Voluson E10

EXTRAORDINARY VISION

A NEW ERA OF IMAGING PERFORMANCE

The next breakthrough in imaging performance is here. The Voluson™ E10 expands on GE's established reputation for extraordinary image quality – offering new rendering technologies to deliver the best image quality you have ever seen from a Voluson.*

Radiance System Architecture, with its sophisticated beam formation and powerful processing, sets a new standard in imaging performance to give you*:

MORE CLARITY

4x Ultrasound Pathways for spectacular 2D and 3D/4D images with increased penetration.

MORE SPEED

10x the data transfer rate for higher resolution and very fast frame rates.

MORE FLEXIBILITY

4x the processing power for advanced applications and efficient workflow.

Maximize efficiency with modern ergonomic design

- Cutting-edge monitor technology – high resolution, widescreen OLED monitor
- Monitor features large clipboard and standard/XL image formatting
- 12.1" touch panel with multi-touch functionality
- Quick and easy 1-button control panel up/down function for optimal positioning

Simplified workflow

- Electronic TGC and efficient menu navigation with swipe technology
- Accurately transfer patient information to the Voluson E10 using a barcode scanner
- 4 active probe ports with port illumination

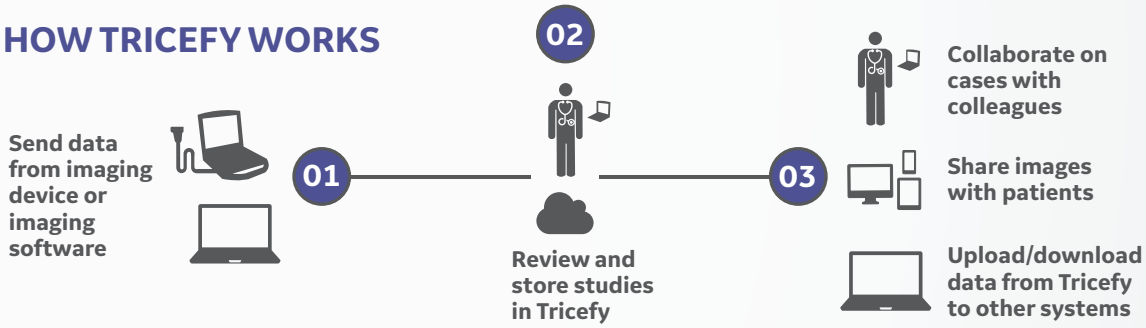
* Compared to Voluson Expert Series BT13

CONNECT & SHARE – SECURELY

In your increasingly digital world, the Voluson E10 presents unique offerings to digitally connect with image archiving systems, referring physicians and patients as well as records changes to data edits, deletions, etc. with user tracing.

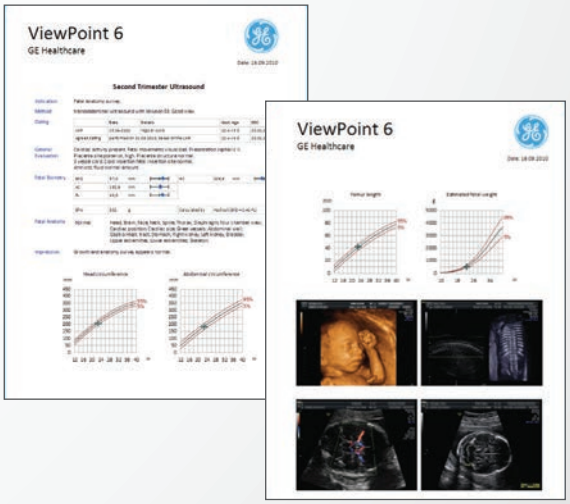
- Maintain patient privacy with user management and unique user login credentialing. The system can be easily configured to restrict access without proper login
- Integrated Software Digital Video Recorder (DVR), including USB recording
- Directly export 3D print files in multiple formats

GE Healthcare has partnered with Trice Imaging to provide an integrated cloud-based solution called Tricefy.™ Tricefy is embedded inside your Voluson and will allow you to archive and share your images and reports securely with colleagues and patients from any mobile phone, laptop or computer.



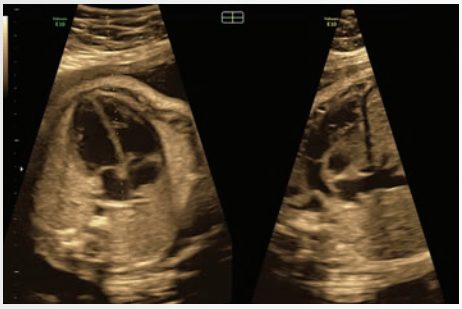
With ViewPoint,™ our powerful patient reporting and archiving solution, you can further simplify your ultrasound workflow though efficient digital connectivity giving you freedom and flexibility to optimize the archiving of images, volumes and structured reports. Share patient information with colleagues securely to get the answers the patients seek.

