Key differentiators

MAGNETOM Vida

siemens-healthineers.us/magnetom-vida

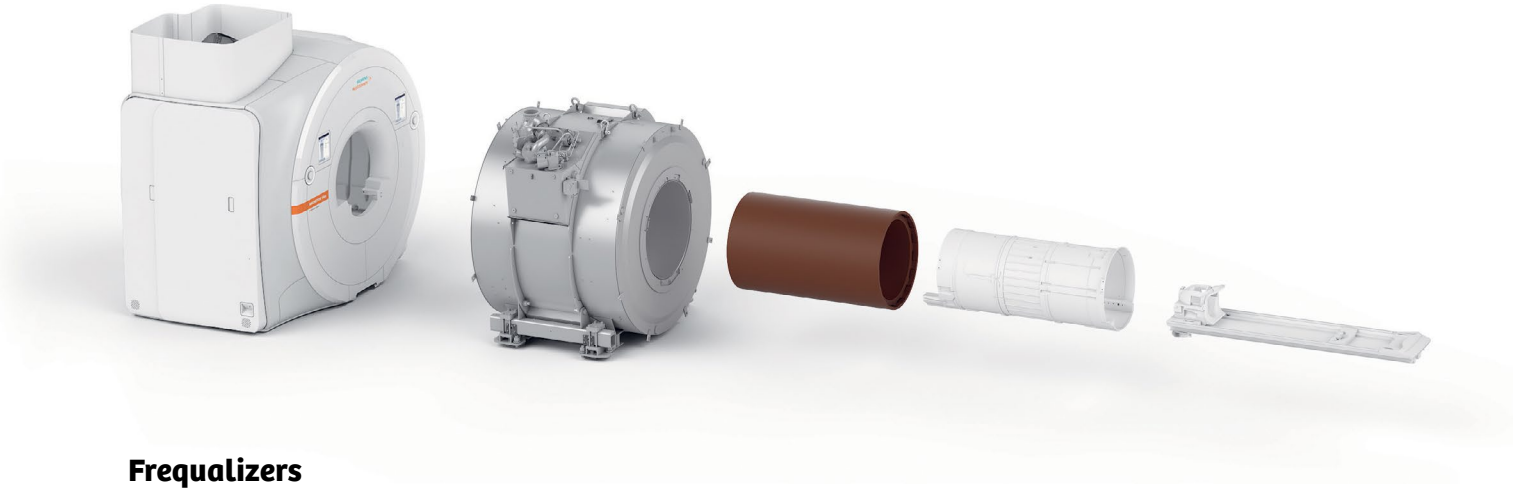
Contents

SIEMENS Healthineers

Magnet & RF Amplifiers

MAGNETOM Vida was designed with an unparalleled 3T magnet that delivers excellent homogeneity throughout the entire measurement volume. The system uses passive and active shimming: three linear channels (first order) and five non-linear channels (second order). The unique BioMatrix Tuners, CoilShim and SliceAdjust further enhance homogeneity by applying patient-specific and region-specific shim optimization in critical regions. This enables robust and reliable fat saturation. MAGNETOM Vida features a large 55 x 55 x 50 cm^3 field of view (FOV), which is especially important for long-bone, abdominal or off-center applications. The magnet performance is enhanced with its patient-friendly 70 cm open-bore.

Features a large 55 x 55 x 50 cm^3 field of view

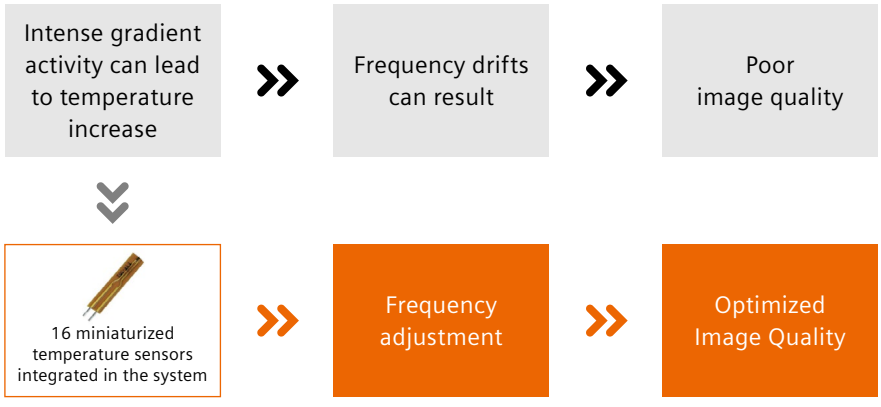


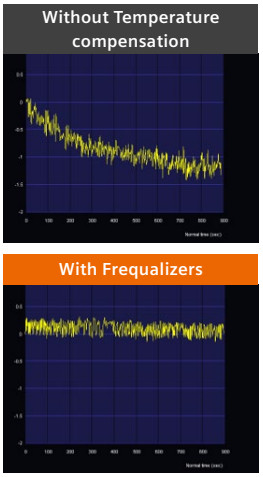
Frequalizers

Frequalizers consist of an array of temperature sensors that correct center frequency shifts induced by temperature changes that are caused by demanding applications.

The benefit: The scanner always stays on resonance and produces consistent, reliable results.

Outstanding long-term stability with Frequalizers

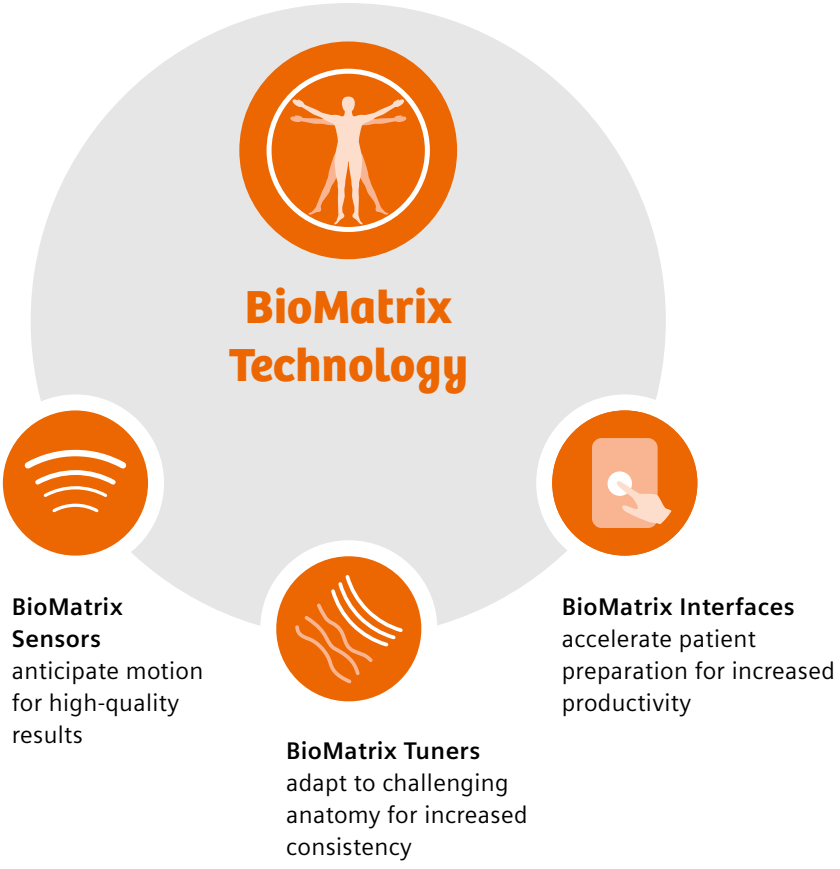




BioMatrix

Patients have unique, individual characteristics—biovariability. Different physiologies and anatomies—and how each patient interacts with the MRI technology—may cause variations in the imaging results. BioMatrix Technology helps to overcome these challenges by automatically adjusting to patient biovariability. By embracing human nature in this way, we can personalize the MRI examination and help expand precision medicine.

