

GE Healthcare

# LOGIQ E9 XDclear 2.0

Complete Ultrasound



HEAD TO TOE | OBESSE TO THIN | NEONATE TO GERIATRIC

# Complete Ultrasound

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## OUR BEST JUST GOT BETTER.

With the **LOGIQ™ E9 XDclear™ 2.0 ultrasound system**, we've rethought virtually every element of the imaging chain, from the pulse of the probes to the clarity of the pixels. The result is our highest level of imaging performance yet – a leap forward you have to see to believe.

In addition to extraordinary image quality, the system has been further enhanced to meet the needs of demanding and discerning practices with:

### **EXTRAORDINARY IMAGES & EXCEPTIONAL CLINICAL VERSATILITY**

to handle a wide range of exams, including abdominal, vascular, obstetric, gynecologic, neonatal, pediatric, urological, transcranial, cardiac, musculoskeletal, interventional and small parts applications.

### **EASY WORKFLOW**

with a user-centric console, onboard automation, and productivity packages that help make short work of very busy schedules.

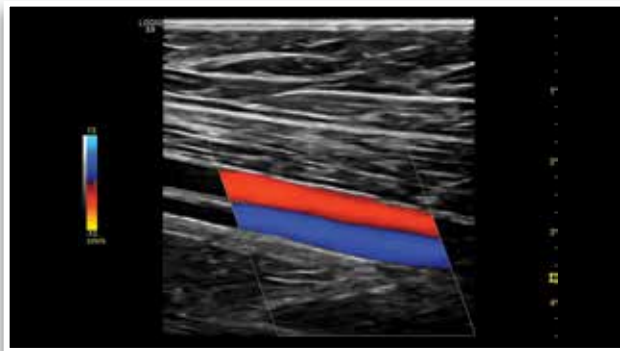
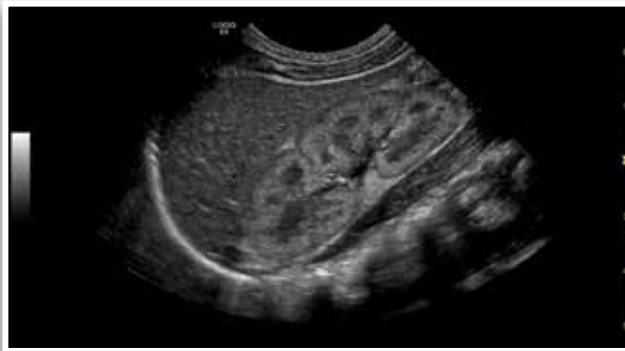
### **EXPERT TOOLS**

perform complex cases, in which the insights gained through technologies like Volume Navigation and Elastography can support fast, accurate evaluations.



# EXTRAORDINARY IMAGES TO EXPAND YOUR INSIGHT

The sum of these imaging advances is enhanced speed and confidence. The LOGIQ E9 XDclear 2.0 system helps you quickly acquire the information you need, in both routine and difficult procedures, to guide decisions that enhance clinical confidence.



## AGILE ACOUSTIC ARCHITECTURE –

### Automatically adapts to your patient's body habitus

This latest version of GE's proprietary technology uses dynamic models of the human body, based on clinical data, to help you acquire images on a broad spectrum of patients with minimal keystrokes.

## XDCLEAR PROCESSING ENGINE –

### Actively working in the background to enhance image quality

The enhanced bandwidth of the XDclear Processing Engine applies advanced imaging algorithms to create excellent images across all modes and applications.

## HIGH DEFINITION, WIDESCREEN DISPLAY –

### A vivid landscape with 1.7 times the image information\*

The advanced OLED (Organic Light-Emitting Diode) technology in our wide-screen monitor provides high contrast and deep blacks, extraordinarily vibrant colors, and excellent image quality even when viewing the monitor off-axis. In combination with enhancements to the XDclear Display, the image visualization landscape is more than 1.7 times larger than our earlier systems\*.

## B-FLOW IMAGING – Leave the limitations of doppler behind

By enabling direct, real-time visualization of blood flow echoes, B-Flow™ and B-Flow Color imaging enhances assessment of flow hemodynamics in a wide range of studies.

