GE HealthCare

Voluson Expert 22

You Set the Limits

Voluson™
A Healthier Future for Women

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Voluson **Expert 22**

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Voluson™
A Healthier Future for Women

You Set the Limits

You set out to make a difference. You became a leader.
Medicine is who you are. Women's health—your life, your legacy.

Your eye is focused on 'right now', but you are envisioning 'what's next', finding answers to questions that have yet to be asked.
And the more you know, the more you want to know.

That's why we created the Voluson Expert 22 - to help you:

REVEAL THE INVISIBLE
DETECT THE UNDETECTABLE
ACHIEVE THE UNACHIEVABLE
EXPECT THE UNEXPECTED

It's a milestone in the making.
Not the end of a path, but the continuation of a journey.

Because like you, we don't just hope for a Healthier Future for Women.
We insist on creating it.

Voluson Expert 22 – You Set the Limits

It’s more than you ever thought possible. And in your hands, there’s endless potential.

Imaging - Reveal the Invisible

Experience next-level imaging capabilities to help see details

Early Detection - Detect the Undetectable

Uncover critical answers sooner for faster assessment, detection, and diagnosis

Workflow - Achieve the Unachievable

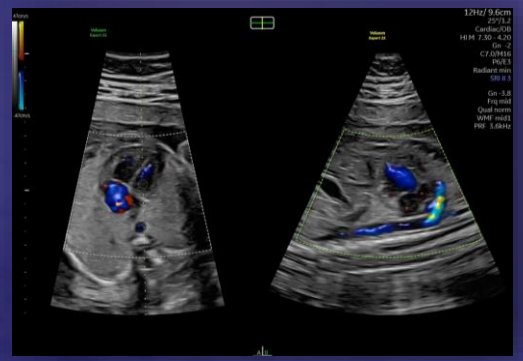
Remove obstacles and drive productivity

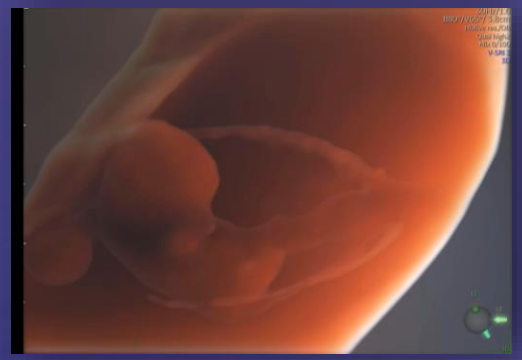
Support Excellence - Expect the Unexpected

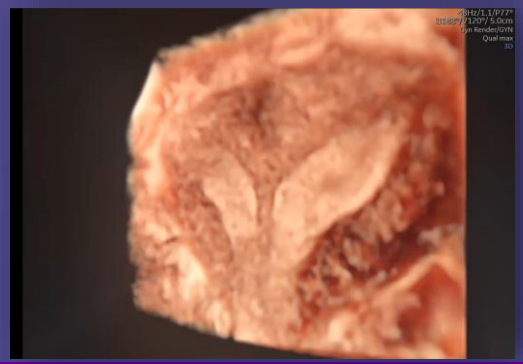
More services. More support. More future-focused solutions. Finally, a partnership that won’t leave you wanting more.

Voluson Expert 22

- Voluson’s first **ultra premium** ultrasound system
- The **most powerful and adaptive platform** to date to help clinicians establish new standards
- **Lyric Architecture** generates new levels of clarity, penetration, and resolution to reveal fine anatomy in 2D/3D/4D with ease
- **Specialized imaging tools** help users detect and diagnose uncovering answers faster to complex and routine exams
- Modernized iconic **Voluson workflow**, with new personalization options, help ease your workday
- **Advanced efficiency** in daily exams with Artificial Intelligence and automation to reduce repetitive actions and inconsistent results







Reveal the Invisible

Imaging Excellence

Reveal the Invisible – Imaging Excellence

The Voluson Expert 22 is prepared to show you more than you ever thought possible. We are taking innovation further, making it easier to collect more information at record speeds for even faster, sharper, and clearer imaging. The Voluson Expert 22 will help you see critical details required for a confident diagnosis.

Lyric Architecture

Unlock new imaging and processing power to achieve high resolution, detailed images.

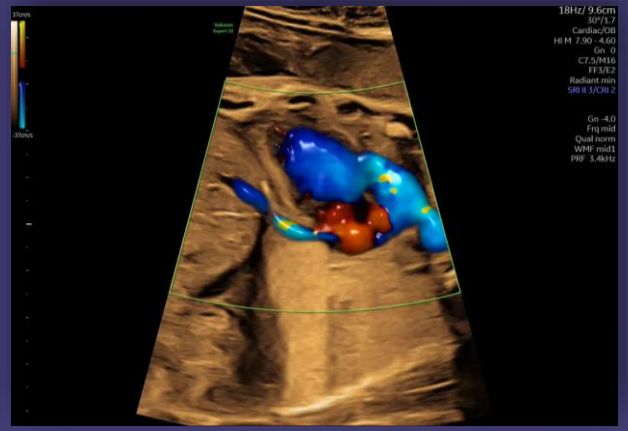
2D Imaging

Uncover answers by elevating your 2D imaging with exceptional spatial and contrast resolution for distinct border and tissue differentiation with UltraHD, Augment, and Radiant imaging.

Volume Imaging

Visualizing anatomy from another view can be the difference between delaying or making a confident diagnosis. Discover the next generation of 3D/4D imaging featuring our new HD*live*™ Studio+.

Color Imaging



Make blood flow assessment faster and easier with advanced Voluson technologies. Increased resolution and sensitivity in color and pulsed wave Doppler for unprecedented clarity.

Lyric Architecture

How do you find a needle in a haystack? Build a powerful engine with the most progressive and adaptive capabilities yet.

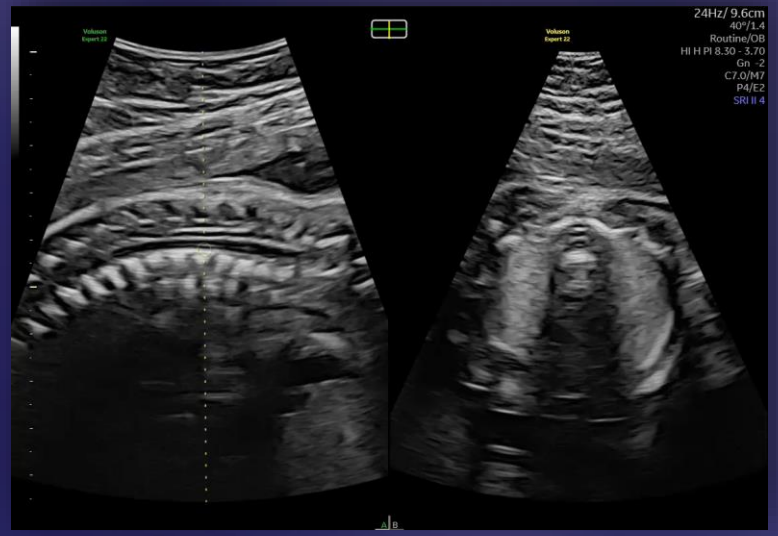
The Lyric Architecture unlocks new imaging and processing power to achieve high resolution, detailed images – independent of body habitus and other difficult scanning conditions.

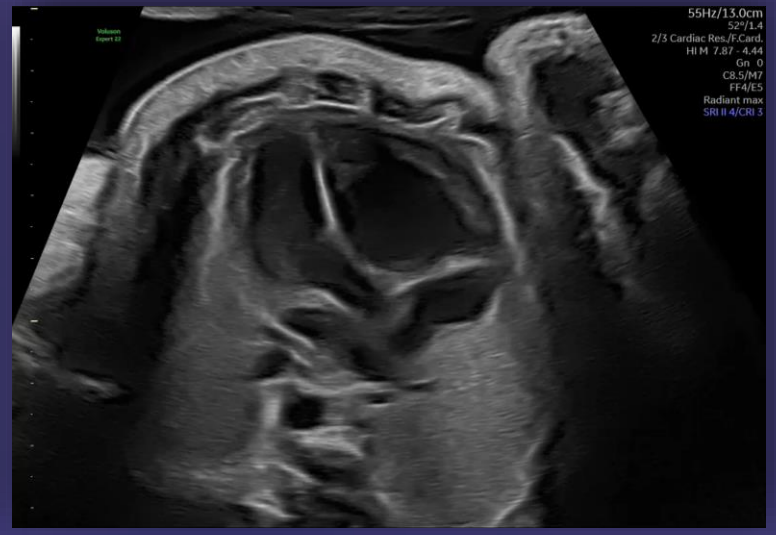
- Graphic-based beamforming that generates new levels of penetration, resolution, and frame rates to reveal fine anatomy in 2D/3D/4D with ease
- Delivers uniformity throughout the image with increased spatial and contrast resolution
- Works in harmony with our unique probe technology offering advanced personalized imaging to address patient challenges
- Opens doors to unique Voluson imaging capabilities

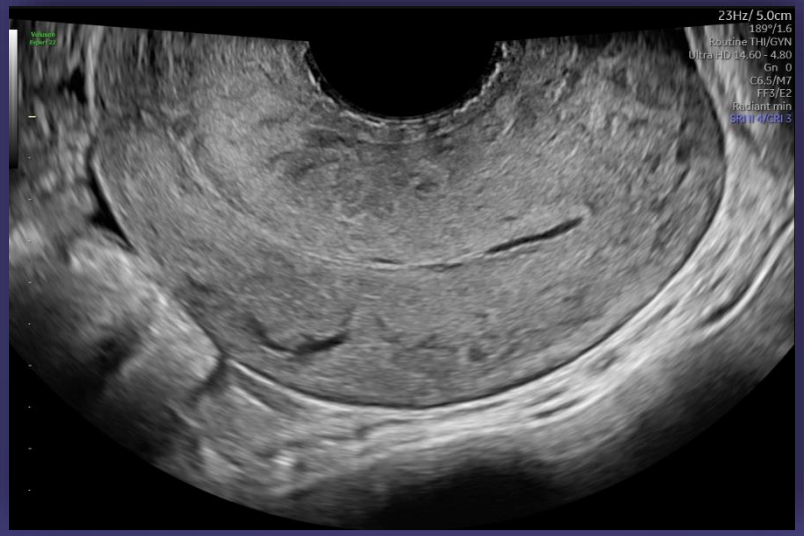
Generations ahead of other ultrasounds, the Lyric Architecture allows you to set new standards for years to come

The Ultimate Foundation – 2D Imaging

To uncover answers, you depend on details. The Voluson Expert 22 elevates 2D imaging with exceptional spatial and contrast resolution to enhance border distinction and tissue differentiation.





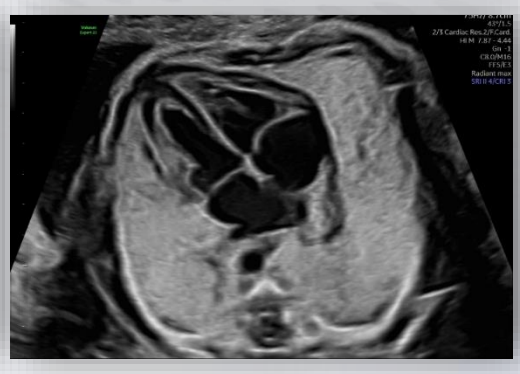


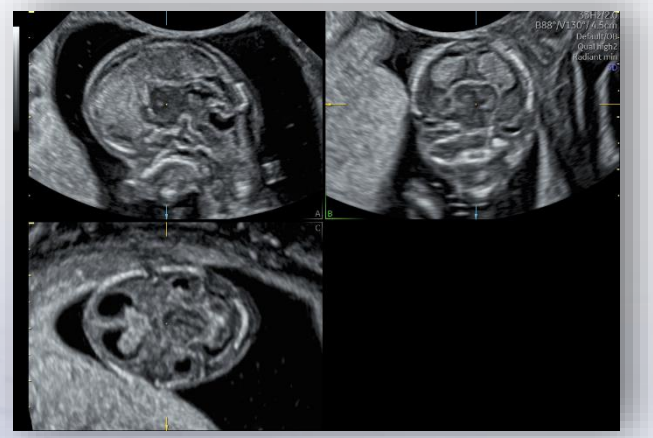
Radiant – Reach New Heights

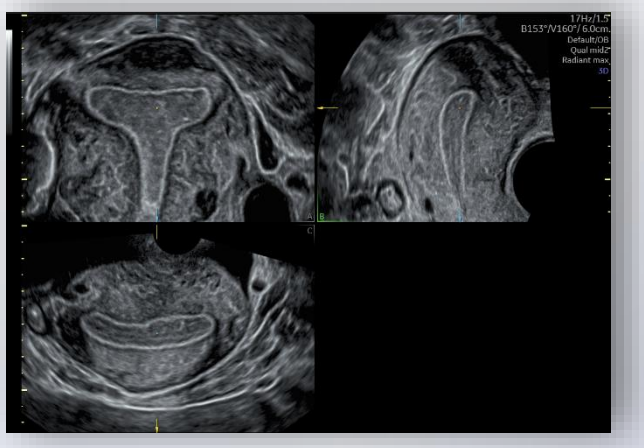
Enhance border visibility by changing elevation levels for a 3D-like appearance, which aids in crucial border differentiation in anatomy such as brain and fetal heart.

- Change the elevation visualization – Off – Min - Mid – Max
- Enhances spatial and contrast resolutions
- Now available in multi-planar views
- Better imaging across all planes

Off/Max Comparison

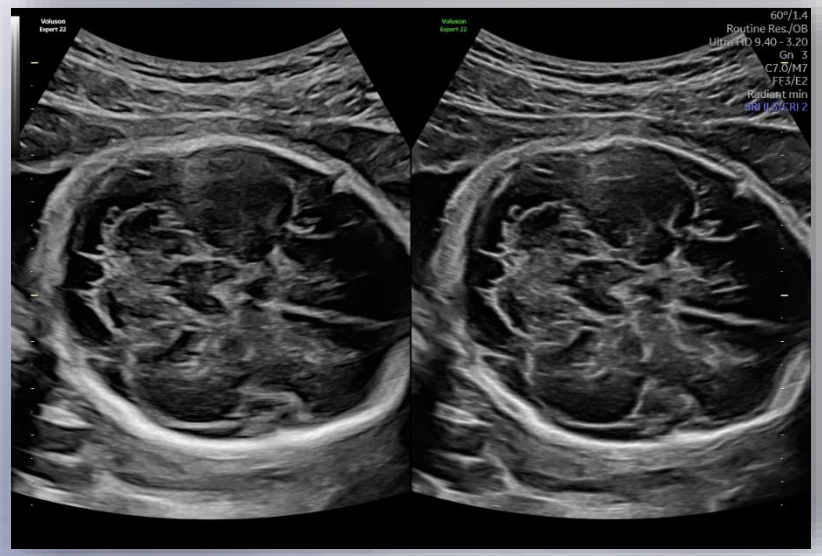


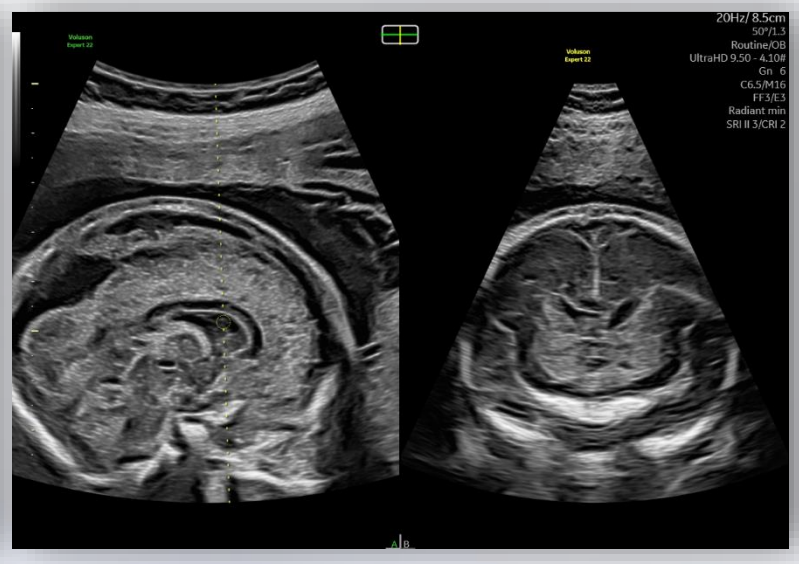




UltraHD – Visualize Super Fine Details

Obtain highly detailed images of the fetal brain, first trimester development, and other complex anatomy with increased axial and lateral resolution.

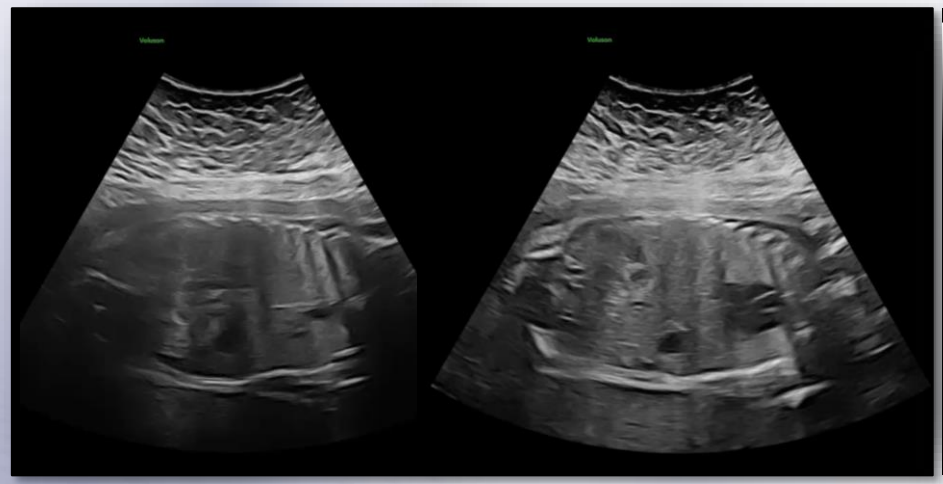




On/Off Comparison

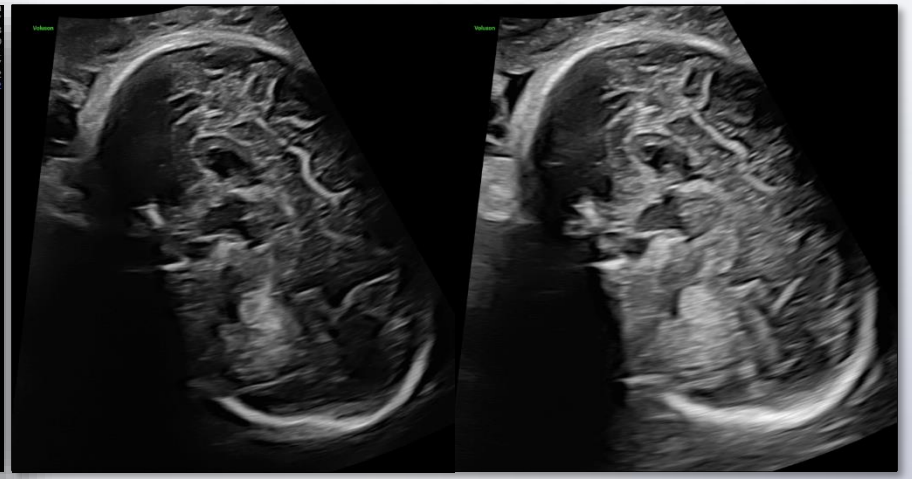
Augment – Simplify Challenging Exams

Cleaner, more robust images even in difficult to scan situations like high body mass index (BMI) when utilizing the Augment feature to reduce noise and increase penetration.