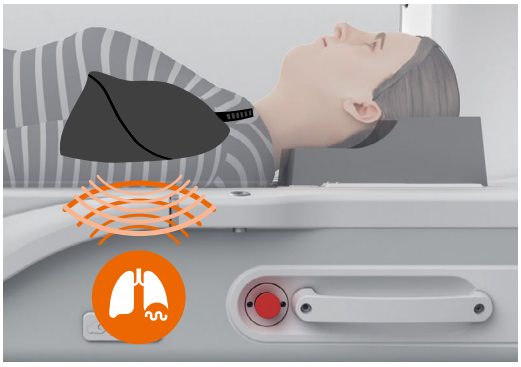
The three key pillars of the BioMatrix family that drive consistency and efficiency in the face of biovariability are BioMatrix Sensors, BioMatrix Tuners and BioMatrix Interfaces.



BioMatrix Sensors

Anticipate motion for high-quality results

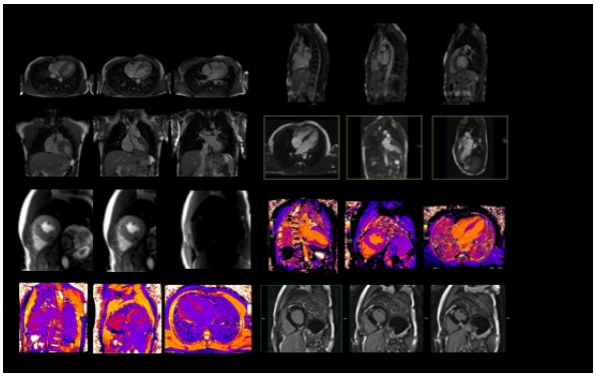
The unique Respiratory Sensors in the BioMatrix Spine coils automatically detect breathing patterns as soon as the patient lies on the table. This speeds up patient setup especially when respiratory triggering is needed for image acquisition. There is no need for an additional respiratory bellows or belt. The detected respiratory motion is immediately displayed on the BioMatrix Interface as a respiratory curve.



BioMatrix[1] Beat Sensor

Cardiac MRI exams without ECG

- BioMatrix Beat Sensor, based on pilot tone technology, provides an alternative to ECG triggering
- Pilot tone signal is generated by a small local radio frequency (RF) transmitter and is received by the standard MR local coils
- The frequency of the pilot tone signal is outside the image bandwidth, but inside the receiver bandwidth
- The physiological pulsatile motion of the heart modulates the pilot tone RF signal by generating eddy currents in the body that oppose the applied field



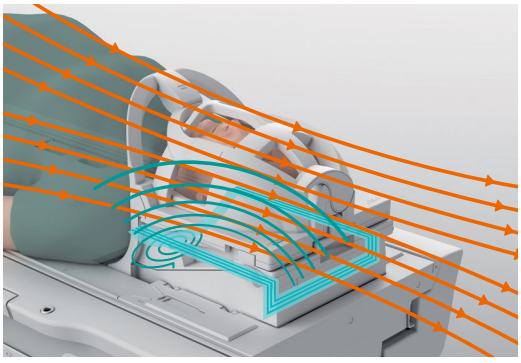
[1]Standard on Vida 32. Optional on Vida 64 and 128.

BioMatrix Tuners

Adapt to challenging anatomies for reliable exams

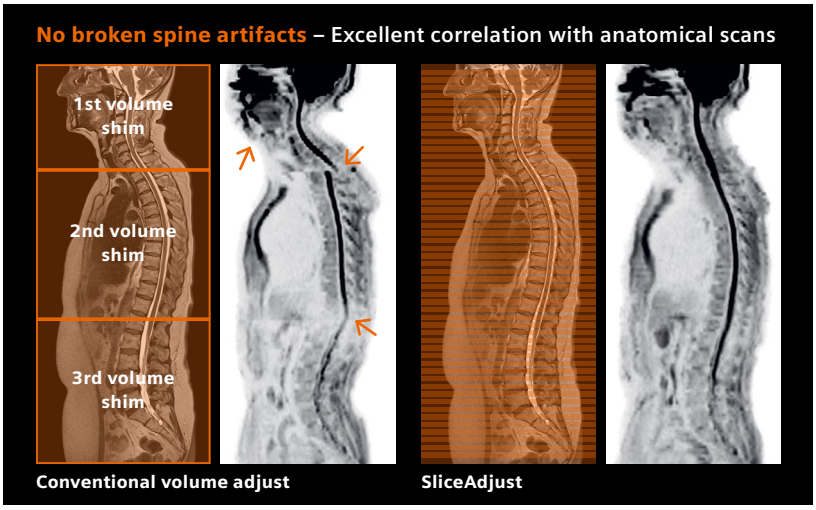
CoilShim[1]

Integrated into the new BioMatrix Head/Neck coils, CoilShim increases diagnostic quality and reduces the need for repeat scans by delivering improved fat saturation, better DWI and TSE quality in the neck region. Additional shim elements directly integrated into the BioMatrix Head/Neck coil perform region-specific shimming for a more homogeneous B0 field in the challenging head and neck region.



SliceAdjust

In a typical MR scanner, B0 field inhomogeneity resulting from a patient's anatomy is corrected by the standard volume shim. However, for multi-station exams, volume shimming has its limitations, for example, at station boundaries. This typically leads to "broken spine" artifacts in whole-body DWI or impaired fat saturation in multi-station TSE. With BioMatrix SliceAdjust, precise slice-by-slice shimming is performed to eliminate the inaccuracies of a conventional volume shim. SliceAdjust delivers excellent DWI quality, providing excellent correlation to anatomical scans and improving fat saturation in TSE scans.



[1]*Optional for the 32CH Vida*

BioMatrix Interfaces

Accelerate patient preparation for increased efficiency

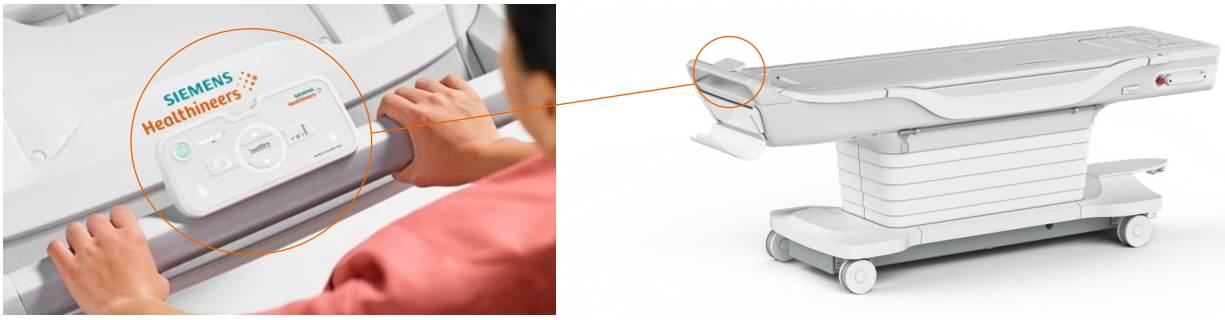
Select&GO

With one-touch positioning using the Select&GO display, based on the underlying BioMatrix Body Model, artificial intelligence is used to accelerate patient positioning by up to 30%.[1] The body region to be scanned is automatically displayed on the touch display depending on which set of coils is plugged into the table. As soon as the body region of interest is selected, the patient is moved to iso-center without activating the laser light. Delays due to incorrect positioning can now be avoided.