The new XDclear 2.0 is the power behind the system's leap forward in imaging performance. Our latest platform combines the resolution and penetration of XDclear technology with innovations to the system's acoustic architecture, processing engine, and display technologies. The result is a turbo-charged imaging chain that enables you to:



**CLEARLY DIFFERENTIATE  
FINE DETAILS**

**22%**

more contrast\*



**FOCUS WITH HIGH FIDELITY,  
NEAR AND FAR**

**99%**

improved spatial resolution\*

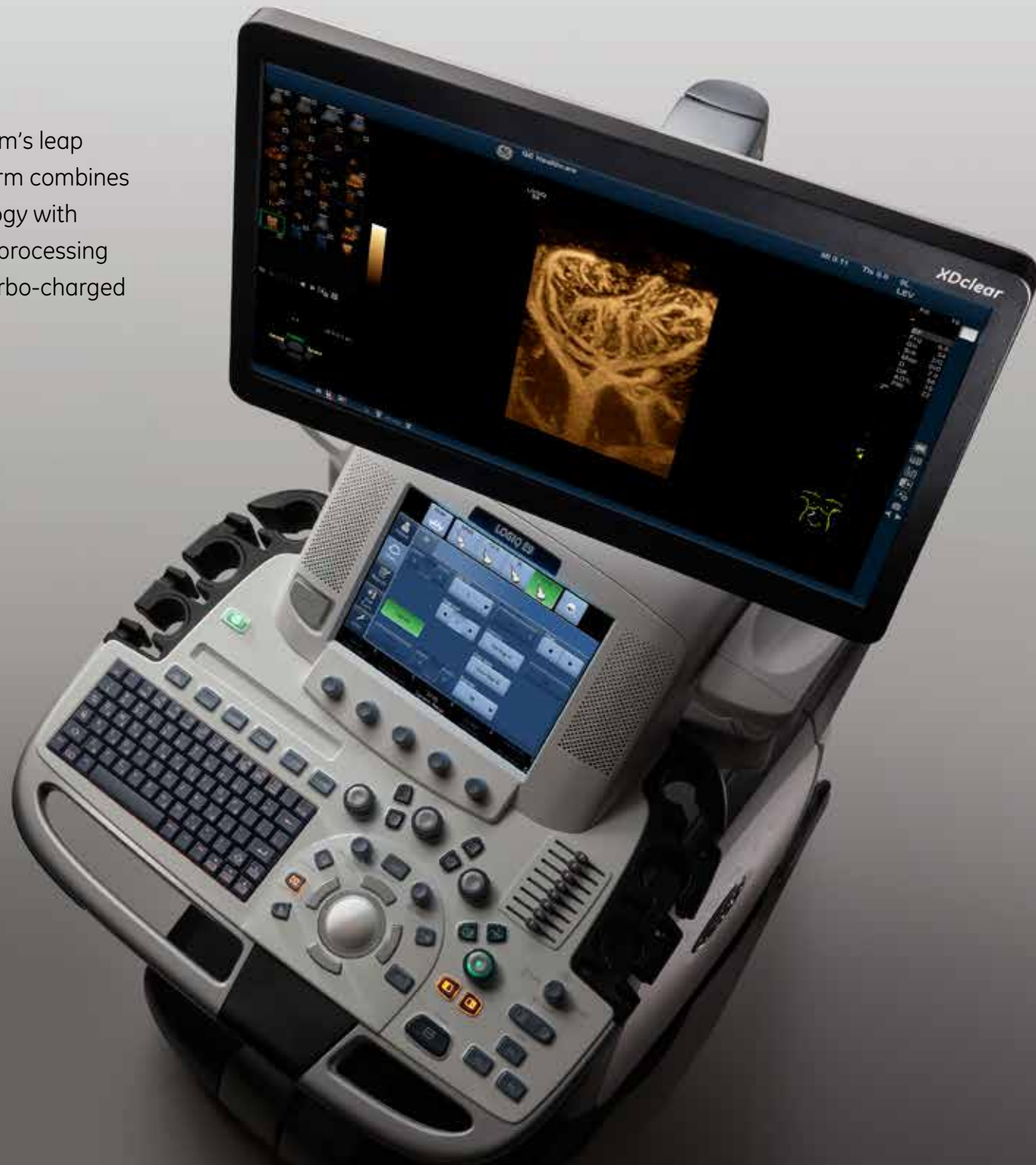


**SEE MORE INFORMATION  
AT A GLANCE**

**170%**

more image information\*

\*As compared to GE's LOGIQ E9 with XDclear ultrasound system



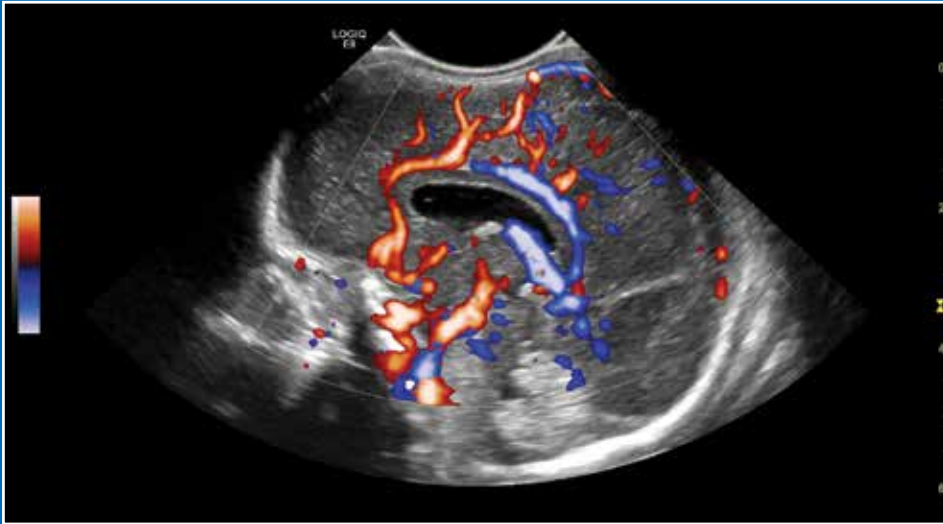


Liver, C1-5-D

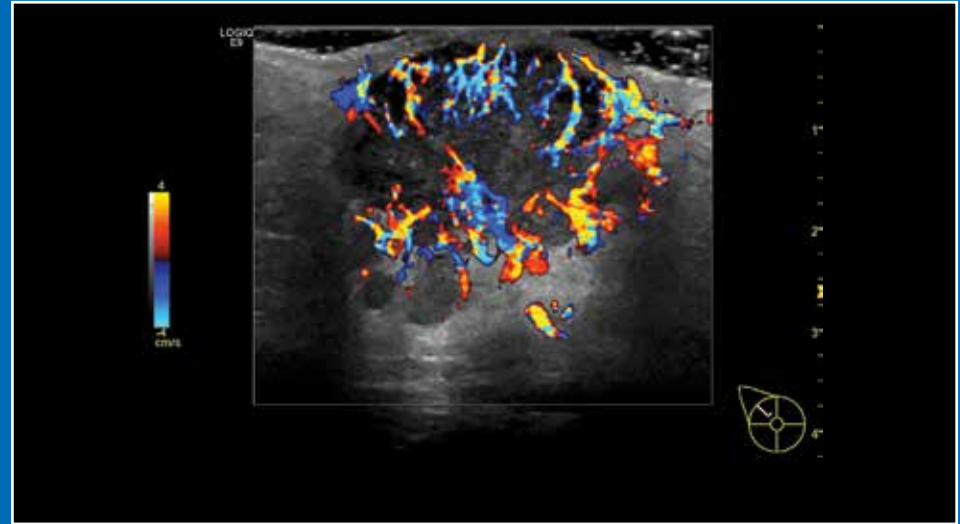


Intraoperative liver lesion, L3-9i-D

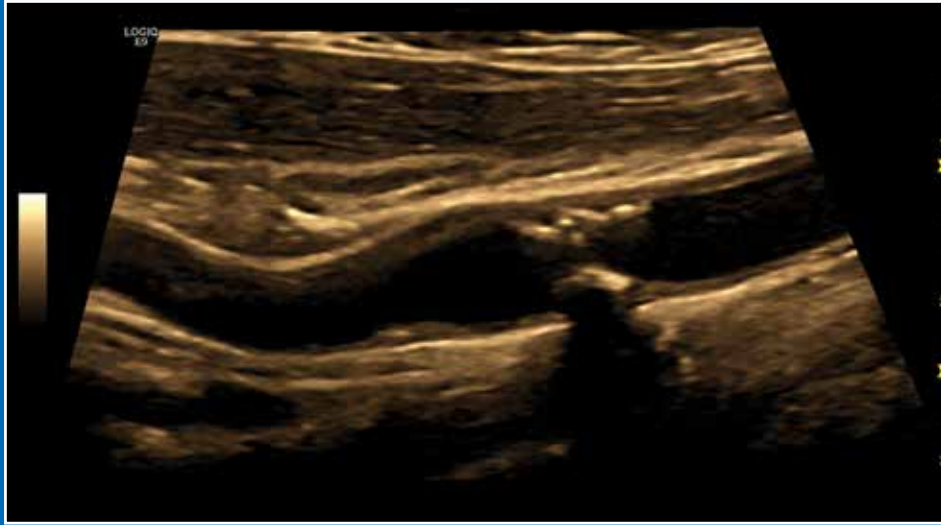
# EXTRAORDINARY IMAGES & EXCEPTIONAL



Neonatal cephalic, C3-10-D



Breast lesion, ML6-15-D



