GE Healthcare

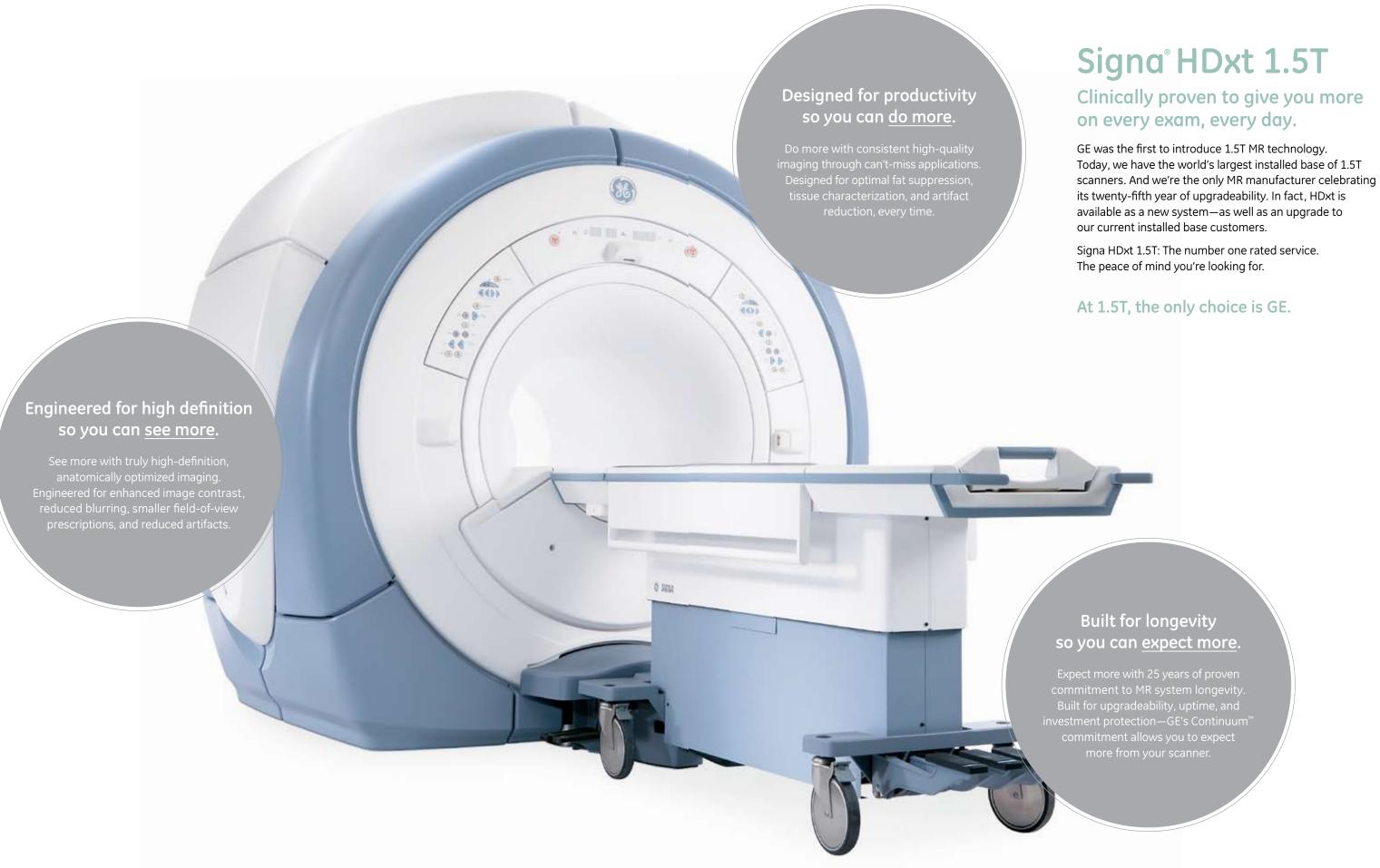




Expect More

You've been heard. When you want more out of your MRI scanner, GE listens. And when you demand more accuracy, more productivity, and more support, GE delivers. Built on the high definition platform you know and trust, Signa® HDxt offers an MR System that allows you to see more, do more, and expect more than ever before.

