NEWS BRIEF

At RSNA 2022, GE Healthcare is showcasing its latest Ultrasound technologies, where some systems are leveraging the power of artificial intelligence to drive clinical confidence, enhance workflow productivity, and others are continuing to bring automation and simplification that helps new users inside and outside* the hospital enterprise to adopt the use of ultrasound.

bkActiv

bkActiv is real-time active imaging that takes intraoperative ultrasound to the next level and is tailored to the operating room, with features such as a simple, customizable user interface and compare modes that enhance the surgical workflow. bkActiv offers enhanced visualization with improved algorithms that automatically allow uniform image resolution, greater details around lesion borders and at larger depths, and enhanced penetration, spatial resolution, and near field image quality. Active imaging with bkActiv delivers high-resolution images and data-driven insights when it matters most—during the procedure.

LOGIQ Fortis

The new LOGIQ Fortis is an all-in-one, high-performing ultrasound solution that can easily be scaled to fit the specific needs of every clinician. The GE LOGIQ Fortis ultrasound is built to help users deliver on the promise of confident care in multiple clinical settings and is equipped with next-generation imaging technologies. cSound Architecture combines XDclear™ transducers, cSound™ Imageformer and new, advanced Speckle Reduction Imaging (SRI) technology to increase processing power that delivers enhanced data throughput, ultimately providing exceptional image quality, clarity and clinical confidence across a wide range of clinical applications. Tools such as 2D Shear Wave Elastography, Measure Assistant and Radiantflow™ help reduce the need for invasive procedures and provide valuable information for informed decision making.

Small and sleek enough to move to patients across departments and equipped with our most powerful technology, it is GE's affordable all-in-one solution. The LOGIQ Fortis was a runner up in the 2022 iF Design Awards, one of the most prestigious design competitions in the world.

Vscan™ Air* Fleet Solution

Today, healthcare organizations are demanding tools that allow them to manage their fleet of handheld ultrasound devices efficiently and securely, from end to end. The **Vscan Air Fleet Solution**, designed for hospitals, health systems and other large organizations, unlock enhanced value to customers, improving their usage of Vscan Air and further handheld ultrasound in general to a wider variety of users.

Vscan Air Fleet Solution, available through optional subscription, allows administrators to remotely manage and control an entire fleet of handheld ultrasound devices from one centralized, web-based

portal. The Fleet Solution also includes access to MyRemoteShare[1], a collaboration tool powered by Zoom Administrators. Through the Fleet Solution, administrators will be able to:

- **Register and manage** all Vscan Air Devices centrally
- **Seamlessly group devices** into Fleets and assign probes to specific departments
- **Set up DICOM destinations** per Fleet
- **Get more security and privacy**- ensure only authorized users can scan
- **Get complete visibility on usage and utilization** including where and when a probe was used, by which user, and manage assignments per department.

MyRemoteShare[1] makes it easier than ever to share information and collaborate remotely. Clinicians can securely connect with colleagues and educators in real-time with audio, video, and screen share capabilities, powered by Zoom. This feature can be used to:

- **Broadcast** Vscan Air App screen and video feed of the probe position to peers
- **Train** students; run ultrasound labs
- **Enable assistance** for community clinics/physician offices
- **Help in infectious disease scenarios**

Vivid Ultra Edition

Demand for cardiovascular ultrasound exams is high and will continue to increase with a mix of routine, follow-up and complex cases. By 2030, it is projected that 40.5% of the U.S. population is expected to have some form of cardiovascular disease[2]. Using advanced clinical capabilities typically requires extra effort and expertise, often resulting in delays and increased workload. Moreover, 90% of sonographers experience work related musculoskeletal disorders, costing employers $120m+ in direct and indirect costs[3]

The **Vivid™ E95 Ultra Edition** is a premium 4D cardiovascular ultrasound system, designed to provide uncompromised image quality, advanced visualization capabilities, and easy measurements, while helping reduce tedious tasks and inter-observer variability. **cSound Adapt** was developed to tackle the challenge of wave distortions and improve image contrast and resolution—optimized in real time, at over 100 times per second, in every patient[4]. AI-powered workflow tools like **Easy AUTOEF** and **Easy AFI LV** drive productivity by allowing clinicians to measure ejection fraction and

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[1] *The quality of the ultrasound image visible to the remote participant is dependent on the network connection and display device used by the participant and cannot be validated. MyRemoteShare is therefore not intended for diagnostic purposes.*

[2] *Healthcare Infrastructure and Procedural Volume for Ultrasound Imaging, Frost & Sullivan, 2018. Approx. 108.12 million echo exams are performed annually; Calculation based on 26% total global prevalence of CVD cases (422 million) undergoing echo exam; extrapolated from US study indicating roughly 26% of total prevalent CVD cases underwent echo exams percentage value validated from reports.https://www.prb.org/wp-content/uploads/2015/12/2015-world-population-data-sheet_eng.pdf*

[3] *Hundley WG, Kizilbash AM, Afridi I, Franco F, Peshock RM, and Grayburn PA, "Effect of contrast enhancement on transthoracic echocardiographic assessment of left ventricular regional wall motion," Am J Cardiol, vol. 84, no. 11, pp. 1365–1368, 1999.*

[4] *cSound Adapt: Continuous beamforming optimization, adapting to patient anatomy and probe position whitepaper - JB20851XX. cSound Adapt is exclusively available for Vivid E95 and Vivid E90*

segmental strain in 1 click and obtain measurements in less than 15 seconds on average[5]. It also features the world's first mini **4D TEE probe**, suitable for a broad range of paediatric interventional cardiology procedures, and potentially helping eliminate the need for general anaesthesia in adult patients.

Voluson Expert 22

As pregnancies grow increasingly complex, clinicians are demanding improvements in technology that allow for greater confidence at the point of care. Shrinking workforces are straining healthcare systems around the world, and without intensive training to operate complex medical imaging technology, clinicians are therefore demanding smart, intuitive systems that reduce the burden on individual users.

GE Healthcare has unveiled its most advanced ultrasound yet, the next-generation **Voluson™ Expert 22**. This latest addition to GE Healthcare's award-winning Women's Health portfolio utilizes graphic-based beam former technology, which produces higher quality images and offers greater flexibility in imaging functions. Cutting-edge tools powered by Artificial Intelligence (AI) ensure greater consistency in exams and decreased number of tasks. Customizable touch panels, color and lighting options provide for a revolutionary user experience.

The Voluson Expert 22's **Lyric Architecture** unlocks new imaging and processing power to achieve higher resolution, detailed images—and increased independence from body habitus and other difficult scanning conditions. The Lyric Architecture generates new levels of penetration, resolution, and frame rates to reveal fine anatomy in 2D/3D/4D with ease, and delivers uniformity throughout the image with increased spatial and contrast resolution.

Voluson's modern user interface is simple and seamless, and the 23.8 inch high-definition ultrasound (HDU) display offers 3 image sizes including unique full screen images that allows clinicians to work comfortably and see finer details with ease. Clinicians can personalize the user interface according to their unique preferences and **Respond probe activation** automatically initializes the probes and presets when removed from the probe holder.

The Voluson Expert 22 is a Red Dot Design Award Winner in 2022, recognized for 'its well-thought-out ergonomics, cotemporary functionality and conciseness of form.'

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MEDIA CONTACT

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[5] *Time to strain measurement result may vary with heart rate, frame rate and Vivid system. Verification of performance done by GEHC clinical application specialists using Vivid system (DOC2739637)*

GE Healthcare at RSNA 2022
Ultrasound

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