Off/On Comparison

BMI >50

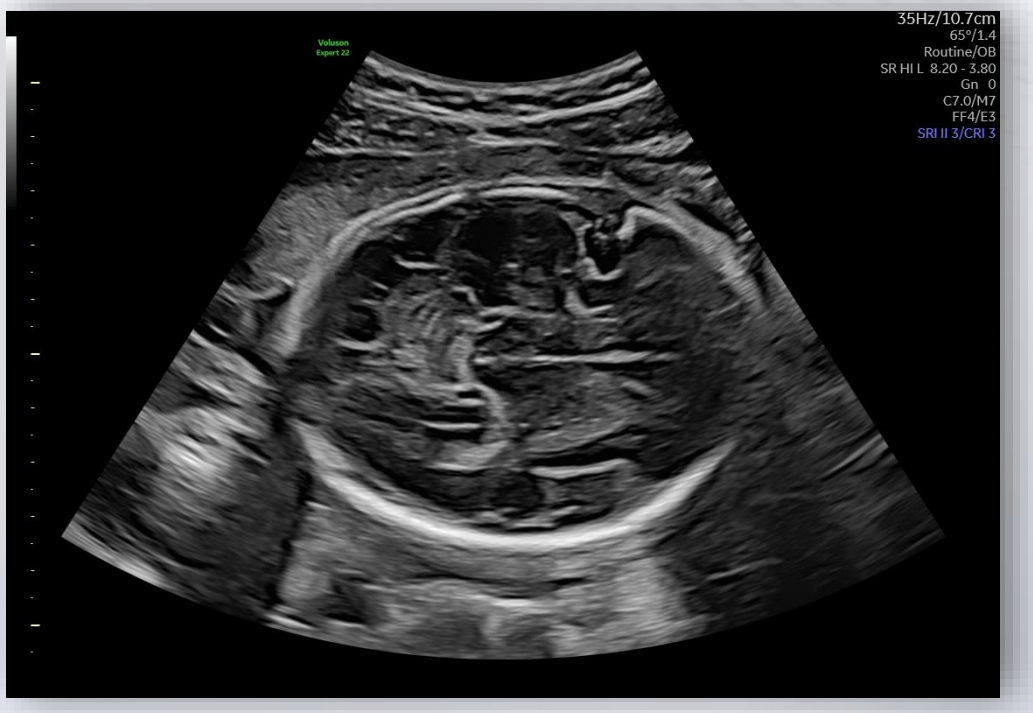


Off/On Comparison

Shadow Reduction

Reduces shadowing in B-mode imaging, even in difficult to scan patients.

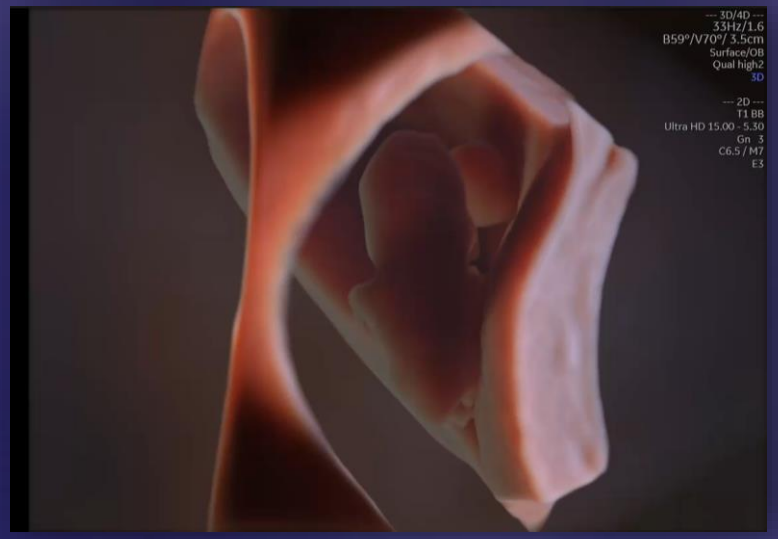
Without Shadow Reduction

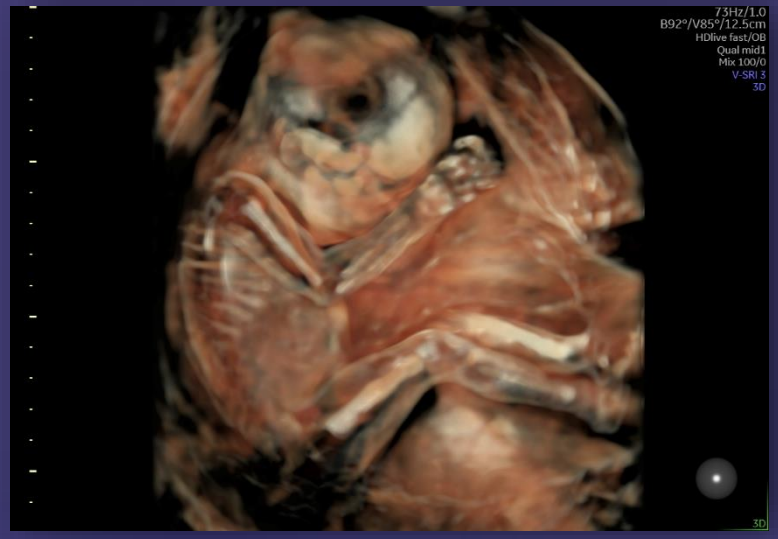


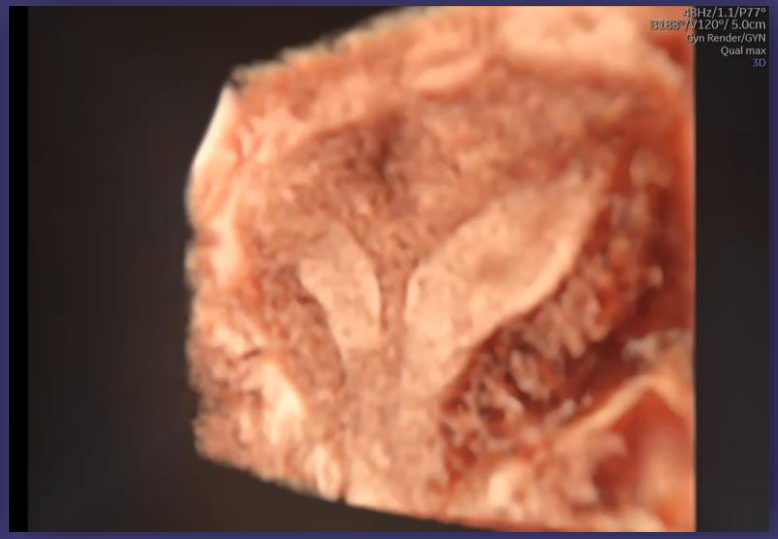
With Shadow Reduction

A New Perspective – Volume Imaging

Visualizing anatomy from another view can be the difference between delaying or making a confident diagnosis. The Voluson Expert 22 builds on our world class volume imaging to deliver the next generation of 3D/4D imaging.

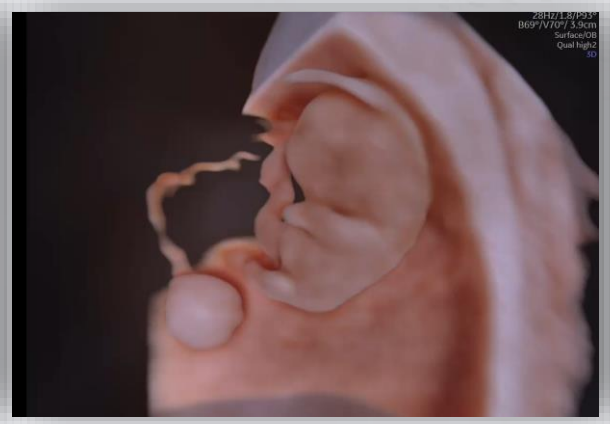


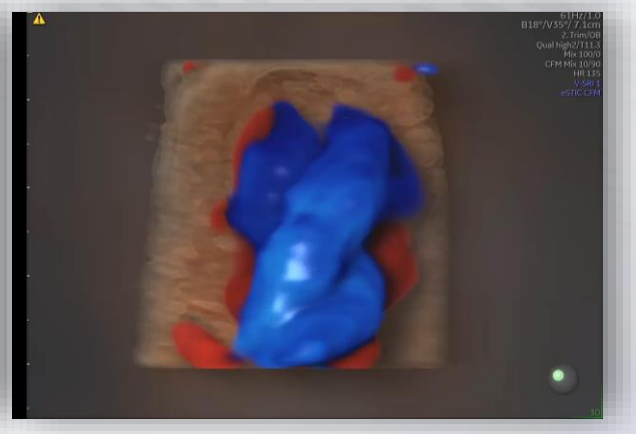




HD*live* Studio+

An essential problem-solving feature for a deeper understanding of relational anatomy and developing structures. The suite of features offer added opportunities for realistic views and assessment of anatomy for greater confidence.





HD*live*

Illuminate anatomy and surrounding fluid with up to 3 independent light sources with various intensity and hues.

HD*live* Silhouette

Volume imaging is taken to the next level with the ability to control what tissue type is displayed internally vs. externally.

Additional transparency tuning controls allow for more details, providing diagnostic assessment and confidence.

Perspective Rendering

“Camera Zoom Technology” type representation to enhance spatial and optical visualization for a realistic view and increased depth display.

HD*live* Flow

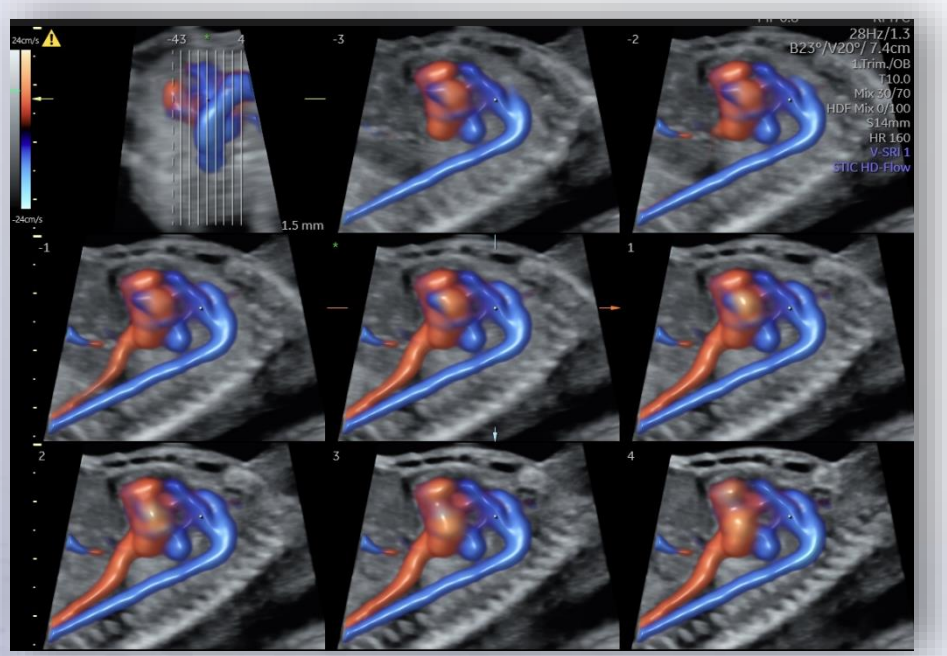
Vascular structures are displayed with greater depth perception and dimension.

HD*live* Flow Silhouette

Visualize vascular structures, along with surrounding tissues, with various levels of border enhancement and through transparency.

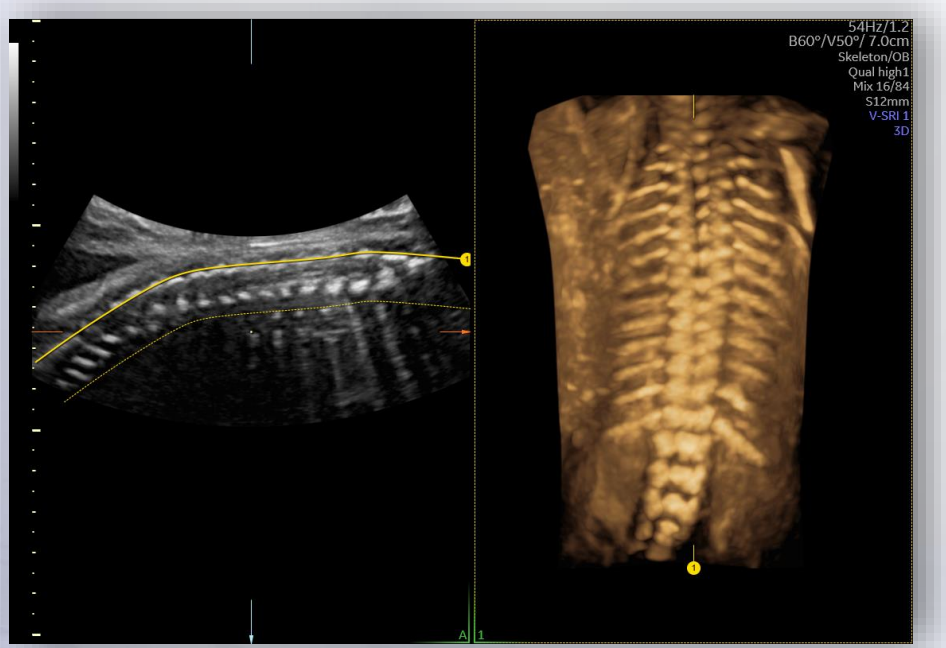
Advanced VCI

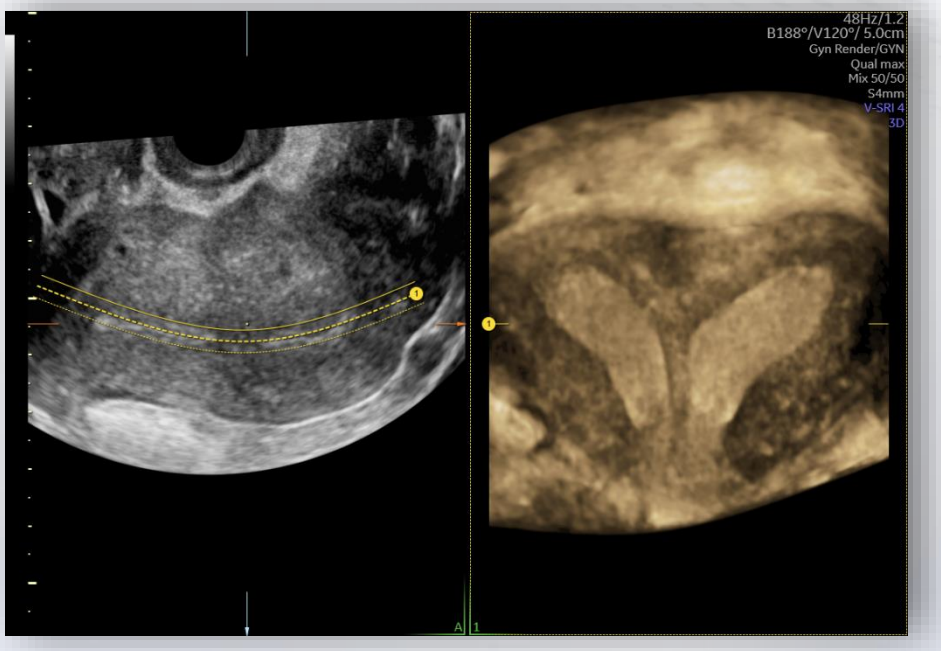
Adjusts slice thickness on 3D or 4D images to help enhance contrast resolution with use of render techniques such as bone and tissue renderings. Can be applied in the acquisition plane (VCI-A), static 3D volumes, color, or OmniView.



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.



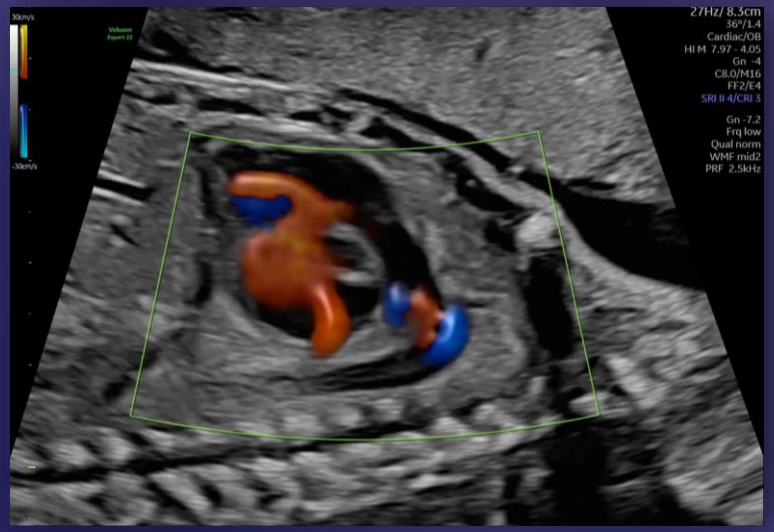


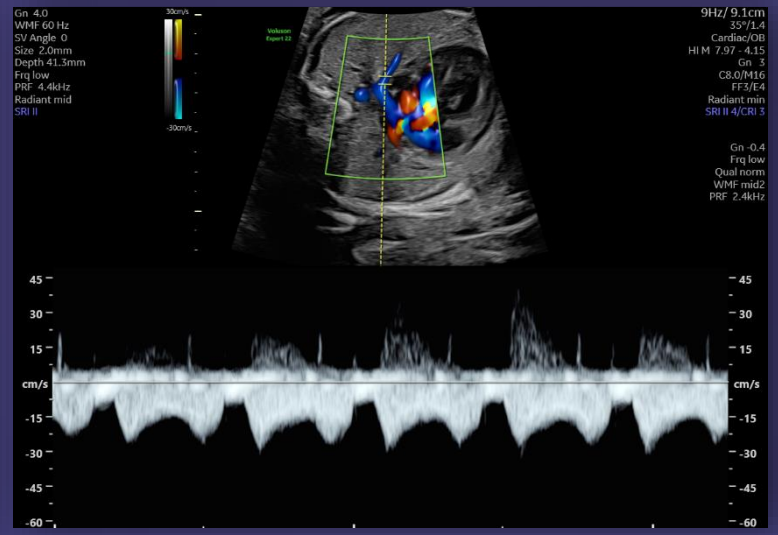
Spine Trace

Easily obtain 3D views of the spine - automatically acquire the volume and displays the coronal view in a few easy steps.

Beyond Basic Blood Flow – Doppler Imaging

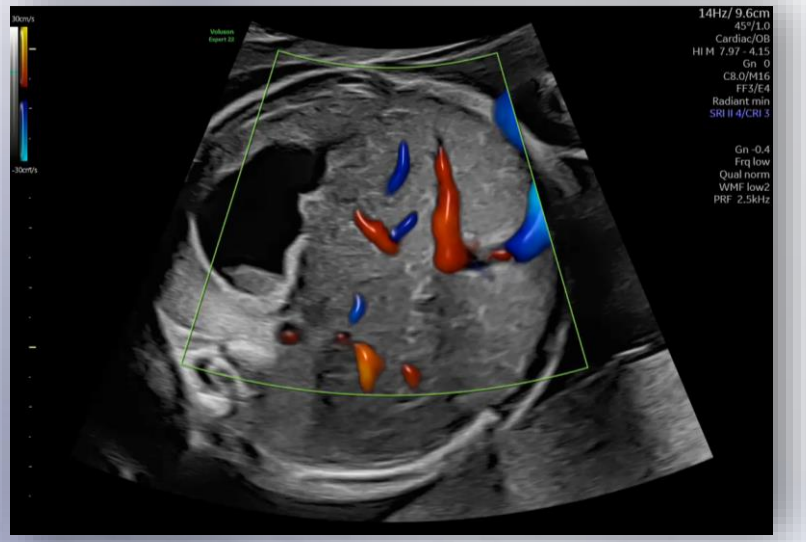
Make blood flow assessment faster and easier with advanced Voluson technologies. Increased resolution and sensitivity in color and pulsed wave Doppler for unprecedented clarity

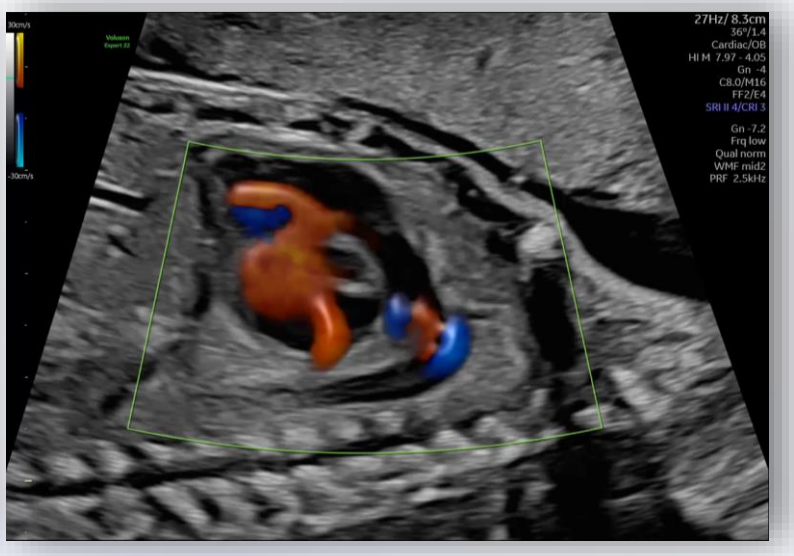


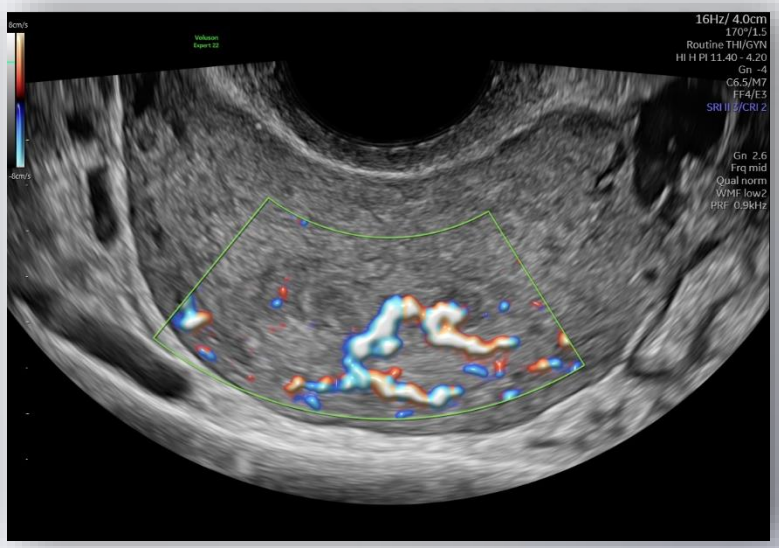


Radiant*flow*™

Achieve a new standard of color Doppler – Delivers easy, fast visualization of blood flow using the amplitude of the color Doppler signal to enhance robustness and create a 3D-like appearance.



