

NEWS BRIEF

At RSNA 2022, GE Healthcare is Showcasing a New Platform of Inventive Solutions that Bring Automation and Simplification, a Brand-New MRI System that Enhances Workflow Productivity, and additional Deep Learning image reconstructions that Help to Solve for Today's Healthcare Industry Most Pressing Needs.

The healthcare industry today is facing challenges around staff shortage and physician burnoutⁱ. In magnetic resonance (MR) specifically, there is a high demand for operational efficiency and simplicity, to manage the high volume of non-urgent backlog scans caused largely by the impact of COVID-19, radiologist shortages and today's growing disease burdenⁱⁱ.

In response to these pressing needs, GE Healthcare is announcing new and efficient solutions that will help to address these issues, bringing to the healthcare industry productivity, efficiency, and simplicity.

SIGNA Experience

The SIGNA experience is an outstanding platform of four inventive components that help users through the diagnostic journey. This integrated collection works together to ensure the smoothest scanning experience possible for both the physician and the patient.

- **SIGNA One** is the cornerstone of this platform– a next generation intuitive user interface (UI) and imaging software platform offering operational efficiency.
- **AI/Deep learning** solutions – pioneering, deep-learning AI applications, such as AIR Recon DL for improved signal-to-noise ratio (SNR), image sharpness and shorter scan time.
- **Workflow solutions** – automated, intelligent workflow technology including AIR x and AIR Touch that guide technologists to make magnetic resonance imaging (MRI) scan set up fast and easy.
- **AIR Coils** – industry leading technology in coils which are flexible, lightweight, and comfortable, enabling total freedom in coil positioning and handling during an MRI scan.

Operational efficiency is the fastest growing challenge faced by radiology departmentsⁱⁱⁱ. **SIGNA One** delivers greater workflow productivity with an intuitive interface. This modern user experience is consistent with the day-to-day interactions that operators experience with devices like their computers, phones, and tablets, and it provides them with some of those same interactions. The benefits of this UI to users are that it enables:

- **Intuitive** workflow for all experience levels – novice to most experienced – with no learning curve.
- **Efficiency** and flexibility in design, to accommodate for future expansion. As GE Healthcare develops more AI and workflows, SIGNA One will allow for these capabilities to be added to existing systems.
- **Simplification** with guidance to streamline workflow and optimize throughput.
- **Intelligent** automation and communication to eliminate complexity.

GE Healthcare at RSNA 2022 Magnetic Resonance

SIGNA Victor

At RSNA 2022, GE Healthcare is proud to unveil SIGNA Victor^{iv}, the newest 1.5T 60cm system. SIGNA Victor is a powerful and efficient solution designed to address today's most pressing and unprecedented industry challenges such as sharp increase in MR examinations driven by the stalled pandemic demand, surging power & commodity costs, and labor shortage & staff burnout.

Beyond the benefits of a GE Healthcare 1.5T MR system, SIGNA Victor boasts these features:

1. **High productivity system** – fast ROI, greener operations than previous systems (high performance specifications, small system footprint that allows installation in smaller rooms, over 10% lower power consumption compared to previous generation system, latest generation magnet technology which enables 70% less helium consumption, AI solutions to increase productivity).
2. **Designed to address high patient volumes and shorten patient backlog** without compromising patient comfort or satisfaction and exam quality.
3. **Includes SIGNA One** - a new user interface which helps address labor shortage and staff burnout with user centered workflow design that enables beginner and less experienced MR users to be proficient immediately as there's no learning curve.

To help customers achieve business success, SIGNA Victor is designed with high performance specifications such as a competitive gradient strength and the highest number of radio frequency (RF) channels in its class, allowing rapid & comfortable patient setup & scanning particularly for examinations that require large anatomical coverage. The system also has AI enabled solutions (such as AIR Recon DL and its extensions) and efficient helium & power consumption that can support higher patient throughput and lower costs which leads to faster ROI.