- Manage patient appointments with an intuitive clinical scheduler
- Transfer patient information and image/measurement data with seamless Voluson/ViewPoint synchronization
- Compare, review, post-process, and archive images and clips
- Create, modify and share high-quality reports
- Interface with enterprise-wide systems, such as EMR and PACS for data

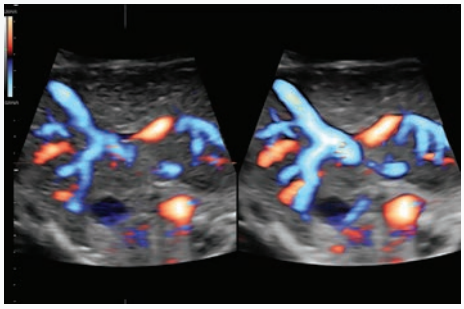


YOUR VISION – **NEW PERSPECTIVES**

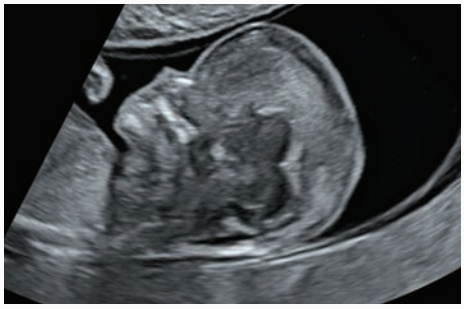
More detail, more clarity in less time... The Voluson E10 system's new rendering technologies offer you the best image quality you have ever seen from a Voluson.*



BiPlane-Electronic 4D offering ultra-fast volume rates and flexible imaging formats



Thick-slice abdominal flow with VCI-A and HD-Flow™

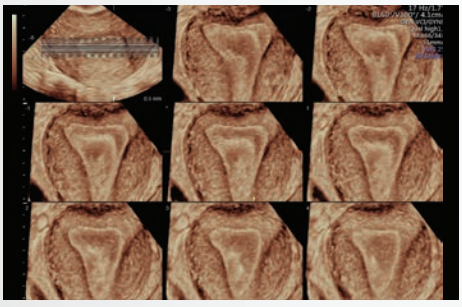


Excellent detail resolution allows analysis of tiny structures

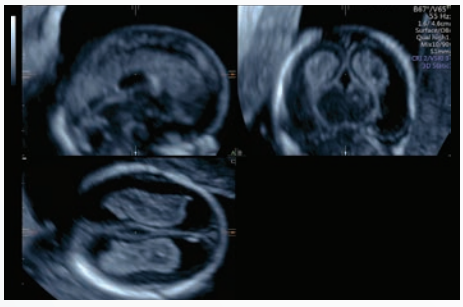
Electronic 4D

Radiance System Architecture, along with the eM6C probe delivers ultra-fast volume rates, flexible imaging formats and excellent resolution from routine OB exams to complex fetal echocardiography.

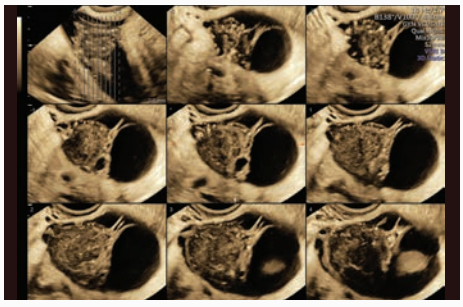
- **Bi-Plane imaging** provides simultaneous display of high resolution, high frame rate images in two perpendicular plans
- **VCI-A** (Volume Contrast Imaging) delivers excellent contrast resolution through thick slide volume of gray scale and color Doppler images
- ***e*STIC** (Spatio-Temporal Image Correction) enhances fetal cardiac exams with up to 75% reduction in acquisition time over traditional STIC
- **e4D SnapShot** optimizes you exam time with one button access from Real-time 4D to acquire high resolution 3D volume or *e*STIC datasets



TUI display of coronal uterus



Early brain details seen with VCI and V-SRI



TUI of ovarian mass with VCI

V-SRI

Improve 3D/4D quality in multi-planar studies to enhance smoothing effect on rendered images through speckle reduction.

Advanced VCI

Adjusts slice thickness on 3D or 4D images to help enhance contrast resolution with use of render techniques such as bone and tissue renderings. Can be applied in the acquisition plane (VCI-A), static 3D volumes or OmniView.