BioMatrix Select&GO accelerates patient positioning—powered by AI

Dockable Table[2]

The BioMatrix Dockable Table enables fast and easy patient setup. The multi-directional navigation wheel and 360-degree flexibility make patient handling easy. Also, the possibility to lower the table to 52 cm guarantees an easy patient transfer. The fast automated push-button AutoDock functionality allows maneuvering without peddles. The receiving port guides the table for easy alignment into the scanner. The optional eDrive support provides motorized assistance so that even the heaviest patient can be moved effortlessly to and from the MRI scanner.



Easy and intuitive interface	»	Effortless maneuverability with eDrive assistance	»	Easy docking with AutoDock
Sensitive to user touch		**Up to 550 lbs**		**No pedals required**

[1] *Data on file.*
[2] *Optional*

Tim 4G Technology

Deliver exceptional image quality and speed with Tim 4G

Tim is the integrated coil technology that revolutionized MRI. Tim 4G is now in its 4th generation.

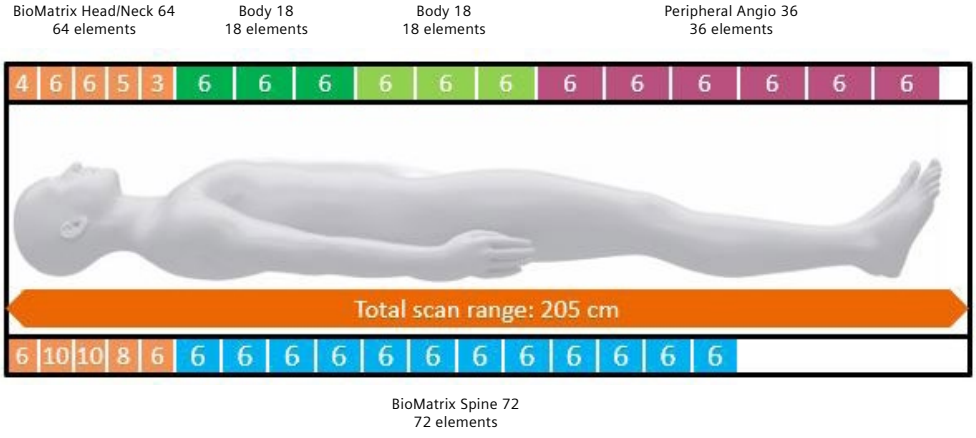
Highest channel count up to 228 channels connected simultaneously

Tim 4G features DirectRF, a fully digital system of RF receive and RF transmit. This is unique in the market. Both the receivers and the transmitter are situated directly at the magnet. This ensures a very close relationship between all critical components (receiver, transmitter, body coil, gradient coil) with real-time feedback loops that result in tight control of all components simultaneously, for the highest accuracy.

On the receive side, care was taken to have the receivers as close to the receiving coils as possible—but not on the coils themselves, where they would only add weight and bulk and make the coils more expensive, without providing any clinical benefit. Additionally due to the integrated pre-amplifiers, the full SNR is preserved.

The most relevant differentiator of our RF systems is the number of independent RF channels working in combination with the high element density coils. Together they maximize use of the channels. For example, Tim 4G with the MAGNETOM Vida offers up to 128 independent RF channels (unique in the 3T arena). Vida also provides coils and coil combinations with the highest element density in the market to augment the 128 channels.

What is the benefit of high coil element density? High coil element density combined with a high number of RF channels allows for higher SNR and higher speed with higher PAT factors. The figure below demonstrates up to 205 cm of total scan range with the Tim 4G's unique coils.



Example coil coverage from a MAGNETOM Vida [228x128]

TIM 4G Coil Solutions

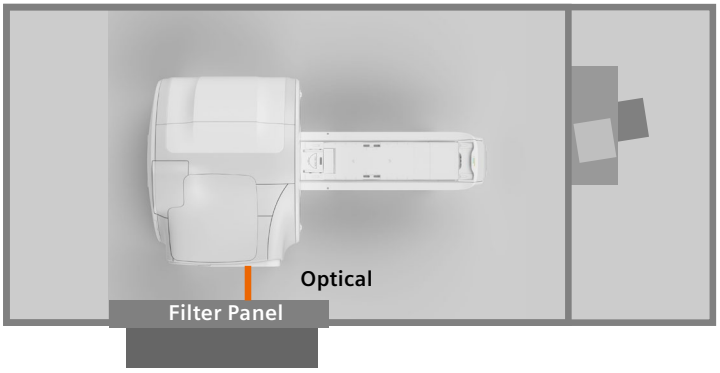
With one of the broadest coil portfolio's in the industry—the ultra-lightweight coils drive functionality and solve key clinical and workflow needs:

DirectRF

As discussed earlier. Direct RF provides integration of all transmit and receive components at the magnet, enabled by the unique digital-in and digital-out design with fiberoptic cables between the magnet and equipment room.

- Enabler for real-time feedback loops
- Higher signal purity and improved stability
- Enhanced image quality, less noise
- Easier siting

DirectRF
- **Better image quality, less noise**
- **Higher signal purity and improved stability**
- **Easier siting**

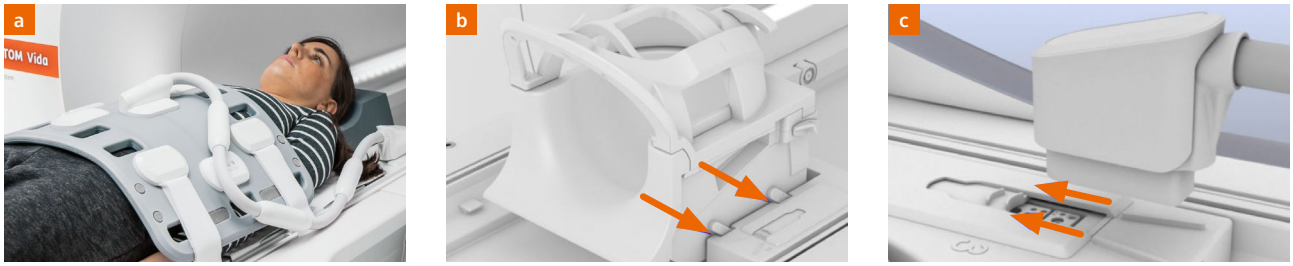


DirectConnect and SlideConnect

DirectConnect and SlideConnect technology enable one-hand operation. This results in easy handling and helps to speed up the workflow even further.

Your advantages:

- Up to 40%* faster body imaging with Tim 4G due to its ultra-high coil element density, enabling more SNR and speed.
- Maximum 205 cm scan range without repositioning the patient when large coverage is required.
- Light-weight coil design for fast setup and increased patient comfort.
- Accelerated workflow with DirectConnect, cable-less coils for spine, head/neck and foot/ankle and SlideConnect technology on all other coils for easy one-handed operation.



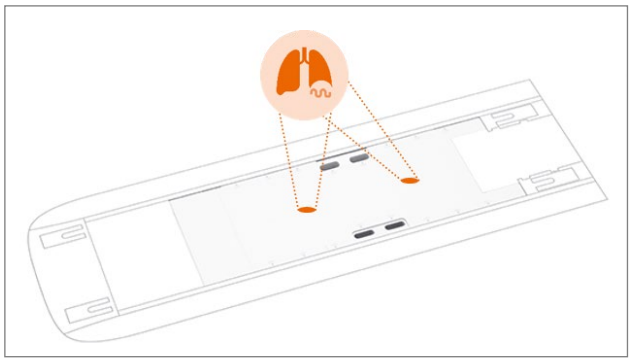
(a) Light-weight Body 18 coil on the integrated Spine 32 coil; easy-to-use and fast coil connection with (b) DirectConnect and (c) SlideConnect.