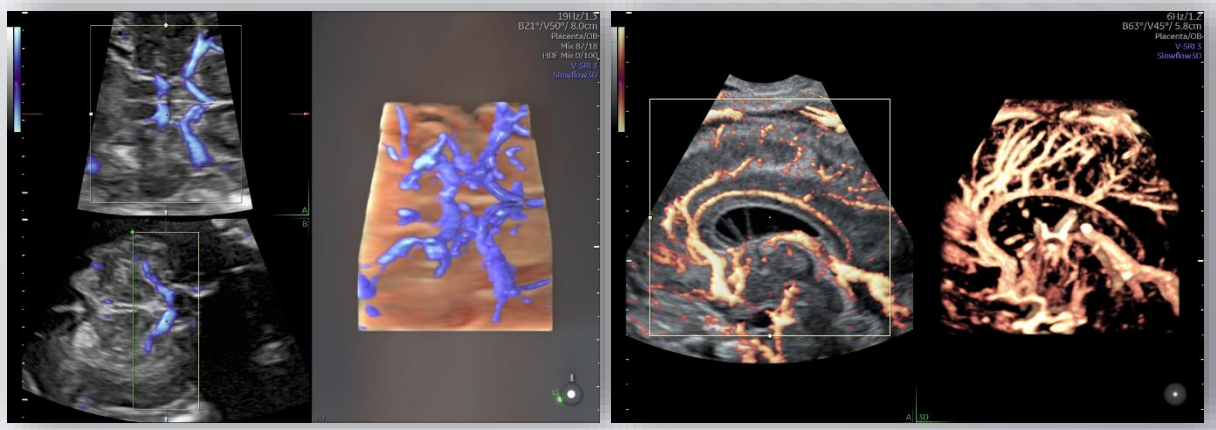




Slow*flow*

Observe low velocity vessels in 2D and 3D images with Slow*flow*HD and Slow*flow*3D – extending color capabilities for first trimester, placenta, and gynecological exams for enhanced diagnostic confidence.

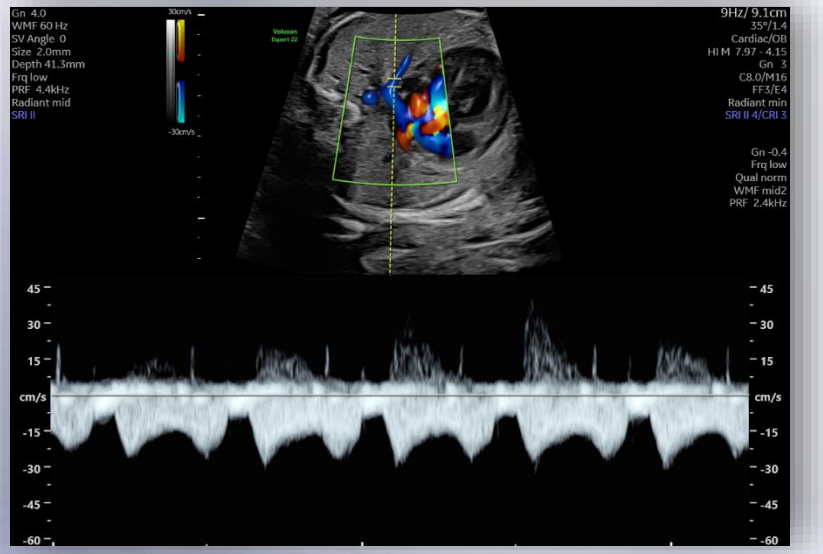
Slow*flow*HD

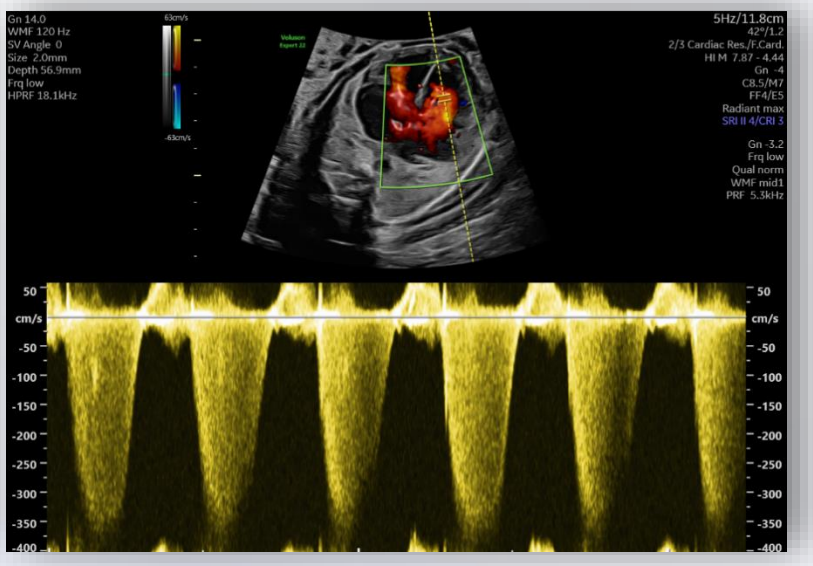


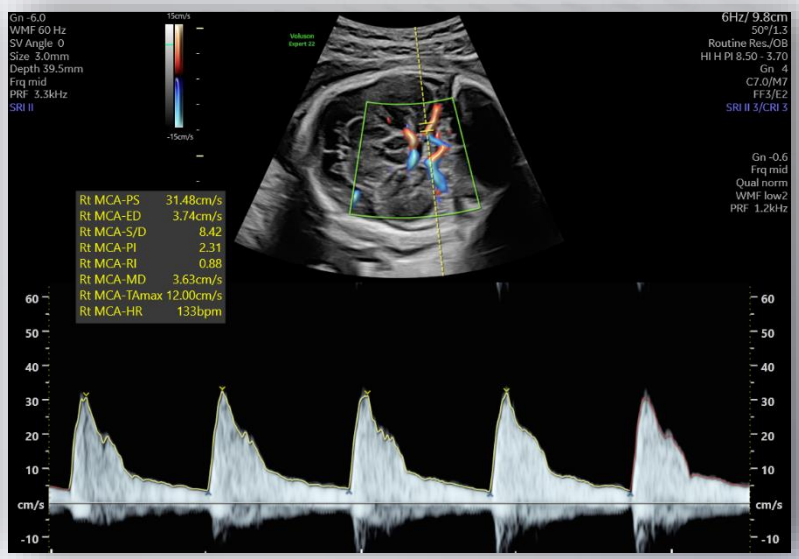
Slow*flow*3D

Pulsed Wave Doppler

New levels of unprecedented sensitivity and clarity for confident assessment.







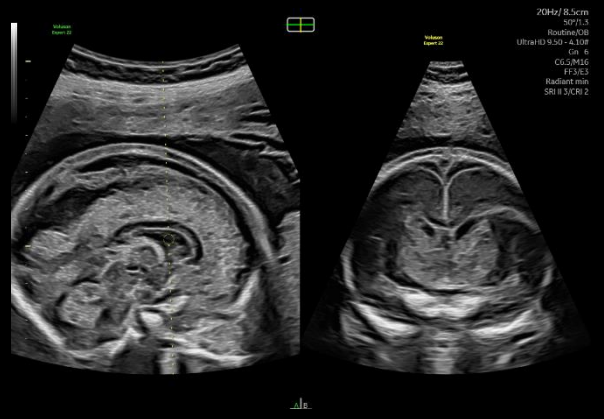
Unique Probe Technologies

With the Lyric Architecture, we have taken our probe technology to the next level. Extraordinary image quality helps meet your clinical and ergonomic needs to simplify exams and your day.

*e*M6C - More Information in Less Time

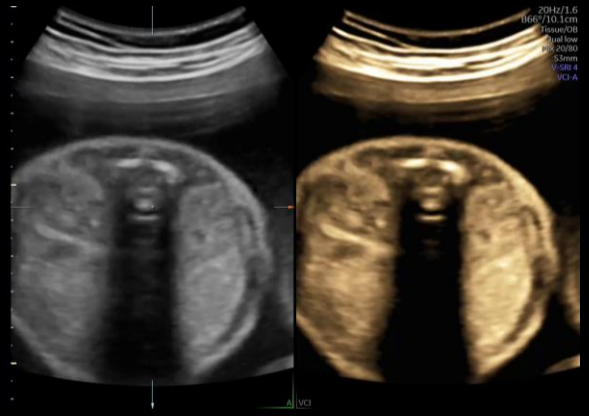
Cutting edge technology to assist with the most complex cases while having the flexibility and comfort to integrate into daily workflow

- First commercially available curved matrix electronic 4D technology designed for women's health
- Amazing image quality based on Lyric Architecture – even faster frame rates, processing power, and resolution
- Workflow enhancement features include Bi-Plane, SnapShot, *e*STIC, VCI-A and VCI-2D

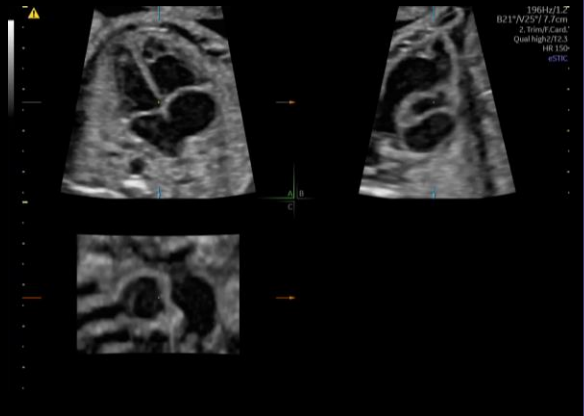


Bi-Plane Imaging

VCI-2D

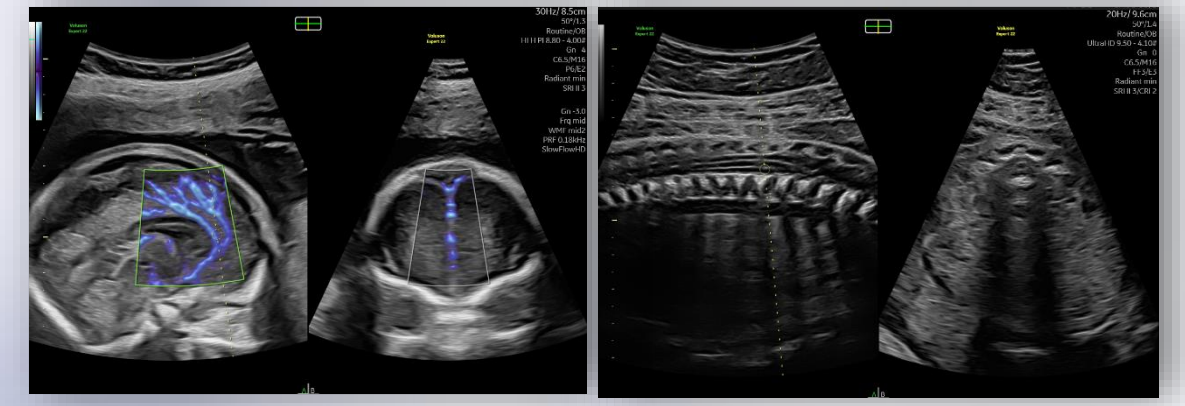


VCI-A (Volume Contrast Imaging)



*e*STIC

*e*M6C Imaging Technologies



Bi-Plane imaging – Provides simultaneous display of high resolution, high frame rate images in two perpendicular planes. Technology may be used in 2D and color Doppler.

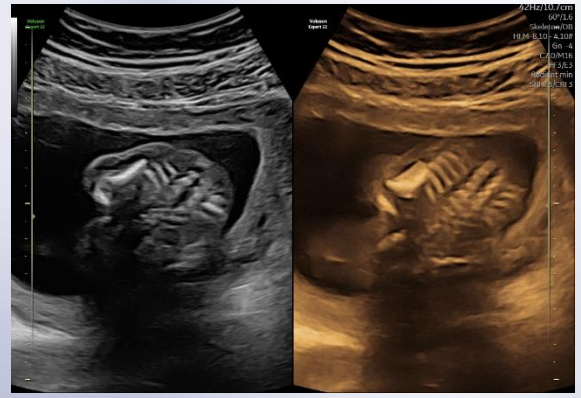
Clinical use: Spine, palate, heart, brain, limbs, and procedures including amniocentesis, percutaneous umbilical cord blood sampling (PUBS), chorionic villus sampling (CVS); Confirmation of perpendicular (i.e., NT, fetal heart) – View potential obstructions during interventional procedures.

eSTIC (Spatio-Temporal Image Correlation) enhances fetal cardiac exams with up to 75% reduction in acquisition time over traditional STIC. Reduces artifact from fetal movement. Improved B & C plane. Acquisition time reduced from 12 secs to 1.3 secs*.

Clinical use: Fetal heart - Evaluate anatomy, pathology, and physiology in 3 dimensions.

* As compared to volume rates on e4D vs mechanical probes (RAB6) on Voluson E10 BT20

e4D Imaging Technologies



VCI (Volume Contrast Imaging)
Delivers excellent contrast resolution through thick slice volume of grey scale and color Doppler images.

lor,
ou're scanning in
2D..pls check w/peter

Real-Time 4D - Presents exceptional visibility with an 86% increase in 4D volume rates for real-time display of motion*.

Clinical use: Save time and be confident when evaluating anatomy, pathology, and/or physiology in 3 dimensions with high success rate even with moving fetus – excellent for fetal heart arrhythmias.

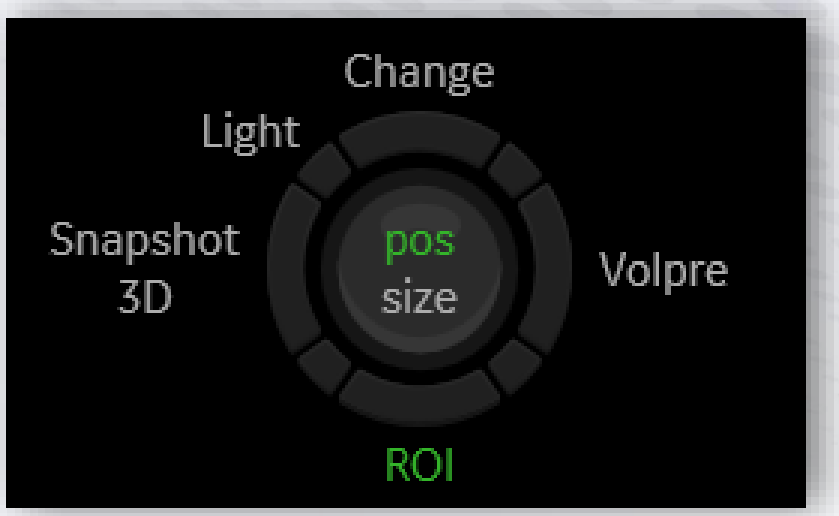
* As compared to volume rates on e4D vs mechanical probes (RAB6) on Voluson E10 BT20

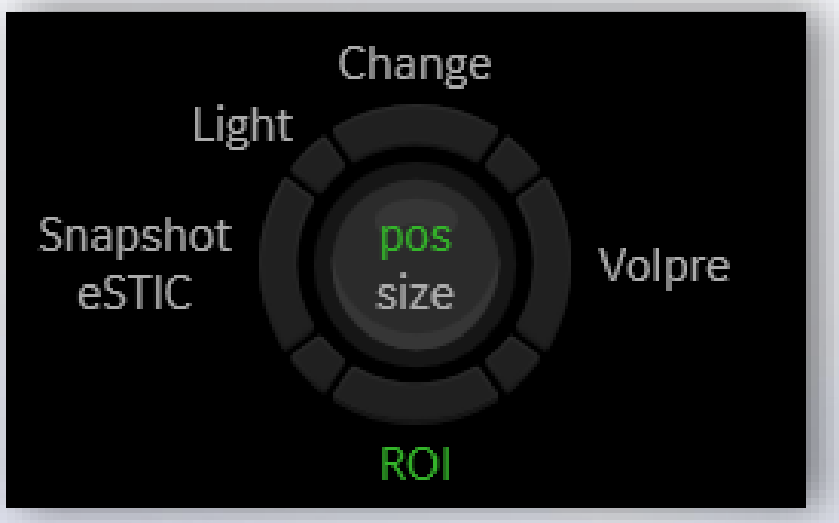
Clinical use: Fetal brain sutures, extremities, spine, palate, soft tissue, heart in *any* plane - Added contrast resolution in soft tissue, brain, heart, etc.

*e*4D SnapShot

Optimize exam time with speed and ease.

- Seamlessly and quickly capture high quality 3D or *e*STIC volumes without interruption in workflow
- SnapShot optimizes exam time with one button access from Real-Time 4D to acquire high resolution images

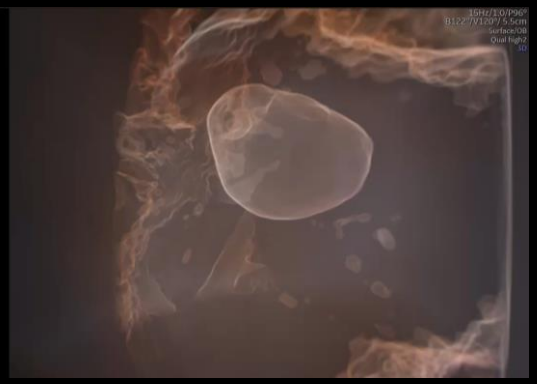




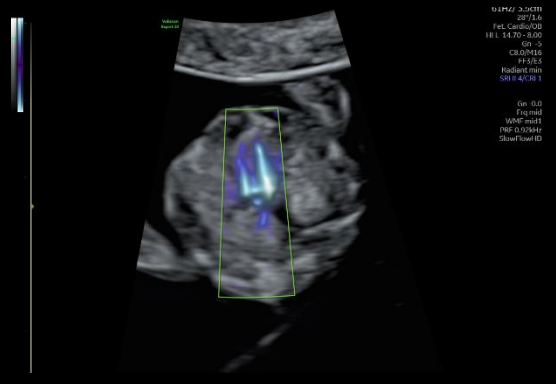
RIC6-12 – Earlier than Ever Before

Confidently explore fetal images in the earliest stages with the RIC6-12 probe.

