

GE Healthcare

# Voluson E8

*Extraordinary vision*



healthymagination



imagination at work

# Your foundation for extraordinary vision.

Throughout the years, your feedback has driven Voluson\* technological advancements, helping to make GE Healthcare a leader in women's health ultrasound. Working together, we have continued to evolve the Voluson family of products.

This means developing technology that allows you to see fine anatomical details. Providing you the ability to confidently explore fetal images in early stages. Introducing automation to facilitate efficient and reproducible diagnostic exams. Enhancing the way you examine ultrasound data from a single sweep. Our commitment to you is to diligently continue to enhance the powerful Voluson E8 to help you achieve extraordinary vision.

#### **Commitment to Early Health**

We aim to help you improve patient care with technology that allows you to focus on early prevention rather than late diagnosis. Our goal is to help clinicians detect disease earlier, access detailed information and intervene sooner. We call this model of care Early Health.

# Voluson next generation volume ultrasound technologies will amaze you!

## Volume ultrasound enhancements

**Voluson second generation dynamic rendering engine** – The enhanced dynamic rendering engine and innovative probes help provide you extraordinary image quality and efficient operation.

**HD*live*\*** – This Voluson second-generation rendering tool helps provide exceptional anatomical realism and helps increase depth perception to help enhance clinical confidence. This imaging capability can help you achieve a deep understanding of relational anatomy and enrich patient communication.

**Volume SRI (Speckle Reduction Imaging) (V-SRI)** – This enhancement helps provide a high level of speckle reduction utilizing volume/voxels versus traditional single slice imaging. It helps improve 3D/4D quality in multi-planar studies and also provides an enhanced smoothing effect on rendered images which helps improve diagnostic confidence.

**Advanced Volume Contrast Imaging (VCI) with OmniView** – Help improve contrast resolution and visualization of the rendered anatomy with clarity in any image plane, even when viewing irregularly shaped structures.

**Advanced 4D including Tomographic Ultrasound Imaging (TUI)** provides a simultaneous view of multiple parallel slices of a volume data set.

## Image quality enhancement technologies

**Speckle Reduction Imaging (SRI)** – This tool helps heighten visibility of organs and lesions with high-definition contrast resolution that suppresses speckle artifact while maintaining true tissue architecture.

**CrossXBeam<sup>CRi\*</sup>** – This technology helps enhance tissue and border differentiation with an innovative, real-time spatial compounding acquisition and processing technique.

## Advanced fetal cardiac assessment technology

Voluson E8 has helped transform the structural and functional analysis of the fetal heart with a suite of advanced fetal echo imaging technologies that include:

**Advanced STIC** (Spatio-Temporal Image Correlation) including STIC M-Mode and SonoVCAD<sup>heart</sup> for a high quality fetal echo examination.

**Advanced STIC plus B-Flow** offers an angiographic-like display for visualization of the fetal cardiovascular system.

**Anatomical M-mode** facilitates arrhythmia assessment and cardiac measurements.

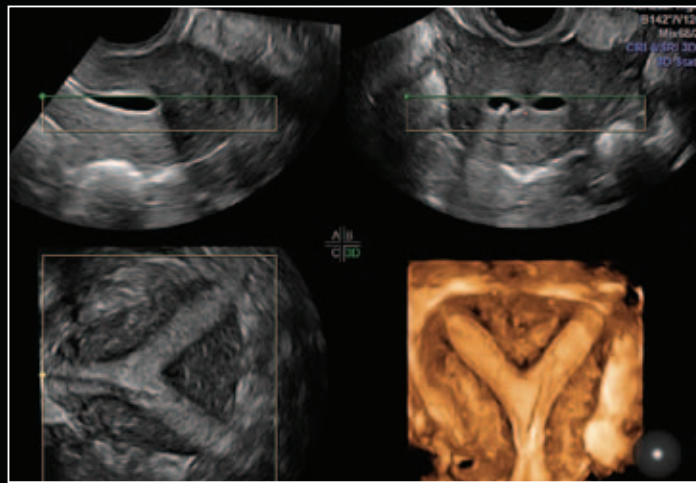
## Innovative women's health tools

**3D HyCoSy (Hysterosalpingo Contrast Sonography)** – An exciting tool that helps expand your in-office capabilities and facilitates gynecological exams with a non-ionizing procedure for tubal patency assessment that provides a 3D display of fallopian tubes.

