GE Healthcare

Skyrocket your MR performance.

SIGNA™ Voyager
Imagine what MR can be.
Redefine
the limits of what’s possible.

Enter a whole new realm of possibility in MR with the SIGNA™ Voyager.

Fueled by SIGNA™Works, our latest productivity platform, this system is designed to maximize productivity and workflow while delivering extraordinary clinical potential and exceptional patient comfort. And it has one of the smallest footprints and lowest power consumptions in the industry for a 1.5T wide bore system.

Get ready to experience MR excellence like never before.

SIGNA™ Voyager: Skyrocket your MR performance.
Outclass
with exceptional image quality.

Total Digital Imaging...
a total imaging win.

Experience the unique advantages of Total Digital Imaging (TDI) with SIGNATM Voyager. TDI helps deliver consistently sharper images than conventional MR systems with higher SNR, superior homogeneity and uniformity. TDI consists of three components:

**Digital Surround Technology (DST)** combines the superior SNR and sensitivity of the high-density surface coils with the superior homogeneity and deeper signal penetration of the integrated RF body coil, to deliver richer, sharper, higher quality images.

**Direct Digital Interface (DDI)** employs a separate analog-to-digital converter to capture and digitize every input from each of up to 65 RF channels, to vastly improve SNR.

**Digital Micro Switching (DMS) technology** replaces analog blocking circuits with intelligent Micro-Electro-Mechanical Switches (MEMS), to enable ultra-fast coil switching times for further expansion of zero TE imaging capabilities.

In addition to TDI, the SIGNATM Voyager includes novel Ultra High Efficiency (UHE) Gradient technology, a leap forward in the gradient technology curve, generating shorter TR and TE values to deliver speed and exceptional image quality.

**SIGNATM Voyager**: Skyrocket your clinical potential.
SIGNA™ Works
fueling the future of MR
Our new SIGNA™Works productivity platform redefines productivity across the breadth of our core imaging techniques with solutions. The SIGNA™Works standard applications portfolio is an extensive set of high quality and efficient imaging capabilities that enables you to achieve desired outcomes across your entire practice area.

The SIGNA™ Voyager comes pre-loaded with the SIGNA™Works standard applications as a fully integrated solution. It’s value-added technology that’s upgradeable and can be customized further, giving you the flexibility to add applications to suit the needs of your growing practice.

SIGNA™Works takes full advantage of TDI (Total Digital Imaging), further advancing diagnostics and increasing throughput, while simultaneously improving patient outcomes and your ROI.
Energize

Phenomenal exams to meet your clinical needs.

The SIGNA™Works standard applications portfolio contains NeuroWorks, BodyWorks, CVWorks, OrthoWorks, OncoWorks and PaedWorks. These imaging solutions cover a wide variety of contrasts, 2D and 3D volumetric data, including motion correction capabilities.

**NeuroWorks**

This one-stop solution of neuro techniques enables you to image brain, spine, vascular and peripheral nerve anatomy with exceptional tissue contrast. These motion-insensitive techniques feature single-click auto alignment, providing the complete neuro solution from scanning to post processing.

**BodyWorks**

With BodyWorks, we address one of the fastest growing areas in MR. This all-inclusive library allows you to image abdominal and pelvic anatomy with user flexibility to adapt to different patient types.

**CVWorks**

With our intuitive cardiac techniques, you can access morphology, function, and flow, plus gain crucial insights into vascular structure. Plus, you have the flexibility to adapt to different patient types with exams that vastly simplify workflow.

**OrthoWorks**

This extensive library of musculoskeletal imaging techniques enables you to image bone, joint and soft tissue with remarkable tissue contrast.

**OncoWorks**

This broad library of techniques captures anatomic and morphologic data to uniquely enable oncological assessment of anatomy. OncoWorks includes robust tissue contrast, motion-insensitive, high temporal and spatial resolution imaging.

**PaedWorks**

Delivers exclusive and distinctive imaging techniques that provide ease of use for the user and clinical excellence for your smallest, most fragile patients.
Offer your patients freedom from breath-holds, needles and the need to lie statue still during an MR exam with our Breathe-free, Needle-free and Motion-free suite applications.

**ImageWorks**
ImageWorks boosts your overall MR performance through automation and automated post-processing capabilities. RENdove visualization and MAGiC one-and-done scanning help ensure consistent and clear results.

**SilentWorks**
SilentWorks is GE’s most advanced noise-reducing technology and strengthens our promise to transform the patient experience. Traditional exams can be as loud as a rock concert, but our innovative SilentWorks technology reduces sound levels to roughly the same as ambient noise.

**FreedomWorks**
FreedomWorks offers your patients freedom from breath-holds, needles and the need to lie statue still during an MR exam with our Breathe-free, Needle-free and Motion-free suite applications.

**SIGNA™ Voyager with MAGIC.**

**Expand**

**Broaden your areas of expertise.**
Take your expertise to the next level when you move beyond the standard with SIGNA™ Works innovative applications such as ImageWorks, SilentWorks and FreedomWorks. Improved image quality, higher efficiency and a more streamlined workflow help you perform better than ever before.