Introducing Signa HDxt 1.5T, the next generation in High-Definition MR.



See More

Engineered for high-definition, anatomically optimized imaging

The Signa® HDxt 1.5T is engineered from end-to-end to allow you to see more. With GE's high-density coils, data acceleration technology, and high-definition applications optimized for each anatomical area, GE can deliver images with the enhanced contrast, clarity, and accuracy you need.

Premium Performance

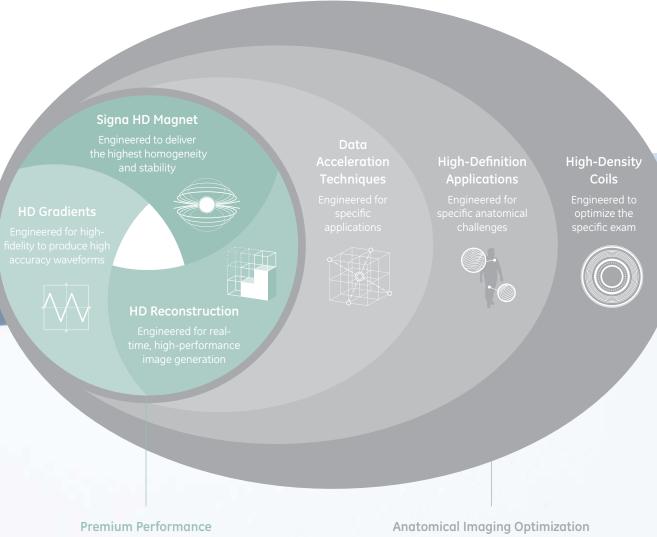
Signa HDxt 1.5T starts with a foundation of high-performance components, whose integration enables superior imaging capabilities that aim to bring you the clearest, crispest images possible.

Anatomical Imaging Optimization

sequences, it is the sum total of our system.

And the best part? GE has done the tweaking for you. Every component has been specifically designed to deliver more detail and more clarity, without compromise.

The Signa® HD MR Imaging Model



Neuro Imaging

GE's advancements in neuro imaging continue with the delivery of high-definition 3D sequences for early detection and GE-exclusive motion correction. In short, Signa® HDxt 1.5T is a natural for neuro.

PROPELLER HD™

Correct for motion artifacts and enhance tissue contrast without compromising image resolution or prolonging scan time—and reduce susceptibility artifacts to clearly visualize small or subtle lesions. Generate consistently excellent images with less retakes and less need for sedation, even on restless kids, patients with tremors, or metal implants.



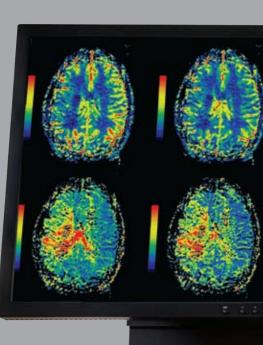
High-Density Head-Neck-Spine Array

Image the head, neck, and spine without changing arrays or repositioning the patient. And, do it with high definition.



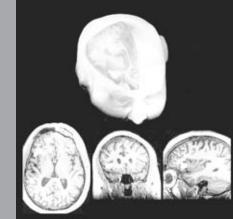
BrainSTAT

BrainSTAT is a postprocessing tool for evaluating blood distripution patterns in the prain tissue. With BrainSTAT, clinicians can get a more objective assessment of pathology.



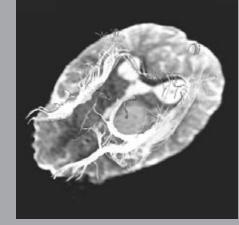
BrainWave

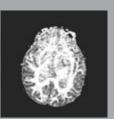
A suite of applications for neurofunctional brain mapping. Includes a robust acquisition sequence, easy-to-administer paradigms and complete post-processing and visualization tools. BrainWave Fusion integrates an eloquent cortex map and DTI white-matter trajectories with a high-resolution 3D anatomy



DTI/FiberTrak

Visualizes white matter trajectories in the brain, generates color-coded directional fractional anisotropy maps, or 3D white matter fiber trajectories co-registered with the high-definition 2D or 3D anatomic data set.







