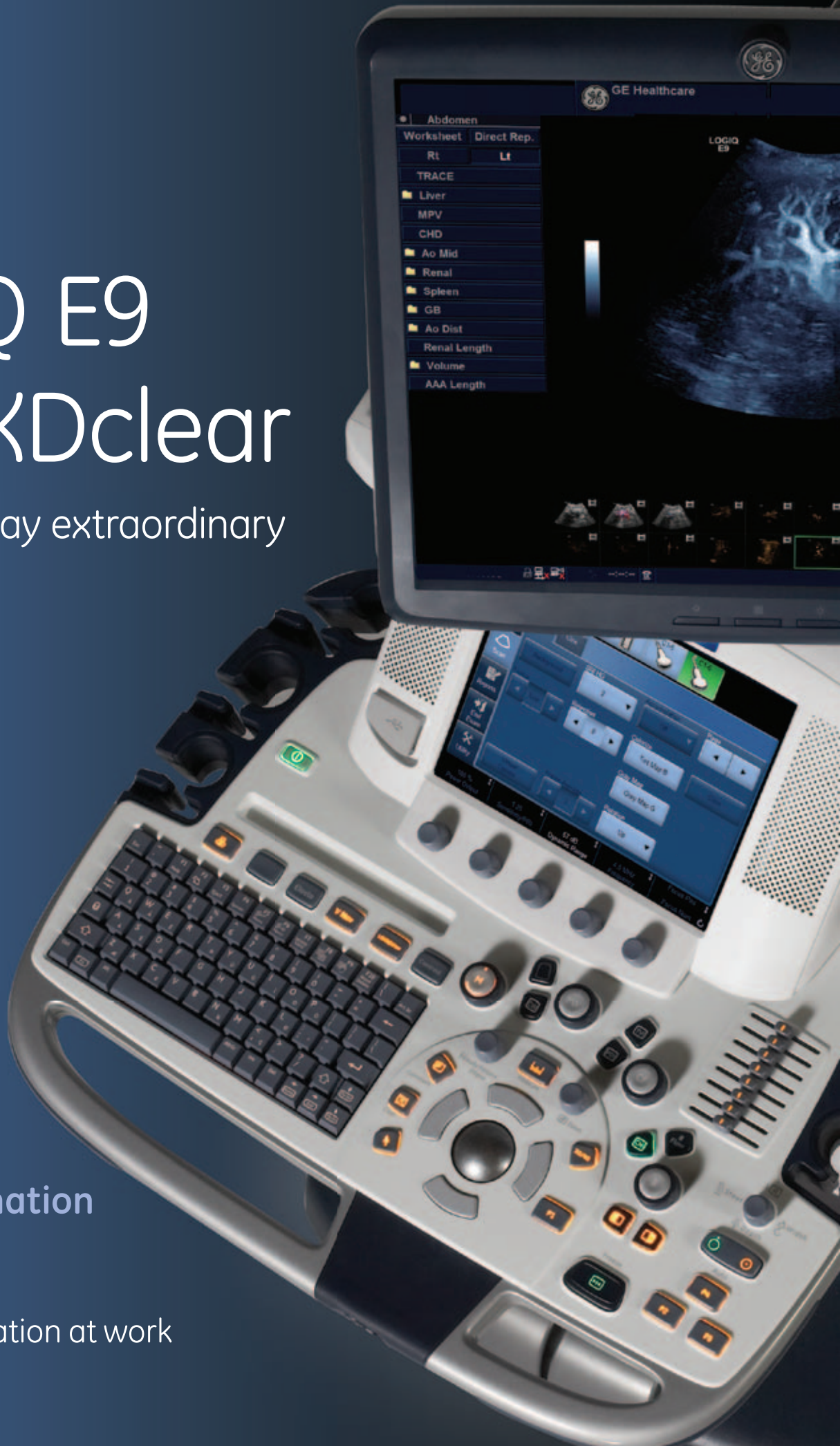GE Healthcare

LOGIQ E9
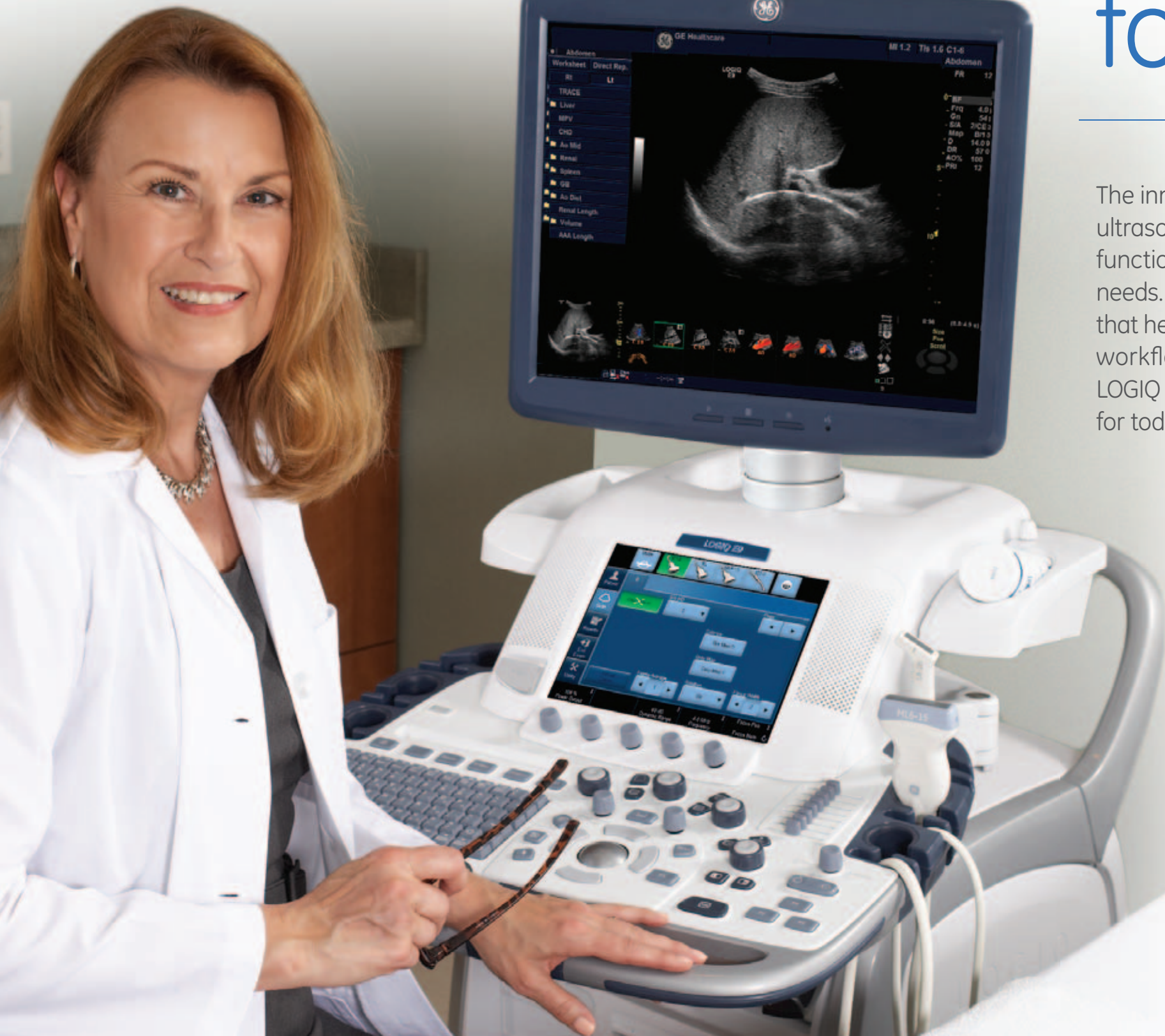# with XDclear

Make every day extraordinary

healthymagination

imagination at work

Extraordinary capabilities for every day.

The innovative LOGIQ* E9 with XDclear ultrasound system delivers advanced functionality attuned to your everyday needs. From innovative transducers that help image larger body habitus, to workflow tools that help your efficiency, the LOGIQ E9 with XDclear is truly ultrasound for today and every day.