- High frequency, high resolution probe
- Delivers extremely detailed images required for visualizing and detecting anomalies in the first trimester



7-week gestational sac



10-week fetal heart

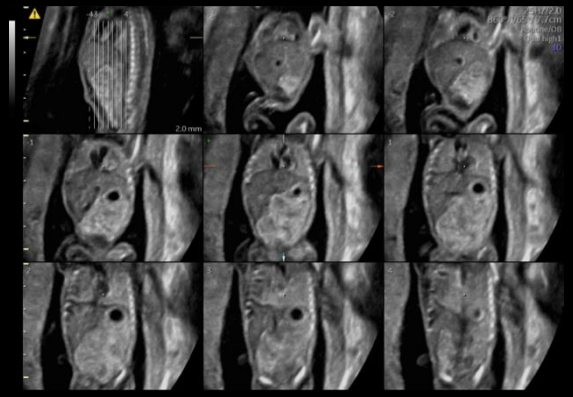
10-week embryo

Early cord visualization

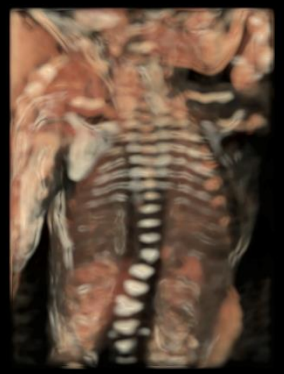
RM7C – Seeing is Believing

From the first trimester to the third, our RM7C volume matrix probe helps you set new standards in performance and image quality

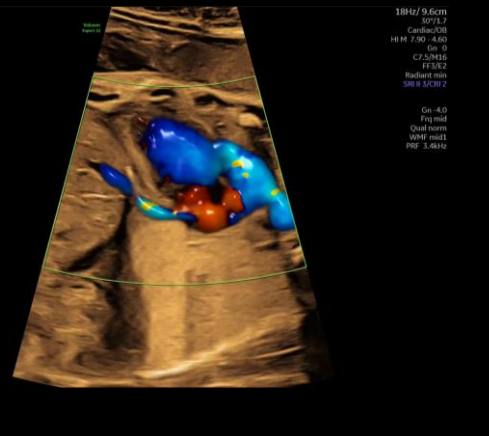
- XDclear™ technology provides exceptional 2D, 3D, and 4D resolution and color sensitivity.
- High resolution matrix convex array probe
- Remarkable performance offering sharp imaging, even with difficult to scan patients
- Increased user comfort - reduced weight by 80g or 17% over its RM6C predecessor



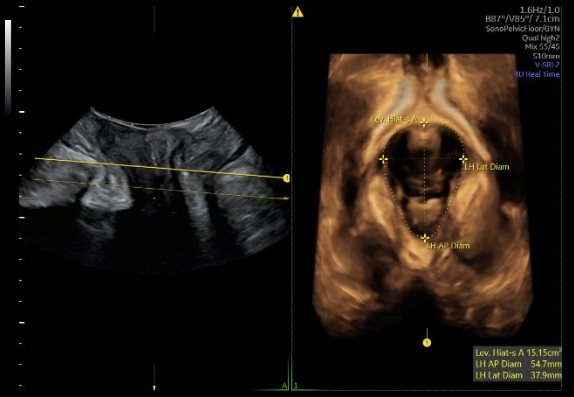
16-week fetal abdomen



18-week fetal spine



Fetal heart

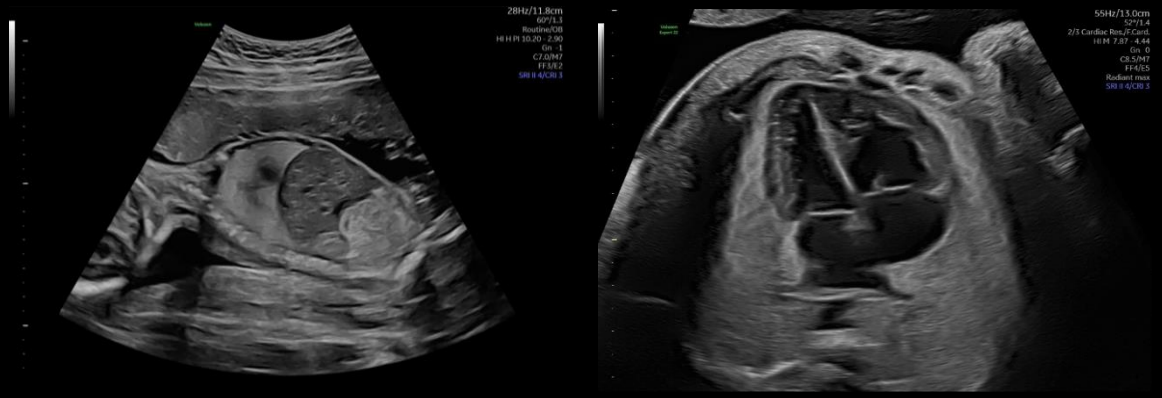


SonoPelvicFloor

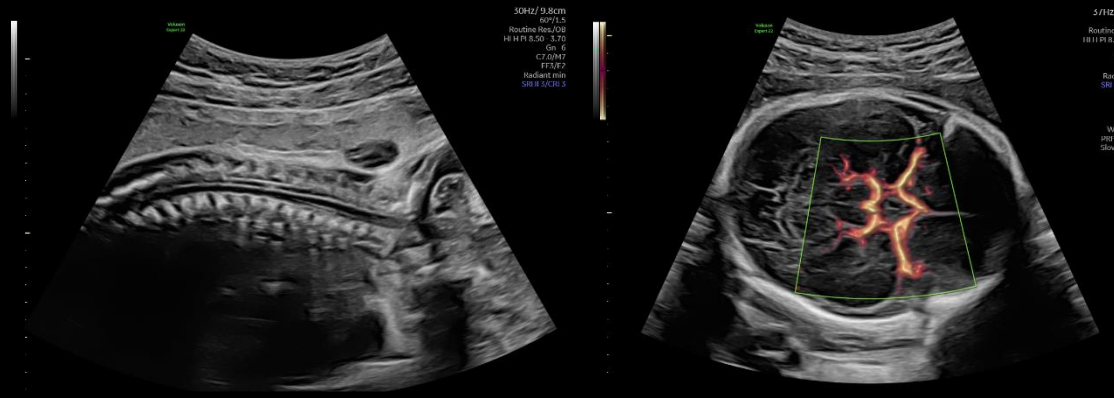
C2-9/C1-6 – Simply Stunning

Achieve exceptional tissue and detail resolution with our XDclear™ probes: C2-9 and C1-6. The combination of single crystal, acoustic amplification, and cool stack technology offers extraordinary 2D imaging, even with difficult to scan patients.

- C1-6 - Penetration and robustness covering wide range of patients, even the more challenging scans
- C2-9 - High Frequency imaging for fine details and 1st trimester exams



C2-9 Probe

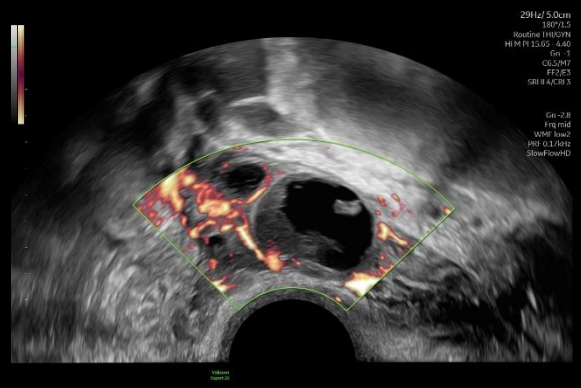


C1-6 Probe

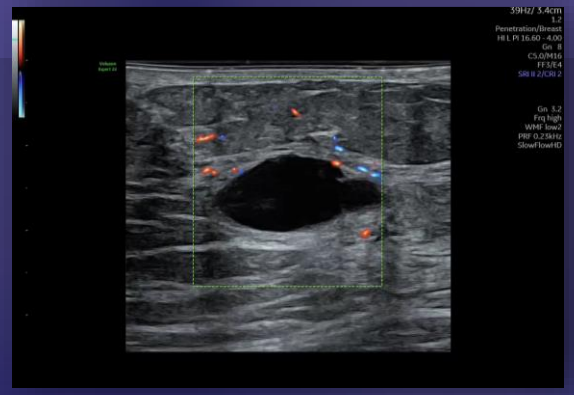
RIC10 Transvaginal Probe

- Probe solution for 2D and Volume imaging
- XDclear™ Wide Band Micro Convex Endocavitary
- Optimized design
  - Longer shaft length
  - Reduced weight
  - Wider sweep angles
  - Thinner, lightweight cable

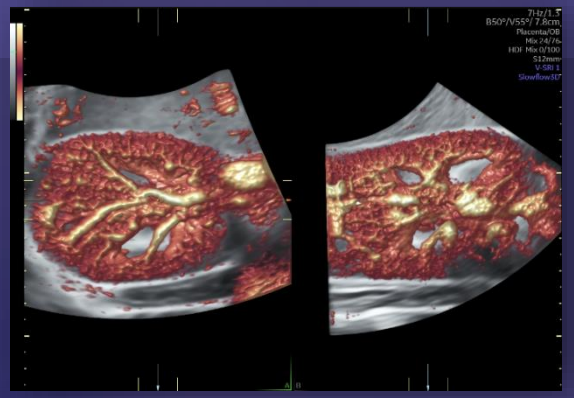
Comparison	RIC10	RIC5-9	
Weight	225g	390g	-42%
B-Mode Angle	208°	178°	+30°
3D Sweep Angle	160°	120°	+40°
Shaft Length	16,7cm	13,5cm	+3,2cm



Shared Service Gallery



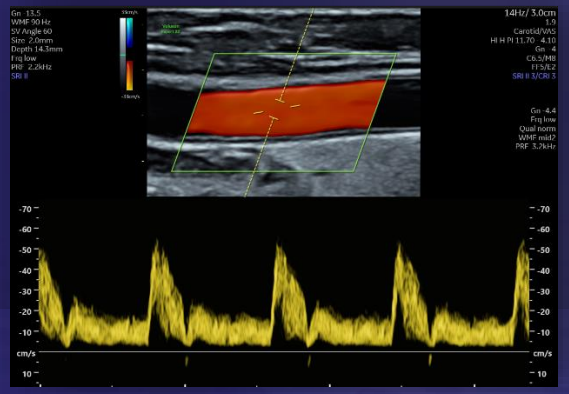
Breast cyst with RSP6-16 probe



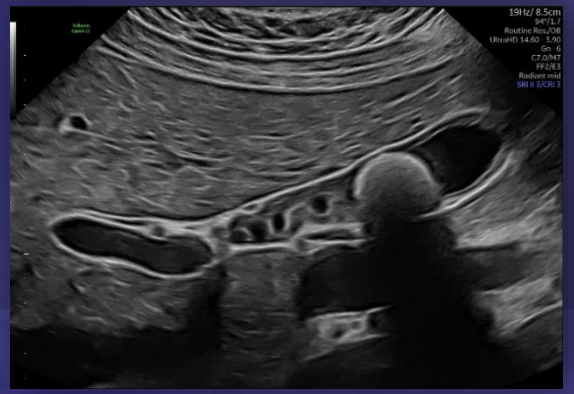
Adult kidney shown with RM7C probe and Slow*flow*3D

Pediatric kidney with C2-9 probe

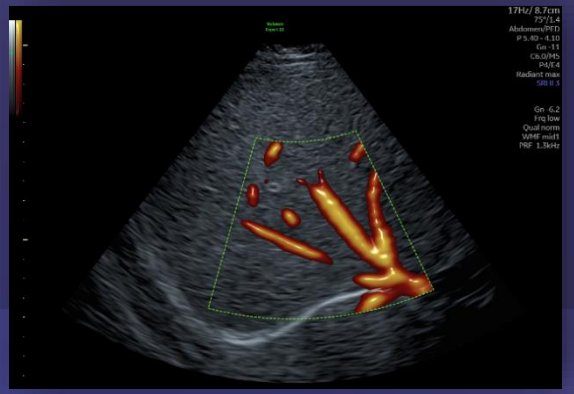
High detail pediatric brain with Radiant acquired with 6S probe



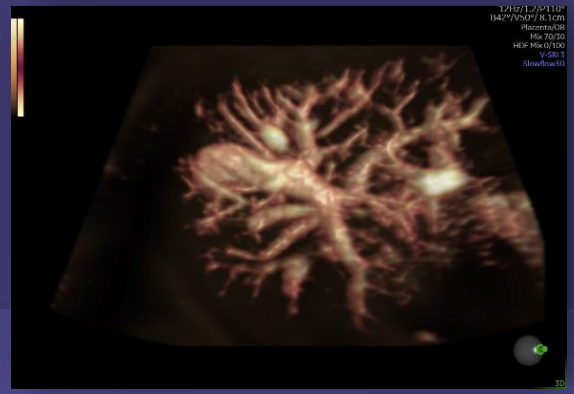
Carotid artery with 9L probe



Radiant and UltraHD offering clear tissue differentiation in adult gallbladder



Liver with Power Doppler



Abdomen with HD*live* Studio+ and Slow*flow*3D

Detect the Undetectable

Early Detection

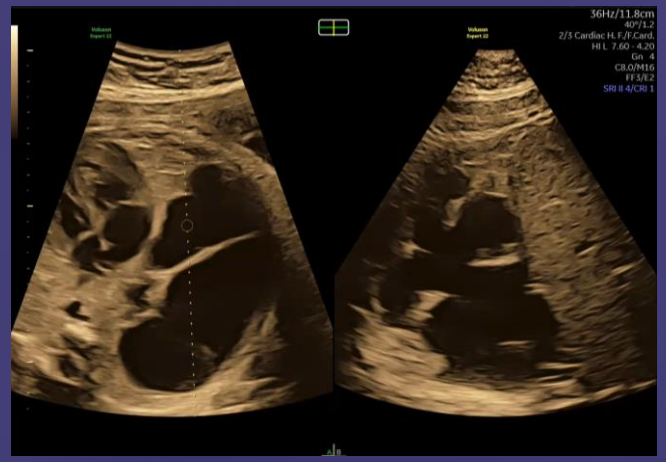
Detect the Undetectable – Early Detection

Complex cases come with enough uncertainty. That is why the Voluson Expert 22 delivers extraordinary image quality and unique tools to help you focus on early detection and intervention.

1st Trimester

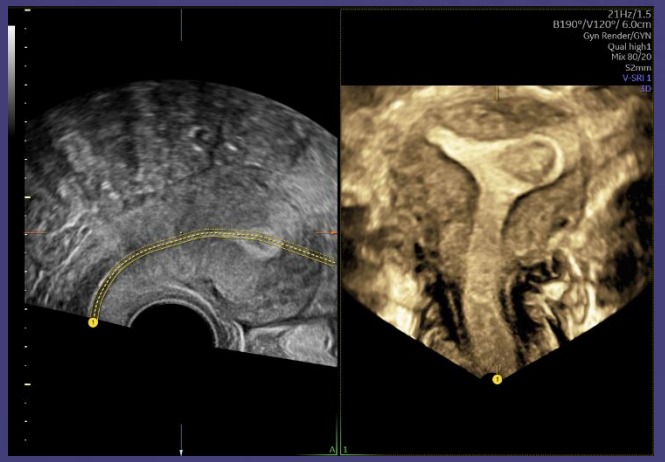
Examine developing structures earlier to uncover anomalies with high resolution probe & imaging technologies.

Fetal Heart



Increase detection, diagnose confidently, and effectively monitor the fetal heart.

Pelvic Health

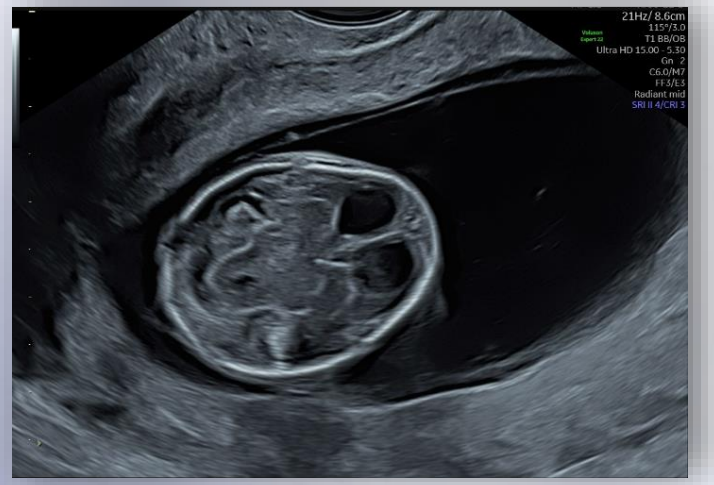


Simplify reproductive health with advanced analysis tools and easy 3D technologies.

First Trimester

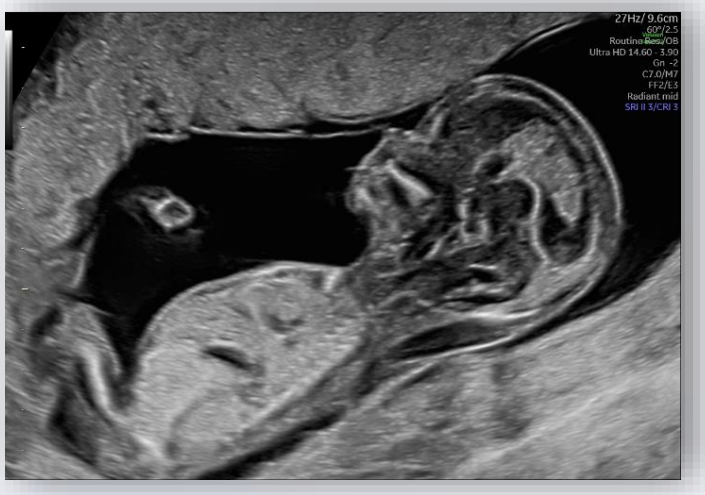
Small Anatomy. Fine Details. Timely Diagnosis.

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.



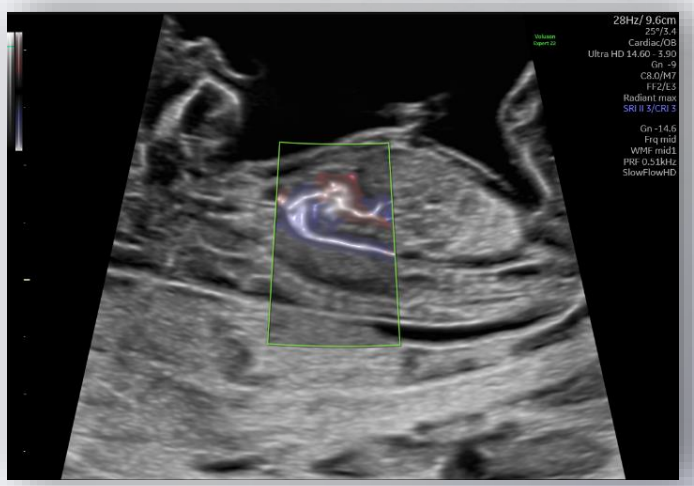
UltraHD

Obtain highly detailed images of early pregnancy development with increased axial and lateral resolution for fine details.



Radiant

Utilize Radiant for greater definition and clarity. Change the levels to enhance the 3D-like elevation effect for greater border visibility and sharpness.



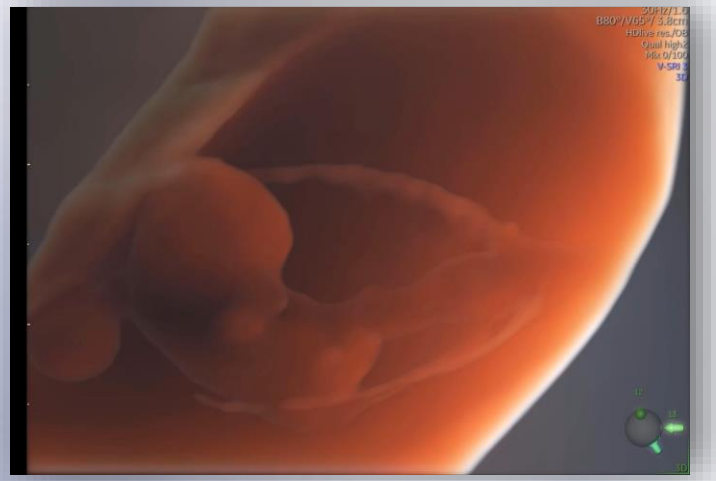
Color Imaging

Increase resolution and sensitivity in color for unprecedented clarity with Radiant*flow*, Slow*flow*HD, and Slow*flow*3D.

