

# LOGIQ E9

Ultrasound agility  
has arrived.



# We started with a blank sheet of paper.

Nothing compromised the imaginative thinking that went into designing the new LOGIQ® E9 premium ultrasound system. The sheet was blank. We engineered an advanced architecture platform starting from the ground up. This resulted in a highly agile system that truly represents the next generation of ultrasound.

## Agile acoustic architecture.

Traditional beamformers limit you to assumptions based on simplified models of the human body. The all-new LOGIQ E9 architecture is built on real-time calculations. It uses dynamic models of anatomy and physics to factor in the reality of all of the different body types you scan. You know that no two patients are alike. Now there's an ultrasound system that knows that, too.



## It's what's inside that matters most.

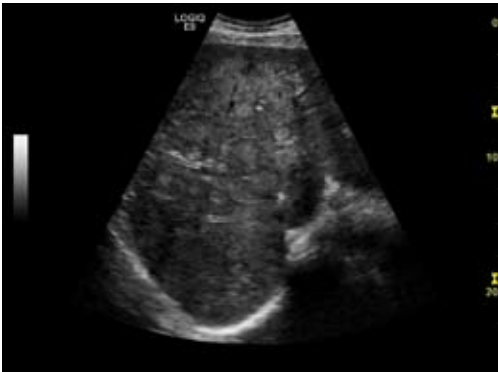
You need an extraordinary view inside your patient. That's why we put extraordinary technological advancements inside LOGIQ E9. Adding agile acoustic architecture to our proven TruScan™ architecture platform empowers you to:

- Acquire images faster and with less operator interaction
- Obtain unseen image uniformity from the near to far field
- Achieve deep penetration even on the largest patients
- Increase the exam consistency

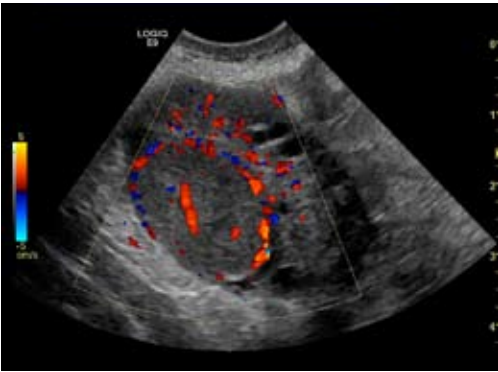


# Patients are changing. Now you have the power to change, too.

The reality of today's patients makes finding your way more difficult than it was yesterday. You need agility to get the right image that leads to the right clinical decision. And you won't find a more agile ultrasound system than LOGIQ E9. Its powerful beamformer actually adapts as you scan. This dynamic technology models the reality of the patient so you can acquire an extraordinary image, regardless of the body type.



Liver metastasis using C1-5 with Coded Harmonic Imaging, CrossXBeam™ and SRI-HD



Ovarian corpus luteum flow from IC5-9 using Coded Harmonic Imaging and SRI-HD

### High-frequency quality even at depth.

The agile acoustic architecture powering LOGIQ E9 enables you to get unparalleled image uniformity from near to far field, regardless of the patient size. Even with this remarkable penetration, the beamformer maintains image quality in the near field, too. So you get an amazing view throughout the entire image.



### Incredible transducer technology makes imaging incredibly easy.

E-Series transducers set an entirely new standard in acquiring extraordinary images. The moment you put the transducer on the patient, these highly advanced, ergonomically designed transducers work with the agile architecture to maximize image quality.

### The platform of the future.

Finally, all of the pieces have come together. Advanced transducers, which have exceptional sensitivity and flexibility, offer the right technology for the right application. An agile architecture thought to adapt to all patient body types and acoustic profiles. And proven TruScan architecture that enables optimum flexibility with raw image data. Only from GE Healthcare.

#### Good images.



#### Great images.



#### Extraordinary images.

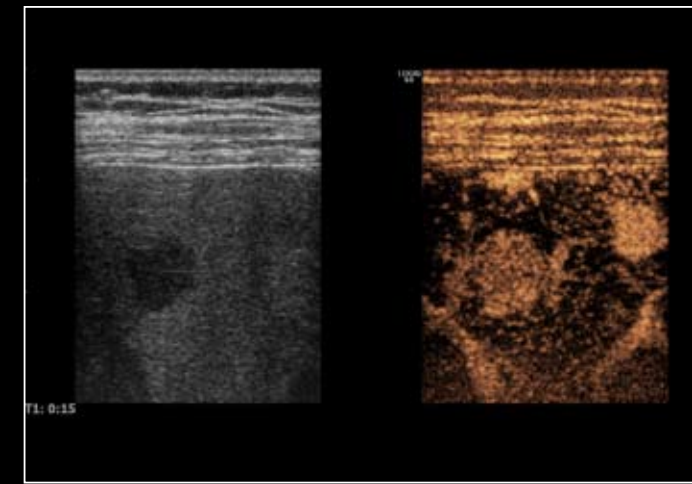




Fetal abdomen from C1-5 using Coded Harmonic Imaging and SRI-HD



Common carotid artery dissection from 11L using Coded Harmonic Imaging, CrossXBeam and SRI-HD