Extraordinary images

- Optimize images with minimal keystrokes, thanks to Agile Acoustic Architecture
- Acquire crisp images with XDclear transducers that enable deep penetration, ultra-wide bandwidth, and high definition resolution
- Use the power of B-Flow* to directly visualize blood flow without the limitations of Doppler

Easy workflow

- Enhance productivity with an intuitive user interface that puts frequently-used controls near the trackball
- Take advantage of customizable automation tools to help increase exam consistency and speed
- Import prior studies right to the system for side-by-side comparison during follow-up exams
- Adjust image data during, or even after the exam, with Raw Data

Expert tools

- Use Volume Navigation to help enhance your studies through the combined advantages of volume ultrasound with an advanced navigation system
- Evaluate tissue stiffness with Elastography
- Employ automation to help simplify measurement intensive studies

With XDclear transducers, you can image deeper and wider without sacrificing clarity[1]. These transducers particularly benefit exams that have been limited in the past by body habitus. With more than one-third of Americans now considered obese[2], XDclear transducers could make a visible – and welcome – difference in a high percentage of your exams.

Adapt to your patient,
quickly and effortlessly

The LOGIQ E9 with XDclear is built for responsiveness and flexibility. The system's Agile Acoustic Architecture uses proprietary dynamic models of the human body, based on clinical data, to help you acquire images on a wide range of patients with minimal system adjustments. Now, that capability has been enhanced with XDclear technology that delivers:

• Advanced processing power and speed
• Improved resolution[1]
• Consistent high clarity across a variety of body types
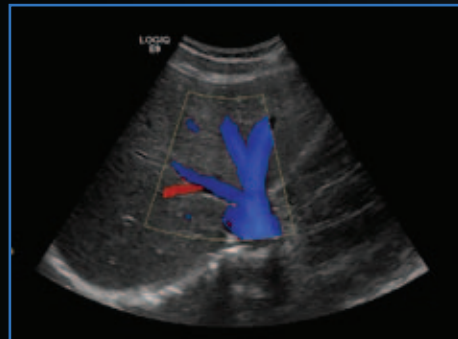
Hepatic vessels, C1-6-D

Kidney, C2-9-D

Splenic vessels with B-Flow, C1-6-D

See the difference
with XDclear transducers

XDclear is an innovation in GE transducer architecture that combines advanced materials and innovative geometric design to optimize the acoustic signal, resulting in:
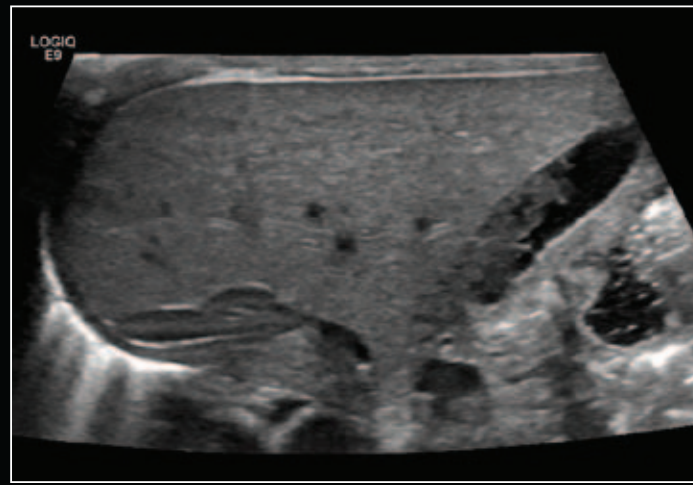
• Ultra-wide bandwidth
• 2 – 4 cm of additional penetration[1]
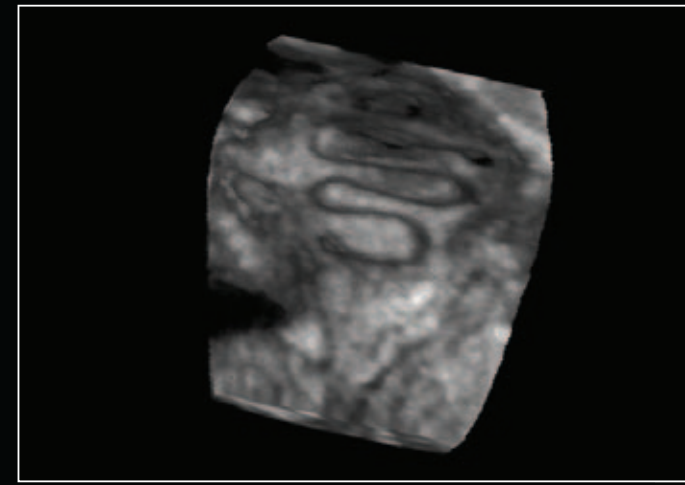• High-definition resolution throughout the image

View a video about XDclear.

