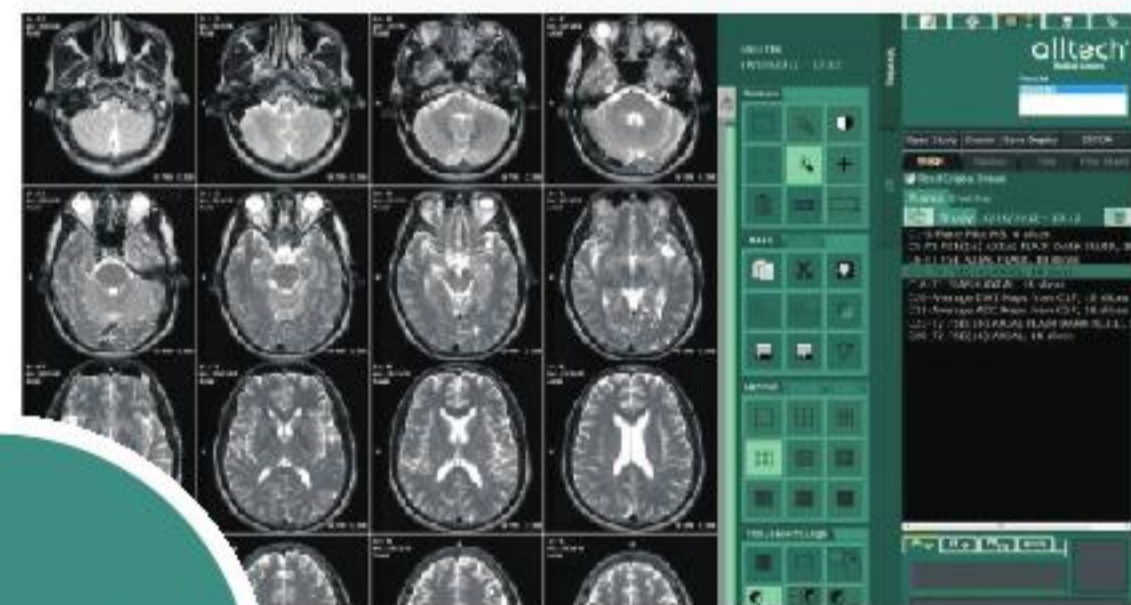


ALRESS Operating System

One button for scanning plan set-up.

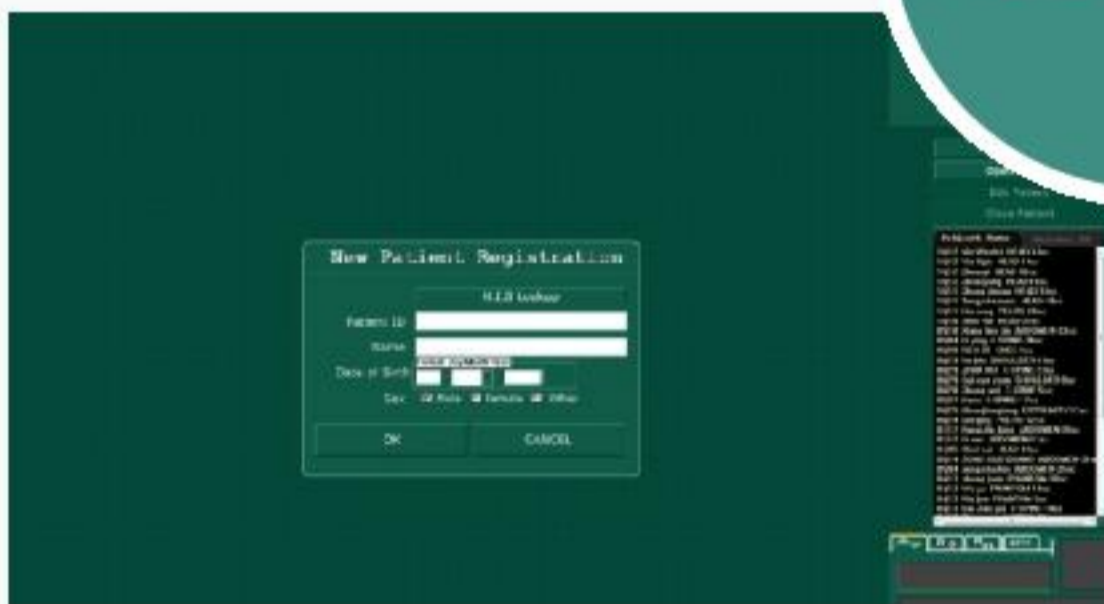


Start-up to be ready for scanning: the quickest in the industry!