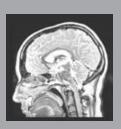
Cube™ with ARC™

A GE-exclusive, Cube replaces several slice-byslice, plane-after-plane 2D acquisitions with a single 3D volume scan—providing you with T2, T2 FLAIR, or PD contrast. Easily reformat sub-millimeter isotropic volume data from a single acquisition into any plane without gaps and with the same resolution as the original plane.

ARC is an innovative, auto-calibrating, datadriven, parallel imaging method designed to reduce scan time and streamline reconstruction with high accuracy. In addition, it enables smalle fields of view during prescription, as compared to currently used parallel imaging techniques.

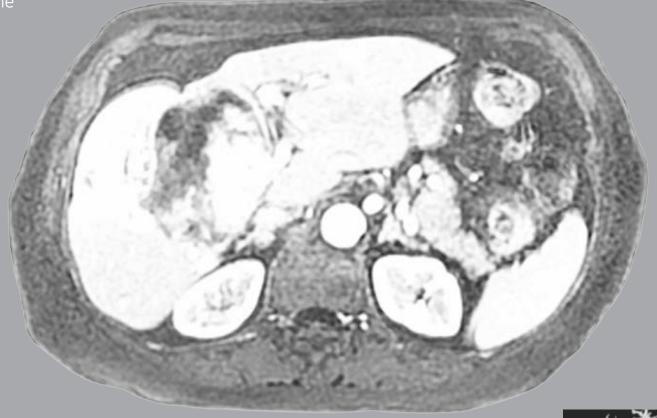






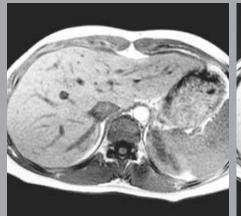
Body Imaging

Get the whole picture with GE's comprehensive MR body imaging solutions—an array of advanced tools designed to meet the needs of you and your patient.

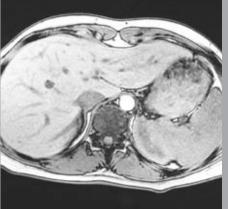


3D Dual Echo

3D Dual Echo produces perfectly registered, in-phase and out-of-phase images in a single breath-hold—and eliminates inter-slice gaps that could compromise small lesion detection.

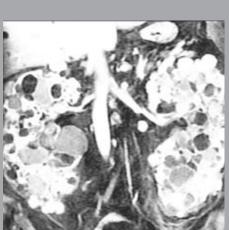




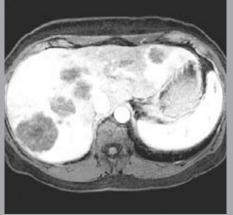


LAVA and LAVA-XV

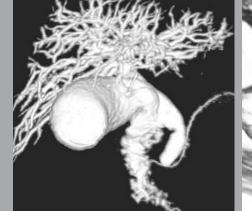
LAVA acquires whole-organ coverage at high resolution in short breath-holds, while LAVA-XV provides whole abdominal coverage with the same superior fat suppression and resolution.





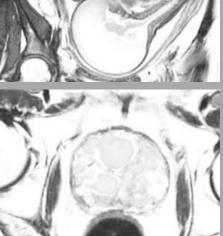








This 3D technique allows for multi-planar reformats, and the volumetric images can be manipulated to see behind overlapping structures



DWI

DWI provides high sensitivity and easy interpretation of images with background suppression. Color or grayscale ADC map are generated, with dark blue or black indicating restricted diffusion.