Visit gehealthcare.com/ultrasound for a full listing of LOGIQ E9 transducers
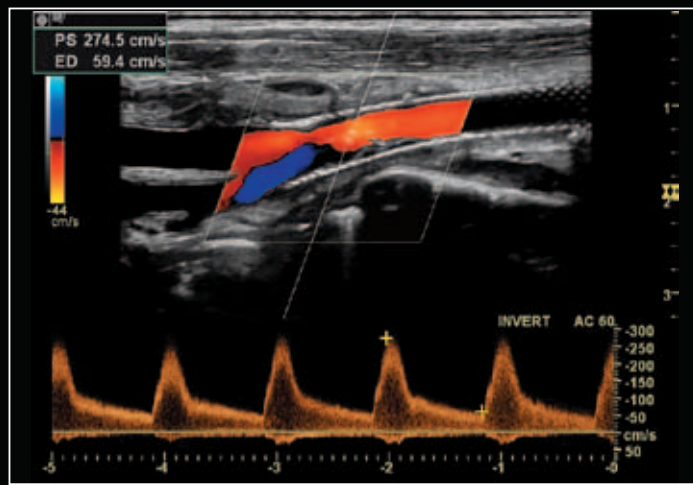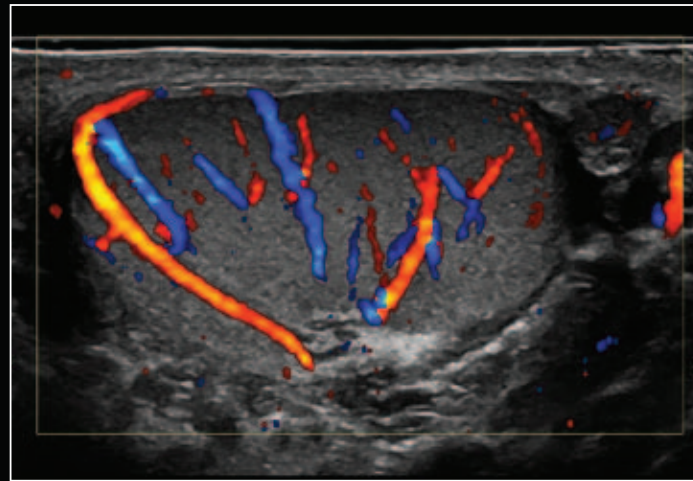
Carotid artery, ML6-15-D
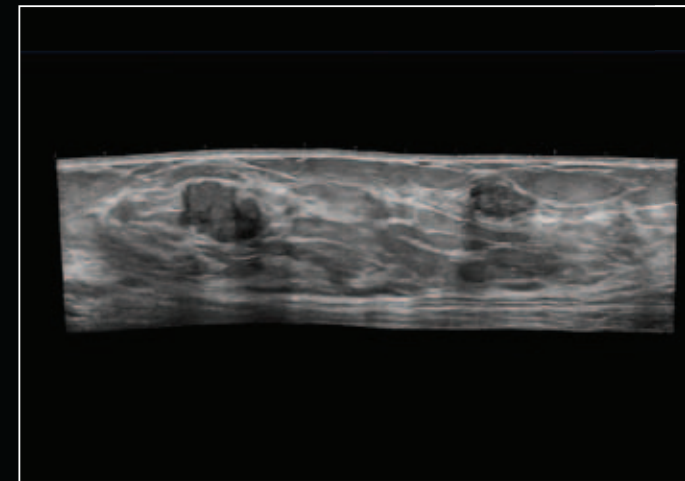
Pediatric abdomen, ML6-15-D
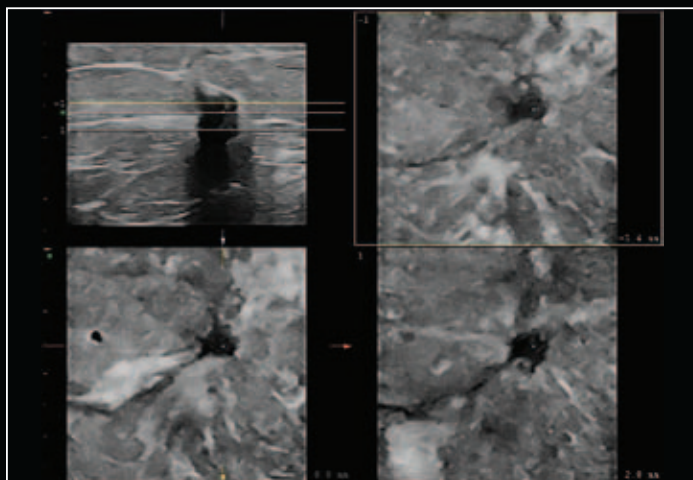
Uterus with IUD, RIC5-9-D