ALRESS

Fast complete scan, minimise the processing and waiting time.

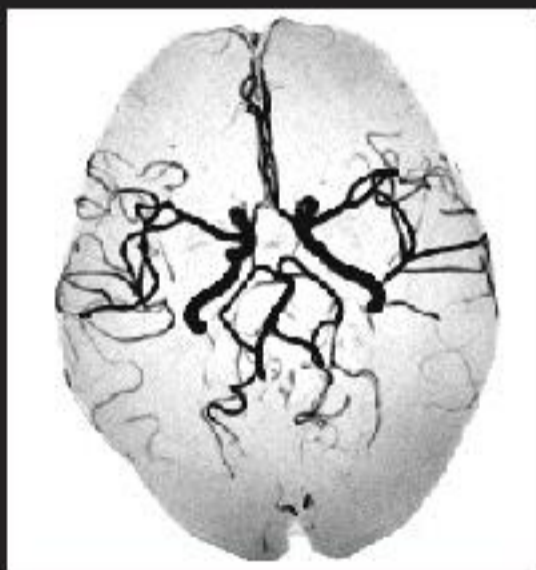


Fast complete software startup, shut down, image preview, post-processing and printing film.



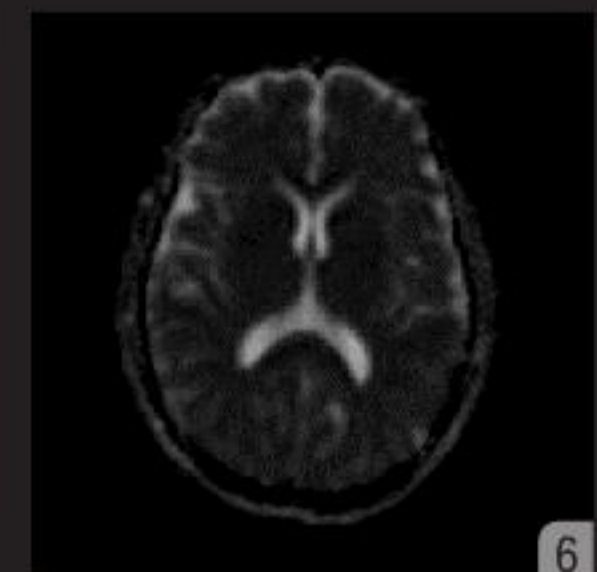
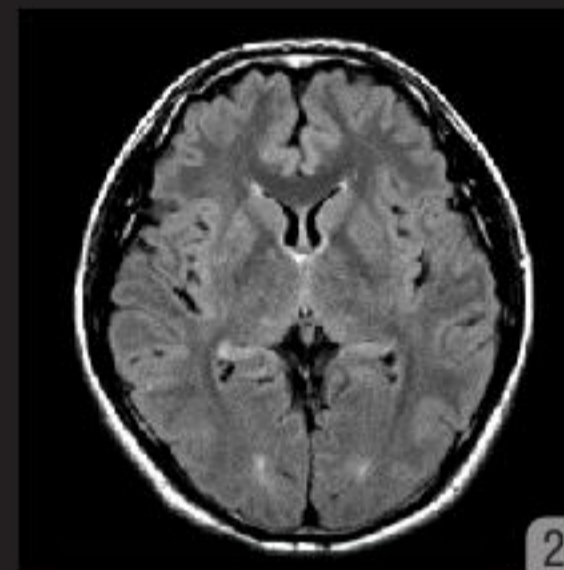
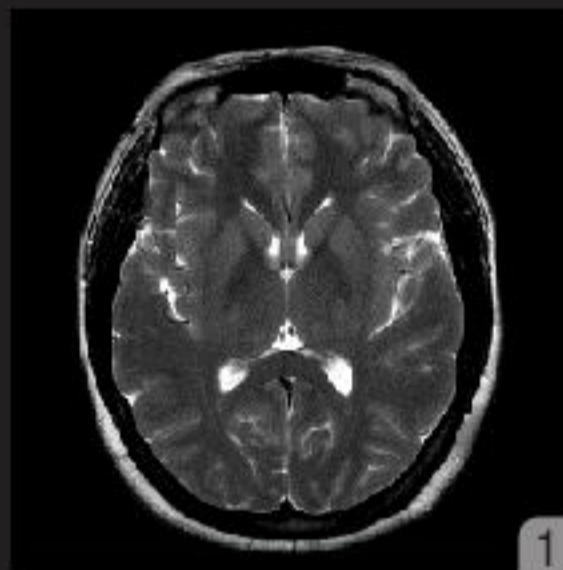
ALRESS – Design for Speed