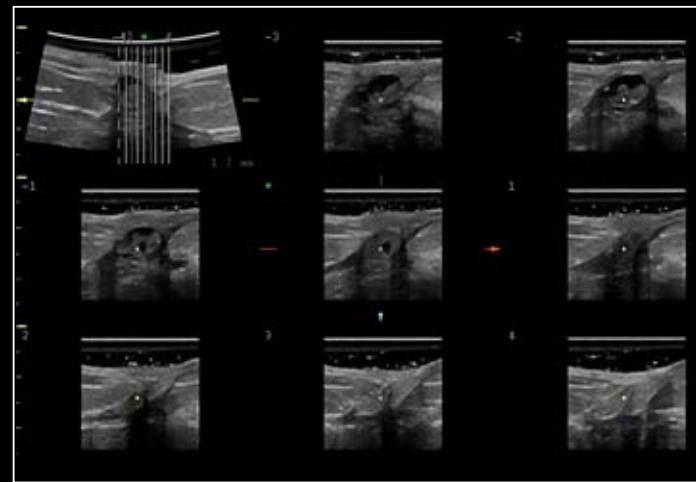


Melanoma metastases in the superficial liver with CEUS Dual View Imaging in arterial phase

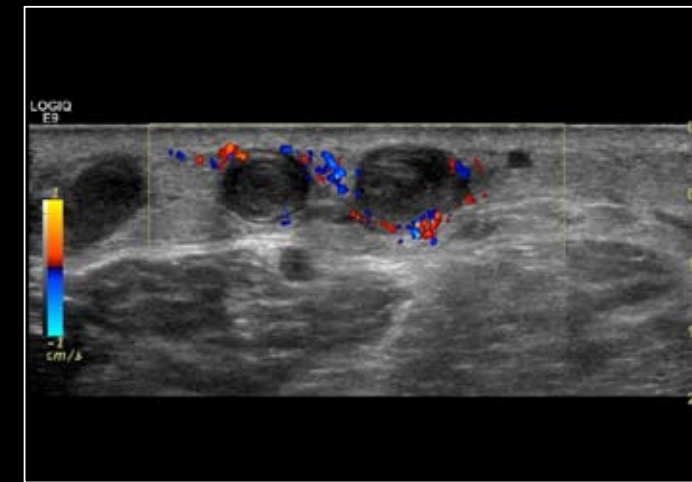
# Clinical confidence from outstanding images.



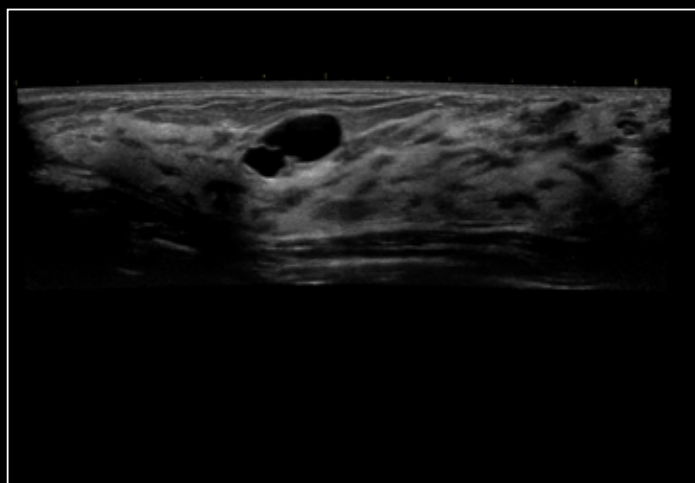
Complex mass in patient with infected arterial bypass graft using ML6-15 with Virtual Convex, Coded Harmonic Imaging, CrossXBeam and SRI-HD



TUI longitudinal imaging of a complex breast mass due to fat necrosis from a previous surgery