**Data on file.*

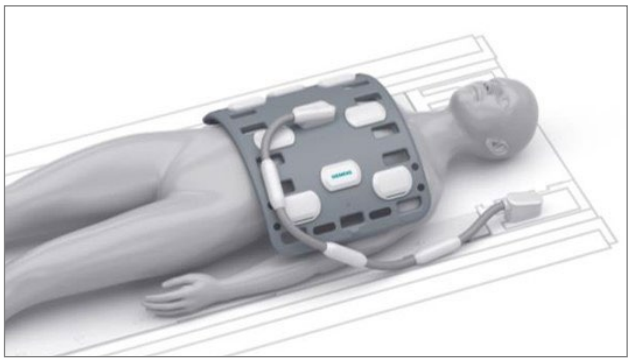
Flexible and Patient Friendly Coils

A comprehensive set of coils included

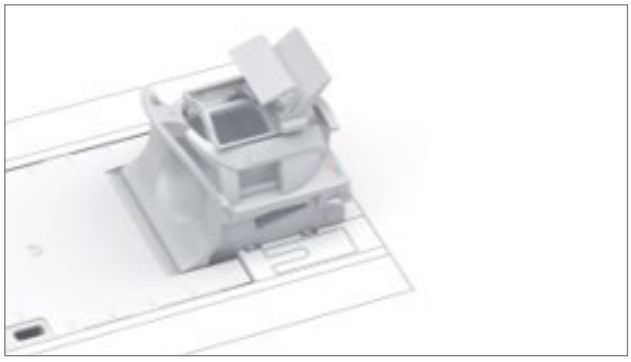
Designed to Support All Your Imaging Needs



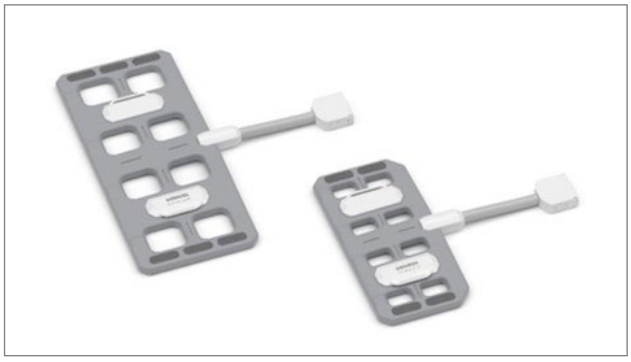
BioMatrix Spine 24, 32 & Spine 72
with Respiratory Sensors[3]



BioMatrix Body 12[5]/Body 18[2]



BioMatrix Head/Neck 20 Tiltable and with Coilshim[4]



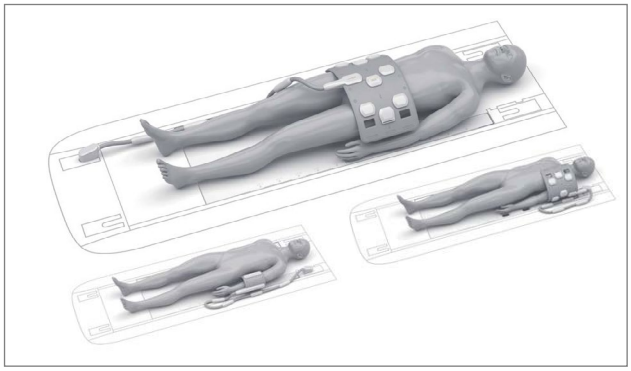
Flex 4 Large/Small

Wide Portfolio of Optional Coils

UltraFlex 18 Coils (Small & Large)

The UltraFlex 18 coils provide a light-weight, blanket-like feel with the added benefit of breathability. The flexible coils adapt to the patient's anatomy (no fixation straps needed), easily contouring to their body, reducing anxiety.

- Dual-Density Signal Transfer enables the ultra-high density coil design by integrating key RF components into the UltraFlex 18
- Dedicated positioning Aids for shoulder, knee, elbow and foot/ankle for easy and comfortable patient positioning
- 18-channel design
- iPAT-compatible
- Stackable with the Body 12 or Body 18



	UltraFlex Large 18[1]	UltraFlex Small 18[1]
Weight	4 lb	3.1 lb
Dimensions (L x W x H)	11.4 in x 23.2 in x 0.55 in	7.5 in x 16.1 in x 0.55 in

[1]Optional
[2]Prerequisite: Tim [204x64] or higher.
[3]Pre-Requisites: BioMatrix Spine 24 is [204 x 32], BioMatrix Spine 32 is [204 x 64], BioMatrix Spine 72 is [204 x 128].
[4]Optional for Tim[204x32], standard for Tim[204x64] or higher.
[5]Standard for Tim [204x32]

BioMatrix Body 18[2] & BioMatrix Body 18 long[1]

The BioMatrix Body 18 coil expands the coil portfolio as a patient-friendly, flexible, and high element density coil. With an integrated Beat Sensor, the breathable coil also incorporates the SlideConnect feature as well as exchangeable cable design for efficient positioning.

The BioMatrix Body 18 long is a BioMatrix Body 18 with an extended cable that enables flexibility due to its lightweight design and ability to connect in each of the four slide connects without having to adjust the patient.

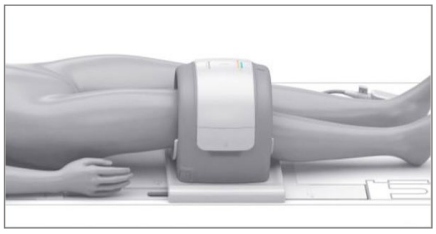
- **Integrated Cardiac Beat Sensor**
- **Can be combined with additional BioMatrix Body 18 coils for larger coverage**

Contour 24/48[1]

Contour 24 & Contour 48 are soft and flexible Tim 4G coils that adapt to the patient's anatomy and body contour. Improve efficiency and reduce anxiety as fixation straps are not needed. Depending on application need, the coil can be used on either side as well as any orientation.

