



Bringing Ultra-High Field MR Imaging from Research to Clinical: SIGNA 7.0T FDA Cleared

November 10, 2020

Waukesha, WI – November 10, 2020 – GE Healthcare today announced U.S. FDA 510(k) clearance of SIGNA 7.0T magnetic resonance imaging (MRI) scanner, the world's most powerful FDA-cleared MRI device available. With a magnet approximately five times more powerful than most clinical systems, SIGNA 7.0T can image anatomy, function, metabolism and microvasculature in the brain and joints with incredible resolution and detail. This new system can be used for both research and clinical purposes to support a broad range of investigations across neurologic and musculoskeletal diseases.

[SIGNA 7.0T
IMAGE/JPEG - 3.62 MB](#)

"We were immediately impressed with the quality and stability of the SIGNA 7.0T system," said Michela Tosetti, PhD, Laboratory Director, IRCCS Stella Maris and Imago7 Research Foundations and professor, University of Pisa, who scanned on SIGNA 7.0T at GE Healthcare MR headquarters earlier this year. "We are keen to upgrade our system to this new configuration continuing our relationship with GE to realize the promise of this technology to meet our imaging goals."

With a powerful 7.0 tesla magnet at its core, SIGNA 7.0T combines a broad range of advanced technology, imaging methods, and years of GE Healthcare experience into a new imaging tool. The completely new SIGNA 7.0T features UltraG gradient technology, GE's most powerful whole-body gradient coil, to meet the demands of ultra-high field imaging speed and resolution, advanced diffusion, and functional brain imaging.

This system also features GE's latest SIGNAWorks software platform with state-of-the-art applications such as deep learning-based tools like AIR x brain for automated slice positioning and Silent MR imaging, enabling seamless protocol translation between GE MR systems. In addition, SIGNA 7.0T is equipped with Precision RF transmit and receive architecture to enable improved image quality and enable development in parallel transmit. This system also provides a unique platform for advanced knee and cartilage imaging, allowing for ultra-high-resolution anatomical visualization as well as research capabilities to measure quantitative changes in anatomy due to disease.

"We are thrilled to add SIGNA 7.0T to our portfolio," said Jie Xue, president and CEO of GE Healthcare MR. "This new scanner is a critical tool in research for neurological disorders like Alzheimer's disease and mild traumatic brain injury. Now clinicians will have access to the power of ultra-high field imaging combined with the ultra-high-performance gradients to translate research advances into new clinical diagnostic tools and potential treatment options."

About GE Healthcare:

GE Healthcare is the \$16.7 billion healthcare business of GE (NYSE: GE). As a leading global medical technology and digital solutions innovator, GE Healthcare enables clinicians to make faster, more informed decisions through intelligent devices, data analytics, applications and services, supported by its Edison intelligence platform. With over 100 years of healthcare industry experience and around 50,000 employees globally, the company operates at the center of an ecosystem working toward precision health, digitizing healthcare, helping drive productivity and improve outcomes for patients, providers, health systems and researchers around the world. *Follow us on [Facebook](#), [LinkedIn](#), [Twitter](#) and [Insights](#), or visit our website www.gehealthcare.com for more information.*

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