OmniView

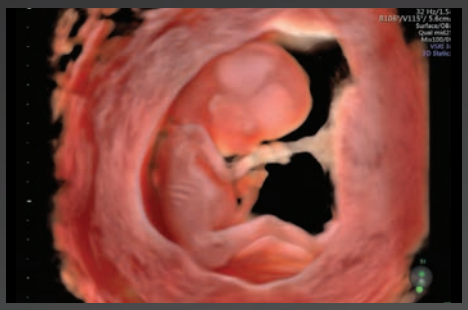
Obtain any plane from a 3D or 4D volume by simply drawing a line, curve, poly-line or trace through a structure. This valuable technology enables views of even irregularly shaped structures not attainable in 2D imaging.

SonoRender*live*

Facilitate volume rendering with an automated placement of the render line for optimal surface rendering. SonoRender*live* continuously updates render line placement with fetal movement during 4D examinations.

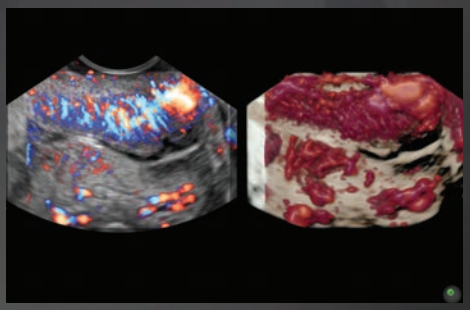
HD*live*™

The suite of HD*live* technologies brings unprecedented anatomical realism through advanced skin illuminating and shadowing techniques to help reveal a unique perspective.

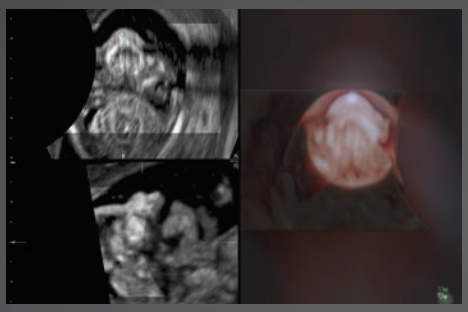


14 week bony details seen with HD*live* Studio

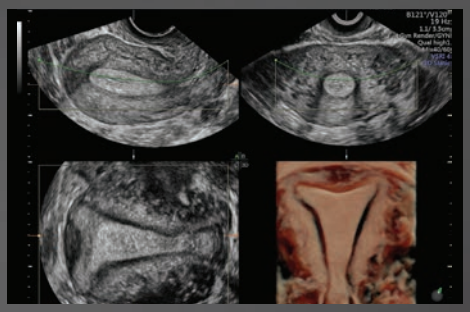
Crossing of great vessels seen with HD*live* Flow Silhouette



HD*live* Flow – High sensitivity and resolution in cervix



Stunning anatomic realism, 14 week fetal palate with HD*live* Studio

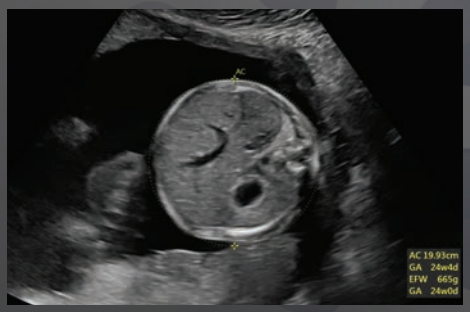


Detailed coronal endometrium with HD*live* Studio

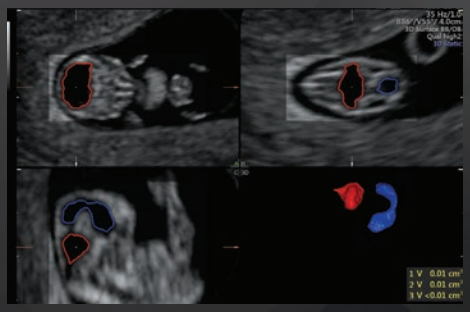
Cystic hygroma details seen with HD*live* Silhouette

- **HD*live* Silhouette** – Dynamically apply targeted transparency to rendered structures for a more comprehensive view of anatomy from solid surface structure to developing internal anatomy
- **HD*live* Studio** – Illuminate anatomy and fluid with up to three independent light sources of variable color, intensity and direction to focus on even the tiniest of structures
- **HD*live* Flow** – Clearly display vascular structures with greater dimension – from small vessels to the great arteries
- **HD*live* Flow Silhouette** – Visualize blood vessels from a surface or targeted transparent view to provide greater insight into vascular anatomy and surround structures

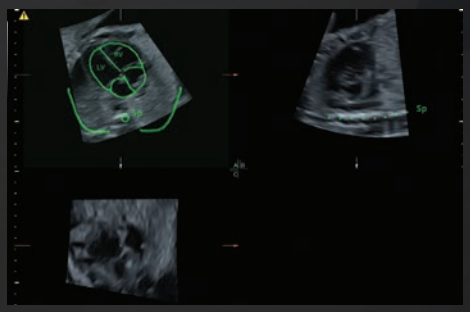
SonoNT – semi-automated nuchal translucency