First Trimester

Small Anatomy. Fine Details. Timely Diagnosis.

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.



HD*live* Studio+

Essential problem-solving tools for a deeper understanding of relational anatomy and developing structures. Easily obtain volume images with unprecedented depth and clarity.

SonoNT/SonoIT

(Sonography-based Nuchal /Intracranial Translucency) – semi-automatic, standardized measurements of nuchal and intracranial translucencies.

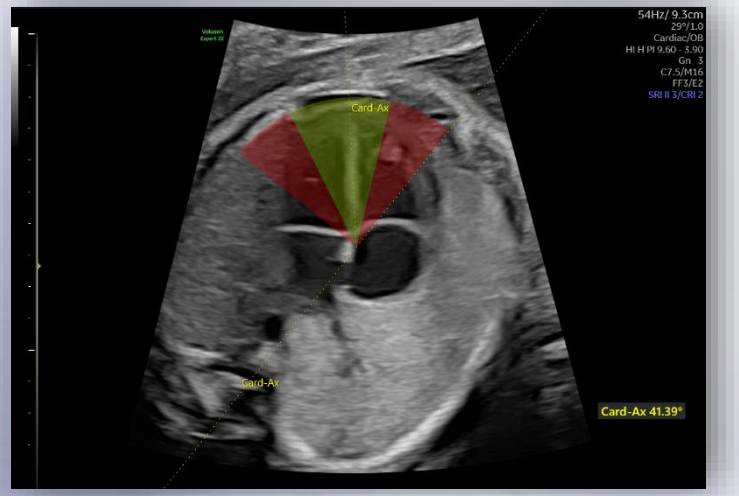
RIC6-12 Probe

Delivers extremely detailed images required for visualizing and detecting anomalies in the first trimester.

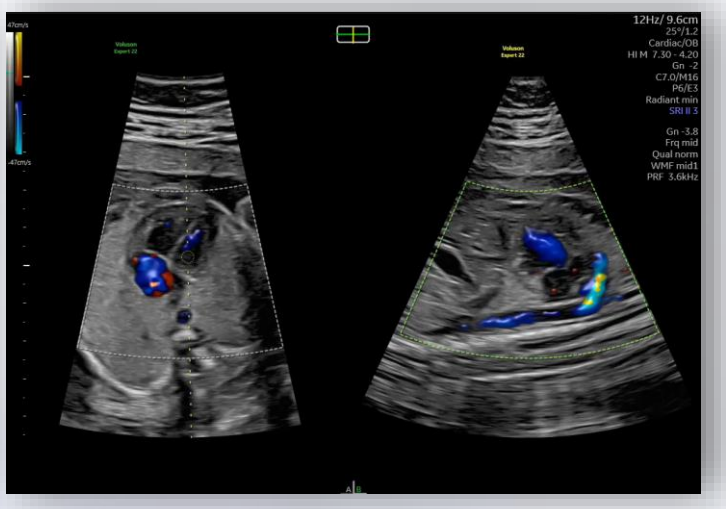
Fetal Heart Evaluation

Get to the heart of the matter

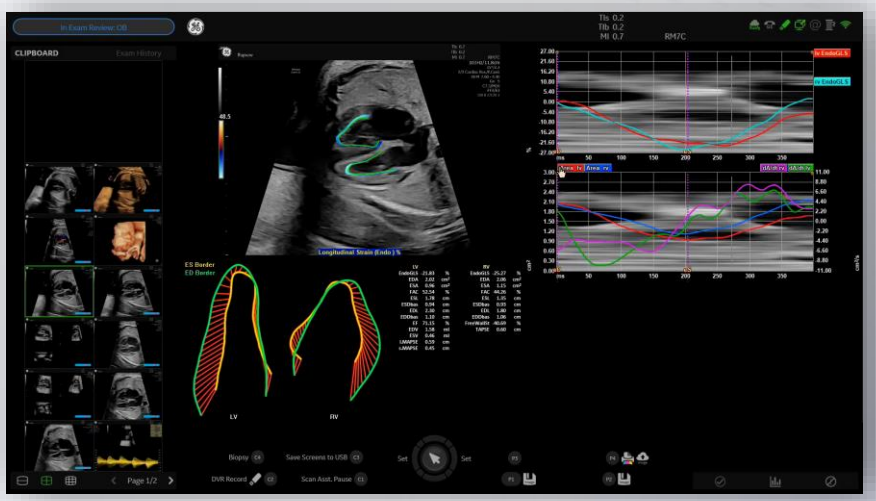
Identifying fetal cardiac abnormalities earlier means you can intervene sooner, plan for delivery, and potentially improve outcomes. The Voluson Expert 22 provides a full suite of progressive tools to help distinguish the tiniest structures with stunning clarity to detect patient answers faster.



Detection



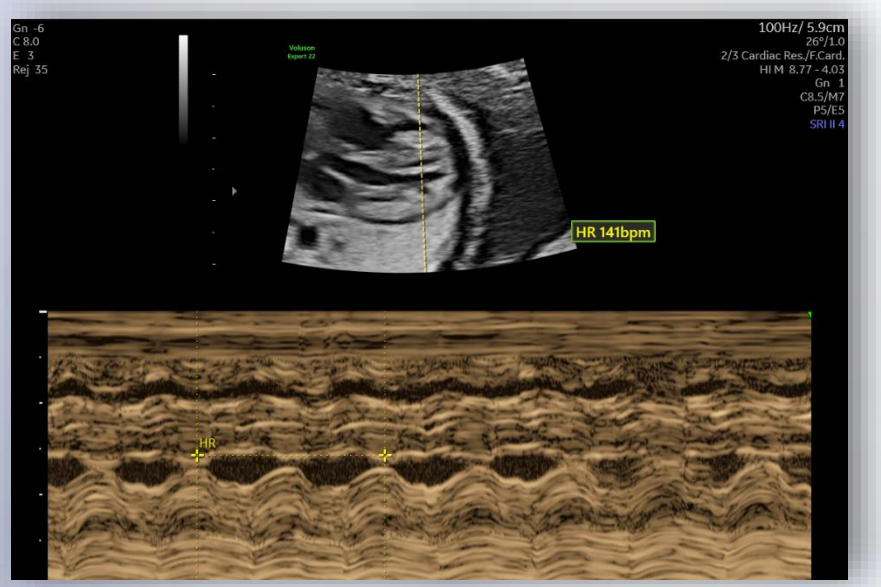
Diagnosis



Monitor

Fetal Heart Detection

Utilize easy automation to help obtain and visualize the recommended fetal heart view for a complete exam.



SonoFHR

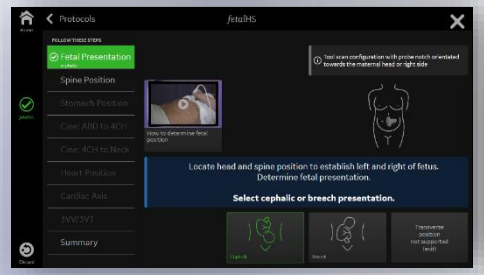
Automation tool that automatically places calipers in M-mode or pulsed wave Doppler to quickly obtain the fetal heart rate

*fetal*HS

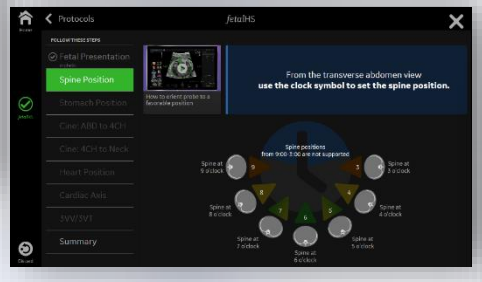
AI-guided workflow to support views of the 4-chamber, 3 vessel view, and heart angle measurement (cardiac axis) to help detect fetal heart anomalies

*fetal*HS

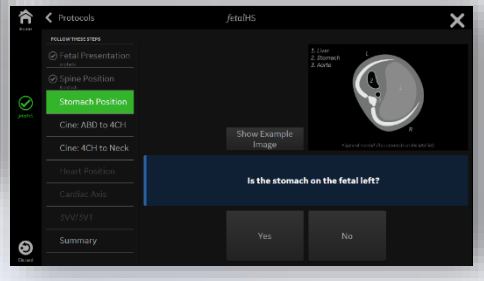
An AI-guided workflow with step-by-step instructions to help identify normal anatomy with a focus on Fetal Situs, 4-Chamber Heart, 3-Vessels and Trachea View, and Cardiac Axis. Includes instructional messages, reference images, and diagrams that represent normal anatomy. 4CH, 3VV/3VT, and Cardiac Axis automatically generated from user acquired cine loops.



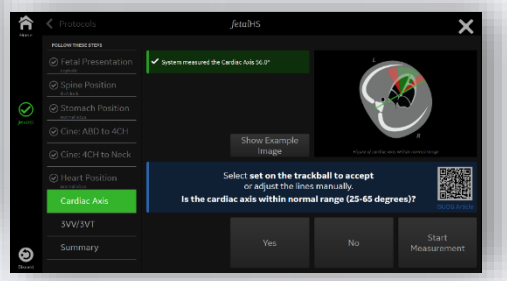
Fetal presentation - helps confirm proper situs of stomach and heart



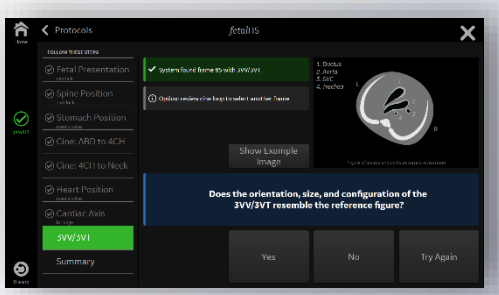
Fetal spine - helps to determine fetal position and situs



Fetal stomach - helps confirm stomach location is on fetal left



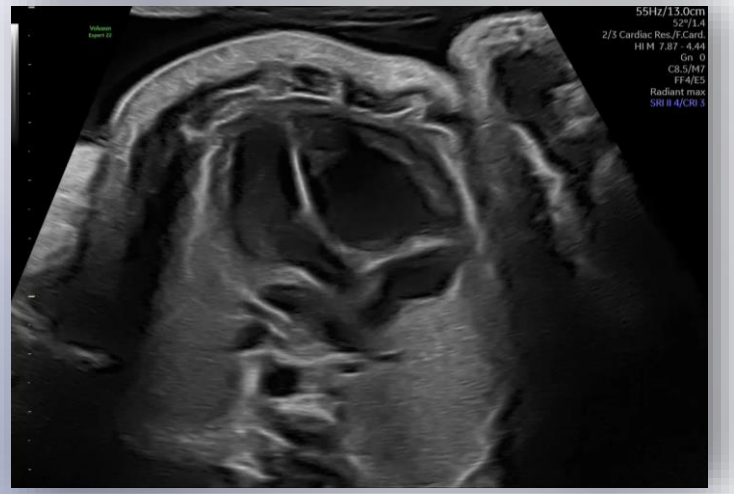
Stomach to 4-chamber sweep - From this sweep, *fetal*HS automatically locates and documents the 4-chamber view to confirm heart situs and measures a cardiac axis.



4-chamber to neck sweep - -from this sweep, *fetal*HS automatically finds and documents the 3 vessels and trachea view to confirm the size, alignment, and arrangement of the Pulmonary Artery, Aorta, SVC and Trachea to rule out anomalies.

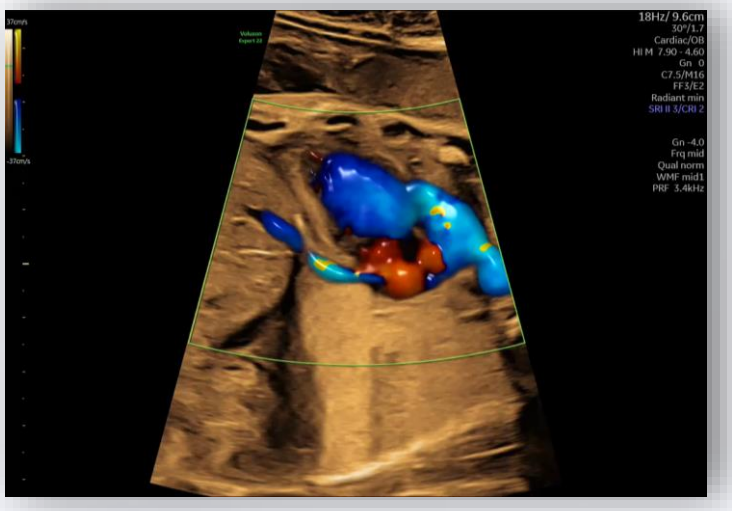
Fetal Heart Diagnosis

Find answers to your challenging exams with cutting edge tools that help provide more clarity, more speed, and more flexibility.



Radiant

Utilize Radiant for greater definition and clarity. Change the levels to enhance the 3D-like elevation effect for greater border visibility and sharpness.



Radiant*flow*

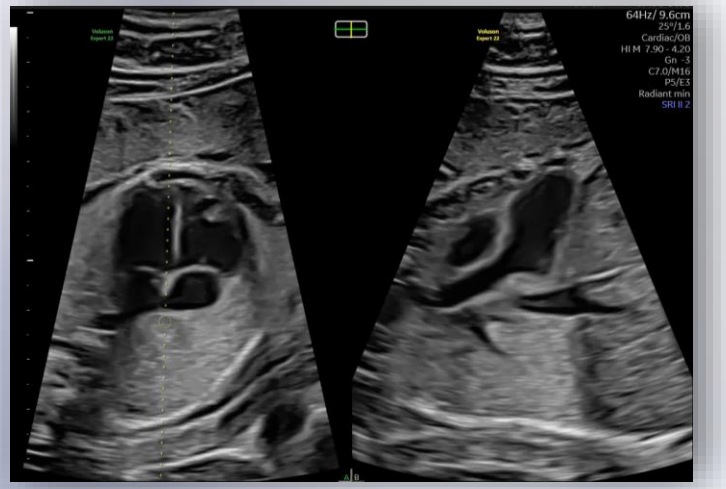
Delivers easy, fast visualization of blood flow using the amplitude of the color Doppler signal to enhance robustness and create a 3D-like appearance.

Slow*flow*

Increase resolution and sensitivity in color for unprecedented clarity with Radiant*flow*, Slow*flow*HD, and Slow*flow*3D.

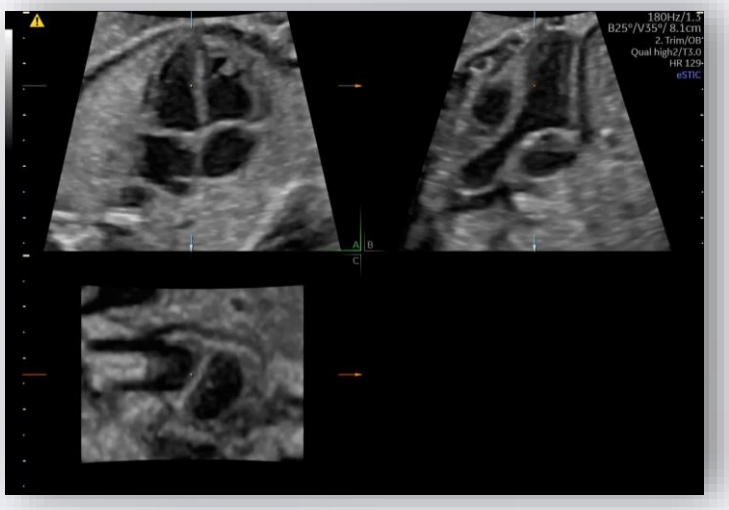
Fetal Heart Diagnosis

Find answers to your challenging exams with cutting edge tools that help provide more clarity, more speed, and more flexibility.



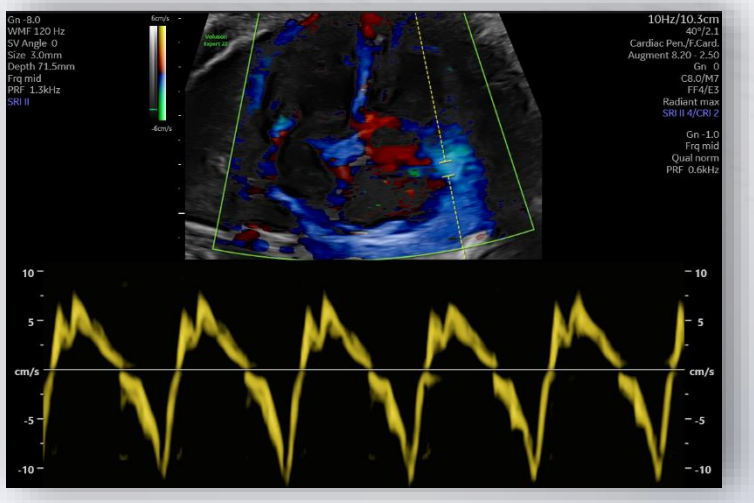
*e*M6C Bi-Plane Imaging

Provides simultaneous display of high resolution, high frame rate images in two perpendicular planes. Technology available in 2D and color Doppler modes.



*e*M6C *e*STIC

Enhances fetal cardiac exams with up to 75% reduction in acquisition time over traditional STIC and delivers improved resolution in the B and C planes*.



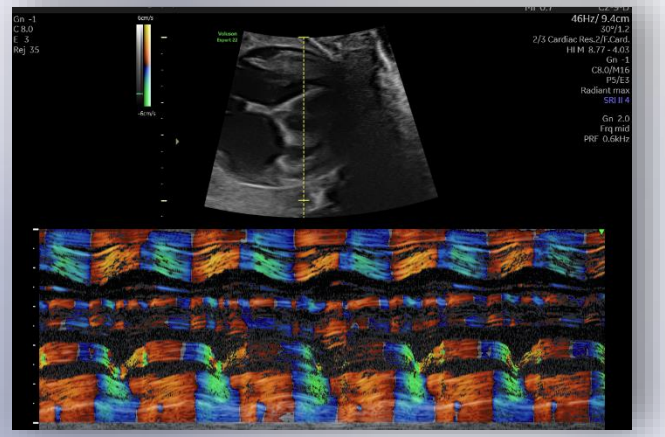
Specialized Tools

Continuous Wave on curved probes, phased array probe for fetal and maternal cardiac imaging, and many more specialized tools.

* As compared to volume rates on e4D vs mechanical probes (RAB6) on Voluson E10 BT20

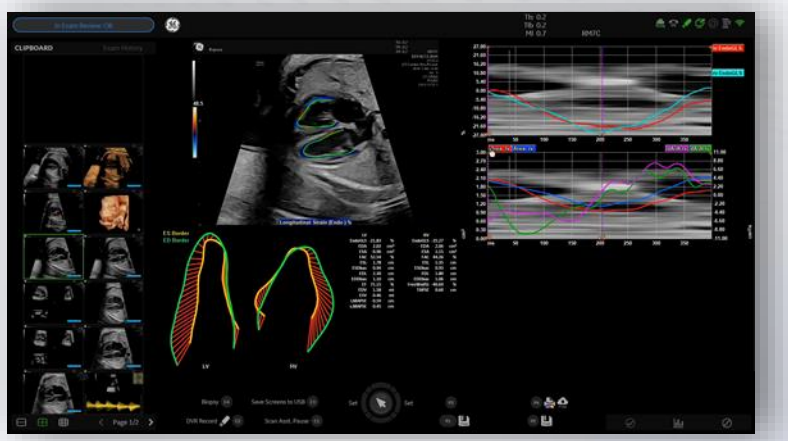
Fetal Heart Monitoring

Not only anomalies can impact the fetal heart. Monitoring the Size, Shape, and Contractility of the fetal heart can provide additional data to help you make more informed decisions about maternal/fetal well-being and delivery planning.



Qualitative
- B-Mode
- Color Doppler
- Tissue Doppler

Quantitative
- Spectral Tissue Doppler
- TEI Index
- PW and CW Doppler – Valves
- Ejection Fraction



Tissue Doppler

Conduct a more comprehensive assessment of fetal cardiac function with Tissue Doppler for wall and valve motion analysis - use with pulsed wave for quantitative movement analysis.

Fetal Echo Measurement Package

Dedicated measurements to include Z-scores, Cardiovascular Profile Scores, and more.

*fetal*HQ

Conduct an easy and comprehensive evaluation of the size, shape and contractility of the fetal heart from the 4-chamber view using measurements based on 2D imaging and speckle tracking.