- **No fixation straps needed**
- **Can be used in any orientation**

16 Ch Ortho Coils[1]

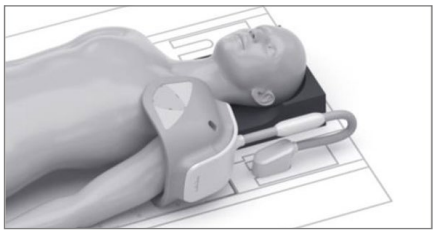


Accommodate more patients with a flared opening

Tx/Rx Knee 18

Full hand and wrist coverage

Hand/Wrist 16



Optimal fit to patient anatomy with flexible coil elements

Shoulder Shape 16

Secures the anatomy for motion free imaging

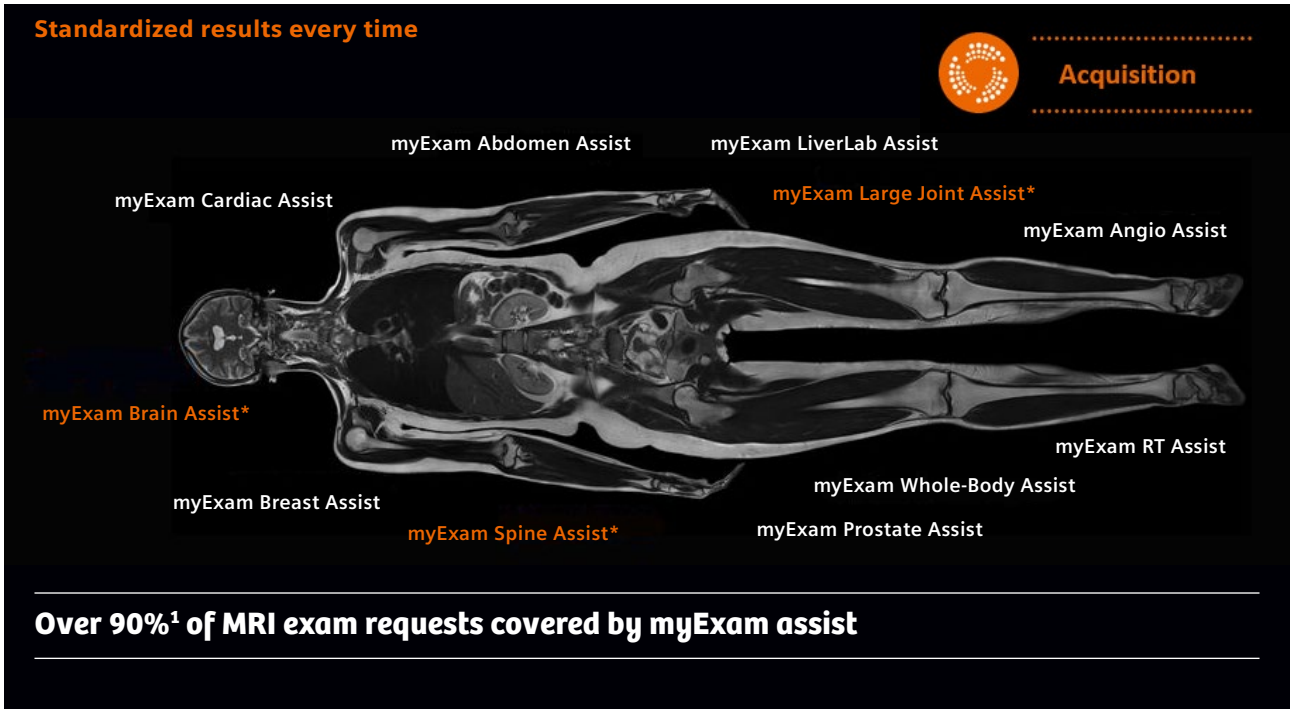
Foot/Ankle 16

[1]*Optional*
[2]*Prerequisite: Tim [204x64] or higher, otherwise optional.*

myExam Companion

11 myExam assists deliver consistent, reproducible results from head to toe

myExam assist with MAGNETOM Vida



myExam Companion breaks down the barriers of complex MRI operations using a new philosophy on how to operate MRI. It leverages the new possibilities of digitalization and AI, to turn data into integrated expertise and tailored assistance.

The myExam Autopilot, Assist and Cockpit helps users efficiently achieve high-quality results – regardless of their experience level, the patient, or throughput.

Which mode should you work with?

Different modes. Different use cases. Consistent IQ: Powered by AI myExam Companion provides tailored user assistance enabling consistent and reproducible results.

myExam Autopilot

myExam Autopilot offers users the most advanced and intelligent automation. It enables users to scan at high quality with just a simple click and has the potential to remove burdensome routine tasks.

Automate intelligently

- MRI operation drastically simplified
- Automated protocol without the need for any manual adjustments
- Clear design with a focus on what users need – and without any distractions
- Novel usability with touch or click interaction

**Standard*
[1]Evaluation of 9 million Siemens MR exams, 2014.

myExam Assist

myExam Assist provides guided workflows. Users can select exam strategies or flexibly adapt them based on the patient's condition. It allows for high quality, efficient exams even when conditions change.

Flexible and guided

- Standardized exam strategies for all supported body regions
- Decision logic for consistent adaptations
- Useful automation with automated slice/volume positioning

myExam Cockpit

myExam Cockpit allows users to customize intuitively. It provides a central workspace for protocol management. Users can set up and maintain protocols, build knowledge into standardized exams and make those continuously available for every user in the MRI department.

Customize intuitively

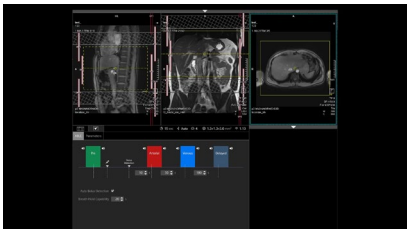
- Configure all your protocols to your individual needs
- Configure and set-up myExam Autopilot or Assist programs
- Efficient protocol management with explorer and editor in one
- Instantly edit, save, and run your protocols – for maximum flexibility even during an examination

Autosuite

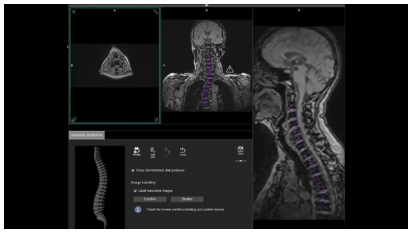
Integrated Autosuite – powered by AI

Providing ease-of-use, consistency, and reproducibiltiy in myExam Autopilot or Assist while remaining customizable to your standards in myExam Cockpit.

AutoAlign, AutoCoverage, and AutoFoV
For consistent slice or volume coverage and orientation



AutoBolus Detection and AutoVoice Commands
For consistent timing of breathing or contrast in dynamic imaging



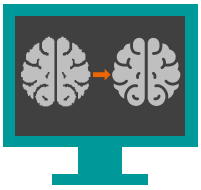
AutoLabeling and AutoCoil Select
Eliminate the need for manual coil selection or labeling tasks

Speed

Deep Resolve

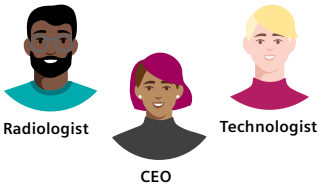
Deep Resolve is an AI-powered image reconstruction technology that takes advantage of convolutional neural networks to accelerate MRI scans faster than ever before while simultaneously increasing resolution.

Increase department throughput
Drive improved efficiency

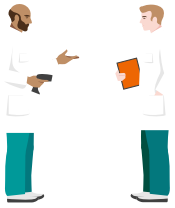


Increase in image resolution
Improve diagnostic confidence

Patient comfort in the MR
Faster exams = less table time



Schedule flexibility
Administrative support



Increase clinical referrals
Expand services

Deep Resolve Gain

What is it?
Deep Resolve Gain is a targeted denoising method to increase the MRI signal of images. With this, either shorter scan times or higher resolution can be achieved.

How does it work?
The acquired MRI system generates a patient specific, targeted noise map which reflects spatial noise variations. The MR image and the corresponding targeted noise map are subtracted in an iterative process to remove excess noise which does not add value to the final MRI image.

What problem does it solve?
MRI coil geometry and patient variability can create unnecessary noise in MR images. The noise impairs the signal of the MRI image and can decrease image quality. Deep Resolve Gain directly addresses the removal of the signal not contributing to the image.

What is the key differentiator?
Deep Resolve Gain targets the local noise variation introduced by each MRI patient and the corresponding RF coil via the iterative principle, similar to compresed sensing, but focused on noise removal.

Deep Resolve Sharp

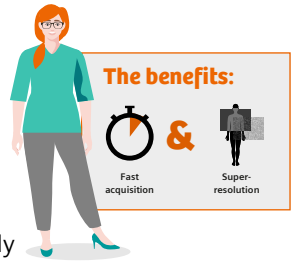
What is it?
Trained on over 10,000 pairs of low-res and high-res MR data, Deep Resolve Sharp reconstructs a higher resolution image from low resolution data via the AI network.

