



MAGNETOM Altea gives you full confidence to deliver

MAGNETOM Altea is the scanner designed to give you full confidence to deliver the productivity, reproducibility, and patient satisfaction that you demand.

Built on our most powerful 1.5T platform, MAGNETOM Altea adapts to your needs so that you can rise to the most demanding challenges.

It puts cutting-edge Al at your fingertips to accelerate and enhance your performance.

Powered by myExam Companion and our unique BioMatrix technology, the system enables you to perform with confidence and consistency through each step of the MRI workflow.

With a clear focus on financial sustainability, MAGNETOM Altea also gives you full confidence that your MR asset will deliver the expected returns on investment. Throughout the entire system life cycle, Siemens Healthineers provides you with tailored products and services that guarantee future security.



Transform your care delivery

At the core of our revolutionary MRI system lies a magnetic design unparalleled in strength and efficiency, setting new benchmarks in diagnostic imaging.

MAGNETOM Altea is designed to fundamentally transform care delivery in your clinical key areas and provide financial sustainability.

Ultra-high performance 1.5T magnet

Strong gradient's system

Tim 4G

SIEMENS :

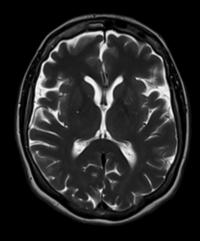
Scalable, high-performance coil portfolio



Deep Resolve is at the forefront of the deep learning revolution in MRI with Deep Resolve Boost & Sharp. These technologies use deep neural networks in the reconstruction process to achieve faster scans than ever before, while simultaneously increasing image sharpness and resolution. Across multiple clinical applications, Deep Resolve can further be combined with our unique acceleration technologies such as Simultaneous Multi-Slice (SMS) to produce images of superior quality in a fraction of the acquisition time, a true paradigm shift in MR imaging.

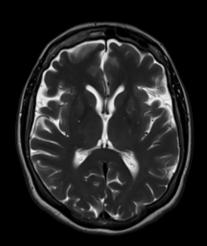


Conventional



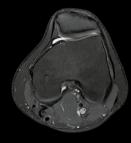
50% faster

2x resolution



T2 TSE PAT 4 $0.2 \times 0.2 \times 5.0 \text{ mm}^3$ TA 0:26 min





PD TSE fs PAT 3, SMS 2, Deep Resolve $0.3 \times 0.3 \times 3 \text{ mm}^2$ TA 1:00 min



PD TSE fs PAT 3, SMS 2, **Deep Resolve** $0.3 \times 0.3 \times 3 \text{ mm}^2$ TA 0:50 min



PD TSE fs PAT 3, SMS 2, Deep Resolve 0.3 × 0.3 × 3 mm² TA 0:43 min



PD TSE fs PAT 3, SMS 2, Deep Resolve 0.3 × 0.3 × 3 mm² TA 0:36 min



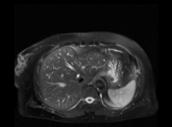
A complete knee examination in 3 min scan time

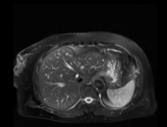


Deep Resolve – excellent image quality and acquisition speed



 $0.5 \times 0.5 \times 6.0 \text{ mm}^3$ TA 0:22 min Single breath-hold

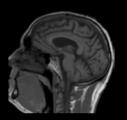




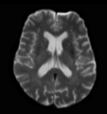
EPI Diffusion, b800 **Deep Resolve**

PAT 3 $1.4 \times 1.4 \times 6.0 \text{ mm}^3$ TA 0:59 min

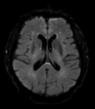




T1 flash PAT 2 0.5 mm × 0.5 mm × 5mm² TA 0:30 min

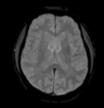


Epi diffusion PAT 2 $0.7 \text{ mm} \times 0.7 \text{ mm} \times 5 \text{ mm}^2$ TA 1:02 min



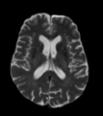
T2 dark fluid PAT 2 $1 \text{ mm} \times 1 \text{mm} \times 5 \text{mm}^2$ TA 1:22 min





TA 0:24 min





T2

A complete head examination in 3:26 min scan time with Deep Resolve Swift Brain

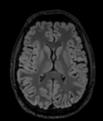
Boost speed and image quality in all dimensions

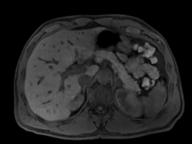
To unlock a new dimension of speed and clarity in 3D MRI. Planned Deep Resolve for SPACE and VIBE.⁴





T2 FLAIR SPACE CAIPI 4, Deep Resolve 0.5 mm iso TA 3:22 min



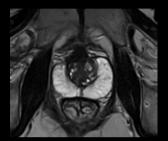


VIBE fs CAIPI 4, Deep Resolve 0.6 mm iso TA 0:13 min Single breath-hold

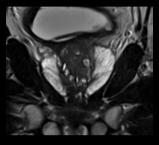
Courtesy of Jones Radiology at Calvary Adelaide Hospital, Adelaide Australia

Beyond speed. New clinical possibilities

Advanced Prostate MRI – Fast, high image quality, and focused on Your Health.