Achilles tendon with LOGIQView, ML6-15-D

Testicle, ML6-15-D

Breast fibroadenoma with LOGIQView, ML6-15-D

Breast, RSP6-16-D
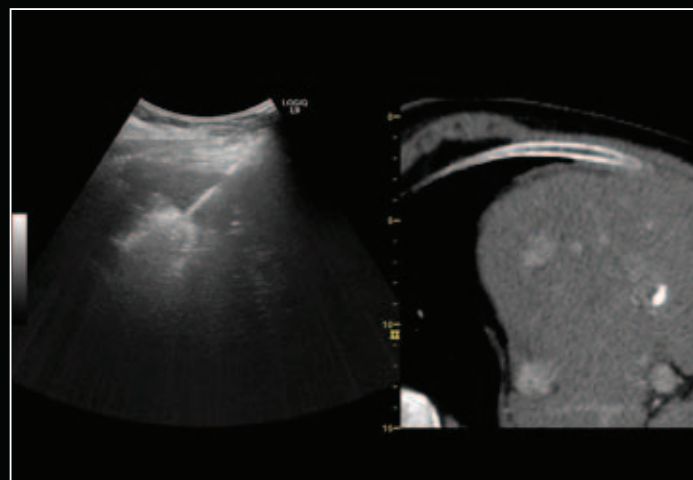
Kidney with US/CT Volume Navigation Needle Tracking, C1-5
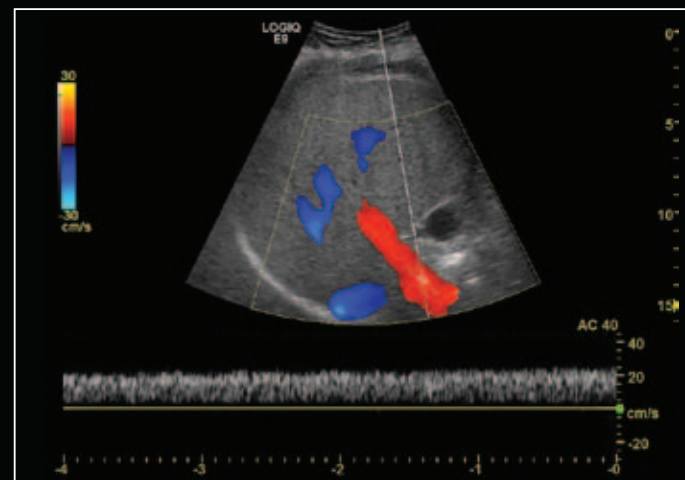
Portal vein, C1-6-D

Helping you excel every day

High-definition Speckle Reduction Imaging (SRI-HD) is a real-time algorithm that helps increase contrast resolution by reducing speckle noise while maintaining true tissue appearance.

CrossXBeam* combines multiple images from different angles into a single, real-time image that allows for excellent border definition and high contrast resolution.

Coded Harmonic Imaging helps improve near-field resolution for enhanced small parts imaging as well as far-field penetration.

LOGIQView displays images over an extended length of anatomy, helping provide excellent visualization and more clinical information than a standard view.

The LOGIQ E9 with XDclear brings together the latest technology advances from GE Healthcare to help create ultrasound images that help answer the clinical questions, patient after patient.
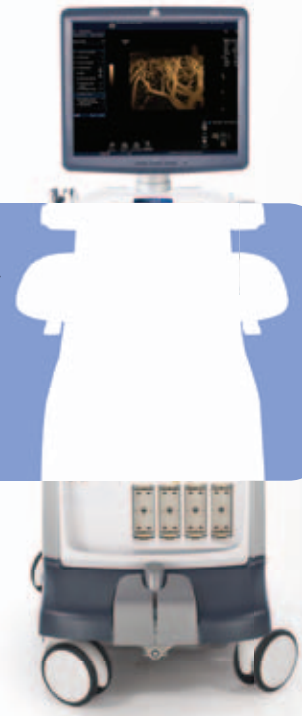
See flow in a new way.