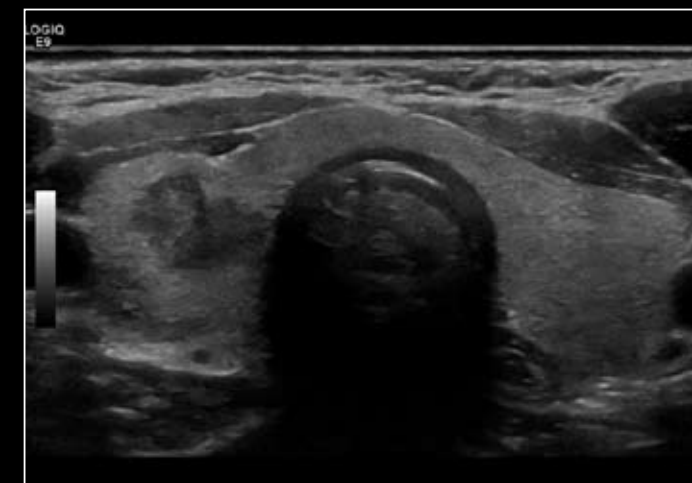
Hyperemic flow around veins following laser venous ablation with ML6-15 using Coded Harmonic Imaging, CrossXBeam, SRI-HD and high-frequency color Doppler



Septated breast cyst from ML6-15 using LOGIQview, Coded Harmonic Imaging, CrossXBeam and SRI-HD



Normal liver from C1-5 using Coded Harmonic Imaging, CrossXBeam and SRI-HD



Thyroid nodule from ML6-15 using Coded Harmonic Imaging, CrossXBeam and SRI-HD

## Proven technologies that lead to a better image:

**High-definition Speckle Reduction Imaging (SRI-HD)** with organ-specific imaging heightens visibility through improved high-definition contrast resolution.

**CrossXBeam** enhances tissue and border differentiation with a real-time spatial compounding acquisition and processing technique.

**Coded Harmonic Imaging** enhance near-field resolution for improved small-parts imaging as well as far-field penetration.

## Highly advanced transducer technologies for high-quality images:

**Acoustic Amplifier Technology** built into the new E-Series transducers achieves higher sensitivity by recycling the acoustic energy that used to pass through the transducer crystal. It redirects this previously wasted energy back into the piezoelectric crystal, adding significantly to the transducer sensitivity.

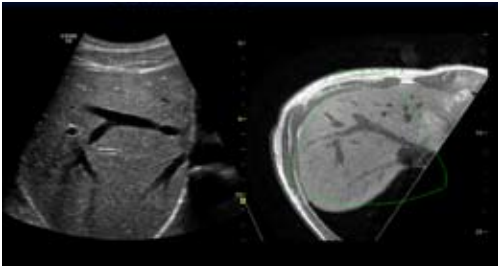
**Single Crystal Technology** increases bandwidth, offering better signal to noise and improved axial resolution and penetration.

**Matrix Array Technology** helps achieve uniform resolution throughout the field of view, eliminating the compromise between penetration and image resolution.

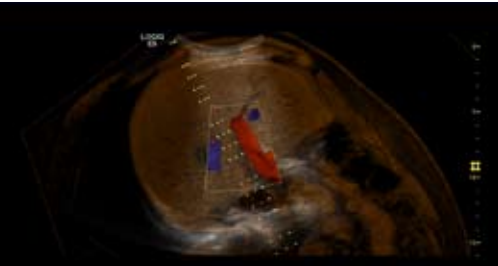
**Volume Hybrid Technology** encompasses a new range of Volume transducers bringing an outstanding spatial and temporal resolution.

# Do the things you've always imagined ultrasound could do.

LOGIQ E9 has advanced Volume Navigation tools that represent another milestone in the GE Healthcare volume ultrasound experience. This sophisticated technology empowers you with the agility to do more with an ultrasound system than ever before in superficial and abdominal applications. Volume Navigation helps to increase your diagnostic confidence by combining multi-modality imaging with any ultrasound mode, including Contrast Enhanced Ultrasound and CFM.



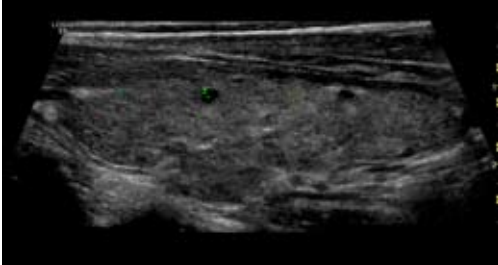
Volume Navigation of a normal liver showing Fusion of MR and ultrasound using side-by-side display



Volume Navigation of a normal liver showing Fusion of MR and ultrasound with color flow using overlay display and biopsy guidelines

## Now you can bring CT or MR images right to the bedside.

The Fusion tool gives you the remarkable ability to merge real-time ultrasound with previously acquired CT, MR or ultrasound images. Now you can directly compare lesions while taking advantage of the strengths of each imaging modality, easily and with proven accuracy. You can virtually scan the reference volume to match the live image, making a comparison either side by side or by overlaying the images. This outstanding tool not only helps in diagnosis, but also in monitoring of interventional procedures.



