

SIEMENS



Leading.
With
MAGNETOM.

www.siemens.com/MAGNETOM-ESSENZA-UPGRADE

Upgrade your MAGNETOM ESSENZA.

Established 1.5T performance. With Tim+Dot.

Answers for life.

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

“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*

“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*

**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.



Loading. 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



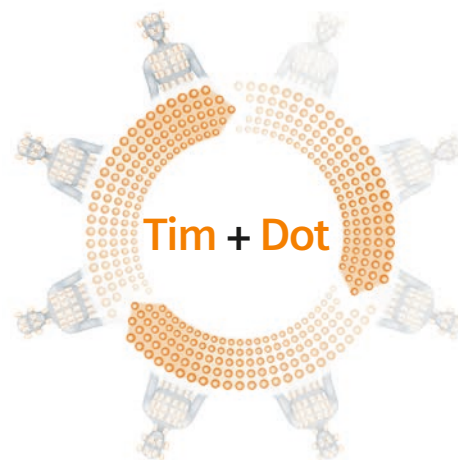
More confidence. Through sustainable value.

- 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.¹
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.

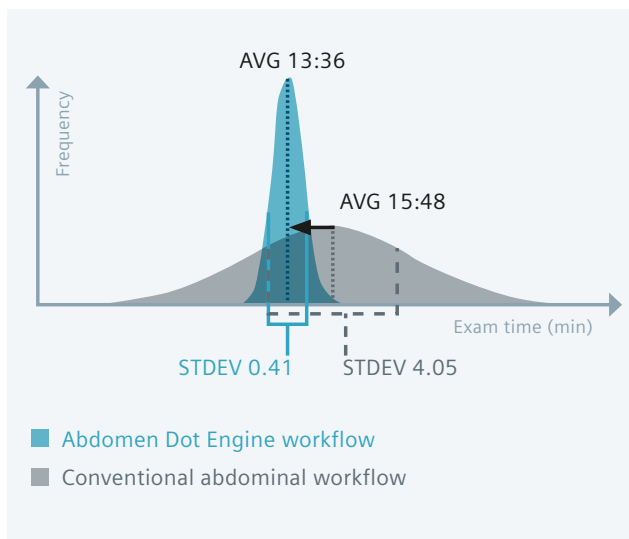


Dot is a new way of scanning in MRI – a better way. Dot scanning uses a suite of customizable engines – allowing the user to personalize exams according to patient needs, build in step-by-step user guidance, and automate MRI exams – either “out of the box” or based on the institution’s standards.

Your benefits:

- Increased consistency and reproducibility
- Greater ease of use
- Higher productivity

Make complex exams routine *

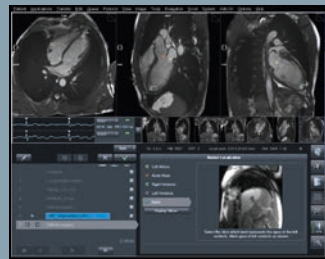


Reduce the average exam time in abdominal imaging by more than 10%.

* With the Dot Productivity Pack. Exclusively available for MAGNETOM ESSENZA – a Tim+Dot system. The Dot Productivity Pack consists of the Knee Dot engine, Angio Dot engine, and the Abdomen Dot engine.

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.



Cardiac Dot Engine⁴

- Up to 50% increase in patient throughput¹
- Consistency in slice positioning for reliable image quality across multiple exams
- Ease-of-use helps bring cardiac MRI into your clinical routine



Brain Dot Engine

- Up to 20% higher throughput and faster reading²
- Reproducible positioning and standardized image quality
- Consistent exam duration and more efficient scheduling



Angio Dot Engine⁴

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



Abdomen Dot Engine⁴

- Up to 28% better timing accuracy²
- Consistent image quality for even complex abdomen examinations



Knee Dot Engine⁴

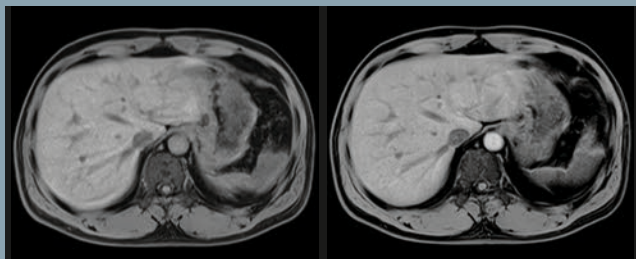
- More consistent image quality
- Faster and easier-to-use 3D workflows
- Improved evaluation of soft tissue in proximity of orthopedic MR-conditional metal implants, due to less susceptibility artifacts with syngo.WARP³

More applications.

From head to toe.

CAIPIRINHA

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

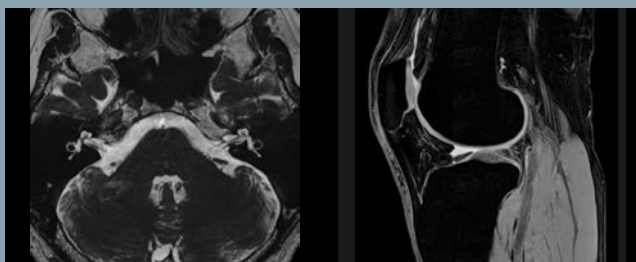


Standard 3D VIBE DIXON sequence with GRAPPA 2, acquired in 20 s

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

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.