How does it work?
A low-res image is reconstructed from the low-res data into a sharper, higher resolution image. Data consistency with the acquired raw data is ensured as part of the final image reconstruction. The result is an image with sharper edges and up to a 2x improvement of in-plane resolution.

What problem does it solve?
Typically, in MRI, you can either have a longer scan that acquires a lot of data and provides high resolution or a quicker scan, less data – but lower resolution. Why not have the best of both scenarios with Deep Resolve Sharp.

What is the key differentiator?
The AI network can generate high-res output from low-res input because it has been trained on many pairs of high and low-res images, enabling the software to anticipate where to expect a sharp edge in an image.

Deep Resolve Boost

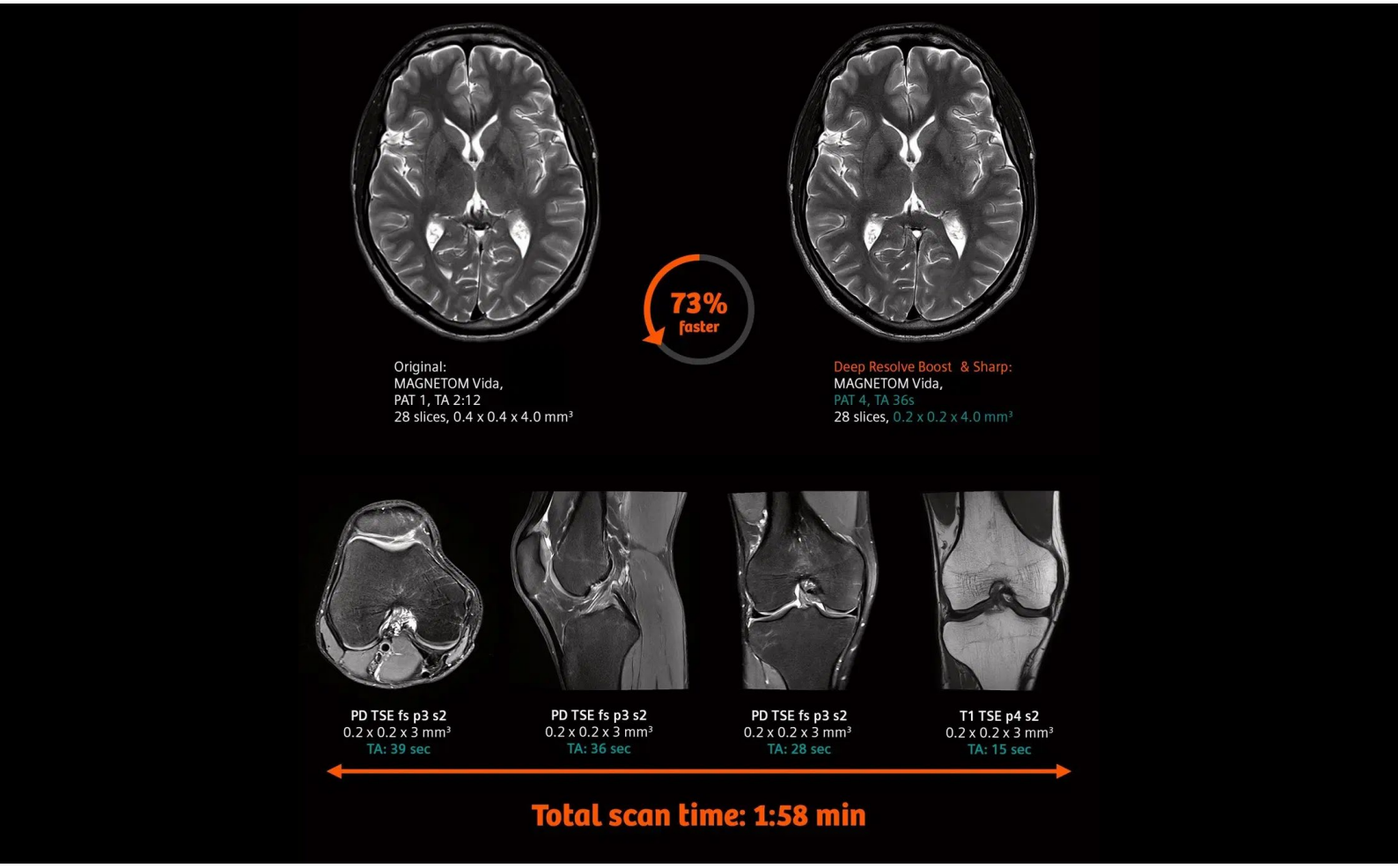


What is it?
Deep Resolve Boost enables super resolution at imaging speeds never before possible.

How does it work?
Leveraging raw data from a reduced, and thus faster scan as input, a deep neural network is applied multiple times in an iterative process to generate the final output with significantly reduced noise. The integration of the raw data along the entire reconstruction process leads to unmatched performance and ensures data integrity.

What problem does it solve?
With conventional reconstruction methods, a highly accelerated image acquisition will lead to strong noise contamination and/or artifacts. The reconstruction with Deep Resolve Boost enables the generation of images with extremely high MRI signal and a superfast image acquisition simultaneously.

What is the key differentiator?
Deep Resolve Boost can be combined with Deep Resolve Sharp as well as Simultaneous Multi-Slice (SMS) for amazingly fast accelerations and super-resolution across all anatomies.



Simultaneous Multi-Slice[1]

SMS is a revolutionary method to significantly reduce imaging times for TSE, diffusion, and BOLD imaging through simultaneous excitation and readout of multiple slices. It is the only acceleration technique that does not result in SNR-related losses due to subsampling as opposed to iPAT. Implementation includes a multiband pulse coupled with the blipped CAIPIRINHA technique to minimize g-factor-related SNR penalties.

SMS for the TSE sequence reduces scan times, and/or increases slice coverage/resolution at similar scan times. SMS TSE is unique and is particularly beneficial in MSK imaging, which accounts for a major proportion of daily routine exams.

SMS RESOLVE (REadout Segmentation Of Long Variable Echo trains) delivers high-resolution, low-distortion, diffusion-weighted imaging (DWI) for accurate depiction of lesions. Additionally, this technique is largely insensitive to susceptibility effects, providing detailed anatomy-true diffusion imaging of the brain, spine, breast and prostate.

[1]*Optional*

Compressed Sensing[1]

Compressed Sensing is an acceleration technique that incorporates sparse, incoherent subsampling followed by iterative reconstruction. Compressed Sensing in static imaging includes Compressed Sensing SPACE, Compressed Sensing Time-of-Flight (ToF), and Compressed Sensing SEMAC for metal artifact reduction[2]. Compared with other static exams, these Compressed Sensing applications benefit from intrinsic sparsity, which allows higher acceleration factors.

Compressed Sensing GRASP-VIBE[1]

With Compressed Sensing GRASP-VIBE, you can expand the patient population eligible for abdominal MRI. Patients who cannot hold their breath or follow breathing commands, including those with dementia and hearing impairments, children, or multi-morbid patients, can now undergo high-resolution dynamic abdominal imaging. With the push of a button, Compressed Sensing GRASP-VIBE's intelligent reconstruction and processing framework instantly recognizes different phases of liver dynamics, automatically labels them, and outputs only the clinically relevant information.

