LOGIQ S8 XDclear 2.0
Volume Navigation Imaging

See your way clear for fast needle-guided procedures

Clinical Challenge
In interventional procedures, navigating to the region of interest (ROI) quickly and accurately can be challenging, particularly with abdominal lesions. While MR, CT, CBCT, and PET/CT images provide excellent visualization, they lack real-time image data on needle position to guide the operator to the correct location.

GE Solution
The LOGIQ™ S8 XDclear™ 2.0 system offers sophisticated Volume Navigation tools that combine the advantages of volume imaging with an advanced navigation system to enhance localization speed and accuracy.

With Volume Navigation, you can:
- Merge real-time ultrasound with previously acquired CBCT, CT, PET/CT, MR, SPECT or 3D ultrasound images to directly compare anatomy either side-by-side or by overlaying the images
- Guide a needle tip with enhanced confidence using needle tracking technology
- Visually track position during a scan using 2D/3D GPS-like technology, to mark lesions in the planning, guidance and follow up steps of the procedures
- Utilize Volume Ultrasound to interrogate images in any plane and view anatomy in different ways
- CT and MR Active Trackers – One-click auto-registration enhances accuracy and ease in managing patient motion, breathing and transmitter movements

Superb Imaging
Volume Navigation is supported by superb imaging capabilities migrated from GE’s flagship LOGIQ E9 system, including:

Selection of high-performance probes – The system offers both E-Series and XDclear probes, which are GE’s highest performing probes. Advancements in acoustic engineering help increase penetration and deliver high definition resolution.
Contrast Enhanced Ultrasound is available in the U.S. for characterization of focal liver lesions and left ventricle opacity only.

S-Agile Acoustic Architecture – Dynamically optimizes image acquisition for virtually every body type.

Enhanced B-Flow™ imaging – This innovative non-Doppler technique provides enhanced sensitivity to small vessels and slow flow states, and enables side-by-side or overlaid display of B-Mode and B-Flow imaging.

Simplified Workflow
The workflow efficiency of the LOGIQ S8 XDclear 2.0 system supports speed and accuracy in needle-guided procedures, with:

Scan Assistant – Provides basic and advanced protocols that help minimize keyboard touches and enhance exam standardization.

Highly intuitive user interface – Puts controls right where you need them.

Volume sweeps – Enable a virtual rescan of raw data in any plane at any time.

Volume Navigation probes – Now with embedded sensors to eliminate cabling and enhance productivity.

Scalable to Your Needs
The system offers advanced tools that can be combined with Volume Navigation to assist in treatment planning, monitoring, and follow-up:

Contrast Enhanced Imaging (CEUS) – Enables clinicians to get a clear picture of tissue structure by optimizing the balance between penetration and resolution for improved contrast sensitivity.

Shear Wave Elastography – Enables non-invasive, quantitative assessment of tissue stiffness to provide clinicians with an advanced level of diagnostic information to support patient management decisions.

Liver Volume Navigation Fusion Imaging live US/3D CEUS with 3D GPS, C2-7-D

Liver Volume Navigation, C1-5-D

Liver Fusion, C1-5-D

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Imagination at work
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