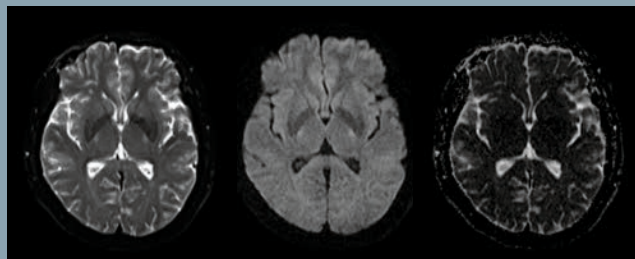


3D CISS thin MIP, Inner Ear

3D DESS water excitation

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.



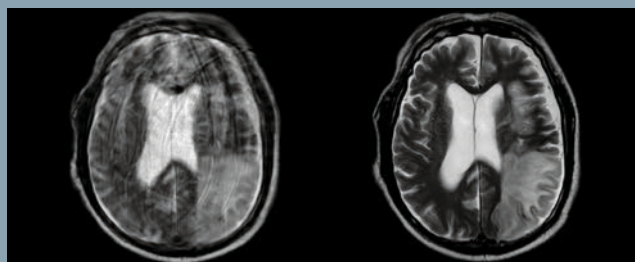
Diffusion b-value 0

Diffusion b-value 1000

Automatically calculated ADC map

syngo BLADE

Robust, motion-insensitive imaging for excellent results.



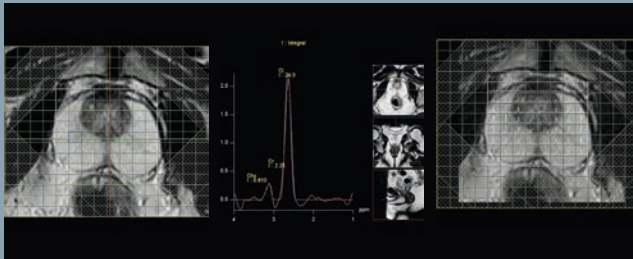
T2 TSE with severe motion artifacts in an acute stroke patient

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 CSI⁴

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



Measured grid

Evaluation of
elected voxel

Spectral map

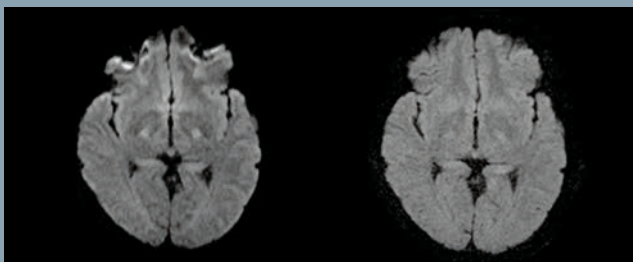
syngo TWIST⁴

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



syngo RESOLVE⁴

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

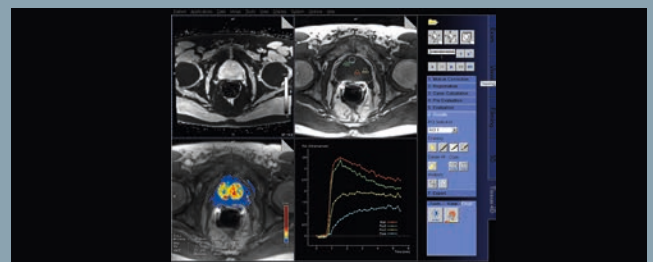


Standard single-shot
EPI, b-value 1000

syngo RESOLVE,
b-value 1000

syngo TISSUE 4D⁴

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



More confidence. Through sustainable value.

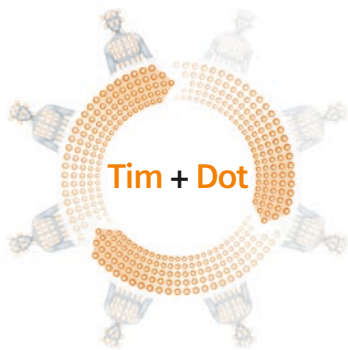
Your MAGNETOM ESSENZA already provides excellent value in terms of image quality, reliability, and profitability. Upgrading your established performer with Dot technology and a new software platform will increase this value for years to come.

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.

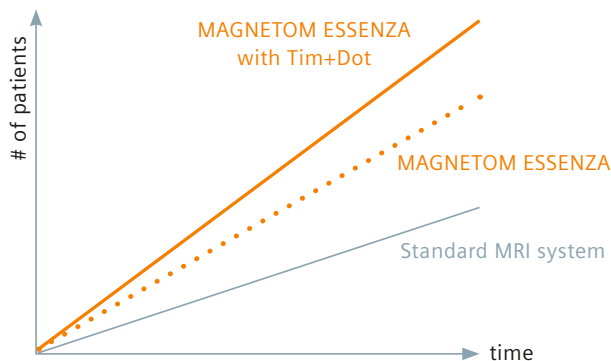
Broaden your clinical scope by accessing new acquisition techniques like CAIPIRINHA. Optimize your entire MRI workflow with new technologies like Dot. You will increase the quality and productivity of your MRI exams, improve staff and patient satisfaction, and keep your costs as low as possible. All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



Upgrade your MAGNETOM ESSENZA to our latest *syngo* platform.



Increase your patient volume. With Tim+Dot.



Upgrading 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.



Upgradeability. With MAGNETOM.

Images courtesy of:
People's Hospital, Shenzhen, P. R. China
Zhongshanyi Town Health Centre, Guang
Zhou, P. R. China
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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 The MRI restrictions (if any) of the metal implant must be considered prior to patient undergoing MRI exam. MR imaging of patients with metallic implants brings specific risks. However, certain implants are approved by the governing regulatory bodies to be MR conditionally safe. For such implants, the previously mentioned warning may not be applicable. Please contact the implant manufacturer for the specific conditional information. The conditions for MR safety are the responsibility of the implant manufacturer, not of Siemens.

⁴ optional

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