*fetal*HQ

Conduct an easy and comprehensive evaluation of the size, shape, and contractility of the fetal heart from the 4-chamber view using measurements based on 2D imaging and speckle tracking. *fetal*HQ contains an in-depth report including Z-scores and percentiles for each of the cardiac measurements. AutoFlip and Quiver features help simplify the fetal heart orientation and identification of the endocardial border and valve insertions.

Report package supports both qualitative and quantitative results to offer insights based on your preference.

<u>Qualitative</u>

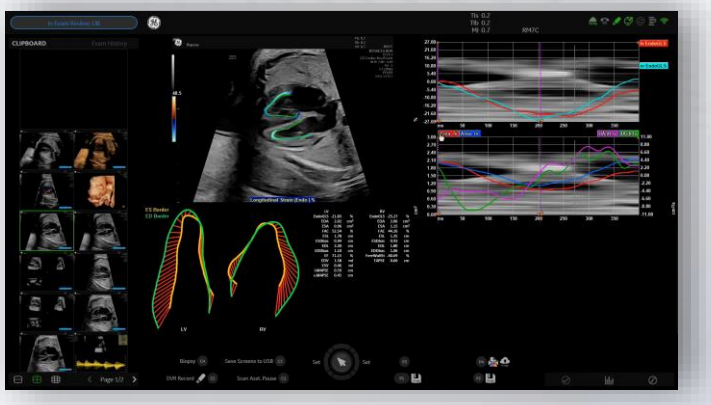
- Visual representation of ventricular contractility

<u>Quantitative</u>

GSI for assessment of fetal heart size and shape

- Ventricular shape and contractility (assessed with speckle tracking)
- Comprehensive measurements extracted such as ejection fraction, cardiac output, TAPSE/MAPSE, etc.

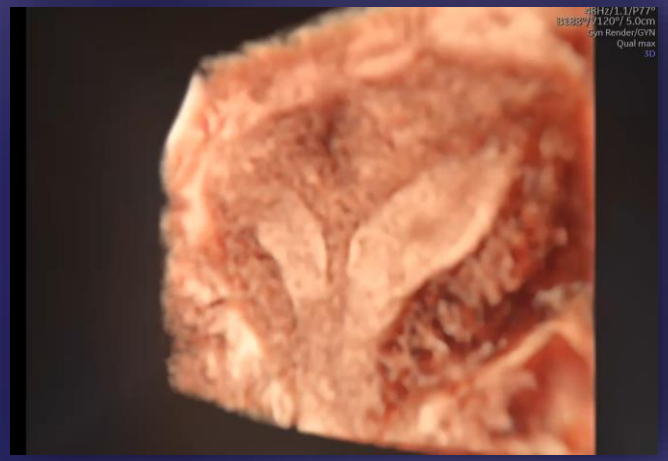
Global Sphericity Index (GSI) helps assess size and shape of the fetal heart



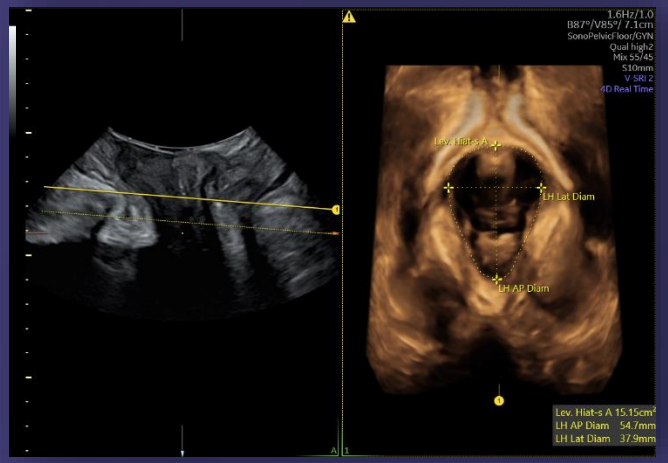
Fetal heart contractility outlined in an in-depth report

Pelvic Health

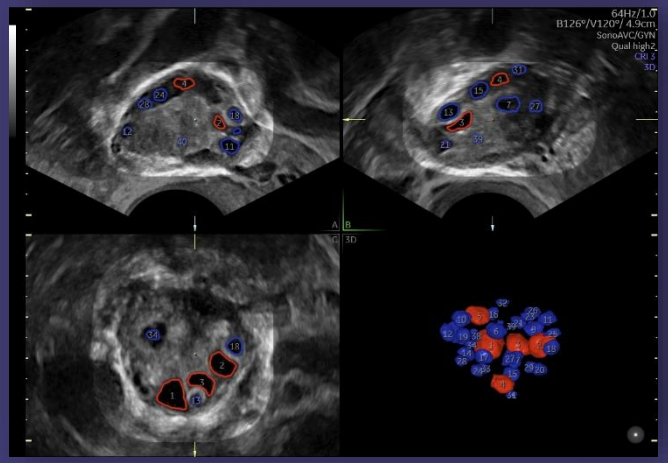
Symptoms such as pelvic pain, post-menopausal bleeding, genitourinary dysfunction, and infertility can be confusing and concerning for your patients. Exceptional imaging and advanced analysis tools can help provide clinical insights into gynecological health.



Gynecology



Pelvic Floor

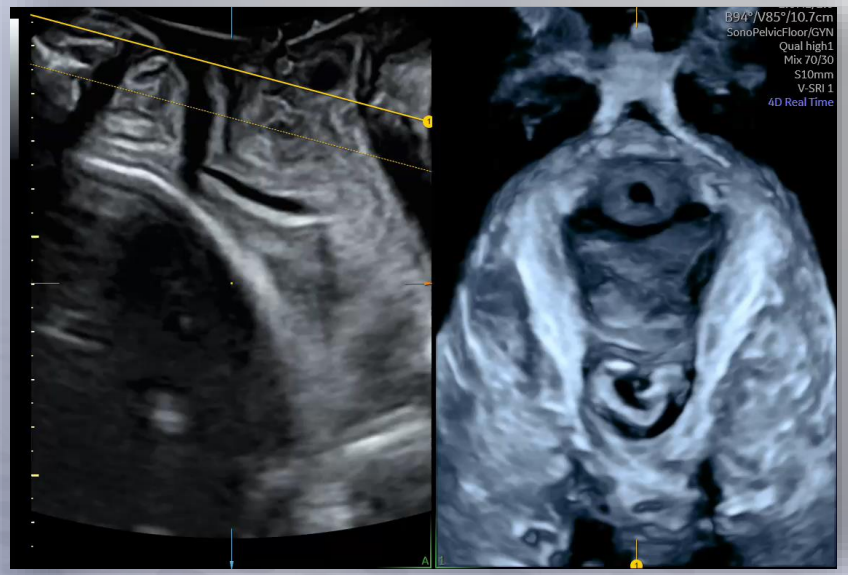


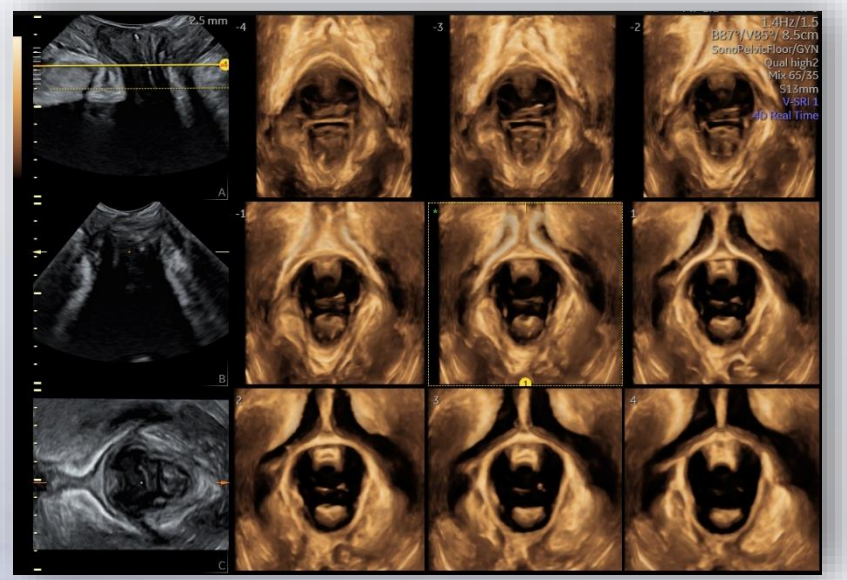
Reproductive Medicine

SonoPelvicFloor$^{2.0}$

new

- AI-based feature to help obtain pelvic floor measurements for more consistent and reproducible results
- Comprehensive pelvic floor measurement package
- Automates plane alignment with live C-plane tracking
- Automated measurement of levator hiatus (AP, lateral and area/circumference) in 3 phases Rest/Valsalva/Contraction
- TUI View accessible in 3 phases
- Offers users a timesaving of 80% with the introduction of automated plane alignment and automated measurements[1]





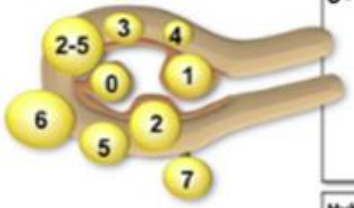
[1] As compared to manual exam process

Fibroid Assessment

Challenges:

- Fibroids are a common condition and frequently cause symptoms that require interventions
- Differentiation between sub-types in 2D can be challenging
- Current documentation possibilities are time consuming

Leiomyoma Subclassification System



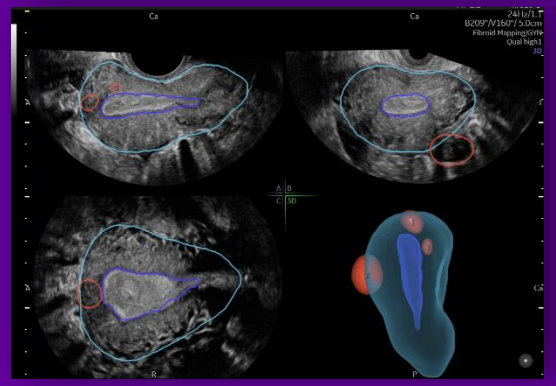
SM- Submucosal	0	Pedunculated Intracavitary
	1	<50% Intramural
	2	≥50% Intramural
O - Other	3	Contacts endometrium; 100% Intramural
	4	Intramural
	5	Subserosal ≥50% Intramural
	6	Subserosal <50% Intramural
	7	Subserosal Pedunculated
	8	Other (specify e.g. cervical, parasitic)
Hybrid Leiomyomas (impact both endometrium and serosa)	Two numbers are listed separated by a hyphen. By convention, the first refers to the relationship with the endometrium while the second refers to the relationship to the serosa. One example is below	
	2-5	Submucosal and subserosal, each with less than half the diameter in the endometrial and peritoneal cavities, respectively.

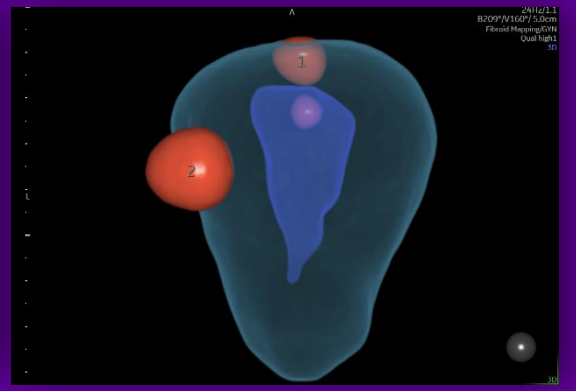
Fibroid Mapping Tool

new

AI reporting tool, that maps fibroids in 3D with exact position in relationship to uterus.

- Illustrate position of fibroids and relationship to uterus in 3D.
- Classify each fibroid according to FIGO© (International Federation of Obstetrics and Gynecology) classification.
- Simplifying communication with colleagues, referring physicians and patients.

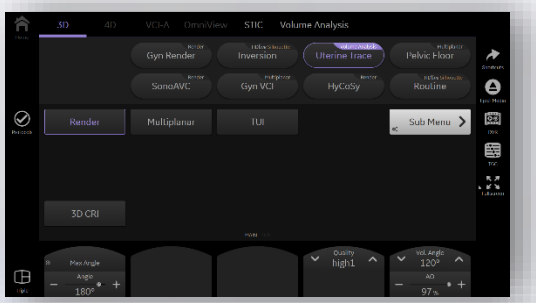




Uterine Trace

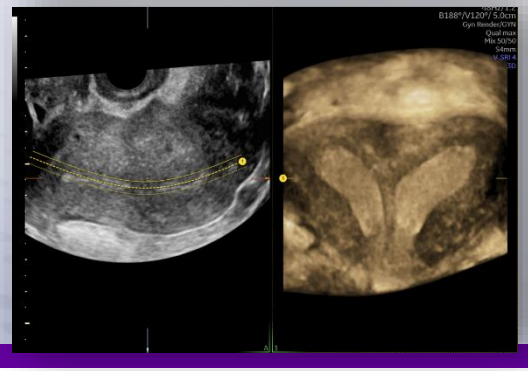
Taking the effort out of 3D with Uterine Trace – In 3 simple steps, obtain the coronal plane of the uterus. Links directly to Uterine Classification pictograms for easy documentation of uterine shape.

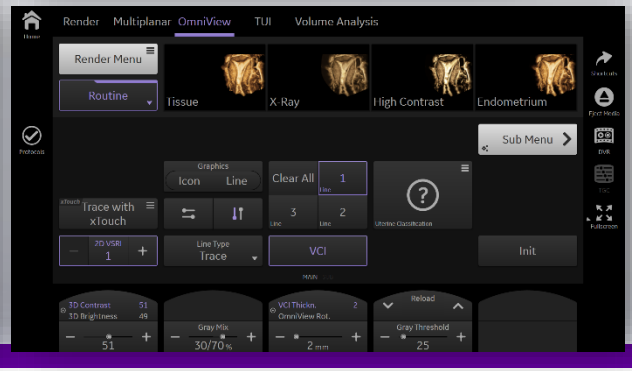
Select Uterine Trace Preset in 3D pre-mode



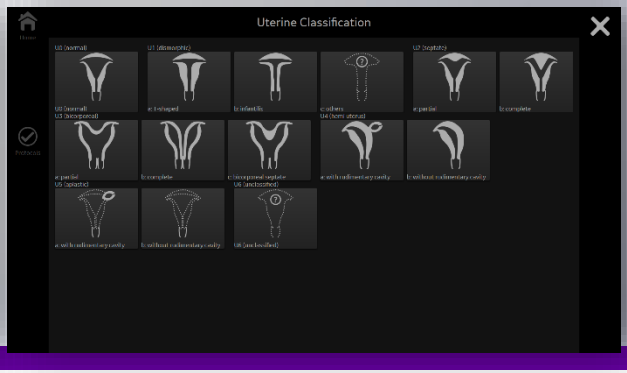
Trace endometrium on touch panel. See guide area on main screen 3D sweep started automatically

Adjust OmniView line if needed





Classify uterine cavity according to ESHRE or ASRM



Pelvic Health

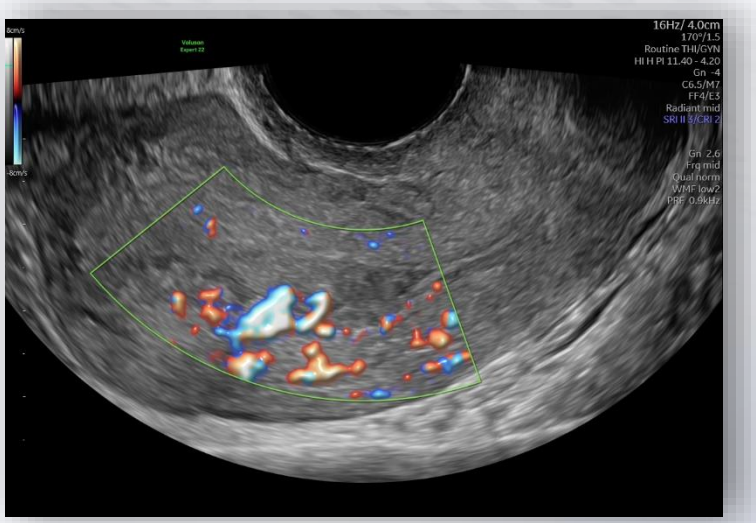
Exceptional imaging and advanced analysis tools can help provide clinical insights into gynecological health.

UltraHD

Obtain highly detailed images with increased axial and lateral resolution for fine details.

Radiant

Utilize Radiant for greater definition and clarity. Change the levels to enhance the 3D-like elevation effect for greater border visibility and sharpness.

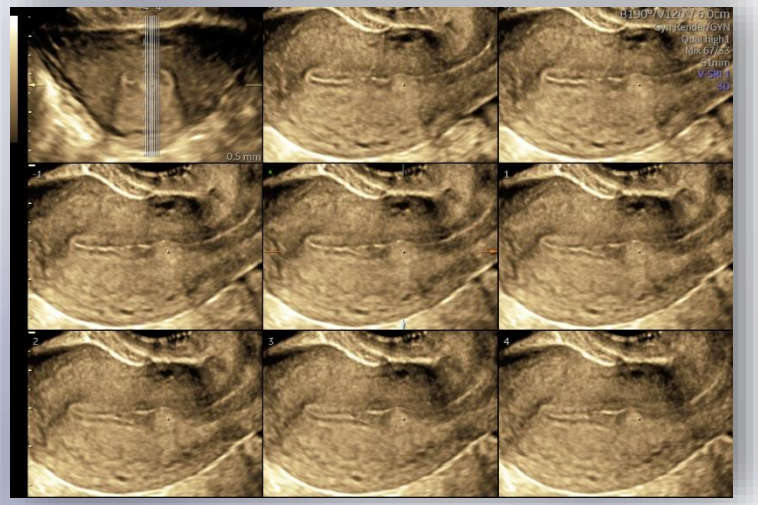


Color Imaging

Increase resolution and sensitivity in color for unprecedented clarity with Radiant*flow*, Slow*flow*HD, and Slow*flow*3D.

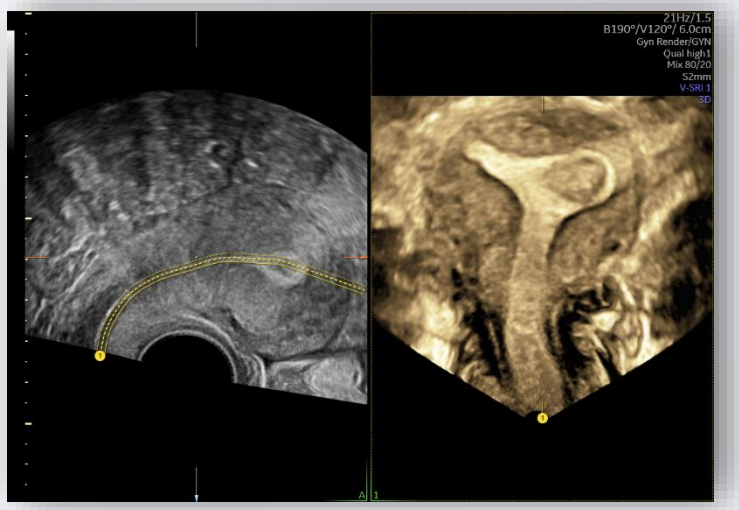
Pelvic Health

Exceptional imaging and advanced analysis tools can help provide clinical insights into gynecological health.



Tomographic Ultrasound Imaging (TUI)

Simplifies analysis and documentation of dynamic studies with a simultaneous view of multiple slices of a volume data set.



Advanced VCI with 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.

HD*live* Studio+

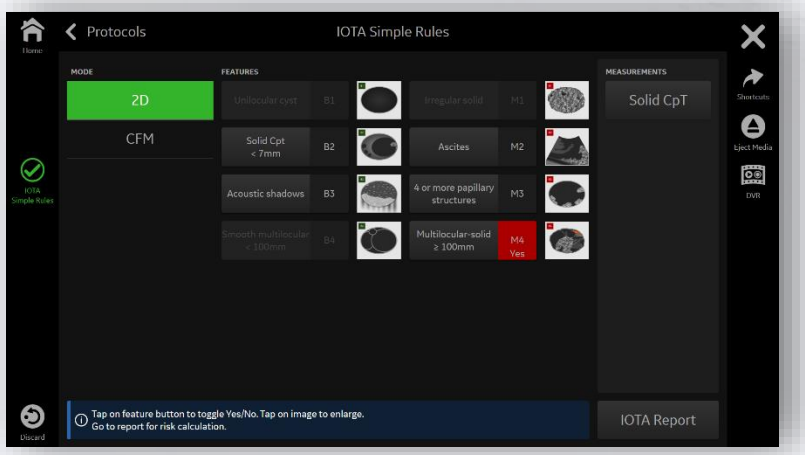
Illuminate anatomy and surrounding fluid with up to 3 independent light sources with various intensity and hues – Perspective Rendering and additional silhouette controls to aid with making a confident diagnosis.