Highlights and benefits:

- Perform push-button, free-breathing liver dynamics in clinical routine
- Overcome timing challenges in dynamic imaging and respiratory artifacts
- Expand the patient population eligible for abdominal MRI
- Auto Bolus Detection
- AutoLabeling of relevant phases (pre-contrast, arterial, portal-venous and delayed)
- Self-gating for further reduction of residual motion blur
- Optimized clinical protocols for the abdomen

[1]*Optional*

Turbo Suite Packages

To maximize value for our customers, we created three Turbo Suite packages consisting of a combination of various acceleration techniques. Each package is optimized and suitable for different sequences and body regions.

Turbo Suite Essential
Turbo Suite Essential comprises established acceleration techniques such as iPAT, iPAT[2], T-PAT, and the unique CAIPIRINHA to maximize productivity for all contrasts and orientations in routine imaging from head to toe. CAIPIRINHA can be applied to volumetric 3D imaging that supports iPAT[2] for body, neuro, or MSK imaging.

Turbo Suite Essential provides unique parallel imaging techniques for routine examinations in 10 – 15 minutes[2] scan time

Turbo Suite Excelerate[1]
Turbo Suite Excelerate comprises cutting-edge acceleration techniques such as Simultaneous Multi-Slice (SMS) and Compressed Sensing for static 2D and static 3D imaging applications in Neuro, MSK, and Body MRI.

Turbo Suite Excelerate enables time savings, for all contrasts, orientations, and body regions by up to 50%[2]

Turbo Suite Elite[1]
Turbo Suite Elite comprises cutting-edge Compressed Sensing applications for advanced abdominal and cardiovascular imaging with dynamic 2D and dynamic 3D applications. It includes Compressed Sensing GRASP-VIBE, Compressed Sensing Cardiac Cine, as well as TWIST, TWIST-VIBE, and StarVIBE.

Turbo Suite Elite provides unique Compressed Sensing for dynamic and full freebreathing liver and cardiac examinations

Turbo Suite Essential

Routine exams in 10–15 minutes

iPAT
CAIPIRINHA
VIBE
CAIPIRINHA
SPACE

Turbo Suite Excelerate

Up to 50% time savings

SMS DWI
SMS TSE
SMS RESOLVE
CS ToF
CS SPACE
CS SEMAC

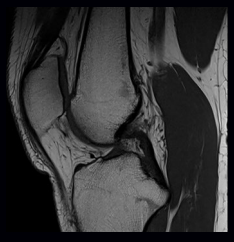
Turbo Suite Elite

Expand clinical capabilities

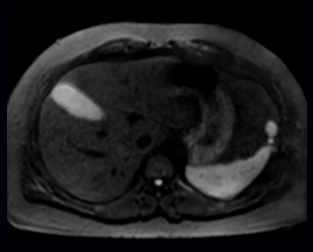
CS Cardiac Cine
CS GRASP-VIBE
FREEZEit + TWIST

[1]*Optional*
[2]*Data on file.*

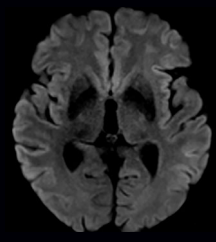
Conventional



T1 TSE, PAT 3
0.3 x 0.3 x 2,5 mm³
TA 1:22 min
3aaaa0600



DWI, PAT 3, b800
0.4 x 0.3 x 3 mm³
TA 5:07 min
3aaaa0166



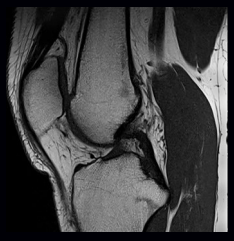
RESOLVE, PAT 2
0.6 x 0.6 x 1.4 mm³
TA 2:48
3aaaa1466

50% reduction

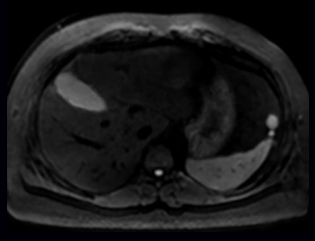
58% reduction

45% reduction

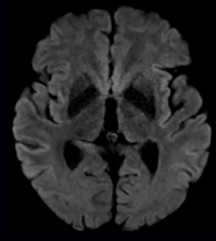
Turbo Suite Excelerate with Simultaneous Multi-Slice and Compressed Sensing



SMS T1 TSE, PAT 3, SMS 2
0.2 x 0.2 x 2,5 mm³
TA 0:41 min
3aaaa0600

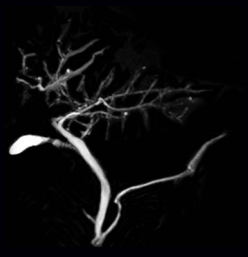


SMS DWI, PAT 2, SMS 2, b800
0.4 x 0.3 x 3 mm³
TA 2:08 min
3aaaa0166

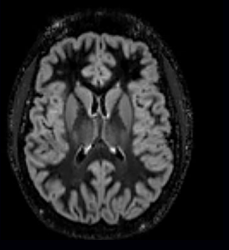


SMS RESOLVE, PAT 2, SMS 2
0.6 x 0.6 x 1.4 mm³
TA 1:33
3aaaa1466

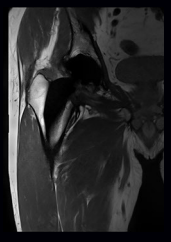
TOF Angio, PAT 2
0.4 x 0.4 x 0.4 mm³
TA 4:28 min
3aaaa0784



3D T2 SPACE, MRCP, PAT 3
0.5 x 0.5 x 1.0 mm³
TA 5:05 min,
respiratory triggered
3aaaa0783



T2 SPACE DIR, PAT 2
1.4 x 1.4 x 1.4 mm³
TA 6:07 min
3aaaa784



SEMAC[6], PAT 4
0.5 x 0.5 x 0.8 mm³
TA 07:08 min
3aaaa0876

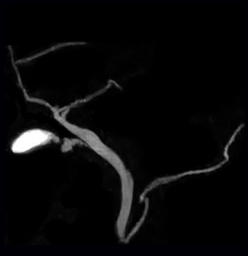
55% reduction

95% reduction

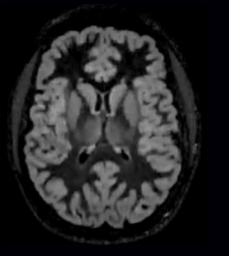
49% reduction

33% reduction

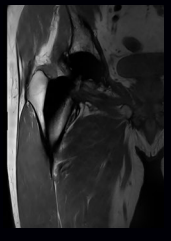
CS TOF Angio
0.4 x 0.4 x 0.4 mm³
TA 2:00 min
3aaaa0784



CS 3D T2 SPACE MRCP, CS 23
0.4 x 0.4 x 1.6 mm³
TA 0:15 min, breath-hold
3aaaa0783



