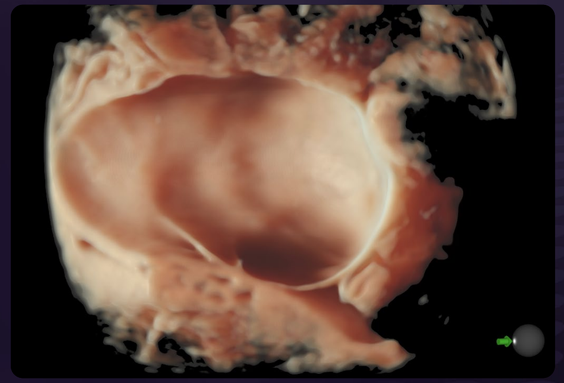
GE HealthCare

Voluson Expert 20

Go Beyond the Limits

Voluson™

A Healthier Future for Women



Driven to outperform, outpace, and outdo the impossible. Your world is fueled by determination. Finding critical answers to deliver your best patient care while managing a busy practice. To make the greatest impact, you need to go further, faster.

That's why we created the Voluson Expert 20. Because you and your patients demand the highest quality and performing ultrasound system.

Go beyond your current limits with our premium ultrasound system designed for your increasingly complex cases and demanding schedule. Discover life-changing answers with next-level imaging for faster assessment, detection, and diagnosis. And save valuable time with breakthrough Artificial Intelligence (AI) and automation tools that uncover new efficiencies at every step.

With the Voluson Expert 20, accelerate your momentum and experience more possibilities than ever.

Expand your capabilities

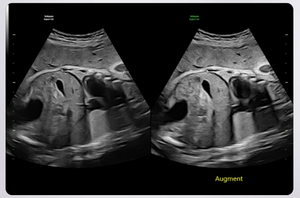
Faster. Sharper. Clearer. Amplify performance and simplify scanning with our most advanced architecture yet, that unlocks new imaging and processing power. Generate spectacular 2D/3D and color Doppler images with increased penetration and stunning clarity, to help visualize critical details needed for diagnostic assurance.

Expand your imaging capabilities with the most powerful engine to date, the **Lyric Architecture**. It delivers the most progressive and adaptive capabilities yet to achieve high-resolution, detailed images – independent of body habitus and other difficult scanning conditions. The Lyric Architecture:

- Generates new levels of penetration, resolution, and frame rates to reveal fine anatomy in 2D/3D/4D with ease
- Delivers uniformity throughout the image with increased spatial and contrast resolution
- Works in harmony with our probe technology offering advanced imaging options
- Opens doors to unique Voluson imaging capabilities

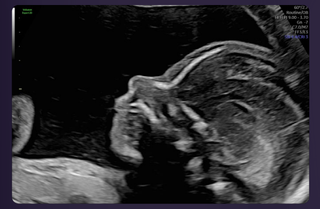
Lyric Architecture allows you to set new standards in image quality for years to come.

Amazing detailed tissue differentiation

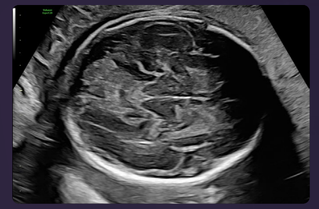


Shown on and off, Augment helps reduce noise while increasing penetration for a robust, cleaner image even in difficult to scan situations like high body mass index (BMI)

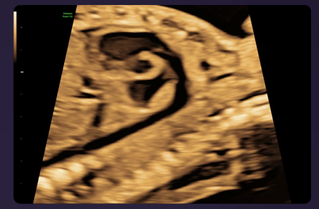
2D imaging



21-week fetal profile

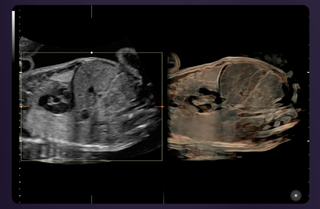


26-week fetal brain

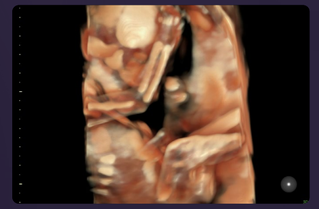


Ductal arch clearly defined at 27 weeks

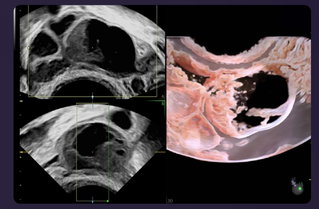
3D Imaging



Diaphragm highlighted with HD*live*™ Silhouette in a 26-week fetus

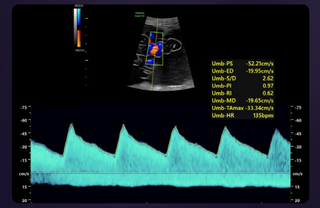


Visualize the highly detailed bone structure of 21-week fetus with HD*live* Studio