FIESTA provides images with very high signa to-noise in scan times as short as 60ms. FIESTA is also equipped with an optional fat suppression pulse to mitigate bright signal from fat



HD Body Array

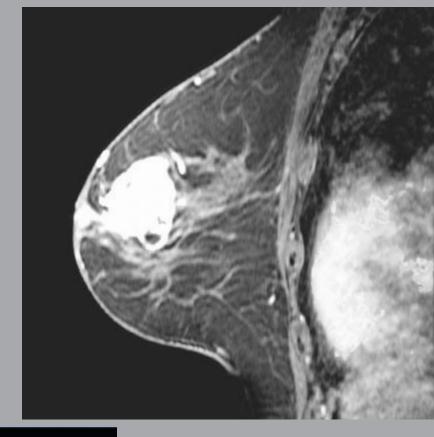
Available in 8-channel and 12-channel configurations, this high-density design is optimized for parallel imaging, superio image quality, and short scan times.

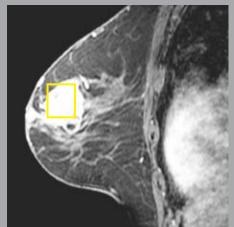
Breast Imaging

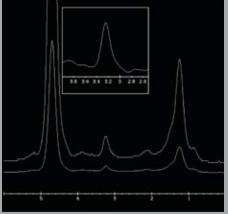
Not all breast MR needs are the same and neither are all breast MR imaging solutions. With applications and tools designed specifically for breast MR, GE offers you the most complete portfolio.

VIBRANT

VIBRANT lays the foundation with the highest combined spatial detail and scanning speed with bilateral shimming for excellent uniform fat saturation. No trade-offs between high spatial and high temporal resolution. Scan both breasts in one fast exam for increased patient comfort and convenience.



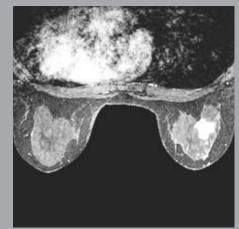


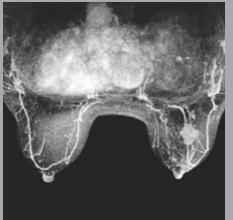


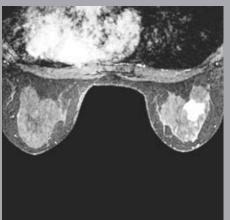
BREASE™ & CADstream

BREASE enhances diagnostic confidence by improving the ability to characterize lesions and monitor response to therapy. It is a breast specific, single-voxel spectroscopy application designed for ease-of-use and visualization.

CADstream automatically generates the postprocessed series and identifies the most suspicious washout curves. Sureloc, included with CADstream, enables point-of-procedure control for MR-guided biopsies from the HDxt console.







High-Density Breast Array

The high-density, 8-channel HD Breast Array provides high SNR, excellent parallel imaging acceleration, and access for biopsy procedures

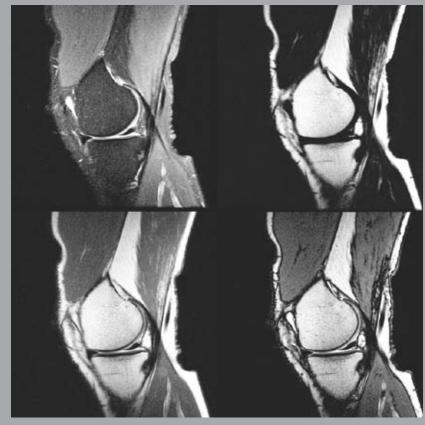


MSK Imaging

With a technique that allows you to scan once and get multiple contrasts—water only, fat only, in-phase, and out-of-phase— and delivers virtually infallible fat suppression, Signa® HDxt 1.5T makes no bones about capturing musculoskeletal anatomy like you've never seen it.

IDEAL

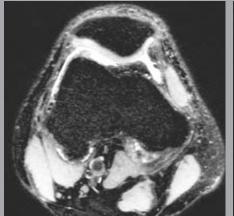
This unique fat/water separation technique provides multiple contrasts from one acquisition for consistent, uniform fat suppression virtually every time—patient to patient, technologist to technologist.