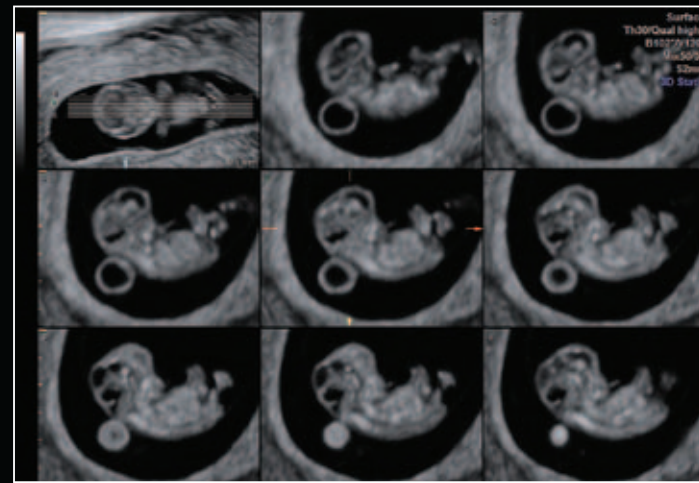
**Elastography with Elastography Analysis** – A highly sensitive tool for women's healthcare to assist in early evaluation and classification of simple and complex masses. The tool offers ratio measurement capability allowing comparison of stiffness (strain) of two regions of interest. Elastography Analysis plots the velocity information of discrete points for graphical analysis of the lesion. It is available both on the linear and endocavity probes.



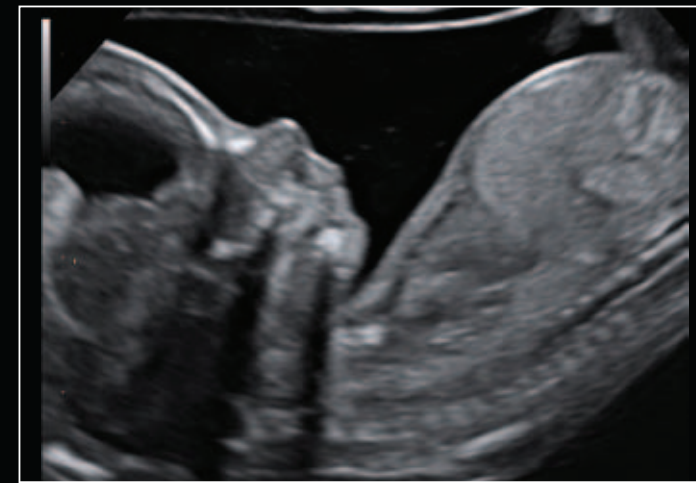
Simply extraordinary diagnostic confidence.



Multiplanar and rendered volume of bicornuate uterus during sonohysterogram.



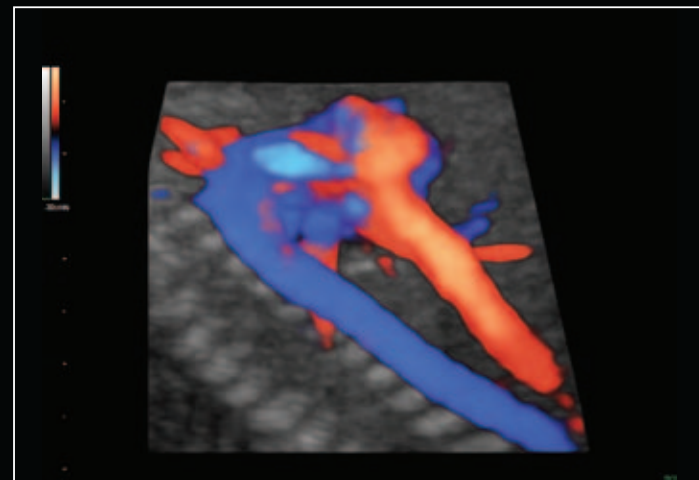
Early brain structures in 9 week fetus with TUI and V-SRI.