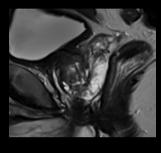


T2 TSE
PAT 4, Deep Resolve $0.4 \times 0.4 \times 3 \text{ mm}^2$ TA 0:50 min



T2 TSE
PAT 4, Deep Resolve
0.4 × 0.4 × 3 mm²
TA 0:41 min

New!



T2 TSE PAT 4, Deep Resolve $0.4 \times 0.4 \times 3.5 \text{ mm}^2$ TA 0:49 min

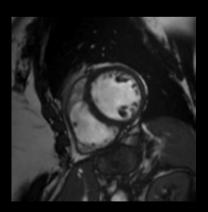


Diffusion (calc. b1000) PAT 4, Deep Resolve $01 \times 01 \times 3.5 \times 3 \text{ mm}^2$ TA 1:44 min

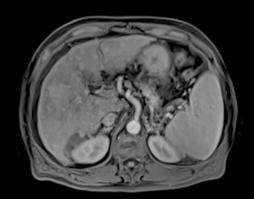


A complete prostate examination in 4:04 min scan time with Deep Resolve

Disruptive imaging technologies, such as Compressed Sensing GRASP VIBE and Compressed Cardiac Cine allows more patients to benefit from advanced diagnostic capabilities



Compressed Sensing Cardiac Cine 0.5 mm iso TA 2:59 min



Compressed Sensing GRASP-VIBE 0.5 mm iso TA 2:59 min

3aa2010

A workflow built around humans

The MRI workflow revolves around the interaction between the patient, technologist, and the system. We prioritize designing our technologies to optimize this connection for efficiency and comfort.



Discover **BioMatrix Technology**, our cutting-edge MRI technology designed to seamlessly adapt to each patient's unique anatomy and physiology, ensuring customized solutions for optimal outcomes.



Unlock effortless MRI workflows with myExam Companion.
Its innovative technologies simplify MR operations, and boost efficiency for seamless imaging experiences.



Patient centered experience: Efficiency and comfort in perfect synergy

MAGNETOM Altea offers a holistic environment of solutions that put the patient at ease whilst simplifying the workflow



BioMatrix Sensors

Utilizing our smart and integrated sensors for automatic detection of respiratory and cardiac motion to trigger scans.



BioMatrix Select&Go

Using AI to streamline the patient positioning workflow

New!

Patient registration, positioning, and start scan are now designed to be performed directly at the patient's side⁴



myExam 3D Camera

Captures the patient's shape, position on the table, and height in three dimensions, making patientpositioning up to 48% faster.

A scalable, high-performance coil portfolio allows you to tailor the system to the specific demands of your institution



New!

BioMatrix Contour XL coil⁴ with extra-large coverage of 60 cm × 90 cm, including a rotating cable connection and integrated **BioMatrix Sensors**.



BioMatrix Head/Neck coil with 20 channels. Tiltable coil with DirectConnect and integrated **BioMatrix CoilShim**.



Dedicated **MSK coils** such as our TxRx Knee 18 coil provide high-resolution imaging and superior patient comfort.

Intelligent guidance for imaging excellence

MAGNETOM Altea with **myExam Companion** offers assisted scan workflows that enable reliable imaging results. Using the new possibilities of digitalization and AI, data is turned into integrated expertise and tailored assistance.

myExam Assist

Flexible and guided

myExam Assist offers a semi-automated scan workflow that assists the user with smart automation while maintaining full flexibility to tailor the workflow to their needs.

Over 90%⁵ of MRI exams are covered by myExam Assist

Offering tailored scan strategies



Automated slice alignment using anatomical landmarks enables consistency

Adjustable scan parameters

myExam Implant Suite*

Our solution ensures a straightforward setup for implant scanning.

- Seamlessly integrate with the registration process.
- Facilitates simple setting of SAR or B1+rms limits and gradient slew rate per axis for MRI examinations, especially for patients with implants.

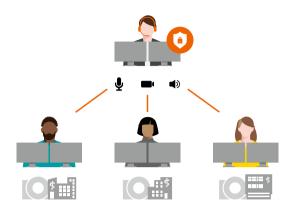


syngo Virtual Cockpit⁶

Move knowledge, not staff!

Support MRI, CT, PET, and SPECT Scans remotely – independent of location!

- Experts can assist with up to 3 scans simultaneously
- Care teams stay connected through chat, audio, and video
- Easy protocol management from virtually anywhere



myExam Autopilot

Automate intelligently

myExam Autopilot offers a fully automated scan workflow including a streamlined user interface for the easiest and quickest MRI exam.