B-Flow Imaging provides advanced spatial and temporal resolution to help assess blood flow and vessel wall structure without the limitations of Doppler.

- Enables direct hemodynamics visualization
- Provides higher frame rate and spatial resolution than Color Flow – with no vessel wall overlap
- Displays small vessels with ease
- Provides flow and vessel assessment that is less dependent on user technique or scanning angle

B-Flow and B-Flow Color can help improve your clinical confidence in assessing flow hemodynamics across a wide range of studies, from examining larger blood vessels such as the carotid artery or visualizing small vessels in the liver, kidney or spleen.

The foundation
for *easy* workflow

Raw Data capture enables you to build a thorough exam while simultaneously helping reduce scan time. This proprietary technology from GE Healthcare captures data early in the image processing chain, allowing users to conveniently make changes to the data during or even after the exam has ended. With Raw Data you can make image adjustments such as gain and dynamic range, edit annotations, add measurements, and much more. It is also an enabler for workflow tools such as Compare Assistant which helps streamline creation of comparative studies.

Room too bright? Adjust gain later

Difficult vascular patient? Adjust baseline shift, sweep speed and Doppler angle

Reading a comparative study? Receive comparative views matched to prior study

Pediatric patient? Acquire quickly and virtually rescan post exam

Ergonomics
Comfort and convenience

Monitor tilts completely down to help ensure nothing obstructs your view when transporting the system

2 USB ports

Full-sized, floating keyboard allows you to enter data right where you are, reducing the strain of a reach

Wireless networking brings convenience and enhanced workflow on portable procedures

Customizable touchscreen panel enables you to set up the system to your specific preferences

Highly intuitive control layout positions your most-used keys around the trackball, so you can focus on the patient instead of searching for the key

E-Series transducers were designed with user input, featuring lightweight materials, ridges for enhanced handling and proper grip, and flexible, lightweight cables

The motorized adjustable height enables you to fit the system to your needs with the simple touch of a button

Breast and Thyroid Productivity Packages

With this productivity software, you can label, measure, and describe anatomy quickly and with confidence – and generate DICOM** SR-compatible summaries.

Compare Assistant

The Compare Assistant tool helps streamline comparison studies by allowing you to view a patient's prior and current studies side-by-side on the ultrasound monitor during an exam. This makes it easy to:

• Prepare for exams, since prior images can be viewed right at the system rather than at a reading station
• Replicate prior scanning parameters to create a comparative study using the power of Raw Data[4]
• Receive and interpret the study with excellent efficiency since there's no need to find, open, and sort through prior exams
• Standardize imaging protocols

Prior exam date[†]

Prior exam

Today's exam

Split clipboard

Prior exam tabs

Easy on-off activation

LOGIQ E9 Raw Data copy

Thumbnail labeling

Configurable thumbnail sizing

[†]Sample exam data created for demonstration purposes.

Measure Assistant

For measurement intensive studies, such as breast and OB exams, Measure Assistant can be very valuable. With user guidance, the technology generates automatic measurements that can be easily edited or accepted.

Scan Assistant

Scan Assistant knows the next step of a scan and helps you get there more efficiently. This customizable scanning program was built from user feedback to enable you to focus on the important elements of an exam by doing the little things for you.

Scan Assistant significantly decreases keystrokes and shortens exam time. A study revealed a 79% reduction in keystrokes and 54% reduction in exam time.[3]

Initiates and autocompletes required measurements

Automatically steers color Doppler

Automatically sets up imaging controls and modes

Automatically inserts comments

Automatically reorders images to reader's preference independent of acquisition sequence

Volume Navigation

Volume Navigation is an innovative technology onboard the LOGIQ E9 with XDclear that combines the advantages of volume ultrasound with an advanced navigation system.

This combination of technologies enables you to:

Merge real-time ultrasound with previously acquired CT, MR. PET or ultrasound images to directly compare lesions either side-by-side or by overlaying the images.

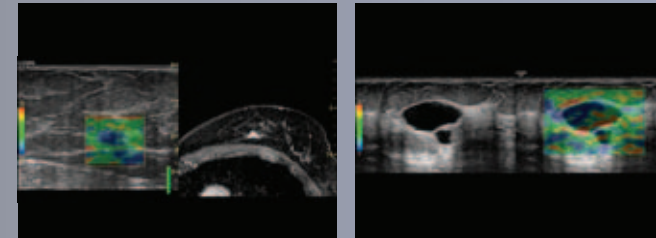**Guide a needle tip** with enhanced confidence using needle tracking technology.