HD Shoulder Array Images









Cube™ with ARC™

A GE-exclusive MR imaging technique, Cube replaces several slice-by-slice, plane-after-plane 2D acquisitions with a single 3D volume scan utilizing state-of-the-art imaging acceleration technique, ARC. Easily reformat sub-millimeter isotropic volume data from a single Cube acquisition into any plane—without gaps, and with the same resolution as the original plane.





CartiGram™

CartiGram is a non-invasive imaging method to assess articular cartilage integrity, detect early cartilage degeneration, and non-invasively monitor patient progress. It allows better visualization of collagen fiber network loss or degradation that translates into focal T2 increase.

High-Density Coils

HD Wrist Array

The HD Wrist Array is an 8-channel phased array design that is optimized for parallel imaging.

HD Knee Array

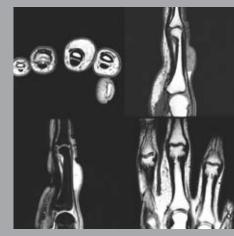
Tapered to the knee for superb SNR performance, the HD Knee Array's 8-channel, 9-element phased array design virtually eliminates aliasing artifacts for superior, high resolution imaging.

HD Foot and Ankle Array

ASSET parallel imaging and produces exquisite images of the structures of the foot and ankle. The design also provides fast and easy set-up.

with Concentric Technology

vative concentric coil design by GE that provic improved coverage, while also improving SNR penetration. It also is optimized for off-center



Cardiac & Vascular Imaging

Advanced vascular techniques that provide high-definition results without temporal tradeoffs coupled with the ability to deliver comprehensive cardiac studies. Signa® HDxt 1.5T takes cardiac