Clinical application



MRA

3D TOF MRA , TR 26, TE4.4,
thickness 0.7mm, slices 120



Head Image

1.T2WI FSE TR 4600, TE95, thickness 6mm
2.FLAIR TR 8000, TE90, TI2200, thickness 6mm
3.T2WI FSE TR 4800, TE95, thickness 3mm

4.T1WI TR 450, TE15, thickness 2.5mm
5.DWI TE5100, b1000 TE115, thickness 6mm
6.ADC MAP

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Spine Image

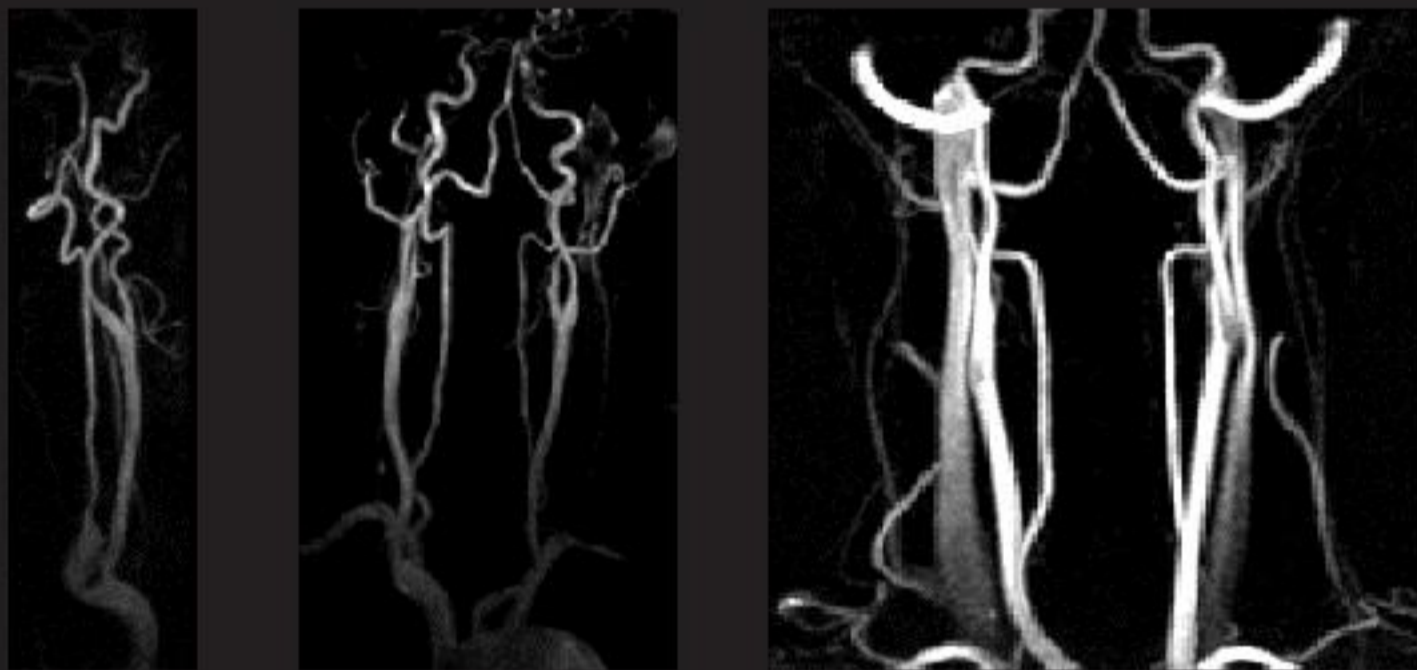
1.T2WI FSE, TR 4000, TE 85, thickness 3mm
2.T2WI FSE, TR 4000, TE 85, thickness 3mm