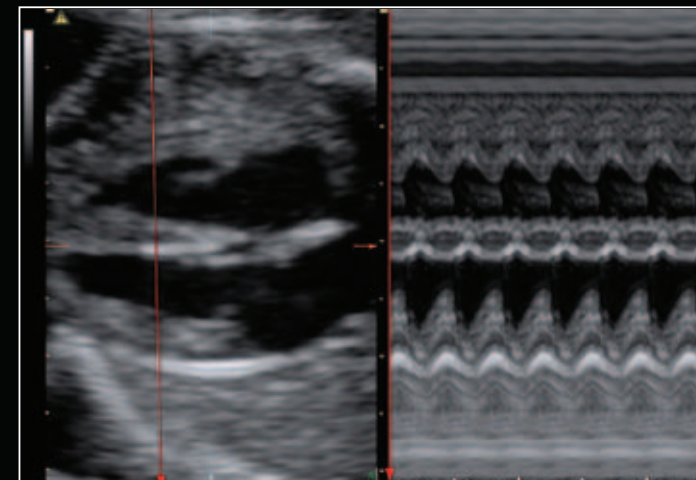
Twelve week fetal abdomen with high resolution RIC6-12 probe.



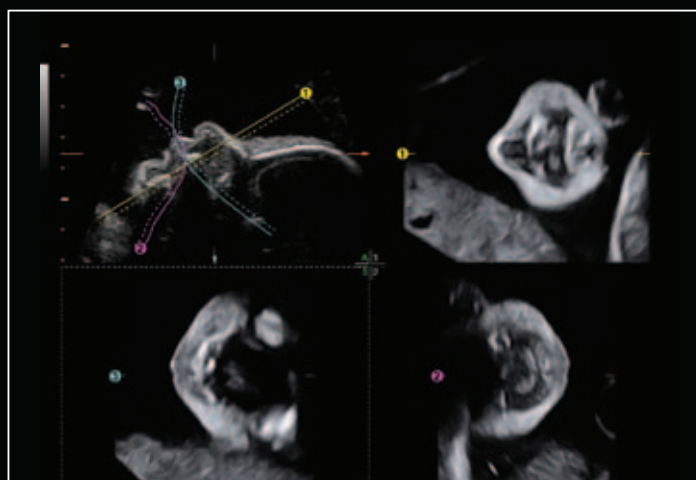
Second trimester fetal diaphragm and heart with SRI.



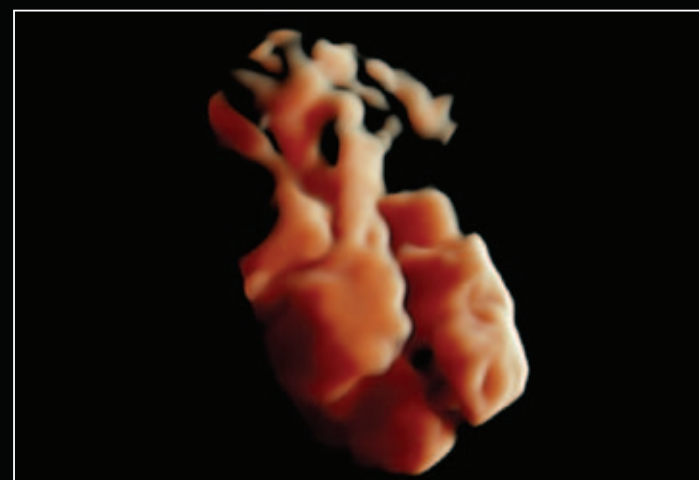
STIC with HD-Flow of 20 week fetal heart and great vessels.