Pelvic Health

Exceptional imaging and advanced analysis tools can help provide clinical insights into gynecological health.

Uterine Classifications

Simplify identification and reporting of uterine abnormalities with **Uterine Classifications** based on ESHRE, ESGE, or ASRM guidelines.



IOTA

Ovarian cancer risk estimate based on **IOTA (International Ovarian Tumor Analysis)**

- Simple Rules
- IOTA LR2
- IOTA ADNEX

First ultrasound supplier to offer all 3 IOTA models validated and approved by the IOTA group.

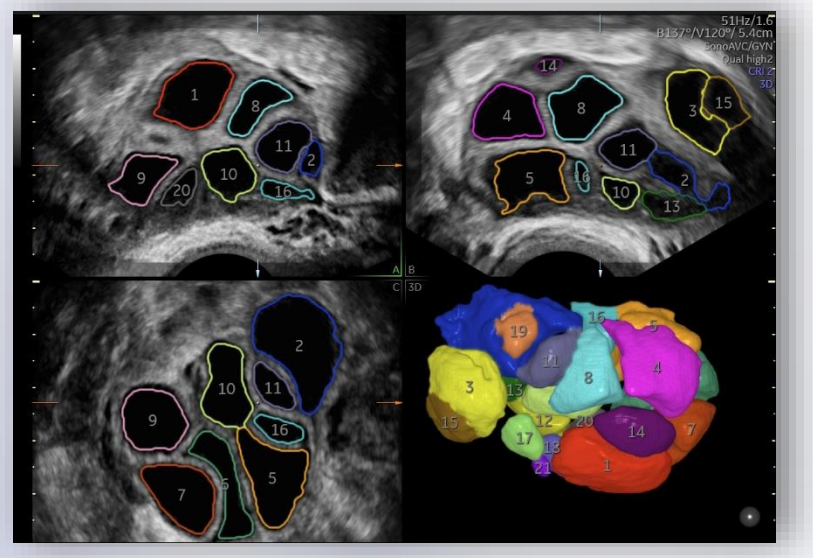
IETA/IDEA

Evaluate risk and assign scoring of the endometrial lining based on **IETA (International Endometrial Tumor Analysis).**

IDEA assessment tool helps guide through the protocol for quick and comprehensive evaluation of endometriosis and deep infiltrating endometriosis (DIE). Can be used with and without Scan Assistant.

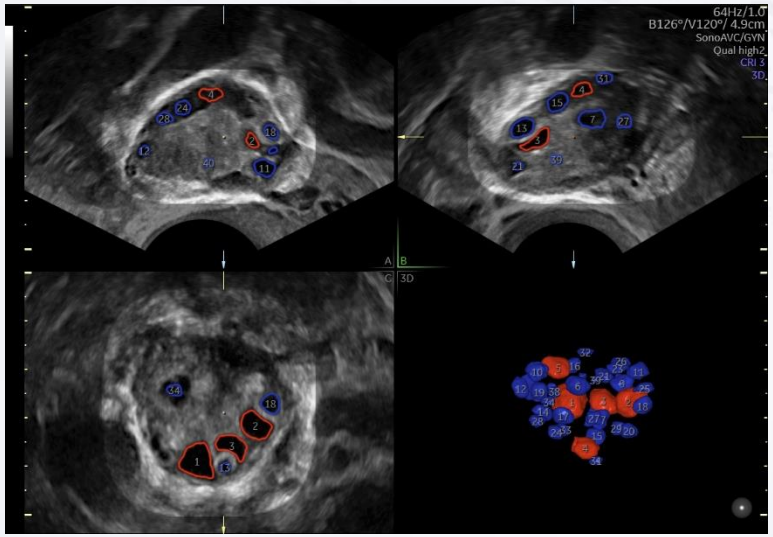
Pelvic Health

Exceptional imaging and advanced analysis tools can help provide clinical insights into gynecological health.



SonoAVC™ *follicle*

(Sonography-based Automated Volume Count follicle) – Automatically calculates the number, dimensions, and volume of hypoechoic structures in a volume sweep to help monitor patient follicles faster.



SonoAVC*antral*[2.0]

More accurately evaluate ovarian reserve and increase success for Assisted Reproductive Medicine treatments.

Achieve the Unachievable

Workflow Efficiency

Achieve the Unachievable - Workflow Efficiency

Modern, yet familiar, the Voluson Expert 22 is our most intuitive and customizable ultra-premium ultrasound. Designed with a new generation of Artificial Intelligence and automation tools, it helps increase exam speed and accuracy to streamline your day. Just think of the potential.

Design

Sleek and modern with advanced ergonomics and familiar user interface.

Artificial Intelligence & Automation

Designed with a new generation of Artificial Intelligence to help increase exam speed and accuracy to streamline your day.

Personalization & Customization

Personalize the user interface for your unique preferences and select system colors to suit your mood.

A Modern Classic Design

Incorporating the same intuitive functionality, Voluson's **familiar workflow** is simple and seamless

Work comfortably and see finer details with ease – 23.8" **High-definition ultrasound (HDU)** display offer 3 imaging sizes

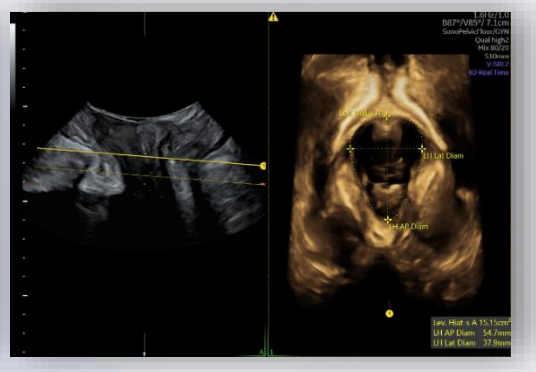
Probe ports conveniently located for less reach and easier access

Gel warmer keeping gel at a comfortable temperature

Achieve the Unachievable

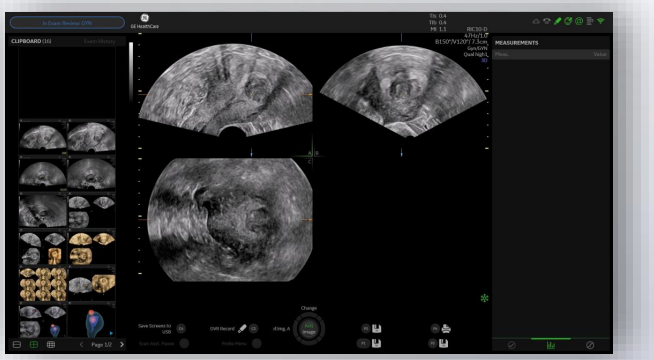
Artificial Intelligence (AI) has become part of our everyday lives – reducing tasks and simplifying our daily routines. It is also beginning to play an important role in women's health – helping to improve the delivery of care and efficiency of ultrasound exams.

SonoLyst



SonoPelvicFloor$^{2.0}$

***fetal*HS**



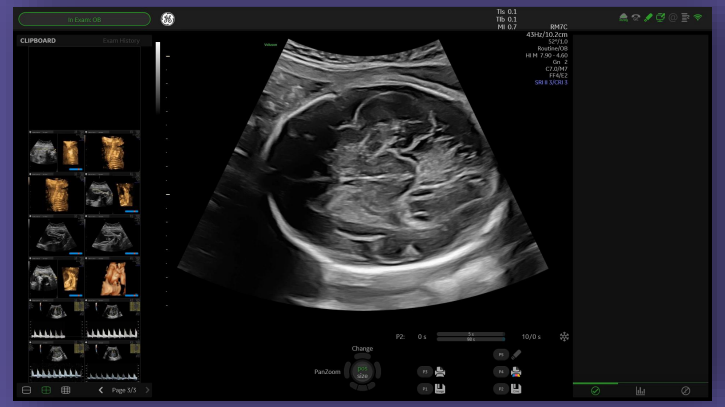
Fibroid Mapping

The Voluson™ Expert 22 contains AI tools to help you be more efficient, allowing you to reduce repetitive tasks and focus on your patients and practice needs.

Optimized Workflow

Respond probe activation that automatically selects used probe and goes to live – **New & unique in the industry!**

Flow Profiles - predefined and optimized preset tool for color and pulsed wave Doppler modes for more efficient imaging



RFID – effortlessly incorporating security into daily workflow to log on

Personalization & Customization

Customize the **user interface** >23M options

- Large touch panel (individual button arrangements)
- Tailored hard keys

Personalize **colors & lights** >4000 combinations

- Trackball colors
- User interface illumination
- Ambient trolley lighting
- Touch panel color scheme

SonoLyst

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

There are 3 efficiency aspects to this feature:

- SonoLystIR (Image Recognition) - Simply scan, then freeze
- SonoLystX - Build and refine your skills
- SonoLyst*live* - No freezing, no annotating, no storing - taking IR to next level by capturing images as you scan, in real-time

SonoLyst*live*

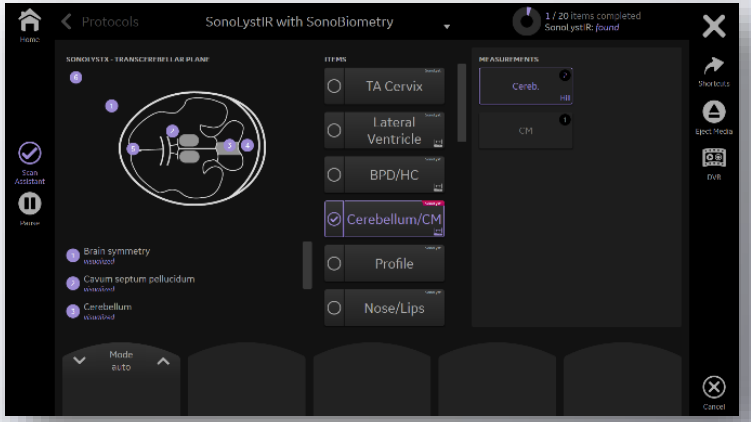
- No freezing, no annotating, no storing.
- SonoLyst*live* takes image recognition to the next level by capturing images as you scan, in real-time.
- Using ISUOG practice guidelines the system recognizes the anatomy as you scan, captures the image and checks it off the list of required views significantly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

SonoLyst IR/X

Reduce routine second trimester exam time by 40% by utilizing SonoLyst[3]

SonoLystIR: Simply scan, then freeze and SonoLystIR (Image Recognition) does the rest. Using ISUOG practice guidelines for performance of the routine mid-trimester fetal ultrasound scan, 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, your virtual, on-board ultrasound assistant. 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.

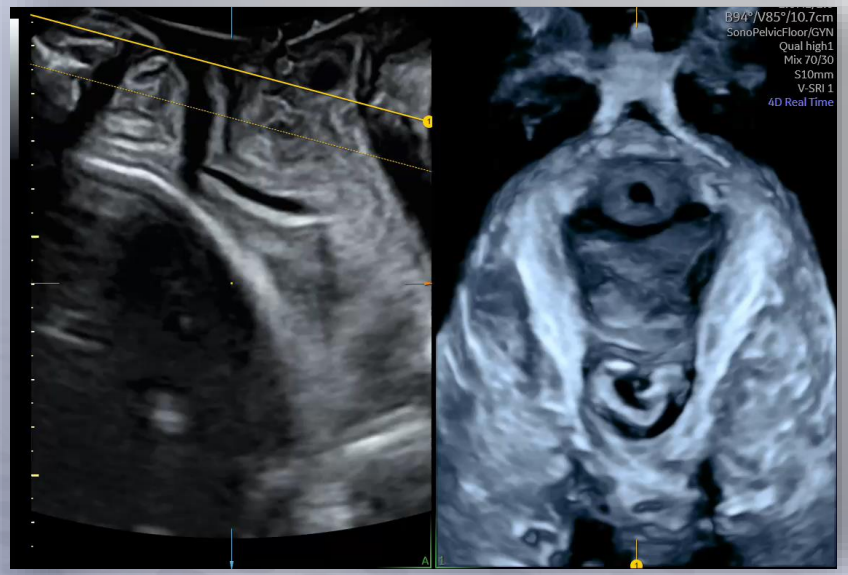


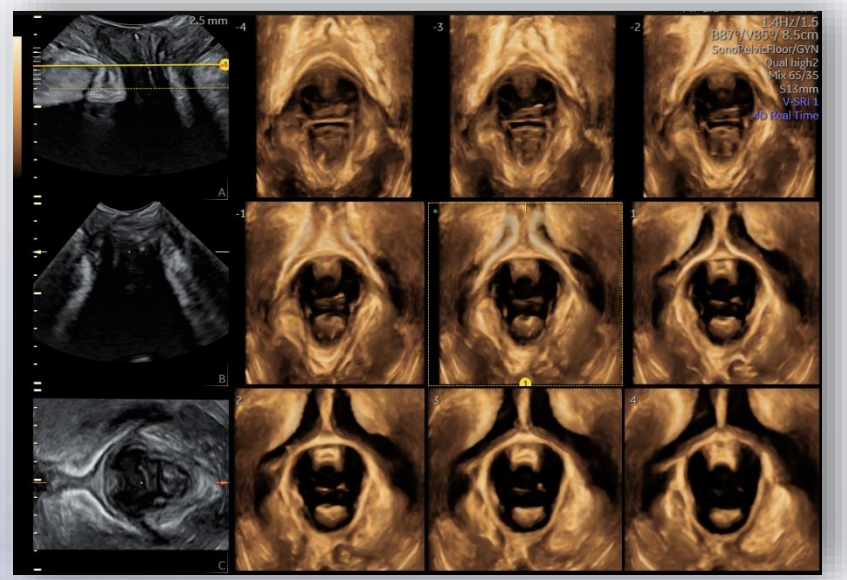
* As compared to manual exam time

SonoPelvicFloor$^{2.0}$

new

- AI-based feature to help obtain pelvic floor measurements for more consistent and reproducible results
- Comprehensive pelvic floor measurement package
- Automates plane alignment with live C-plane tracking
- Automated measurement of levator hiatus (AP, lateral and area/circumference) in 3 phases Rest/Valsalva/Contraction
- TUI View accessible in 3 phases
- Offers users a timesaving of 80% with the introduction of automated plane alignment and automated measurements[1]



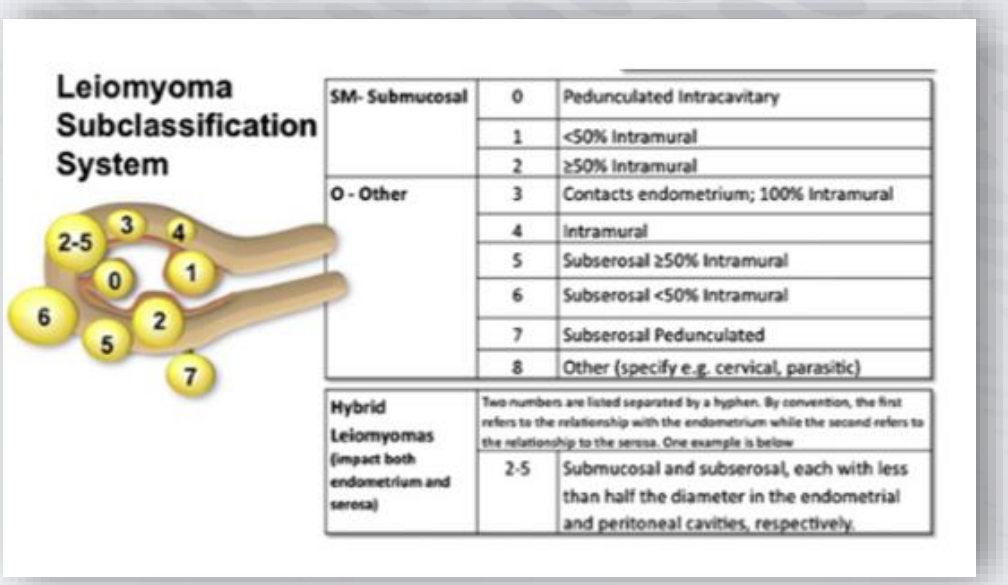


[1] As compared to manual exam process

Fibroid Assessment

Challenges:

- Fibroids are a common condition and frequently cause symptoms that require interventions
- Differentiation between sub-types in 2D can be challenging
- Current documentation possibilities are time consuming



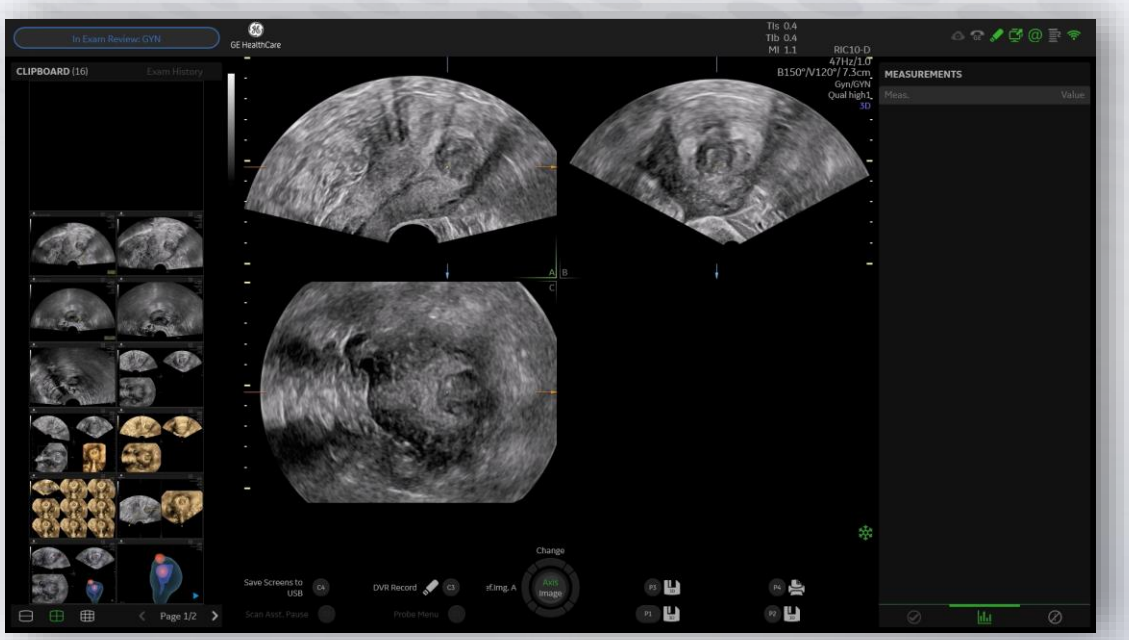
SM- Submucosal	0	Pedunculated Intracavitary
	1	<50% Intramural
	2	≥50% Intramural
O - Other	3	Contacts endometrium; 100% Intramural
	4	Intramural
	5	Subserosal ≥50% Intramural
	6	Subserosal <50% Intramural
	7	Subserosal Pedunculated
	8	Other (specify e.g. cervical, parasitic)
Hybrid Leiomyomas (impact both endometrium and serosa)	Two numbers are listed separated by a hyphen. By convention, the first refers to the relationship with the endometrium while the second refers to the relationship to the serosa. One example is below	
	2-5	Submucosal and subserosal, each with less than half the diameter in the endometrial and peritoneal cavities, respectively.

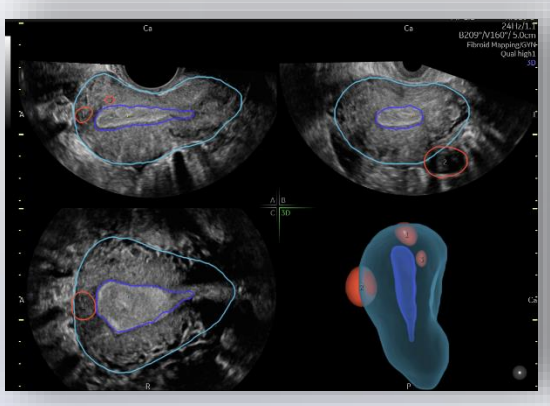
Fibroid Mapping Tool

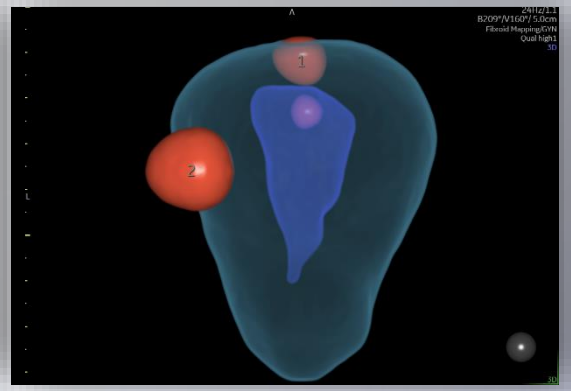
new

AI reporting tool, that maps fibroids in 3D with exact position in relationship to uterus.