**One and Done imaging**
The secret of MAGIC (MAGnetic resonance image Compilation) lies in its unique ability to generate multiple image contrasts in a single MR scan. We call this One and Done imaging and it delivers MR imaging that goes faster, further and deeper than conventionally possible.

**Faster**
With MAGIC you can acquire multiple image contrasts including T1, T2, T2 FLAIR, T2 FLAIR, FLR, PSIR and PD weighted images of the brain in a single acquisition, in as low as 5 minutes.

**Further**
With MAGIC dramatically cutting down the time required for a basic scan, you now have the freedom to add on advanced imaging such as DTI & 3D ASL, without increasing the total examination time.

**Deeper**
MAGiC also allows you to change image contrasts after acquisition, with simple adjustments so you never have to worry about acquiring the wrong contrast. You can go further to generate image contrasts that were previously not possible or practical with conventional imaging such as very long TR for superior CSF visualization or ultra-high T1 weighting.

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Conventional MR

6 scans are needed to deliver 6 contrasts.

Exam time increases with the addition of advanced sequences.

Additional sequences required to acquire parametric data, further increasing exam time.

MAGiC MR

One scan delivers 6 contrasts.

Exam time not increased. Time saved with MAGiC allows for addition of advanced sequences such as DTI, ASL, SWAN, spectroscopy and morphology without increasing exam time.

Parametric T1, T2 and PD maps available by default with every MAGiC scan. No increase in exam time.

Faster.

Further.

Deeper.
Speed and simplicity

Besides revolutionary MAGIC technology that delivers multiple contrasts in one scan, SIGNATM Voyager has a host of features to speed up and simplify imaging.

Turbo LAVA/LAVA Flex features enable faster body imaging and up to 47% shorter breath-holds, with multiple phases in a single breath-hold so that each scan is done right the first time.

DISCO (Differential Sub-sampling with Cartesian Ordering) technology makes advanced body imaging with MR as simple as CT, enabling simultaneous high spatial and temporal resolution imaging of the entire liver, breast and prostate, and delivering an entire 3D volume in as little as 3 seconds.

AutoFlow efficiency

SIGNATM Voyager’s AutoFlow suite of features makes workflow easier and more efficient than ever:

**READYView**: image review and analysis platform that reduces number of clicks through automation and enables advanced visualization of multi-parametric data with ease.

**Auto Protocol Optimization**: simplifies and automates breath-hold imaging, making it easier for operators, while enhancing reliability of image quality and exam duration, regardless of patient profile.

**Auto Navigators**: delivers real-time robust free breathing respiratory motion compensation to streamline routine and advanced body imaging. They are compatible with DISCO, Turbo LAVA, Turbo LAVA Flex and GE’s entire body imaging suite.

**Pause and Resume**: eliminates the need to redo scans or retrace your steps, giving you greater flexibility to respond to patient needs mid-scan.

**AutoFlow**

IntelliTouch touch-and-go landmarking, Auto Guidance and GE’s famously simple setup with dual touch screens further enhance workflow efficiency and imaging reliability.

**SIGNATM Voyager**: Skyrocket your MR productivity.
Multiply your ROI

SIGNA™ Voyager is designed to multiply your ROI to remarkable levels. With one of the smallest mechanical footprints of any wide bore 1.5T MR system in the industry, the SIGNA™ Voyager substantially lowers setup cost. And with one of the lowest power consumption levels in the industry, it ensures you keep operating costs surprisingly low.
Experience a new standard of patient comfort with SIGNA™ Voyager.

**SilentWorks**

GE’s proprietary SilentScan technology dramatically reduces scanning noise from an ear-splitting, motorcycle level of 91dB to within 3dB of scan room ambient noise. It includes a Silent Neuro Package with Diffusion Weighted Imaging (DWI), enabling a complete silent neuro exam, and an expanded Silent feature that also covers spine and musculoskeletal imaging.

**FreedomWorks**

SIGNA™ Voyager makes scanning a worry-free experience for patients. Our wide Comfort Plus table with low height and open 70cm design allows patients to rest freely while offering easy access and a comfortable scanning experience.

**Breathe-free:** Patients can breathe freely because our Auto Navigator technology is compatible with Turbo LAVA, Turbo LAVA Flex and DISCO to enable complete body exams without a single breath-hold.

**Motion-free:** With advanced 3D motion correction technology such as 3D PROMO for neuro imaging and GE’s signature PROPELLER for head-to-toe 2D motion correction, we help eliminate the need for patients to lie motionless throughout the scan, making scanning less stressful for the patients.

**Needle-free:** For non-contrast MR exams, we offer needle-free imaging capabilities which eliminate the pain of needles and the cost of contrast. Whether it is a routine MR angiography study with our Inhance 2.0 Suite or advanced imaging such as liver fat-fraction mapping with IDEAL IQ or brain perfusion imaging with 3D ASL, SIGNA™ Voyager enables complete non-contrast MR exams.

**SIGNA™ Voyager:** Skyrocket patient comfort.
GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care. Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services help our customers to deliver better care to more people around the world at a lower cost. In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

Imagination at work