3.T2WI FSE FS, TR 4000, TE 85, thickness 3mm
4.T2WI FSE, TR 4000, TE 85, thickness 3mm



Spine Image

T2WI FSE, TR 4500,
TE 90, Thickness 3mm



CE-MRA

3D CE-MRA,
TR 3.9, TE 1.6,
thickness 1mm



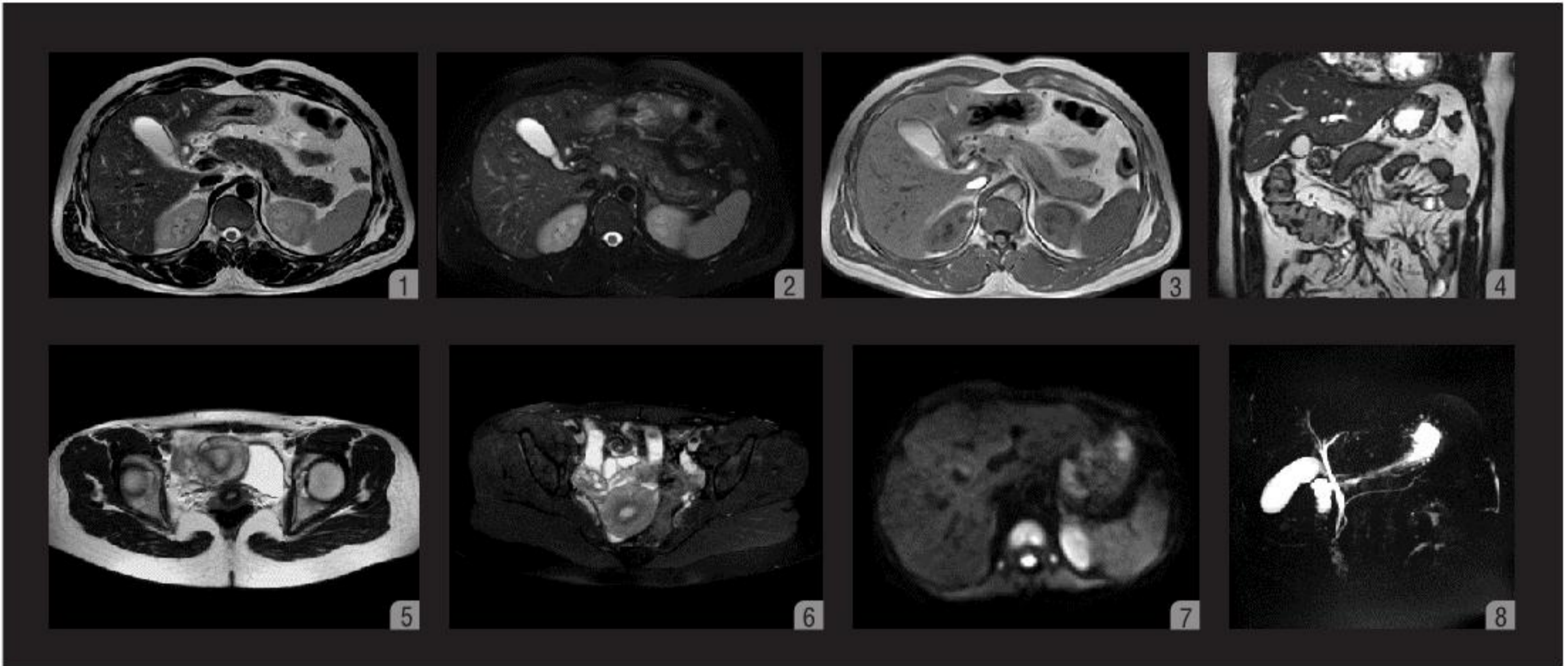
Mammography

1.T1WI FLASH 3D FS,TR 5.2, TE 2.5, Thickness 1.5mm
2.T2WI FSE STIR, TR 3200, TE 65, TI 140 Thickness 4mm