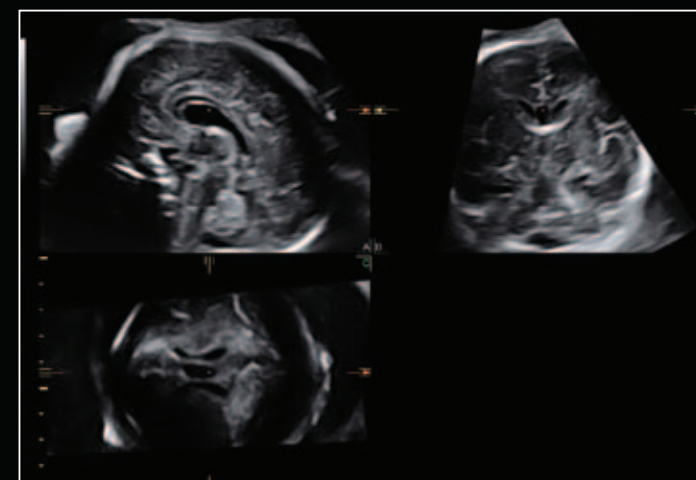
Anatomical M-Mode of fetal heart STIC volume.



Multiple planes of fetal facial structures with Advanced VCI with OmniView.



STIC with B-Flow in 23 week fetal heart rendered with HDlive.



3D multiplanar view of 30 week fetal brain with VCI.

## Advanced probe technology

Extraordinary vision starts with advanced probe technology. The Voluson Expert Series supports a wide range of 2D and 3D probes, enabling quality images – especially in first trimester and complex gynecological exams.

**RM6C and RM14L next generation volume matrix probes** for high-resolution convex and linear volume imaging.

**RAB6-D ultra-light volume probe** – User fatigue may be reduced with this next generation GE volume probe that is 40% lighter than the previous version. Its ergonomic design provides outstanding image quality in 2D and 3D/4D, features a pinless connector and sits comfortably in the clinician's hand.

**C4-8-D high frequency abdominal probe** helps provide exceptional high resolution obstetrical images during each trimester.

**C1-5-D abdominal probe** helps deliver a high level of performance and deep penetration – even on large patients.

**ML6-15-D linear probe** features matrix technology for breast imaging, providing excellent spatial resolution and image uniformity in a 50 mm footprint.

**9L-D wide-band linear abdominal probe** helps provide high-quality images in the first trimester.

**S4-10-D neonatal probe** is dedicated to neonatology applications.

**RIC6-12-D high resolution 4D endovaginal probe** helps detect fine details early in the first trimester and in gynecology exams.



# Helping improve patient care with automation

We understand your need for exam consistency and for data that can be consistently reproduced, regardless of which staff member is performing the ultrasound exam.

So, we continue to develop automated tools that help provide assistance in complicated exams and produce results you can count on.

**SonoBiometry<sup>†</sup>** – Performs a semi-automatic measurement of the head (both head circumference and bi-parietal diameter), abdomen and femur. This tool can help enhance clinical workflow through helping reduce keystrokes to perform biometry measurements.

**SonoNT (Sonography-based Nuchal Translucency) and SonoIT<sup>†</sup> (Sonography-based Intracranial Translucency)** – Voluson technologies that help provide semi-automatic, standardized measurements of the nuchal and intracranial translucency as early as 11 weeks. Both tools can integrate easily into your workflow. SonoNT helps avoid the inter-and intra-observer variability that comes with manual measurements, and helps provide you with the reproducibility you demand.

**SonoAVC<sup>†</sup> follicle (Sonography-based Automated Volume Count follicle)** – Automatically calculates the number and volume of hypoechoic structures in a volume sweep, helping improve efficiency and workflow of follicular assessment.