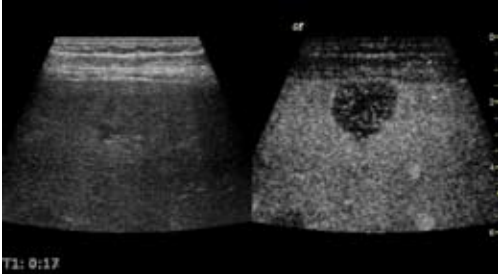
Volume Navigation with GPS markers to count nodules in Hashimoto's thyroiditis

## Confidently find your way using GPS markers.

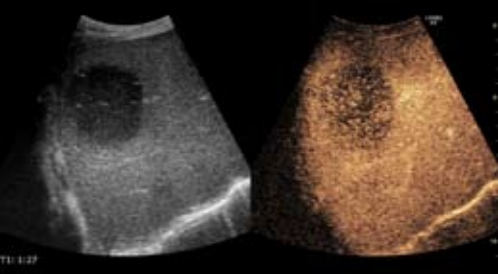
The GPS tool enables you to visually track your position during a scan. You can mark points in the body to confidently find an anatomical structure from a different view, guide biopsies efficiently and effectively, and simplify the counting of masses, lesions and nodules.

## Enhance your contrast capabilities.

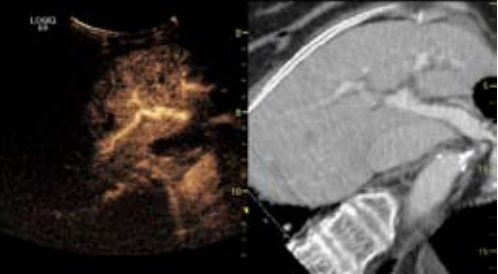
LOGIQ E9 is setting a new pace in deep abdominal and superficial contrast imaging. Its Amplitude Modulation Mode is advanced technology that empowers you with stunning sensitivity, including unique depiction of tiny slow flow or deep vessels, as well as outstanding resolution. These exceptional images combined with the new Volume tools of LOGIQ E9 allow you to expand the use of contrast imaging.



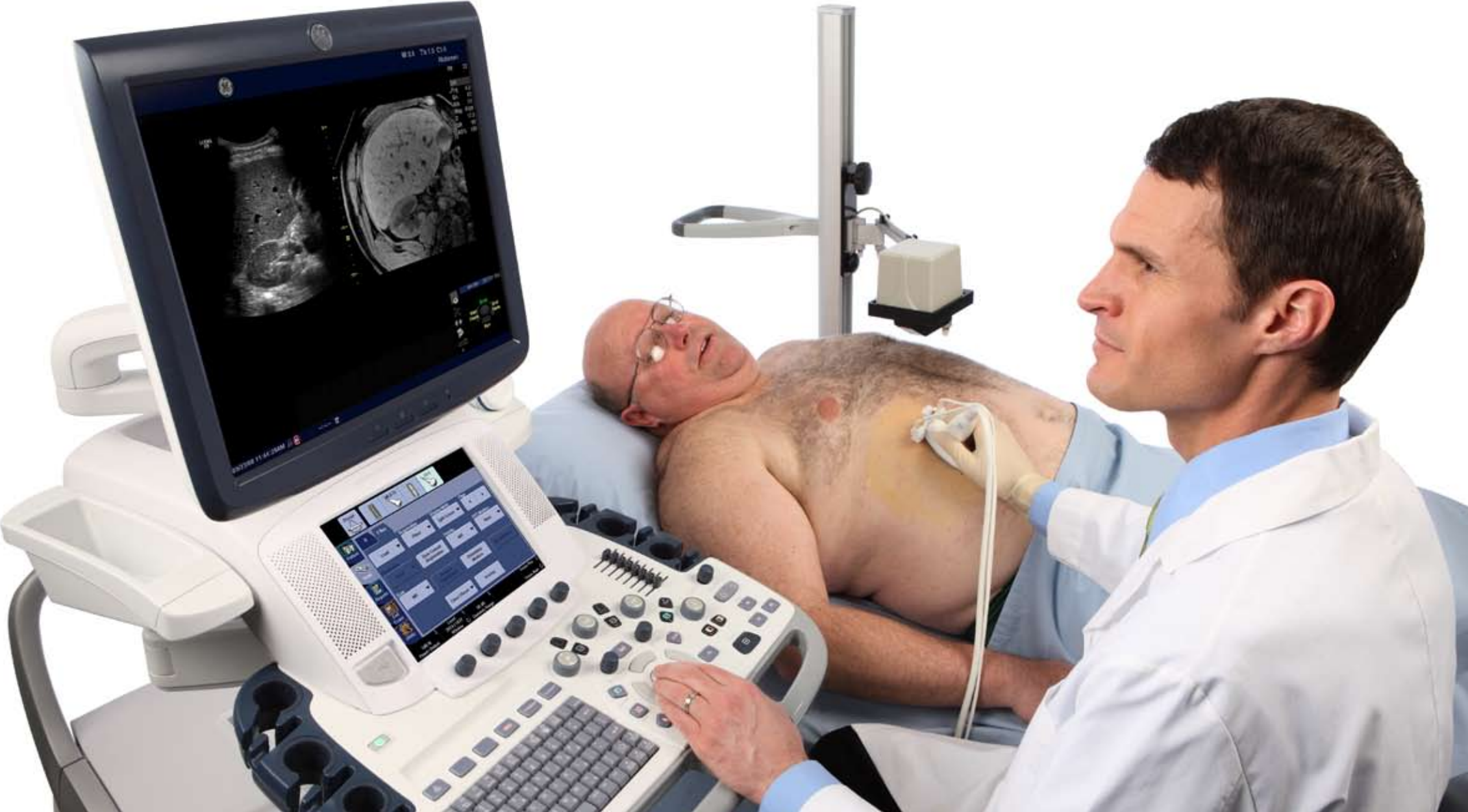
Metastases in the superficial liver with CEUS Dual View Imaging in arterial phase