With integration of the new SIGNA One user interface and AI solutions, GE Healthcare addresses labor shortage and burnout with easy on-boarding of technologists, with less (or even no) experience of MR. This provides for optimization in staffing, patient throughput and income. Additionally, the system has advanced capabilities to do examinations that are typically done in higher-end systems, enabling technologists to perform 15-minute Prostate Imaging Reporting and Data System (PIRADS) exams, one-stop orthopedic exams / bone imaging (typically done on CT scanners), high-resolution & small field-of-view applications such as neuro examinations on small & eloquent structures in the brain & central nervous system, and orthopedic scanning on small limbs such as fingers. The system also has features focused on patient comfort (such as AIR Coils) and features that make the exam time shorter, meaning less time for the patient in the room and particularly in the bore.

SIGNA Victor is designed to be GE Healthcare's highest performing system in its class with a combination of all these features:

- **Greener and efficient operation** (small 24m² footprint, 70% less helium consumption, over 10% less power consumption) without compromising performance specifications.
- **64 RF channels** providing **efficient coil combinations**, enabling fast and comfortable patient setup & scanning, particularly for applications that require large anatomical coverage (Whole spine, Brachial plexus, whole body, etc.)
- **First GE Healthcare 1.5T 60cm system compatible with AIR Coils** providing superior patient comfort in its class.
- **AIR Recon DL and its extensions.**

GE Healthcare at RSNA 2022 Magnetic Resonance

- The new **SIGNA One** - an intuitive and anticipatory user interface designed to lessen the workflow burden for beginner and expert users alike.
- **Wide-bore ready** – can be upgraded to wide-bore system without changing the magnet

AIR Recon DL 3D and PROPELLER

GE Healthcare also recently announced US FDA 510(k) clearance of its breakthrough AIR Recon DL for 3D and motion-insensitive PROPELLER imaging sequences. AIR Recon DL is GE Healthcare's pioneering deep-learning based reconstruction algorithm that improves SNR and image sharpness, enabling shorter scan times. The benefits of AIR Recon DL are extended by these new features to nearly all GE Healthcare MRI clinical procedures, covering all anatomies and enabling better image quality, shorter scan times, and enhanced patient experience.

3D imaging provides for more **clinical efficiency**, allowing radiologists to eliminate the need for multiple 2D acquisitions - potentially leading to **faster diagnosis**. Additionally, AIR Recon DL is now compatible with PROPELLER, a motion-insensitive imaging sequence particularly important for anatomies susceptible to motion such as pediatric and neurodegenerative patients who have difficulty remaining physically still for the duration of an MRI scan. As a result, physicians can get **sharper images** without the need for repeat scans – potentially translating to **faster patient throughput, improved scheduling, shorter exam time, and faster diagnosis**, helping to create an all-round better patient experience.

To date, AIR Recon DL has benefited nearly 5.5 million patients around the world^v, and feedback from clinical users has been overwhelmingly positive – including better SNR and better or equivalent image sharpness than conventional image reconstruction; better or equivalent lesion conspicuity; and up to 50% reduction in exam times, creating efficiency in workflow and increased productivity^{vi}.

Beyond its efficiency and productivity benefits to the industry, this upgrade enables previously installed scanners to refresh and function like new systems – allowing imaging facilities to enjoy the most advanced imaging capabilities on their existing systems, while saving on capital expenditure amid today's cost constrained environment.

+++

MEDIA CONTACT

Maureen Oladipo
Maureen.oladipo@ge.com
M: +1 229 418 4479

ⁱ AuntMinnie.com Biggest Threat to Radiology. 2022

ⁱⁱ GE Healthcare data on file

ⁱⁱⁱ GE Healthcare data on file

^{iv} SIGNA™ Victor is 510(k) pending in the U.S. FDA. Not CE Marked, not available for sale in all regions.

^v Estimated from global GE MRI systems with AIR™ Recon DL installed as of November 2022: average of 20 scans per day, 5.5 working days per week

^{vi} GE Healthcare data on file