3.T2WI FSE ,TR 3000, TE 88, Thickness 4mm

EchoStar 1.5T

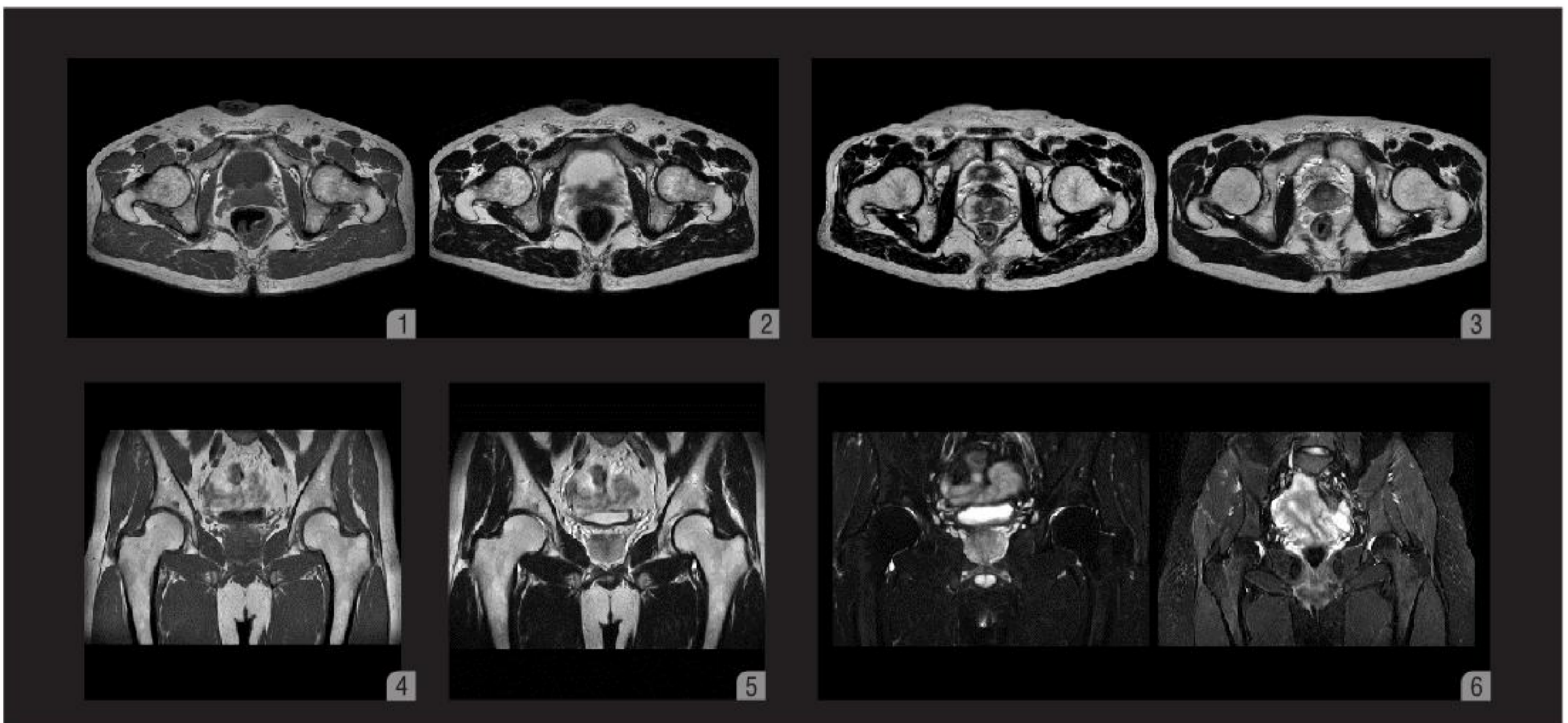
Powered by 16-Channel Orion RF system



Abdomen & Pelvis Image

1.T2WI FSE, TR 4600, TE 88, Thickness 6mm
2.T2WI FSE FS, TR 4600, TE 88, Thickness 6mm
3.T1WI FLASH TR 100, TE 4.6, Thickness 6mm
4.T2* BAL, TR 5.6, TE 2.8, Thickness 5mm