Scan with virtually a simple click of a button

A simplified user interface to keep the focus on what matters



For consistent results – no matter the user, patient, or workload



Al-powered technologies

myExam Assist and myExam Autopilot have Al integrated for consistent image quality

Toward a sustainable future

At Siemens Healthineers we want to work together with you to positively impact not only the well being of your patients but equally ensure that we use our planet's resources responsibly.

We provide technological solutions that reduce the ecological footprint of MRI and contribute to a more sustainable future in healthcare.

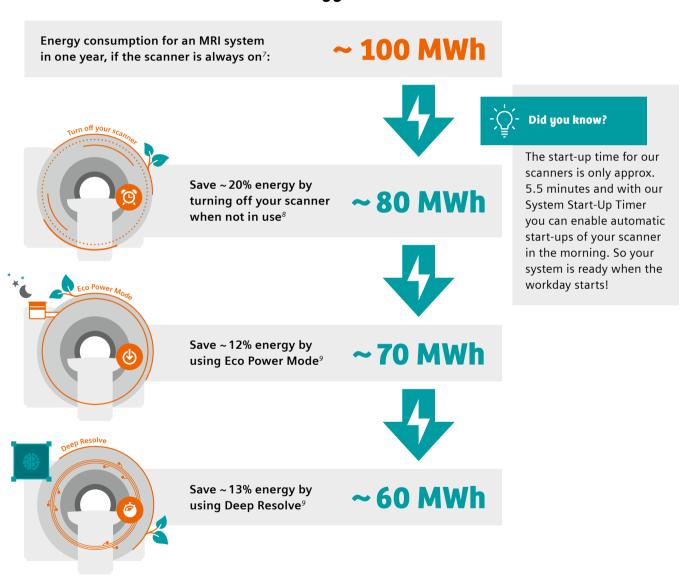




Scan the code or visit siemens-healthineers.com/magnetic-resonance-imaging/sustainability-in-mri to find out more

MAGNETOM Altea offers energy saving technologies that holistically apply to daily operations

How MAGNETOM Altea saves energy:

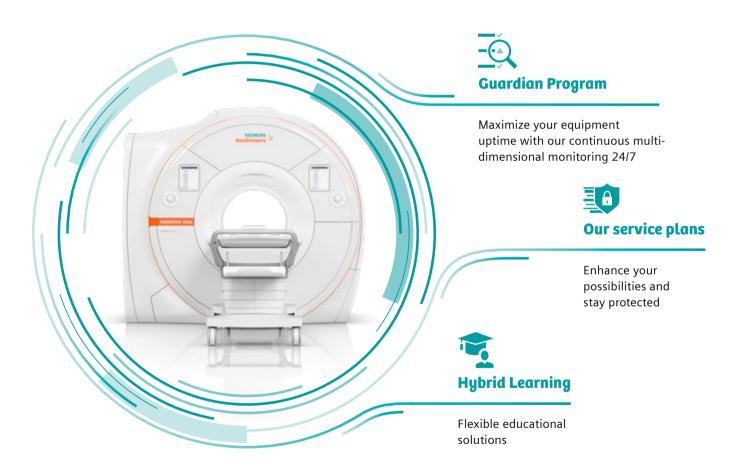


Make the most of our innovations and save ~ 40% energy!

Stay connected to be one step ahead

While you focus on caring for your patients, we take care of your scanner

Our comprehensive services solutions Individual and everywhere





Scan the code or visit
siemens-healthineers.com/
services/customer-services
to find out more

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The information in this document contains general technical descriptions of specifications and optional features which do not always have to be present in individual cases. Siemens Healthineers reserves the right to modify the design, packaging, specifications, and options described herein without prior notice. Please contact your local Siemens Healthineers sales representative for the most current information.

Note: Any technical data contained in this document may vary within defined tolerances. Original images always lose a certain amount of detail when reproduced.

- The product is still under development and not commercially available. Its future availability cannot be ensured.
- ⁵ Data on file
- ⁶ syngo Virtual Cockpit is not yet commercially available in all countries and the service offering cannot be guaranteed due to regulatory or other reasons. Please contact your local Siemens Healthineers organization for further details. Precondition: Expert-i enabled or KVM switch connected modalities and appropriately trained personnel operating under applicable federal, state, and local laws as to the specific imaging modality(ies), including radiation and contrast.
- ⁷ Results were achieved by Siemens Healthineers using both standard and optional features. There can be no 'typical' hospital setting (case mix, system type, etc.) and so results by users may vary with no guarantee that the same results can be achieved.
- 8 Values are computed for a MAGNETOM Sola XQ system for illustration purposes.
- 9 Results are quantified assuming scanning operations as per COCIR standards.

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