Upgrade your MAGNETOM ESSENZA.

Established 1.5T performance. With Tim+Dot.

www.siemens.com/MAGNETOM-ESSENZA-UPGRADE
Your MAGNETOM ESSENZA. Established 1.5T performance. With Tim+Dot.

With more than 1,200* installations worldwide, your MAGNETOM® ESSENZA proves its outstanding performance at 1.5T every day. Ultra-short, lightweight, and equipped with state-of-the-art technology, it is highly efficient, delivers excellent MR images, and helps you to provide high-quality radiology services on a daily basis.

"MAGNETOM ESSENZA has the best cost/benefit in the market, with excellent image quality and a reasonable operational cost. The best equipment I ever have worked with."

Dr. Túlio Macedo, Hospital Santa Catarina, Uberlândia/MG, Brazil

"The MAGNETOM ESSENZA MR system allows us to do high-quality examinations while keeping investment and operating costs under control. ... today, we have a very good productivity."

Geoffrey Gatebled, Chief Technician, Centre d’Imagerie Médicale de Franconville, Franconville, France

* as of March 2013
Established 1.5T performance. With Tim+Dot.

More than 1,200* installed systems in over 80 countries

MAGNETOM ESSENZA is a true “value for money” system combining both strengths of excellence in imaging and viability for investors.

Dr. B. Kannan
Director
Aravind Krishna Hospital
Sattur, Virudhunagar District
Tamilnadu, India

Our MAGNETOM ESSENZA was installed in September 2010. For the past two years, my experience is: It is easy to operate, the hardware and software work very well, it never broke down.

Dr. Yang Ju Sheng,
Director of MRI Department,
People’s Hospital,
Shifang, Sichuan Province, China

My experience is that our new system is performing with optimal productivity and producing images with outstanding quality needed for diagnostic purposes. The satisfaction achieved with special examinations, for example, tractography or spectrography, is better than expected.

Dr. Ľubomír Miština
M.R. Institute
Banská Bystrica, Slovakia

More than 1,200* installed systems in over 80 countries
Upgrade now
and perform MRI with ease and perfection.

A powerful upgrade brings your established performer to the next level.

With Dot®, new applications, and the latest software platform, you can upgrade your daily MRI business.

Leading. With MAGNETOM.
Benefit from workflow-optimized and user-friendly MRI solutions.
More productivity. With Tim+Dot.

- Excellent workflow and improved parallel-imaging performance with Tim and state-of-the-art applications like CAIPIRINHA
- High-quality, consistent exams guided by the Dot engines (Brain Dot Engine as standard, more engines optional)
- Access to four additional Dot engines to further improve your workflow

More applications. From head to toe.

- Increase the clinical use of your existing system with the latest software platform
- Achieve a new standard with advanced applications like Inline Diffusion, CAIPIRINHA, syngo BLADE, and CISS&DESS
- Broaden your clinical scope and opt for high-end applications like syngo RESOLVE or 3D CSI for prostate

More confidence. Through sustainable value.

- Optimized workflow with Tim+Dot – for a fast break-even on your upgrade
- Access to innovations with Siemens' latest MR software platform
- Established performance and excellent reliability enhanced by improved usability and new applications

60 cases per day. With MAGNETOM.
More productivity.
With Tim+Dot.

With Tim®, you have already experienced outstanding image quality, speed, and accuracy in MRI. By upgrading to Dot you will add more consistency and ease-of-use to your entire MRI workflow.

Dot is a new way of scanning in MRI – a better way. Dot scanning uses a suite of customizable engines – allowing the user to personalize exams according to patient needs, build in step-by-step user guidance, and automate MRI exams – either “out of the box” or based on the institution’s standards.

Your benefits:
• Increased consistency and reproducibility
• Greater ease of use
• Higher productivity

Make complex exams routine *

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<tr>
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<th>Abdomen Dot Engine workflow</th>
<th>Conventional abdominal workflow</th>
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<td>STDEV 4.05</td>
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Reduce the average exam time in abdominal imaging by more than 10%.

Dot engines for your MAGNETOM ESSENZA upgrade

Your staff, referrers, and patients will benefit from increased consistency, greater ease of use, and higher productivity in MRI scanning.