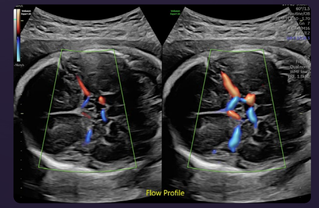
Ovary imaged with RIC10-D and HD*live* Studio

Color Imaging



Umbilical artery pulsed wave Doppler, automated with Flow Profiles

27-week abdomen with Slow*flow*HD



Circle of Willis shown with Radiant*flow*,™ automated with Flow Profiles

Refine your clinical insights

Rely on the Voluson Expert 20 to help you uncover crucial answers with ease—when accuracy and timing mean everything. Our full suite of industry-leading tools and advanced probe technology provide the image detail, speed, and flexibility you need to support early detection and intervention.

Early Pregnancy

Improving detection rates of chromosomal and structural anomalies in the earliest stages of development is critical for better decision making. With small anatomy, exposing anomalies requires clear, high-resolution imaging and simplified assessment tools. With features like **SonoNT** and **HD*live* Studio**, you can feel confident seeing even the tiniest detail.

Fetal Heart

Identifying fetal cardiac abnormalities earlier means you can intervene sooner, plan for delivery, and potentially improve outcomes. The Voluson Expert 20 provides progressive tools to help distinguish the tiniest structures with stunning clarity to detect patient answers faster.

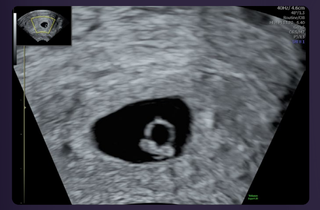
Pelvic Health

Symptoms such as pelvic pain, post-menopausal bleeding, genitourinary dysfunction, and infertility can be confusing and concerning for your patients. Exceptional imaging and advanced analysis tools like **Fibroid Mapping** and **SonoPelvicFloor**[2.0] can provide clinical insights into gynecological health.

Fibroid Mapping

Illustrate position of fibroids and relationship to endometrium in 3D. Classify each fibroid according to FIGO[6] classification, while simplifying communication with colleagues, referring physicians and patients.

Pregnancy

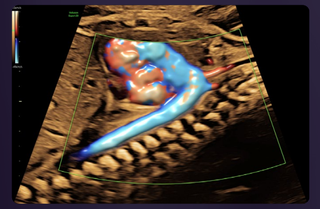


6-week embryo acquired with the RIC5-9 probe

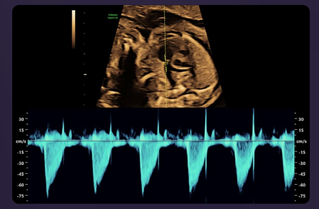
Nuchal Translucency measurement automated with SonoNT

8-week embryo with HD*live* Studio

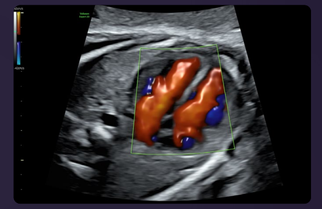
Fetal Heart



Aortic arch shown with Radiant*flow* in a 26-week fetus

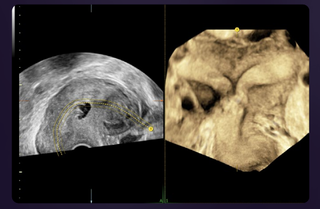


Pulsed wave Doppler on the right ventricular outflow tract (RVOT)

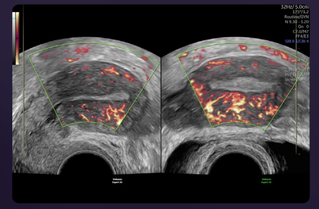


33-week 4-chamber heart with Radiant*flow*

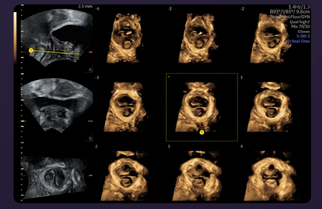
Pelvic Health



Septate uterus rendered with Uterine Trace



Uterine blood flow with Slow*flow*HD



Serial planes of the pelvic floor anatomy, demonstrated using AI-driven SonoPelvicFloor[2.0]

Accelerate your efficiency

Experience a new level of efficiency with the highly intuitive and customizable ultrasound that promotes progress and productivity. Save time, save steps, and save effort by leveraging the power of Artificial Intelligence (AI) and easy-to-use automation tools that streamline workflows and make a real impact every day.

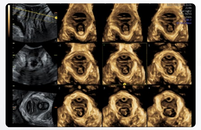
SonoLyst

Save up to 40%* on routine 2nd trimester exams with SonoLyst. It is your virtual on-board expert utilizing the power of AI to identify fetal anatomy seen on standard views while enhancing efficiency by adding annotations and measurements.