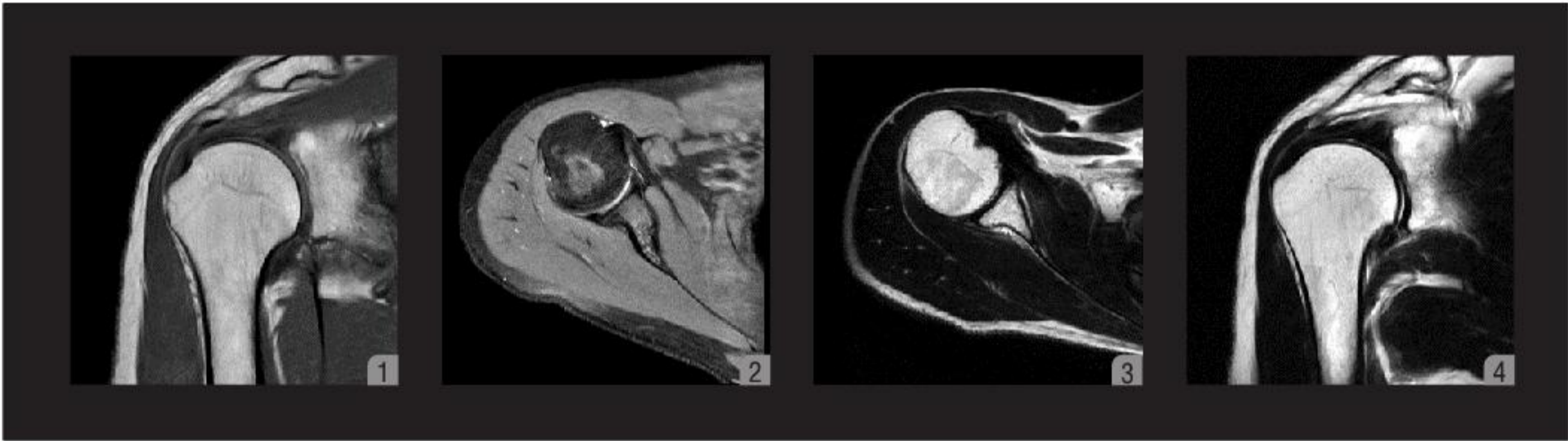
5.T2WI FSE, TR 3600, TE 105, Thickness 4.5mm
6.T2WI FSE FS, TR 3600, TE 100, Thickness 4.5mm
7.Body DWI, b700, TR 4500, TE 90, Thickness 6mm
8.3D SSFSE MRCP TR 4200, TE 700, Thickness 1.2mm



Hip Image

1.T1 AXI TR:836 TE:11.2, Thickness 5mm
2.T2 AXI TR:4520 TE:90, Thickness 5mm
3.T2 AXI TR:4500 TE:90, Thickness 5mm

4.T1 COR TR:662 TE:12, Thickness 5mm
5.T2 COR TR:3925 TE:90, Thickness 5mm
6.T2 COR SPIR TR:3900 TE:80, Thickness 5mm