CS T2 SPACE DIR, CS 7
1.0 x 1.0 x 1.0 mm³
TA 3:07 min
3aaaa784



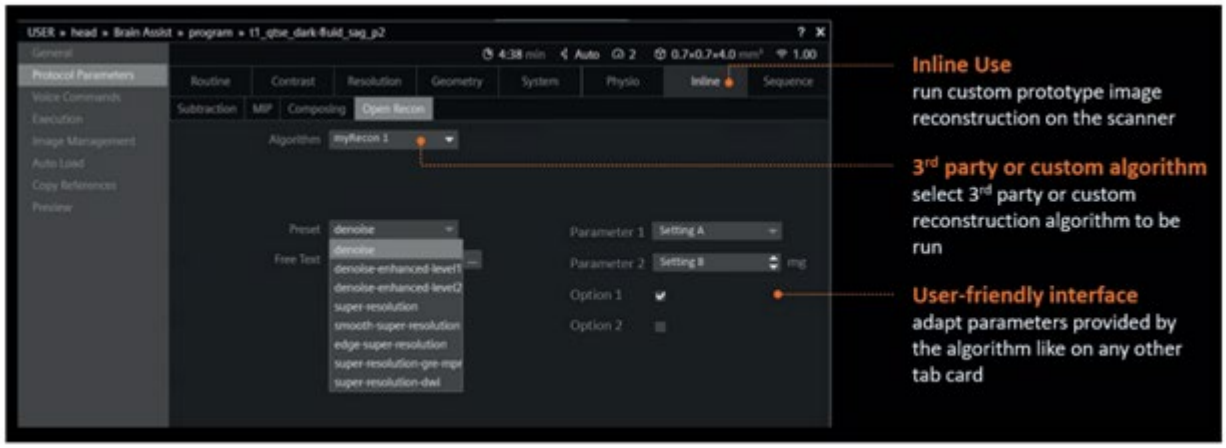
CS SEMAC[6], CS 8
0.5 x 0.5 x 0.8 mm³
TA 4:45 min
3aaaa0876

Open Recon

Open Recon is a developer-friendly interface that facilitates the creation and deployment of innovative MR reconstruction algorithms. Open Recon opens the MR system for such algorithms to be deployed by scientists, third party companies, and Siemens Healthineers. Different reconstruction algorithms can be executed in a container on the reconstruction system, exchanging data via a dedicated interface. With Open Recon, custom reconstruction algorithms can easily be run and adjusted, enabling seamless workflow. Open Recon also facilitates the sharing of algorithms across institutions relying on the ISMRM raw data format.

Highlights and benefits:

- Simplified reconstruction environment for scientists
- Convenient access to reconstruction parameters via dedicated “inline” card
- Facilitated scientific collaboration via the ISMRM raw-data format
- Possibility of MR reconstruction algorithms deployment for third parties and Siemens Healthineers



Physiologging

Physiologging enables the extraction of physio data via a checkbox on the Physio > Signal tab of the UI. As a new feature, time stamps are added to allow easier synchronization of physio data to corresponding fMRI data acquired with either EPI BOLD or EPI PACE. This will help researchers to correct fMRI data for physiological motion and noise. All parameters recorded by internal physiological sensors (such as BioMatrix Respiratory Sensor, respiratory belt, ECG, pulse sensor, BioMatrix Beat Sensor) are then available in a convenient data format for further offline processing. The physio curves will be stored in a separate DICOM file including timestamps.

Highlights and benefits:

- Timestamped physiological data for easier synchronization with fMRI data
- Recording can be started via a checkbox on the UI (Physio > Signal tab)
- Physio data are stored as a separate DICOM file which can also be archived

Improving the MRI patient experience – with comfort, speed, and entertainment

Most patients who undergo an MRI scan experience some level of anxiety. Help patients overcome anxiety by turning MRI into a comfortable, fast, and entertaining experience.

- **Calm patients with a relaxing atmosphere**
- **Create a patient comfort zone**
- **Ease patients' anxiety**

Bring patient experience solutions to life with augmented reality
Explore how our solutions improve the MRI patient experience with augmented reality (AR). Configure the solutions in your environment and display them in life size directly on your smart mobile device.

Calm patients with a relaxing atmosphere[1]
Patients arriving for an MRI examination are often anxious and stressed. Help them relax the minute they enter the room with our scanner MoodLight. You can also design a calming theme for your scan room using scanner skins, projections, or wall coverings.

Quiet Suite – Imaging is to be seen, not heard
Offer patients quiet examinations of the brain, spine, and large joints —without compromising image quality or scan time. Quite Suite benefits your patients by providing a 99%[2] reduction in sound pressure for neurological and orthopedic MRI exams.

Noisy and boring MRI exams are a thing of the past with Innovision
Innovision[1] redefines the patient experience using a revolutionary in-bore infotainment solution. Patients are engaged by an impressive sound and video experience as soon as they lie on the table. The patient display keeps patient informed about their remaining scan time and displays predefined or custom content.

MAGNETOM Mini Scanner Mock-up
Let patients see, hear, and feel an MRI scan with our MAGNETOM Mini Scanner Mock-up. The MAGNETOM Mini Scanner Mock-up comes with a sliding table top that can be manually moved in and out of the bore. The MAGNETOM Mini Scanner Mock-up also features two buttons that, when pressed, will play pre-recorded sounds of three different MRI sequences.

[1]*Optional*
[2]*Data on file.*

MRI Life Design

Short installation time
Thanks to its compact system design, MAGNETOM Vida has a typical installation time of less than 10 working days, helping reduce costs from the very start.

Small footprint
Minimum total space requirement: less than 334 ft² for magnet, electronics, and console room. The system complies with the standard ceiling height of 94.5 in. An integrated water cooling cabinet eliminates the need for dedicated cooling of the entire equipment room.

Zero Helium boil-off magnet technology
During operation, the magnet windings must be cooled below their critical temperature. That happens with liquid helium. Equipped with a Zero Helium boil-off technology, MAGNETOM Vida requires no helium refill in normal use. Depending on the frequency and type of applications used, overall savings of up to 1,300 liters of liquid helium are possible[1].

Product take back
Most of the materials used to produce MAGNETOM Vida are recyclable. 93% (by weight) can be recycled for material content and 7% for energy. We refurbish systems and reuse components and replacement parts whenever possible through our Refurbished Systems business.

Power-saving technology
Intelligent technology for higher energy efficiency: optimized sequences for less gradient switching, and self-adapting components, that switch off automatically when not needed.

System start timer
Timer clock that can be installed together with the MAGNETOM Vida to start the system automatically at user-definable times, eliminating waiting times during system boot up. It allows the definition of three different startup times for different days.[3]

Advance. Now Evolve
The Advance.Now Evolve when included in a service agreement, elevates your imaging solutions to the head of the pack. Get the latest versions of your equipment's software as it becomes available—as well as systematic hardware upgrades—so your imaging systems remain state-of-the-art for years to come.

[1]Data on file.
[2]Source: https://www.bloomberg.com/news/articles/2013-01-31/helium-rises-to-highest-since-1995-in-fallout-from-shale-boom.
[3]University Hospital Freiburg, Germany. The statements by Siemens Healthineers customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption), there can be no guarantee that other customers will achieve the same results. This statement was provided by a person who or whose institution is engaged in a collaboration with Siemens Healthineers.

Siemens Healthineers AG (listed in Frankfurt, Germany: SHL) pioneers breakthroughs in healthcare. For everyone. Everywhere. As a leading medical technology company headquartered in Erlangen, Germany, Siemens Healthineers and its regional companies are continuously developing their product and service portfolio, with AI-supported applications and digital offerings that play an increasingly important role in the next generation of medical technology. These new applications will enhance the company's foundation in in-vitro diagnostics, image-guided therapy, in-vivo diagnostics, and innovative cancer care.

Siemens Healthineers also provides a range of services and solutions to enhance healthcare providers' ability to provide high-quality, efficient care. In fiscal 2022, which ended on September 30, 2022, Siemens Healthineers, which has approximately 69,500 employees worldwide, generated revenue of around €21.7 billion and adjusted EBIT of almost €3.7 billion.

Further information is available at www.siemens-healthineers.com.

The outcomes and statements provided by customers of Siemens Healthineers are unique to each customer's setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, and level of service/technology adoption), there can be no guarantee that others will achieve the same results.

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The information in this document contains general technical descriptions of specifications and options as well as standard and optional features, which do not always have to be present in individual cases.

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