



# LOGIQ E10

Empowering You to Make the Difference



Enabling Liver Procedures

# ACCURATE DETECTION AND MANAGEMENT OF LIVER DISEASE

## Clinical challenge

To manage patients with liver cancer and chronic liver disease – including those with high BMI – clinicians need an ultrasound system that will help them identify high-risk patients, track disease progression, and make informed decisions to optimize treatment efficacy.

## GE solution

Whether the case is routine or technically challenging, the LOGIQ™ E10 system helps you make a difference in the lives of your patients, including those who are obese. Central to the new system is the cSound™ Architecture that combines versatile XDclear™ probes and the new cSound Imageformer to deliver exceptional image quality while workflow tools help increase exam efficiency. Advanced tools, like shear wave elastography, contrast-enhanced ultrasound, and volume navigation, enable clinicians to diagnose, treat, and follow up on a wide range of conditions.



## Confident diagnosis

The LOGIQ E10 enables clinicians to acquire extraordinary images across a broad spectrum of patients, with incredible uniformity from near to far field. The system's next-generation cSound Architecture delivers deep penetration power even for high BMI cases.



**Auto-optimized images:** The cSound Imageformer automatically and continuously delivers images of high quality across a wide range of clinical scenarios. Extraordinary images are quickly obtained resulting in efficient studies, particularly important in technically challenging cases.

**Choice of high-performance probes:** E-Series and XDclear probes deliver powerful, high fidelity and wide bandwidth for impressive deep penetration and high resolution. Embedded Volume Navigation sensors in select probes simplify workflow and enhance productivity.

- **C1-6-D/C1-6VN-D:** XDclear convex probe for deep penetration
- **C2-9-D/C2-9VN-D:** XDclear curved probe designed for high resolution imaging in the abdomen
- **C2-7-D/C2-7VN-D:** Microconvex probe with a wide FOV, especially useful when obtaining intercostal views
- **L2-9-D/L2-9VN-D:** New XDclear linear probe with high resolution, designed for abdominal exams
- **M5Sc-D:** New XDclear sector probe designed for intercostal scanning
- **Verza™ Needle Guide:** Available on C1-6-D/C1-6VN-D and L2-9-D/L2-9VN-D, includes five angles for needle visualization



Volume Navigation Contrast Liver Mass with GPS Marker, C1-6-D



Liver Shear Wave Elastography, C1-6-D

# Comprehensive tools

The LOGIQ E10 provides robust tools that give clinicians a new level of confidence in their diagnostic and treatment decisions.

**B-Flow™ imaging:** The deep penetration and sensitivity of this non-Doppler technique enable direct, real-time visualization of blood flow echoes with no vessel wall overlap to obscure details.

- **B-Flow Capture with Reconstruction:** Provides a three-dimensional view of blood vessels to assess perfusion

**Volume Navigation:** The combination of 2D/3D GPS Tracking and Fusion Imaging can make a real difference in accuracy. When placed with 3D GPS guidance, the probe may not need repositioning to achieve clean margins – potentially reducing procedure time and patient stress.

- **Fusion Imaging:** Merge real-time ultrasound with a volume DICOM® dataset (CT, MR, PET/CT, CBCT, SPECT and 3D CEUS) to help increase precision in image-guided interventional procedures
- **Needle Tip Tracking:** A live display of position and orientation helps users navigate interventional procedures in plane or out of plane. A Virtual Tracking tool is also available to see a projected view of the needle during procedures
- **2D/3D GPS Tracking:** Visually track position during a scan using GPS-like technology, and mark selected points of interest to save time and enhance confidence
- **3D GPS Markers:** Powerful 3D real-time tool for planning and monitoring ablation

**Contrast Enhanced Ultrasound (CEUS):** Provides visualization in pre- and post-ablation assessment of lesion vascularity or residual tumor.

**2D Shear Wave Elastography:** Enables qualitative and quantitative assessment of tissue elasticity.

**Compare Assistant:** Enables clinicians to easily view a prior study – ultrasound, CT or MR – and current images side-by-side in real time on the monitor for accurate comparison studies.



Trans Liver Hepatic Veins Normal, C1-6-D



B-Mode Liver Mass at IVC, C1-6-D



## > Concise workflow

The LOGIQ E10 can help you achieve new levels of workflow efficiency, so you have more time to focus on patients.

**2D Shear Wave Workflow enhancements:** Automated single- and multiple-acquisition workflow enhancements enhance efficiency and accuracy of exam acquisition and results display, supporting productivity in busy labs.

**Auto-Registration for Fusion Imaging:** Sophisticated navigational tools help increase precision and accuracy of image-guided interventional procedures. The Active Tracker enables one-click auto-registration of CT, MR, CBCT images that enhance accuracy and ease in managing patient motion, breathing and transmitter movements.

**Raw Data:** Expanded dual-screen capabilities enable users to apply a wide variety of image processing and quantification after the exam. This allows the operator to extract and reanalyze information without extending exam time.

**Scan Assistant:** Provides customizable automation to assist users at each step of an ultrasound exam, helping to reduce keystrokes and exam times.

**Exceptional mobility:** The LOGIQ E10 system easily fits into crowded suites. The Power Assistant battery means that no re-boot is required when the system is moved from location to location. On-board storage ensures supplies are at hand.

**Intuitive operation:** The ergonomic user interface features easy-to-reach controls, an adjustable floating keyboard, and an articulating monitor to speed procedures.



### Imagination at work

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