Shoulder Image

1.T1 COR TR:850 TE:12.1, Thickness 3mm
2.T1 AXI SPIR TR:905 TE:16, Thickness 4mm

3.T2 AXI TR:3600 TE:80, Thickness 4mm
4.T2 COR TR:3110 TE:80, Thickness 3mm



Wrist Image

1.T1 COR TR:470 TE:14.5,
thickness 3mm



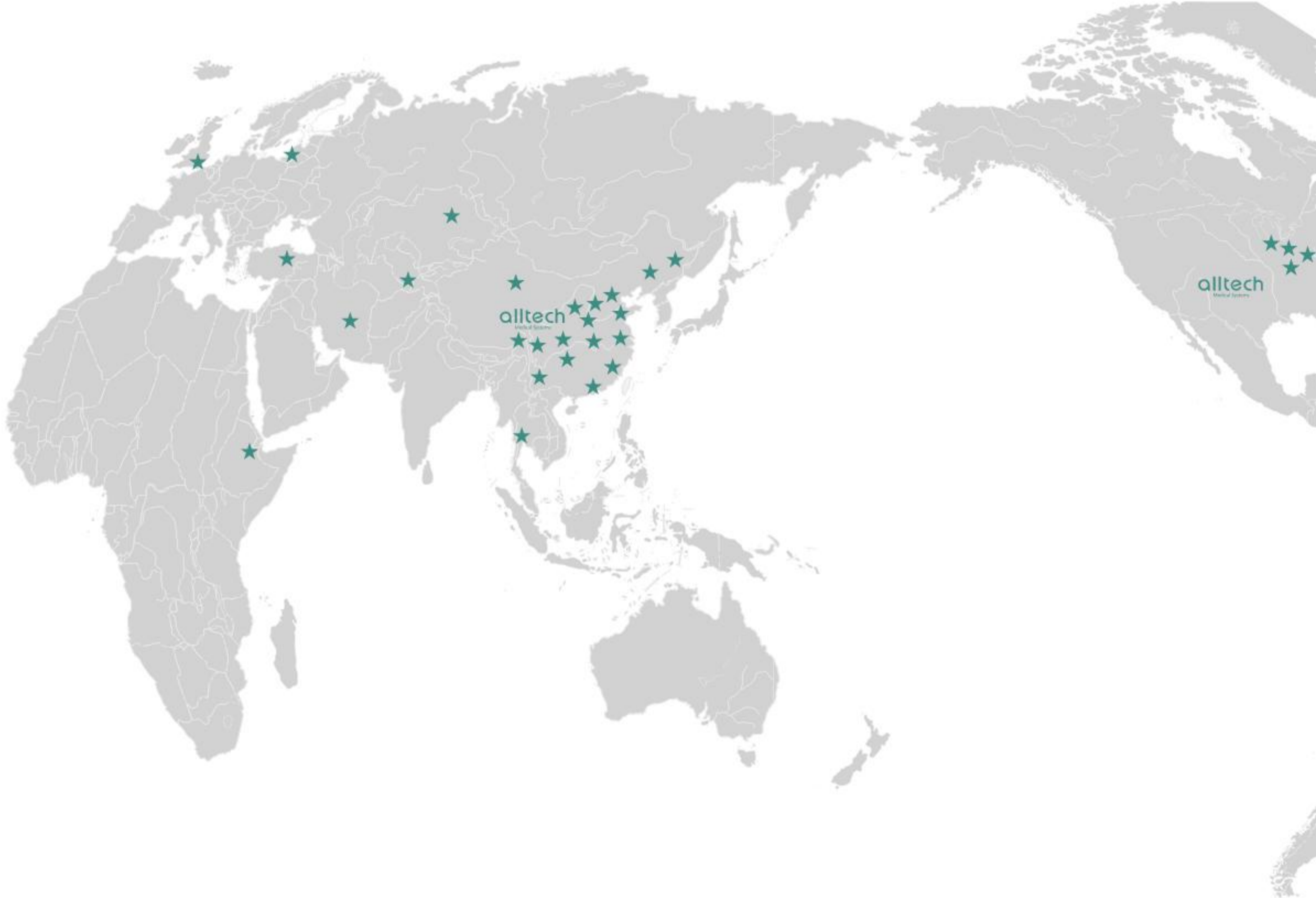
Knee Image

1.PD COR FS TR:3200 TE:15, Thickness 4mm
2.T1 COR TR:550 TE:12.4, Thickness 4mm
3.T2*AXI TR:685 TE:13, Thickness 4mm
4.T2 SAG TR:4000 TE:80, Thickness 4mm

Proven reliability

Industry leading reliability and uptime
Embedded remote monitoring system for monitoring,
troubleshooting and training

EchoStar 1.5T has proven an outstanding success in MRI market



*Certificates CE FDA ISO SFDA



With operations in Cleveland (USA) and Chengdu (China), AllTech Medical Systems(AMS) designs, manufactures and distributes medical diagnostic Magnetic Resonance Imaging (MRI) products. As a provider of medical imaging technology and product solutions, AMS serves the global MRI market with a state-of-the-art superconducting product family.

AMS systems are equipped with multi-channel real-time data acquisition systems, integrated coil solutions, advanced clinical applications and an intelligent operator friendly graphical user interface and workflow design.

With the full support of its managing board and employees, AMS is set to become a global leader in the engineering, manufacturing and service of diagnostic MRI products.

AMS guarantees leading edge clinical performance, product quality and reliability, all at an advantageous price. Further, AMS operates under the social imperative to help hospitals reduce diagnosis costs; deliver extra benefits for patients, and to create a positive impact on the global healthcare industry.



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