

GE Healthcare

# Voluson *i*

Extraordinary vision

Compact series



# Extraordinary vision to care for your patients.

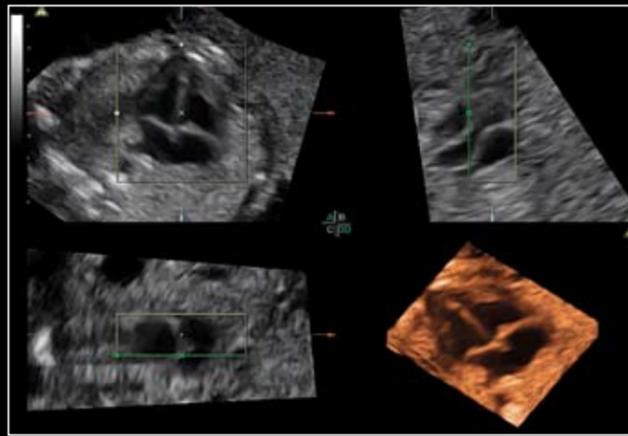
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Your needs shape the future of ultrasound. It's your feedback that drives every technological advancement that has made GE Healthcare's Voluson® a leader in women's health ultrasound. Working together, we continually evolve the Voluson family of compact ultrasound systems. It's part of our commitment to provide you with ultrasound systems that help deliver extraordinary vision to help you provide extraordinary care for your patients.

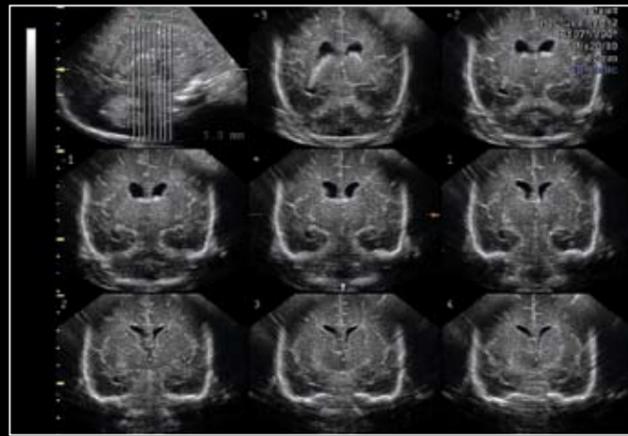
That means making pivotal patient care decisions in every chapter of a woman's life. Covering virtually all applications from adolescence, preconception and pregnancy to gynecology, breast and post menopausal care. Achieving excellent console-quality performance in an expert-level portable package that can easily accompany you to your patients. The ability to clearly see important clinical details from virtually any plane with advanced image clarity and diagnostic capabilities. Applying advanced technology to help enhance examination and diagnosis of the fetal heart. And the ability to analyze volume images in real time by utilizing innovative 3D and 4D technologies.

That's the power of Voluson *i*. It's designed to be an emerging women's health volume compact system to give you the extraordinary vision needed to help you confidently scan women throughout all stages of their lives.





Spatio-Temporal Image Correlation (STIC) acquisition with rendering using SRI on a second-trimester gestation

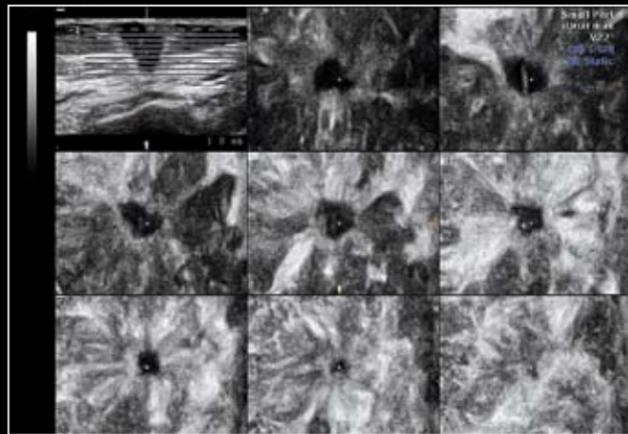


TUI display of neonatal brain demonstrating normal brain parenchyma

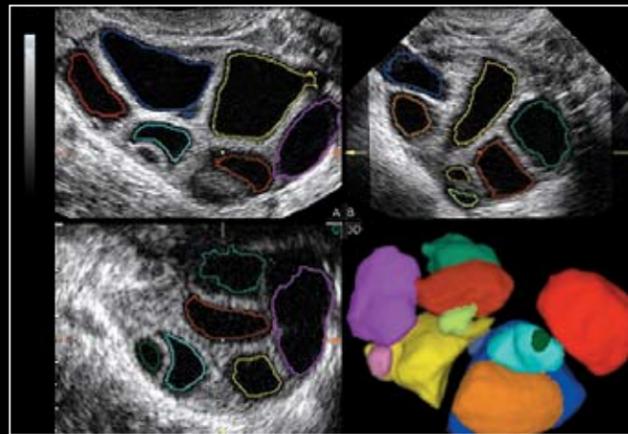


First trimester fetus showing SonoNT measurement

# Extraordinary vision



TUI demonstrating abnormal breast lesion with spiculated pattern and excellent tissue contrast resolution