Visually track your position during a scan using GPS-like technology, and mark lesions to designate points of interest.

Auto-register CT/US exams using Omni-TRAX** & Volume Registration functionality which helps reduce registration time.

More Expert Tools

Elastography

Help evaluate tissue stiffness using elastography to obtain additional diagnostic information. Elastography includes tools that help make it easy to use and help in patient management decisions.

- Dual image display
- Compatibility with multi-modality displays
- Quality indicator to help monitor proper technique

Automatic IMT measurement
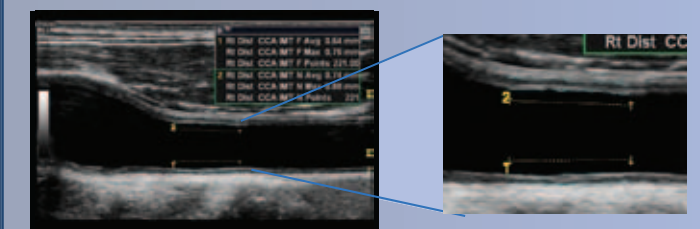
Automatic edge detection for intima-media thickness (IMT) measuring technology helps reduce the time it takes to evaluate the carotid artery's intima-media thickness.

- Automated algorithm used to trace IMT
- Advanced tools help increase the consistency of IMT measurements
- Comprehensive and easy to use

Cardiac tools
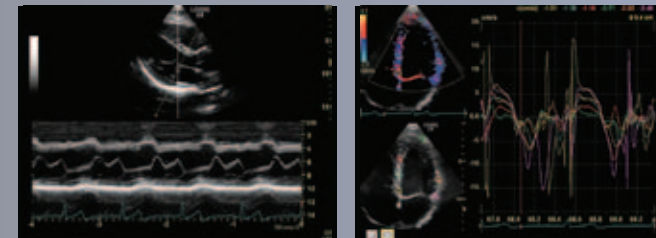
LOGIQ E9 combines exceptional imaging and color capabilities together with expert tools to help quantitatively assess systolic and diastolic function.

- Tissue Velocity Imaging (TVI) measures the myocardial velocities longitudinally, evaluating systolic and diastolic function. Tissue Velocity Doppler (TVD) measures segmental velocity of the myocardium longitudinally
- Q-Analysis plots the velocity information of discrete points for graphical analysis

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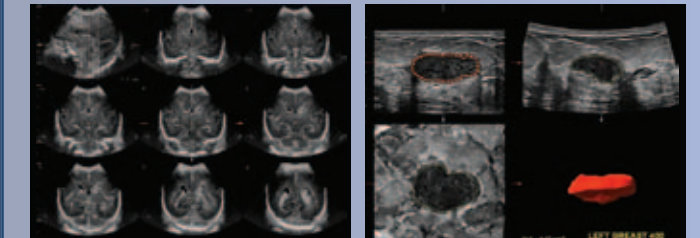
Acquire and construct volumetric images in real time, allowing you to evaluate the data in any plane to see anatomy in ways not seen traditionally.

- 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

Responsive
service and support

- **Connectivity** – DICOM connectivity that is compatible with many IT systems including ViewPoint* 6, GE Healthcare's reporting and image management solution

- **Education** – Access training and support to help improve proficiency and efficiency

- **Service contract solutions** – Choose from basic service to comprehensive support with parts and labor included

- **Transducer protection** – Nanosonics' Trophon** EPR disinfection system helps provide an efficient, advanced level of transducer cleaning

- **Flexible financing** – GE offers an array of lease and loan financing options through GE Capital, Healthcare Financial Services (HFS)

Environmentally responsible

LOGIQ E9 with XDclear is among the most energy efficient ultrasound systems in the industry. That means with every image you'll be using less energy, saving money, and contributing to a better environment. It's part of the GE commitment to invest in innovative solutions to environmental challenges, while empowering you with advanced tools for healthcare delivery.

References

[1] As compared to prior GE technology.

[2] Prevalence of Obesity in the United States, 2009–2010, NCHS Data Brief No 82, US Department of Health and Human Services, January 2012.

[3] Based on a GE commissioned independent study by a third party.

[4] If the previous study was performed on either the New LOGIQ E9 or LOGIQ E9 with XDclear.

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