SonoLyst*ive*: No freezing, no annotating, no storing. SonoLyst*ive* takes image recognition to the next level by capturing images as you scan, in real-time. Using ISUOG practice guidelines, the system recognizes the anatomy as you scan, captures the image and checks it off the list of required views significantly reducing keystrokes and exam time.

SonoLystIR: Simply scan, then freeze and SonoLystIR (Image Recognition) does the rest. Using ISUOG practice guidelines, SonoLystIR automatically detects the 21 recommended views. It identifies anatomy, then selects all applicable annotations and measurements. Confirm, and data is entered into the Scan Assistant checklist and report, enhancing workflow and reducing variability between operators for improved consistency.

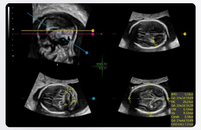
SonoLystX: Build and refine your skills with SonoLystX. Using AI, the system compares the image or view acquired to standard criteria accepted by experts to ensure it meets clinical standards. SonoLystX can help enhance accuracy and quality with anatomy diagrams plus the ability to insert image examples. Ideal for teaching and training, progress can be monitored for quality assurance to ensure the highest quality imaging standards and consistency.



SonoPelvicFloor2.0

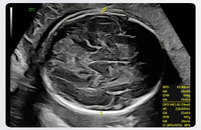
Analysis of the pelvic floor anatomy can be complicated. Through AI, SonoPelvicFloor2.0 simplifies the exam process by automating, plane alignment, live C-plane tracking, and measurements while offering workflow guidance to improve efficiency while eliminating uncertainty.

Utilizing SonoPelvicFloor can help reduce your pelvic floor measurement exam time by 80%.*



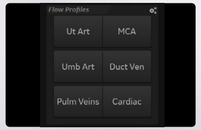
SonoCNS

AI-driven SonoCNS supports consistent measurements and helps drive workflow efficiency by helping align and display recommended views and measurements of the fetal brain from a 3D volume.



SonoBiometry

Repetitive tasks are a daily challenge especially in fetal assessment. SonoBiometry helps reduce keystrokes and improve exam time by automatic caliper placement and fetal measurements of bi-parietal diameter (BPD), head circumference (HC), abdominal circumference (AC), femur length (FL), humerus length (HL), cerebellum, cisterna magna, and lateral ventricle.**



Flow Profiles

Simplify color and pulsed wave Doppler modes with predefined and optimized preset tool, Flow Profiles. Easily move through.

*Versus manual exam time.
**As compared to manual measurements.

Modern yet familiar user interface incorporating Voluson's simple and seamless workflow.

The 23.8" LED monitor display offers 3 image sizes including unique full screen imaging that allows you to work comfortably and see finer details with ease.

Personalize the user interface for your unique preferences and select system colors to suit your mood with more than 4,000 color combinations.

Customizable touch panel for user individuality and productivity.

Conveniently located probe ports for easy access.

Work smarter using Respond probe activation which automatically initializes probes and presets when removed from the probe holder.

Effortlessly incorporate security into daily workflow to log on using RFID.

Integrated gel warmer to enhance patient experience.

Exceed your expectations

Experience more—more services, more support, and more future-focused solutions. Get connected and leverage our entire ecosystem for expert advantages now and in the future.

Take advantage of clinical and technical education, along with training support, to help you provide the highest quality of care and achieve operational excellence.

Education and Training

Manage your total cost of ownership while improving system uptime with maintenance contracts and features like OnWatch™ proactive monitoring with InSite™ connectivity.

Maintenance, Repair, and Remote Support Services

A continuum of support for your probes, including disinfection and hygiene solutions. Stay a step ahead with Probe Check, which assesses the health of your probes and can alert you to potential issues.

Probe Repair and Hygiene Solutions

Updates, Upgrades, and Device Protection

Download critical Windows® patches, security updates, and Voluson extension release software at your convenience with our eDelivery® service to reduce interruptions or delays. Protect your ultrasound system from cyber-attacks with Voluson's comprehensive SonoDefense solution including Remote Operating System (OS) updates to keep your devices secure and running smoothly.

Performance Optimization Solutions

Maximize the performance, workflow and utilization of your Voluson ultrasound system using Imaging Insights, iCenter Performance Management tools and other digital solutions.

ViewPoint™ 6

ViewPoint 6 is a dedicated ultrasound reporting and image management solution with enhanced features to help improve workflow.

*Not available in all countries.
**WLAN required.

Image Sharing

Easily share selected images with patients directly from your Voluson ultrasound system to their email or QR code access to patients' mobile phone through Voluson Image Portal.**

Tricefy inside – Unique cloud-based solution to share, collaborate, and archive ultrasound images and reports securely with colleagues and patients directly from your Voluson.

Tricefy™

Voluson Club

Like family, we are here for you. The only ultrasound community dedicated to the education and collaboration of women's health practitioners to help expand your expertise and your practice.

GE HealthCare

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