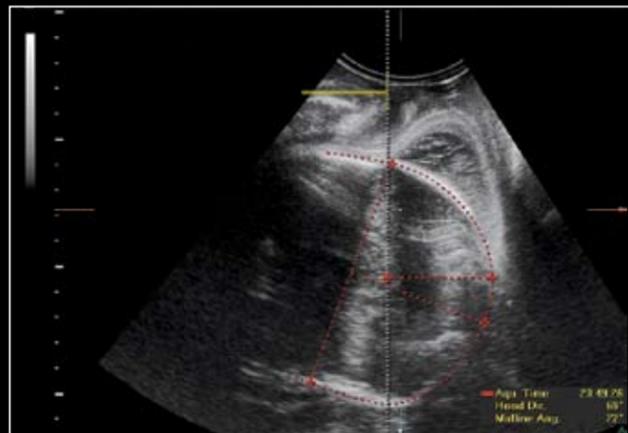
Stimulated ovary using SonoAVC<sup>™</sup> follicle; a single 3D volume through the ovary automatically measures and displays more individual follicles



SonoVCAD<sup>™</sup> heart reference image displays graphic plane that is matched to the four-chamber heart image; once matched, the system can automatically obtain five separate views of the fetal heart



Multiplanar image of an abnormal uterus; fundal fibroid enhanced with SRI



SonoVCAD<sup>™</sup> labor software demonstrating multiple parameters available to help assess labor progression



SonoRender Start helps provide fast access for surface rendering. Following volume acquisition (left image), activating SonoRender Start helps reveal the fetal face (right image) without additional manipulations.

## Innovations in 2D and 3D image quality:

**Speckle Reduction Imaging (SRI) and CrossXBeam<sup>CR</sup>** deliver advanced computational power, allowing for simultaneous processing of CrossXBeam<sup>CR</sup> and SRI together – enabling added speckle reduction, contrast resolution and image clarity.

**HD-Flow<sup>TM</sup>** uses a bi-directional Doppler feature to help achieve a more sensitive vascular study and help reduce overwriting.

**Volume Contrast Imaging (VCI)** allows for image quality in either a single plane or all three planes of a volume acquisition.

## Innovations in volume imaging:

**3D/4D Expert** is an optional package that contains a suite of volume tools, including real-time 4D, static 3D, Tomographic Ultrasound Imaging (TUI) and Virtual Organ Computer-aided Analysis (VOCAL).

**Tomographic Ultrasound Imaging (TUI)** can make analysis and documentation of dynamic studies easier with a simultaneous view of multiple parallel slices of a volume data set (included in the 3D/4D Expert package).

**Virtual Organ Computer-aided Analysis (VOCAL)** is a semi-automated volume measurement tool that utilizes computer technology to provide accurate volume calculations (included in the 3D/4D Expert package).

## Innovations in probe technology:

Extraordinary vision starts with advanced probe technology. The Voluson *i* supports a range of 2D and 3D/4D probes to meet your imaging needs, including convex, high-frequency linear, transvaginal and micro-convex probes.

## Innovations in fetal heart imaging:

**Spatio-Temporal Image Correlation (STIC)** is a technology that was pioneered by Voluson engineers and has now migrated from Voluson consoles to the Voluson *i*. STIC captures a full virtual fetal heart cycle in real time, and the volume can be saved for offline analysis.

**SonoVCADheart** (Sonography-based Volume Computer Aided Display *heart*) is an automated proprietary tool that assists in generating standard views of a fetal heart from a four-chamber view and complies with the recommended standard examination of the fetal heart.

## Innovations in automation:

**SonoNT™** (Sonography-based Nuchal Translucency) – An exclusive new technology that provides semi-automatic, standardized measurements of the Nuchal Translucency as early as 11 weeks. This tool helps avoid the inter- and intra-observer variability that comes with manual measurements, as well as over- and underestimation. SonoNT helps provide you with the reproducibility you demand and can integrate easily into your workflow.

**SonoVCADlabor** (Sonography-based Volume Computer Aided Display *labor*) is a proprietary 3D automated tool that helps you to confidently measure fetal head progression, rotation and direction while automatically documenting the labor procedure with objective ultrasound and manual data in one easy report.

**SonoAVCfollicle** (Sonography-based Automated Volume Count *follicle*) automatically calculates the number and volume of hypoechoic structures within a user defined region of interest in a volume sweep, helping improve efficiency and workflow of follicular assessment.

**SonoRender Start** – New auto optimization tool expands into 3D examinations, helping make 3D rendering easier for all users.

# Helping you improve your efficiency

**Voluson Station** features an advanced design that empowers you to maximize the use of your Voluson compact system. The Station design transforms your Voluson compact into a cart-based system. Whether you require the convenience of a portable, or the stability of a more stationary system – you can rely on the exceptional image quality you expect from a Voluson.

**SmartNetwork connectivity** allows the user to save different network profiles in an easy setup wherever Voluson *i* is being used.

**Wireless capabilities** enable data transfer, including DICOM, to a workstation for storage and future analysis.

**ViewPoint** – our powerful ultrasound data and image management solution – combined with Voluson *i* makes it easy to archive images and volumes, create structured reports and more.

**InSite™ ExC** directly connects Voluson *i* to live clinical applications and technical support experts at GE Healthcare.

**VolusonClub membership** connects a global network of Voluson users – Learn, Network, Share at [www.volusonclub.net](http://www.volusonclub.net).

The **Go Pack** provides a protective, sturdy, lightweight option to carry your compact. Shoulder strap, wheels and retractable handle provide further convenience.



## Extraordinary vision for the environment

The Voluson compact 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.

## 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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imagination at work

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healthymagination