Carotid plaque, M6-15-D

# CLINICAL VERSATILITY



Carotid stenosis B-Flow, 9L-D

## HIGH-PERFORMANCE PROBES FOR ROUTINE AND SPECIALTY APPLICATIONS

The LOGIQ E9 XDclear 2.0 system offers a wide selection of probes from our E-Series and XDclear probe lines to support a broad range of applications. XDclear is GE's highest performing probe technology, with advances in acoustic engineering that deliver ultra-wide bandwidth, increased penetration, and high definition resolution. Our probe selection includes:

**C1-6-D/C1-6VN-D** – This XDclear workhorse probe enables outstanding resolution at depth and delivers 4cm+ penetration. The C1-6VN probe has the sensor in the probe.

**C3-10-D** – This XDclear convex probe is well-suited for neonatal, pediatric, and vascular applications.

**C2-9-D/C2-9VN-D** – This XDclear convex probe is well-suited for pediatric and OB/GYN applications.

**C2-7-D/C2-7VN-D** – This microconvex probe has a wide FOV that reduces blind spots, particularly in intercostal areas.

**ML6-15-D** – This matrix array linear probe provides high resolution imaging of fine-detail structures for small parts, neonatal, pediatric, musculoskeletal, and peripheral vascular applications.

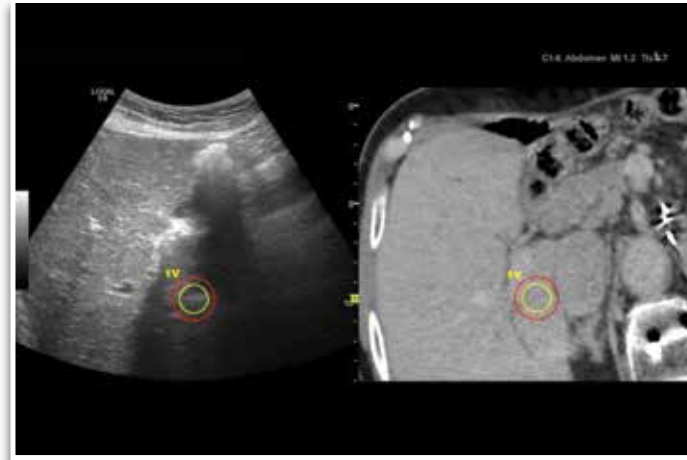
**9L-D** – This linear probe supports specialty imaging with a large footprint and excellent depth of field.

**L3-9i-D** – With its low profile, this T-shaped probe is easy to maneuver during surgical procedures.

XDclear PROBES



# EXPERT TOOLS FOR COMPLEX



## VOLUME NAVIGATION

Expert practitioners need specialized tools. The LOGIQ E9 XDclear 2.0 system was designed for departments that handle complex cases and require advanced technologies to address challenging clinical questions. Our portfolio of specialty tools includes:

### VOLUME NAVIGATION – See where you're going

The LOGIQ E9 XDclear 2.0 system offers sophisticated navigational tools including:

- **Fusion Imaging** – Merge real-time ultrasound with a volume DICOM® dataset (CT, MR, PET/CT, CBCT, SPECT and 3D CEUS) to help increase precision and accuracy of image-guided interventional procedures
- **CT and MR Active Trackers** – One-click auto-registration enhances accuracy and ease in managing patient motion, breathing and transmitter movements
- **Needle Tip Tracking** – Provides a live display of needle tip position and orientation to help users navigate interventional procedures
- **3D GPS Markers** – Highly useful when planning ablation and interventional procedures



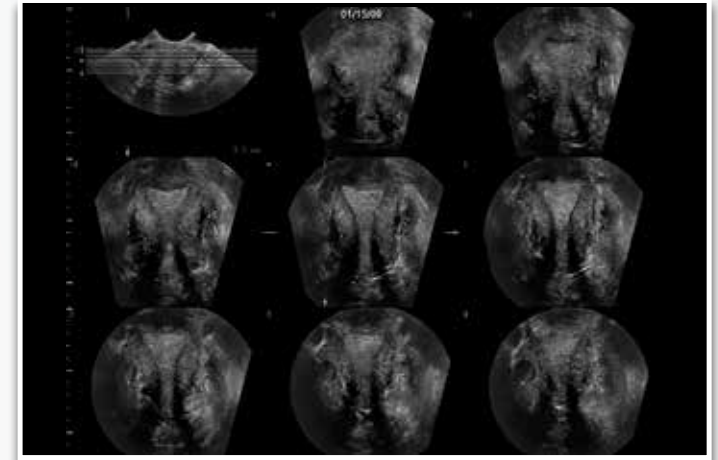
# QUESTIONS



## ELASTOGRAPHY

### ELASTOGRAPHY – Gain more information for patient management

- **Strain Elastography** – This robust tool, which includes mapping, estimates the strain, or tissue deformation, in the region of interest after compression
- **Shear Wave Elastography** – By enabling non-invasive 2D quantitative assessment of tissue stiffness, this tool can be of particular value in evaluating soft tissue conditions



## VOLUME ULTRASOUND

### VOLUME ULTRASOUND – See the images in any plane

Acquire and construct volumetric images in real time, allowing you to evaluate the data in any plane to see anatomy in ways not seen traditionally.

- **Multiplanar** – View any plane individually or simultaneously with other orthogonal planes
- **C-plane** – Display an area of interest in an imaging plane parallel to the skin
- **Tomographic Ultrasound Imaging (TUI)** – View volume data in multiple slices
- **Volume Calculation (VOCAL)** – Assists in the evaluation of irregular structures by automatically calculating volumes based on an ROI tracing



From its thoughtfully-designed user interface to automation that reduces keystrokes and exam times, this system makes it easy to manage demanding workloads.

The layout of the user interface is grounded in ergonomics research. The most commonly-used controls are clustered at the front within easy reach – helping to reduce repetitive motions and increase efficiency.

# EASY WORKFLOW TO KEEP YOUR DAY ON TRACK

## **ERGONOMIC DESIGN – exceptional mobility and ease of use**

Streamlined to be 20% smaller and 100 pounds lighter than our previous premium systems, it's easy to move and position in crowded rooms. The intuitive user interface with easy-to-reach controls, adjustable floating keyboard, and articulating monitor help speed procedures.

## **COMPARE ASSISTANT – see the past, in real time**

Compare Assistant enables clinicians to easily view a prior study – ultrasound or other modalities – and current images together in real time via a split screen on the monitor, helping to enhance confidence and exam efficiency.

## **SCAN ASSISTANT – work smart**

The system's customizable automation assists users at each step of an ultrasound exam, helping to reduce keystrokes and exam times. One study demonstrated a 79% reduction in keystrokes and 54% reduction in exam time versus not using Scan Assistant.<sup>1</sup>

## **PRODUCTIVITY PACKAGES – save time on high-volume exams**

Specialized software helps increase the efficiency of breast and thyroid exams by enabling the user to label, measure, and describe anatomy quickly and confidently – plus generate DICOM® SR compatible summaries.





<sup>1</sup> Internal GE Healthcare study performed by third party consultants. The study was conducted using the LOGIQ E9 ultrasound system. The specific numbers refer to a Lower Extremity Venous study.

## Imagination at work

[www.gehealthcare.com](http://www.gehealthcare.com). Product may not be available in all countries and regions. Contact a GE Healthcare Representative for more information.

Data subject to change.

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