**SonoVCAD<sup>†</sup> heart (Sonography-based Volume Computer Aided Display heart)** – Helps standardize image orientation of the fetal heart by providing views automatically obtained from a single volume acquisition.

**SonoAVC<sup>†</sup> general** – Innovative research tool to help provide visualization and measurement of hypoechoic structures within anatomy such as the fetal brain, kidneys and gynecological sonohystograms.

**SonoVCAD<sup>†</sup> labor** – Helps you evaluate second-stage labor progression, and automatically documents the labor procedure with objective ultrasound data.



#### Fully-articulating arm

- Monitor turns independently of console to help improve visibility

#### Adjustable console

- Height adjusts electronically to user preference
- Console “floats” and smoothly locks into place
- Console keys are right where you need them

#### Easy transport

- One of the lightest and smallest premium consoles available
- Four-wheel swivel with steer and lock

#### 19-inch, high-resolution flat screen monitor

- Large screen helps reduce eye fatigue
- Large image size, picture area and clipboard size helps provide visibility and clarity
- Customizable screen enables side-by-side comparisons of current and previous exam results

#### Intuitive user interface

- Few keystrokes and manipulations
- 3D manipulations from trackball or rotation knobs
- Separate 3D and 4D buttons to help reduce keystrokes

In designing the Voluson E8, we were committed to keeping the clinicians who use it our priority. We envisioned a system that would be enjoyable to use on a daily basis. One that was intuitive, with customizable features to help increase user comfort. Our efforts resulted in an ergonomic system to help reduce fatigue, strain and repetitious actions. And just as important, a user-friendly system that allows you to focus more on the patient while scanning.

# Extraordinary workflow efficiency

Ease of use continues after image acquisition.

## ViewPoint\*

With our powerful ultrasound data management solution, you can help streamline workflow. Efficient digital connectivity gives you freedom and flexibility, and helps improve the archiving of images, volumes and structured reports.

- Help save time and improve accuracy by transferring image and measurement data with one click
- Interface with enterprise-wide systems, such as EMR and PACS for data when and where you need it
- Quickly create reports while capturing data for later analysis. Optimize, manipulate and analyze volume ultrasound data offline to free your ultrasound system for imaging more patients
- Access robust databases to document findings



## Join the club. VolusonClub.

VolusonClub is an online network of Voluson ultrasound users. Inside VolusonClub you will have access to tools and resources. These materials can help you enhance your knowledge of system operation, and teach techniques to help you improve your productivity.

Among the benefits of membership are:

- Educational videos on basic and advanced topics
- Tips and tricks
- White papers about clinical benefits of Voluson technology
- Listings of tradeshow and educational courses where GE will be attending
- Information on Voluson products and upgrades
- And much more!

**Learn, Network, Share at [www.volusonclub.net](http://www.volusonclub.net).**

## We're beside you all the way.

- Excellent service and support
- Remote applications support
- In-depth, hands-on training
- On-site applications training
- Commitment to innovation and a clear upgrade path
- Wide range of financing options

### About GE Healthcare

GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care. Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services help our customers to deliver better care to more people around the world at a lower cost. In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

Our "healthymagination" vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality around the world. Headquartered in the United Kingdom, GE Healthcare is a unit of General Electric Company (NYSE: GE). Worldwide, GE Healthcare employees are committed to serving healthcare professionals and their patients in more than 100 countries. For more information about GE Healthcare, visit our website at [www.gehealthcare.com](http://www.gehealthcare.com).

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### Environmentally responsible for future generations

The Voluson Expert Series ultrasound systems are among the most energy-efficient 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.

### A focus on improving healthcare

Better care for more people. Healthymagination is our commitment to continuously develop innovations focused on reducing cost, increasing access and improving quality of patient care. Voluson's suite of automated technologies are Healthymagination validated. This validation helps ensure that clinicians will not only reduce costs through improved efficiencies, but may also increase quality of care through standardization and ease of automation.

*†Not for sale in the USA.*

*Not approved or cleared by the U.S. FDA.*

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