FGRE



TRICKS-XV



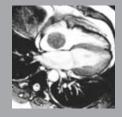


FIESTA

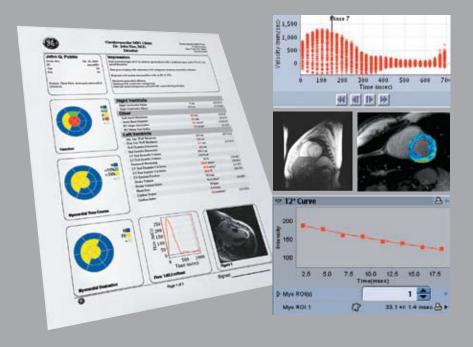
MR ECHO



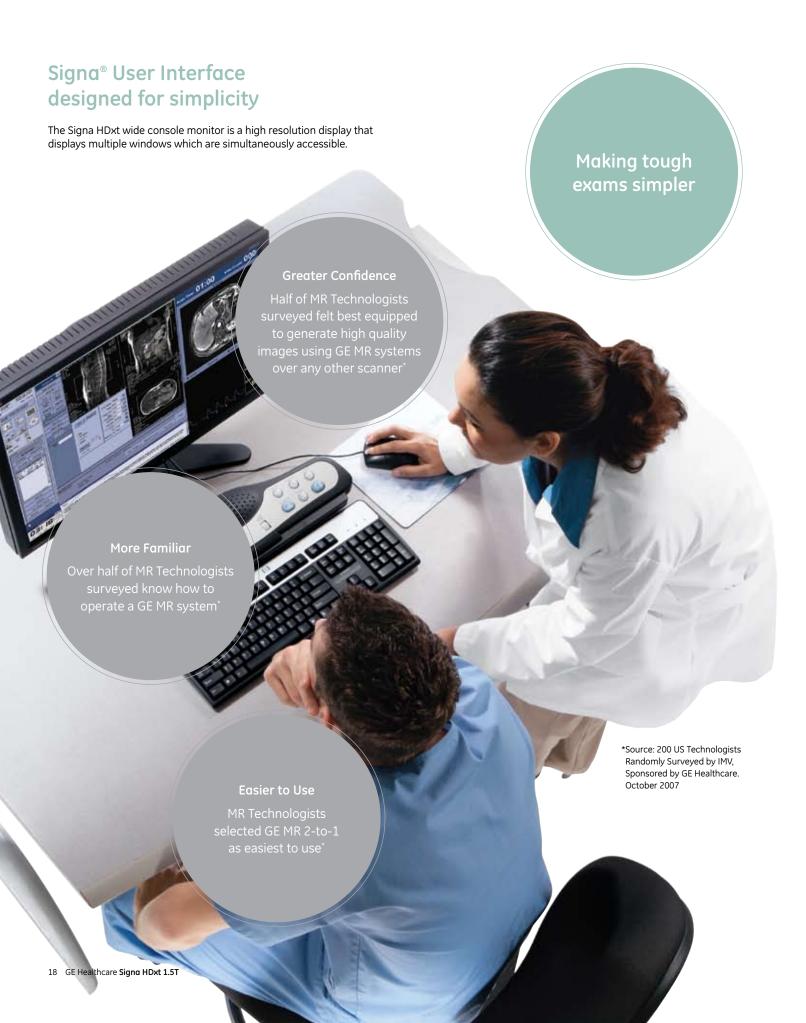
HD Cardiac Array



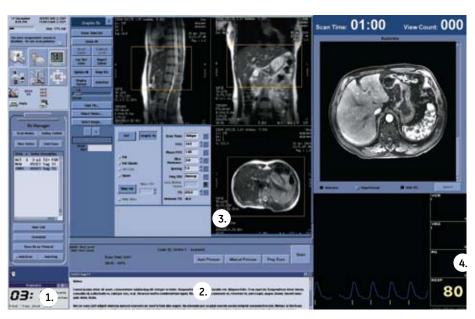
ReportCard, Flow Analysis,



Do more Can't-miss software applications designed for Designed for consistency and simplicity imaging consistency to enhance your productivity In the era of increasingly complex exams, simplicity and consistency are more important than ever before. Productivity starts with intelligent tools for "can't-miss" imaging, time after time, no matter how difficult the exam or challenging the patient. Productivity continues to improve with the industry's only MR system with a detachable table—the Liberty™ Docking System—that enables you to comfortably prepare your next patient while you're still scanning the current one. And productivity expands even more with the industry's best known and easiest-use user interface. IDEAL **Consistent imaging** for every exam, every patient, every time PROPELLER HD™ TRICKS GE Healthcare Signa HDxt 1.5T 17 16 GE Healthcare Signa HDxt 1.5T



User Interface Console & Wizard Guides



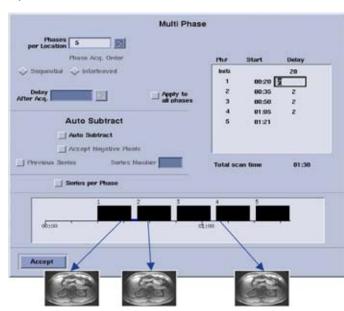
- **1.** Easy access to timing screen.
- 2. Protocol notes allow you to permanently load physician preferences and protocol information to ensure imaging consistency.
- **3.** Auto TR eliminates time spent finding the lowest TR depending on prescribed slices.
- 4. Gating and triggering screen is easily visualized, eliminating the need to change screens when evaluating waveforms.

ProtoCopy



- Copy a protocol after the scan has been completed
- Share between multiple-facilities or centers with a mouse click

DynaPlan



- Optimize your breast or abdomen delay times
- Subtraction, mask-phase and unique time delays are optimized for even the most unique protocols
- Preferences are permanently stored, simplifying future use

Liberty™ Docking System: more than a table



Expect more

Built for upgradeability, uptime and investment protection—it's all about system longevity

With ever increasing operational costs and the need to stay technologically current, you need a strategic vendor who continuously provides for you.

The GE MR mission: flexible systems with a future. The upgradeability benefits from GE are unmatched. It starts with a proven 25-year continuum that's driven by a magnet designed for longevity and seamless upgradeability. It continues with the easy-to-incorporate breakthrough applications and system enhancements that keep customers current in today's ever changing and increasingly competitive market. Rest assured, your investment is always protected.