CEUS Dual View Imaging demonstrates excellent penetration and sensitivity in this patient with hepatic metastases



CEUS and Volume Navigation of a liver showing Fusion of CT and ultrasound using side-by-side display



# Finally, a system that thinks the way you do.

LOGIQ E9 knows the next step of a scan and helps you get there like no other ultrasound system can. It's all part of the technologically advanced Scan Assistant, your customizable scanning protocol. Designed by users, Scan Assistant enables you to take more control over the important elements of an exam by doing the little things for you. That's because it automatically inserts comments, initiates and auto-completes required measurements, and much more.

Scan Assistant does things that an ultrasound system has never done before, including automatically steering color Doppler and setting up imaging controls and modes for you. Now you can truly concentrate less on keystrokes and more on patient care.

- Initiates and auto-completes required measurements.
- Automatically steers color Doppler.
- Automatically sets up imaging controls and modes.
- Automatically inserts comments.



# Designed for you by you.

The most important thing we did when designing LOGIQ E9 was to listen. You told us what would make a better ultrasound system. Then we made it. From the biggest innovations to the smallest details, nothing was overlooked.

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

The monitor tilts completely down to ensure nothing obstructs your view when transporting the system.



At an average 20 percent smaller and 45 kilograms lighter than other premium ultrasound systems, LOGIQ E9 offers the ultimate mobility to easily go wherever you need to go.

The full-sized, floating keyboard allows you to enter data right where you are, eliminating the strain of a far reach.

The highly intuitive control layout clusters 95 percent of your most-used keys around the trackball, so you can focus on the patient instead of searching for the key.

The customizable touchscreen panel enables you to set the system up to your specifications, so you can scan the way you want.

The E-Series transducers were designed with user input, featuring lighter plastics, ridges for improved handling and proper grip, and flexible, lightweight cables.

Having both front and rear handles makes it easier for you to transport and maneuver the system.



©2008 General Electric Company — All rights reserved.

GE Medical Systems Ultrasound & Primary Care Diagnostics,  
LLC, a General Electric company, doing business as  
GE Healthcare.

General Electric Company reserves the right to make changes  
in specifications and features shown herein, or discontinue  
the product described at any time without notice or obligation.  
Contact your GE Representative for the most current  
information.

GE, GE Monogram, CrossXBeam, InSite and TruScan are  
trademarks of General Electric Company.

## Healthcare Re-imagined

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world to discover new ways to predict, diagnose and treat disease earlier. We call this model of care "Early Health."

The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest. Re-think, Re-discover, Re-invent, Re-imagine.

GE Ultraschall Deutschland GmbH  
Beethovenstrasse 239  
D-42655 Solingen  
Germany

[www.gehealthcare.com](http://www.gehealthcare.com)



imagination at work