SonoBiometry – semi-automated abdominal circumference



SonoAVCgeneral applied to brain structures



SonoVCAD heart (Sonography-based Volume Computer Aided Display heart)

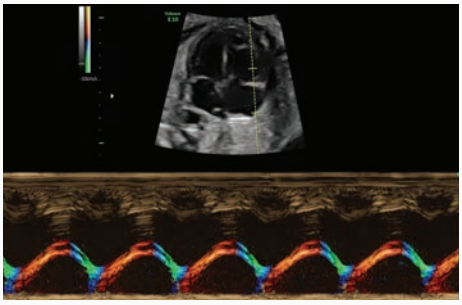
GAIN EFFICIENCY WITH AUTOMATION

Your day is more than just scanning. Easy-to-use automation and enhanced ultrasound workflow tools help simplify the patient exam process to address your busy practice and increase patient satisfaction.

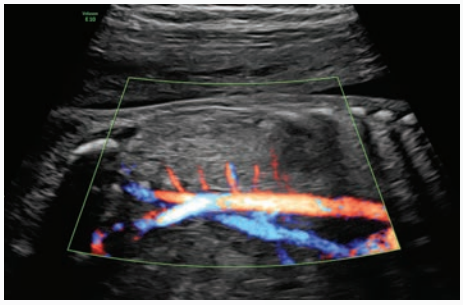
- **SonoNT™** (Sonography-based Nuchal Translucency) and **SonoIT** (Sonography-based Intracranial Translucency) – Voluson technologies that help provide semi-automatic, standardized measurements of the nuchal and intracranial translucencies in the 1st trimester. Both tools can integrate easily into your workflow. SonoNT helps reduce the inter- and intra-observer variability that comes with manual measurements, and helps provide you with the reproducibility you demand
- **SonoBiometry** – Performs semi-automated biometry measurements (BPD, HC, AC, FL and HL) to help reduce keystrokes
- **SonoAVC™*general*** (Sonography-based Automated Volume Count 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™*heart*** (Sonography-based Volume Computer Aided Display heart) – Helps standardize image orientation of the fetal heart by providing recommended views obtained from a single volume, STIC or *e*STIC acquisition
- **Scan Assistant** – Flexible, customizable exam protocol tool that helps increase exam consistency and productivity while documenting for quality assurance purposes. Helps guide you through an exam more efficiently aiding in annotation, measuring, and reporting, transferring data to an image management system or PACS based system on your order sequence and output requirements

FLEXIBILITY AND CLARITY
VOLUSON TRANSDUCERS

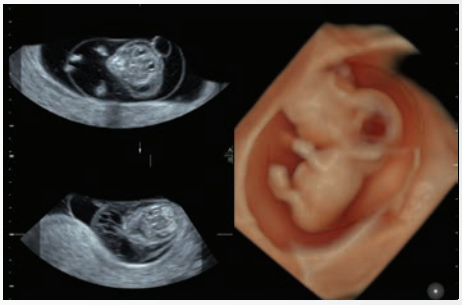
See with more clarity than you every thought possible with your Voluson transducers. The Voluson E10 offers a suite of transducer technologies to meet your unique clinical needs – including enhanced image quality on many existing transducers.



RM6C. Tissue Doppler with M-Mode for tricuspid valve assessment



9L-D. Lumbar arteries with HD-Flow



RIC5-9. Cystic hygroma details seen with HD*live* Silhouette

Matrix Transducers

eM6C curved electronic matrix 4D probe, delivers ultra-fast volume rates, flexible imaging formats and excellent resolution. Technology offers unique imaging and workflow features for routine OB exams to complex fetal heart exams.

RM6C volume matrix probe for high-resolution convex volume imaging.

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

High Frequency Transducers

9L-D 2D linear abdominal probe helps provide high quality images in the 1st trimester.

RIC6-12-D high resolution 4D endovaginal probe helps visualize fine details early in the 1st trimester and in gynecology exams.

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

High Utilization Transducers

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

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

RIC5-9-D 4D endovaginal probe – Multi-purpose probe for routine obstetric and gynecology exams.

JOIN THE CLUB. **VolusonClub.**

Among the benefits of membership are:

- Product educational videos on basic and advanced topics
- Product tips and tricks
- White papers about clinical benefits of Voluson technology
- Listings of tradeshows and educational courses where Voluson will be available
- Information on Voluson products and upgrades
- And much more!

Learn, Network, Share at www.volusonclub.net.

At your service – throughout the relationship

With the Voluson E10, you can count on responsive service and support from GE Healthcare. We know that a long-term relationship depends on providing you with technologies and programs that truly meet your needs for equipment maintenance and service, transducer protection and financing.

Imagination at work

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.

January 2017
JB45641US