Wherever you are from wherever we are, your Signa® HDxt 1.5T is supported by the world's most advanced portfolio of MR service and asset management tools, so you reap all the benefits of GE MR ownership. Maximized uptime. Optimized accuracy and consistency. Higher productivity. Better patient care. And true peace of mind.

Built for investment protection

GE introduced the industry's first short-bore 1.5T magnet. Manufactured in Florence, South Carolina, it's built for years of service and upgradeability—instead of replacement—to protect you from obsolescence.

A magnet built to last.

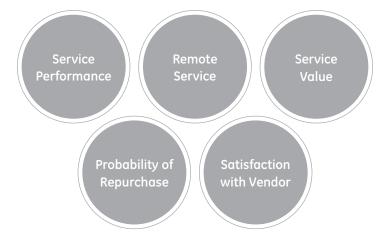
The industry's choice for reliability— not replacement.



Built upon an entire network to help you get the most out of your investment—from day one

The industry's number one ranked service team paired with GE training and consulting services can help you get the most out of your investment today and tomorrow.

More performance from the service team ranked number one* in the industry for:



More from your network

The Physician-Instructed MR Masters Series

The first of its kind in the industry—offering clinicians the widest selection of training and educating programs on MR technology and techniques.

The GE Healthcare Institute

Receive comprehensive hands-on training on your system at our dedicated educational facility.

TiP Virtual Assist

Combining expertise and convenience, live interactive applications training with remote trainers helps you get the most from your Signa HDxt 1.5T.

Onsite Training

Detailed, on-site training and consulting to help you grow clinical performance, referral power, and your bottom line.



^{*}Source: ServiceTrack™ Imaging Report 2007, MR Systems, IMV, Ltd. Greenbelt, MD. Survey exclusive to United States.

Built for a Continuum

GE has a proven 1.5T Continuum of upgradeability that for 25 years has enabled customers to expand the capability of their system with new surface coils, new software applications, or even new system platforms without replacing the magnet.

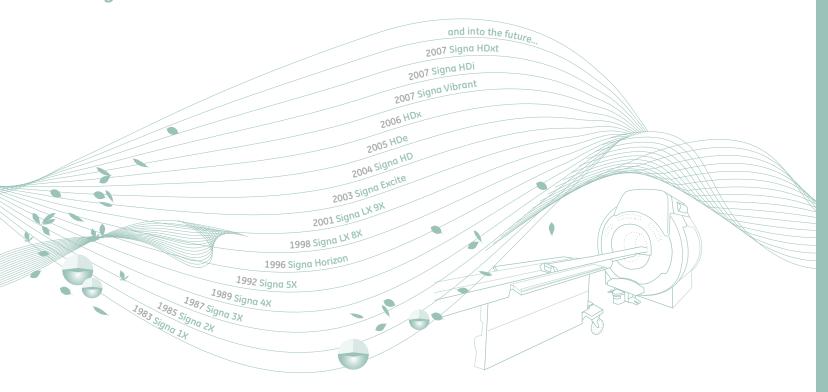
With platform upgradeability starting from any point, scalability is on your side.

Built for incorporation of the ContinuumPak, which are no-charge regular software releases with system improvements, and new software applications.

Easy-to-add breakthrough applications and new coil technology keep users technologically current in today's ever-changing and increasingly competitive market.



The Signa® Continuum



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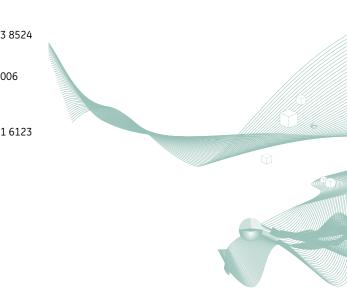
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Healthcare Re-imagined™

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world to discover new ways to predict, diagnose and treat disease earlier. We call this model of care "Early Health." The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest. Re-think, Re-discover, Re-invent, Re-imagine.

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