GE HealthCare

LOGIQ™ E10 Series

Ultrasound, the next level for liver

Detect and stratify liver disease early to optimize care

Clinical challenge

Ultrasound imaging of patients with liver cancer or chronic liver disease can be a challenge, given the wide variety of body types, many with high BMI. Clinicians need advanced tools to successfully image hard-to-scan patients in order to detect and stratify liver disease as early as possible to apply the optimal treatment and reduce invasive procedures.

GE HealthCare solution

The LOGIQ E10 Series features a comprehensive portfolio of advanced solutions for personalized care of patients with liver disease. Our specialty imaging and AI-based decision support tools support you across the care pathway **from early diagnosis and staging**, to disease stratification for treatment selection, and monitoring of treatment response.

Confident diagnosis

The LOGIQ E10 Series enables clinicians to acquire extraordinary images across a broad spectrum of patients with liver disease. The system's advanced imaging technology delivers penetration power even in high-BMI patients.

cSound™ Imageformer with Advanced Speckle Reduction Imaging (SRI): Delivers outstanding image uniformity with high spatial and contrast image resolution, from liver capsule to depth. Assists in early detection of small tissue changes, such as in the liver parenchyma. There's no need to manually adjust the focus—the information you need is there, instantly.

Continuous Automated Tissue Optimization (CATO): Enhances overall contrast in B-Mode images continuously as you move the probe. No need to adjust contrast manually.

Comprehensive portfolio of probes: Wide range of XDclear™ probes deliver powerful, high fidelity and wide bandwidth for deep penetration and high resolution in any body type. Dedicated Verza™ Needle guidance is available to enhance biopsy accuracy.

Flow modes: Comprehensive package of flow modes for liver vascular assessment. Microvascular Imaging (MVI), a high-definition flow mode, enhances confidence in evaluating small abdominal lesions and lymph nodes. When combined with Radiant*flow*,™ MVI provides a near 3D-look for detailed visualization of the hepatic vascular tree or lesions in the vascular structure.

Comprehensive tools

The LOGIQ E10 Series provides robust tools that give radiologists a new level of confidence in their diagnostic decisions.

Ultrasound-Guided Attenuation Parameter (UGAP): Enables non-invasive assessment of liver steatosis to aid in early identification and monitoring of patients with MASLD, NASH or ASH. Quick, consistent and reliable, with cut-off values available compared to MRI PDFF.

2D Shear Wave Elastography: Two-dimensional Shear Wave Elastography, now available on more probes, enables quantitative assessment of tissue elasticity. Helps in the early assessment of chronic liver disease for fibrosis staging. Available: quality map, multiple workflow modes and cut-off data.

B-Flow imaging: Proprietary non-Doppler technique that enables real-time visualization of blood flow echoes without vessel wall overlap. With its excellent spatial resolution, B-Flow complements standard Doppler techniques in assessing cases of suspected vascular liver disease and providing follow-up.

Contrast-Enhanced Imaging (CEUS): Comprehensive package of contrast abdominal settings with superb image uniformity, tissue subtraction, bubble resolution, sensitivity and penetration. CEUS enables easy lesion detection and characterization, from near field to depth, and adds reliable information on lesion behavior, such as contrast uptake times.

Volume Navigation (V Nav): The LOGIQ E10 Series offers advanced capabilities for image-guided procedures, including:

- **Fusion Imaging:** Merge real-time ultrasound with a volume DICOM® dataset (CT, MR, PET/CT, CBCT, SPECT and 3D CEUS) to facilitate second-look examinations and biopsy guidance. Available Virtual Tracking tool displays 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.

Concise workflow

The LOGIQ E10 Series has been designed to help liver specialists achieve new levels of efficiency to free up time for heavy workloads and challenging cases.

Auto-registration for Fusion Imaging: The Active Tracker enables one-click auto-registration of CT, MR, CBCT and 3D CEUS images to enhance accuracy and ease in managing patient motion, breathing and transmitter movements.

AI-based assistant tools: The LOGIQ E10 Series digital platform uses artificial intelligence (AI) to provide next-level assistance with productivity and decision support tools, helping clinicians improve outcomes, ensure consistency, and increase efficiency.

- **Auto Abdominal Color Assistant:** Detects which abdominal organ is being scanned and automatically switches to the optimal color flow parameters, such as gain and scale, for that organ. Can be tailored by the user.
- **Auto Doppler Assistant:** Analyzes an image to determine the location and direction of vessels and then automatically adjusts the color box and angle—enabling users to complete that step 20% faster and with 50% fewer keystrokes.
- **Auto Lesion Segmentation:** This AI-based productivity tool automatically traces lesion boundaries and generates two-dimensional measurements with just a few keystrokes.

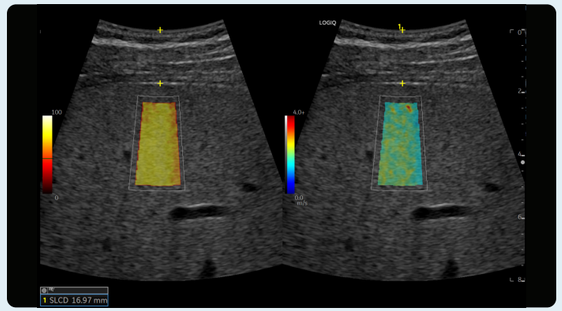
Hepatic Assistant: Combines 2D Shear Wave Elastography and UGAP in a single exam with the push of a button, enabling seamless workflow for managing patients with suspected chronic liver disease.

Scan Assistant: Customizable protocol automation assists users during the liver exam, helping to reduce keystrokes and exam times and to increase exam standardization.

Compare Assistant: Enables easy and accurate comparison of the current exam with prior studies to follow-up patients under surveillance or for therapy monitoring.

Raw Data: This proprietary data format allows users to apply extensive image processing and quantification after the exam. This can enhance diagnostic confidence while contributing to a smoother workflow, especially with difficult patients.

Radiant*flow* of the portal vein, C1-6-D



2D Shear Wave Elastography Quality Indicator with measurement, C1-6-D

Smart investment

GE HealthCare accelerates innovation with the LOGIQ E10 Series – making it the smart choice for now and the future. The systems are available with a full suite of robust features and scalable options.

Digital platform: Stay at the forefront of clinical imaging with our digital platform, specifically engineered so you can add next-generation capabilities in the years ahead.

Familiar user interface: The LOGIQ E10 Series offers greater functionality while maintaining the ease of operation and satisfying user experience that has become a hallmark of LOGIQ interface design.

SonoDefense: GE HealthCare's multi-layer approach to cybersecurity helps keep the systems safe and functional in the face of cyberthreats and helps protect patient data from unauthorized access.

Digital support: Wide choice of efficiency tools to help users, administrators, and operations staff improve productivity, including remote preset management, performance analytics, software/security updates, live clinical training, and advanced system diagnostics.

You're focused on patients, and we're fully focused on you.

LOGIQ with Verisound™ digital and AI ultrasound solutions applies decades of ultrasound experience to minimize chaos, eliminate the mundane, and improve your day-to-day – because an efficient workflow means more focused time on patient care.

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