Brain Dot Engine
- Up to 20% higher throughput and faster reading
- Reproducible positioning and standardized image quality
- Consistent exam duration and more efficient scheduling

Cardiac Dot Engine
- Up to 50% increase in patient throughput
- Consistency in slice positioning for reliable image quality across multiple exams
- Ease-of-use helps bring cardiac MRI into your clinical routine

Abdomen Dot Engine
- Up to 28% better timing accuracy
- Consistent image quality for even complex abdomen examinations

Angio Dot Engine
- Automated calculation of contrast agent application
- Interactive contrast timing approach eliminates need for cumbersome calculations
- Increased timing accuracy and image consistency

Knee Dot Engine
- More consistent image quality
- Faster and easier-to-use 3D workflows
- Improved evaluation of soft tissue in proximity of orthopedic MR-conditional metal implants, due to less susceptibility artifacts with syngo.WARP
More applications.

From head to toe.

**CAIPIRINHA**
The powerful next-generation iPAT application for up to 50% faster 3D imaging and increased resolution.

Standard 3D VIBE DIXON sequence with GRAPPA 2, acquired in 20 s

Both faster AND higher resolution: 3D VIBE DIXON sequence with CAIPIRINHA 4, acquired in 16 s

**Inline Diffusion**
Automatic real-time calculation of trace-weighted images and ADC maps with Inline Technology for brain imaging and tumor differentiation in head and body applications.

Diffusion b-value 0

Diffusion b-value 1000

Automatically calculated ADC map

**3D CISS and DESS**
Excellent visualization of fine structures like the cranial nerve; high-resolution imaging of inner ear and spine. T2/T1 – weighted, high-resolution cartilage imaging.

3D CISS thin MIP, Inner Ear

3D DESS water excitation

syngo BLADE
Robust, motion-insensitive imaging for excellent results.

T2 TSE with severe motion artifacts in an acute stroke patient

T2 TSE BLADE of the same patient
Enhance the standard of your Tim Application Suite with CAIPIRINHA, Inline Diffusion, 3D CISS and DESS, and syngo BLADE. New advanced applications like 3D CSI, syngo TWIST, syngo RESOLVE, and syngo TISSUE 4D to broaden your clinical scope.

**3D CSI**

3D Chemical Shift Imaging for prostate spectroscopy to support tumor diagnosis.

**syngo TWIST**

Time-resolved 3D contrast-enhanced MR Angiography (MRA) technique with very high temporal (subsecond) and spatial resolution (sub-millimeter).

**syngo RESOLVE**

Higher resolution and accuracy with less susceptibility distortion in diffusion-weighted imaging in brain, spine, or prostate with multi-shot DWI.

**syngo TISSUE 4D**

Facilitates the detection of tumor tissues in organs like the prostate and liver.
More confidence.

Through sustainable value.

Your MAGNETOM ESSENZA already provides excellent value in terms of image quality, reliability, and profitability. Upgrading your established performer with Dot technology and a new software platform will increase this value for years to come.

Investing in a member of the MAGNETOM Family of MRI systems is an investment in the future security of your MRI business. A continuous upgrade path is an integral part of our product lifecycle management. Your MAGNETOM ESSENZA can now benefit from our upgrade program, too.

Broaden your clinical scope by accessing new acquisition techniques like CAIPRINHA. Optimize your entire MRI workflow with new technologies like Dot. You will increase the quality and productivity of your MRI exams, improve staff and patient satisfaction, and keep your costs as low as possible. All with a single upgrade.

Upgrade your MAGNETOM ESSENZA to our latest syngo platform.
Upgrade your MAGNETOM ESSENZA makes everyday scanning much easier – and your clinical results even more reliable. It improves your workflow and helps you consistently achieve excellent clinical results – by facilitating higher patient throughput and increasing efficiency to meet and exceed the break-even point of your upgrade investment.

With the MAGNETOM ESSENZA Tim+Dot upgrade, you get a highly innovative system that has a continuous upgrade path into the future. And with syngo Evolve, you are automatically part of it.

Increase your patient volume. With Tim+Dot.
1 The statements by Siemens' 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.

2 Data on file; results may vary.

3 Systems covered by a Siemens Service Contract Performance Plan TOP.

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