- Illustrate position of fibroids and relationship to uterus in 3D.
- Classify each fibroid according to FIGO© (International Federation of Obstetrics and Gynecology) classification.
- Simplifying communication with colleagues, referring physicians and patients.





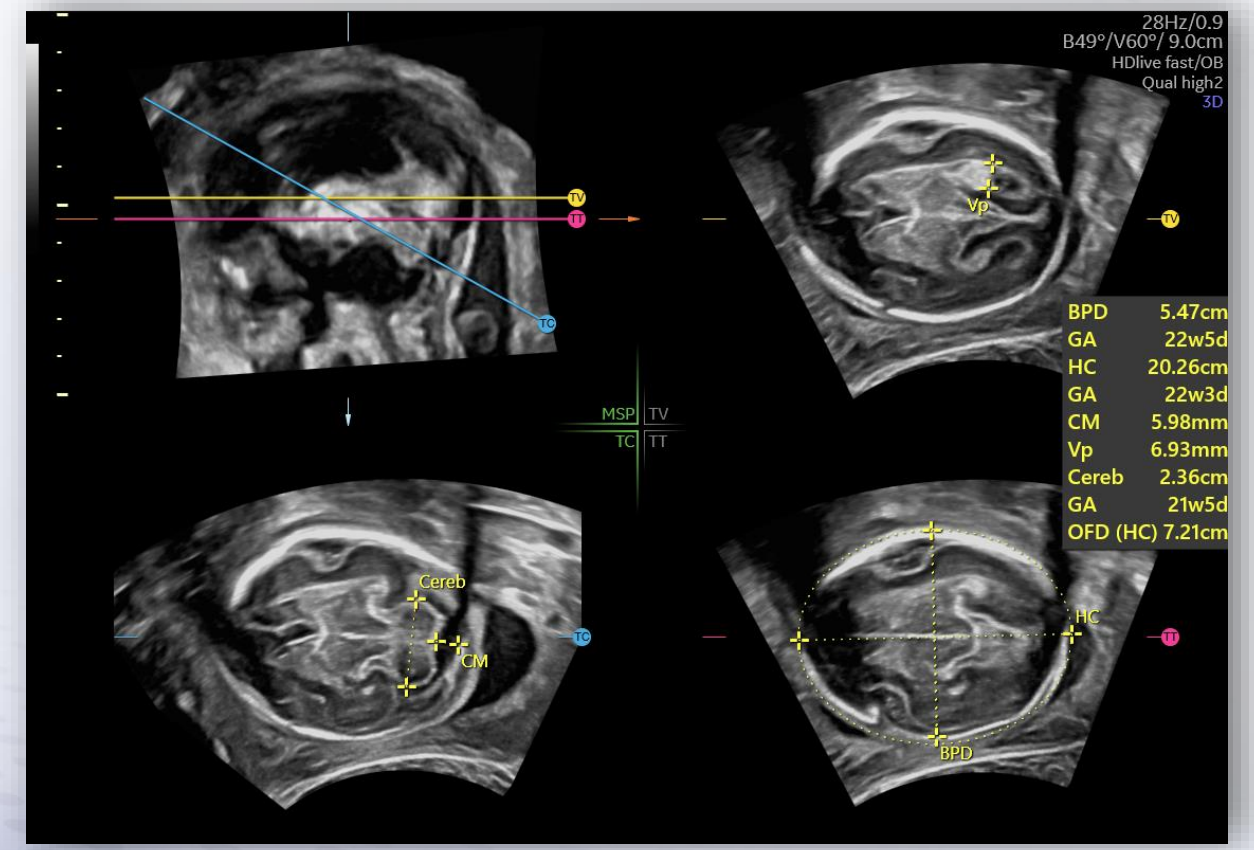


fetalHS

An AI-based guided workflow with step-by-step instructions to help identify normal anatomy with a focus on Fetal Situs, 4-Chamber Heart, 3-Vessels and Trachea View, and Cardiac Axis. Includes instructional messages, reference images, and diagrams that represent normal anatomy. 4CH, 3VV/3VT and Cardiac Axis automatically generated from user acquired cine loops.

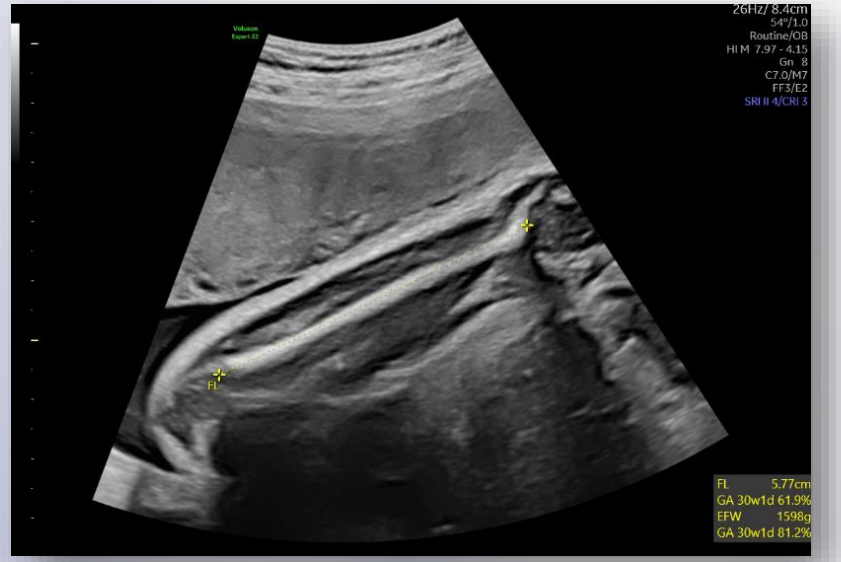
SonoCNS

AI tool that 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.



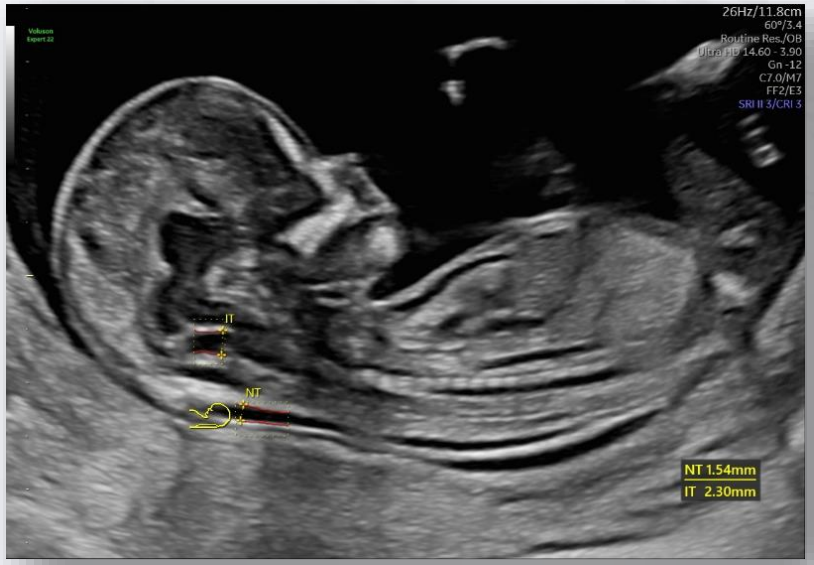
Achieve the Unachievable

Remove obstacles and drive productivity to transform your day with the Voluson Expert 22 Sono-Automation tools - so you can keep pushing what is possible.



SonoBiometry

Helps reduce keystrokes and improves exam time with automatic caliper placement and fetal measurements of bi-parietal diameter (BPD), head circumference (HC), abdominal circumference (AC), femur length (FL), humerus length (HL), lateral ventricle, cerebellum, and cisterna magna.



SonoNT/SonoIT

(Sonography-based Nuchal /Intracranial Translucency) Semi-automatic, standardized measurements of nuchal and intracranial translucencies.

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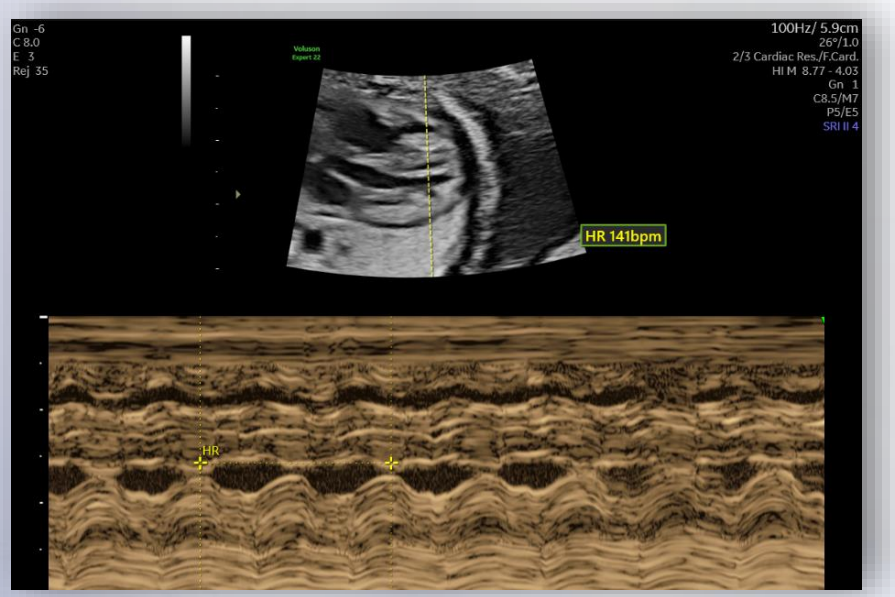


SonoFHR

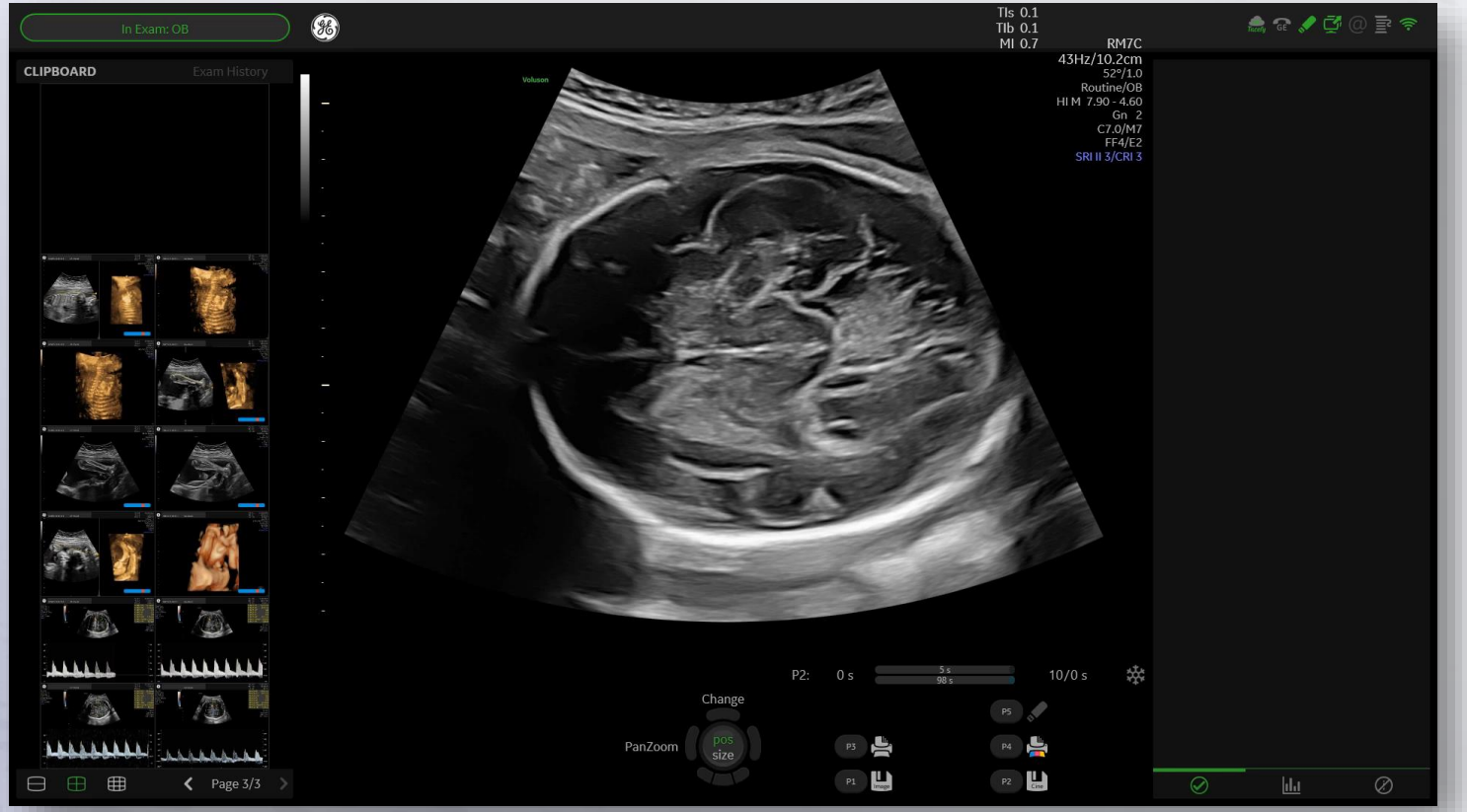
Automation tool that automatically places calipers in M-mode or pulsed wave Doppler to quickly obtain the fetal heart rate.

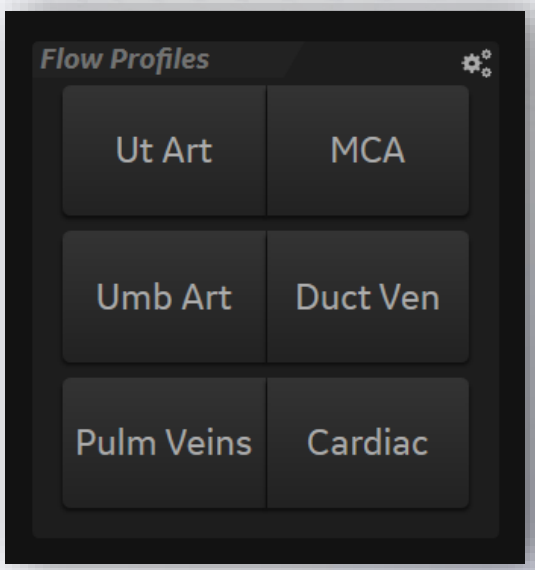
SonoRender*live*

Simplifies volume rendering by automating render line placement in 3D and 4D imaging.

Flow Profiles

Predefined and optimized preset tool for color and pulsed wave Doppler modes for more efficient imaging.





Scan Assistant

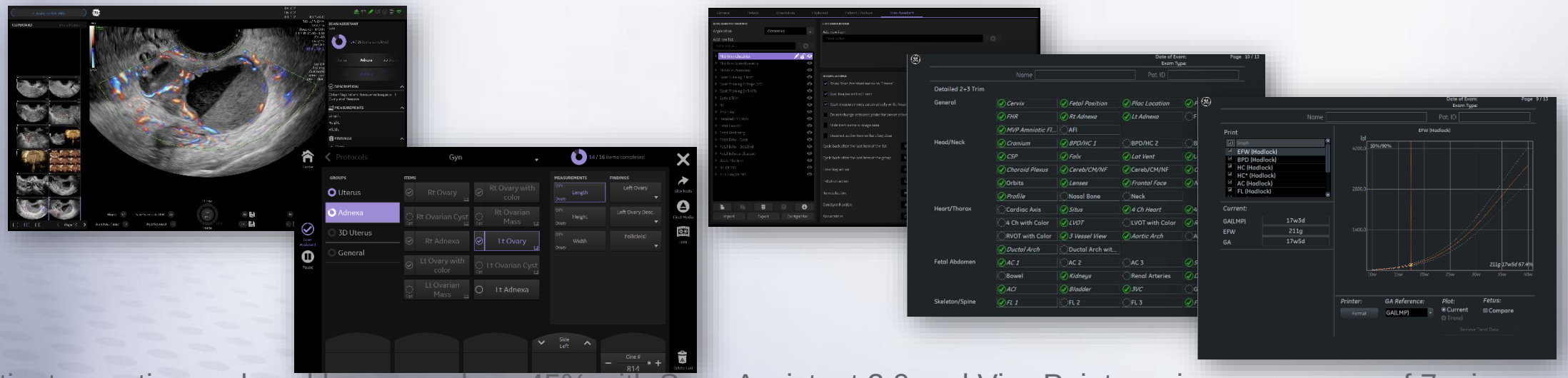
Balance imaging schedules while increasing patient satisfaction with complete exams and less callbacks

These flexible, customizable exam protocols help reduce time required to conduct and document results by guiding you through an exam more efficiently, aiding in annotation, measuring, reporting, and transferring data to an image management system or PACS based system on your order sequence and output requirements

- Status monitor onscreen
- Anatomy page completion during exam
- Comparison Image option

- Improved configuration page
- Image shuffling
- Link probes & presets to items

- Improved efficiency with Scan Assistant offline configurator



Patient scan time reduced by as much as 45% with Scan Assistant 2.0 and ViewPoint, saving an average of 7 min x exam*

*Reference White Paper – *Enhanced Efficiency with Customized Ultrasound Exam Protocols and Quality Reporting* - PB/GYN specialists of Palm Beach – USA

Expect the Unexpected

Support Excellence

Support Excellence Within Reach

Leverage our entire ecosystem of support for peace of mind – now and in the future. Combined with a flexible service program. Experience more. More services. More support. More future-focused solutions. Finally, a partnership that won't leave you wanting more.

Education & Training

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

Collaboration

Digital Expert Connect offers real-time collaboration opportunities where clinicians can easily consult with collaborators within their network anytime, anywhere.

Maintenance, Repair & Remote Support Services

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

Exceed your Expectations

Leverage our entire ecosystem of support for peace of mind – now and in the future. Combined with a flexible service program. Experience more. More services. More support. More future-focused solutions. Finally, a partnership that won't leave you wanting more.

Updates, Upgrades, and Device Protection

Download critical Windows® patches, security updates and Voluson extension release software at your convenience with **eDelivery*** . Protect your ultrasound system from cyber-attacks with Voluson's comprehensive **SonoDefense** solution.

Probe Repair and Hygiene Solutions

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.

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.

Exceed your Expectations

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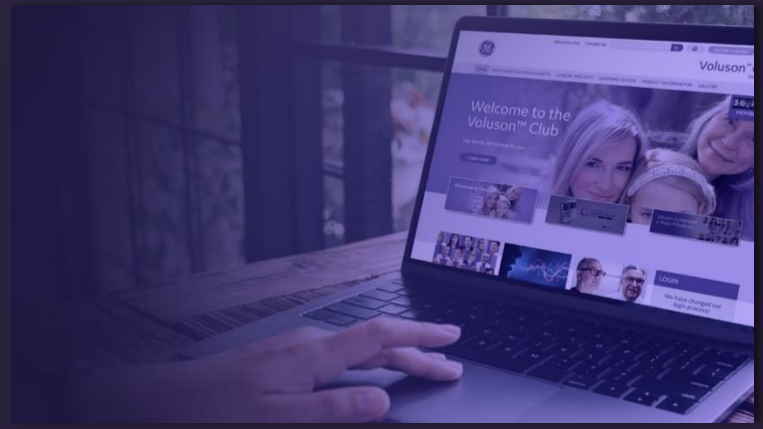
Centralized Device Management

AVURI is a cloud-based solution that lets you manage devices remotely from one central location. Monitor devices across your fleet with the ability to view, back up, and deploy device configurations, all without leaving your desk.*

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.

Exceed your Expectations

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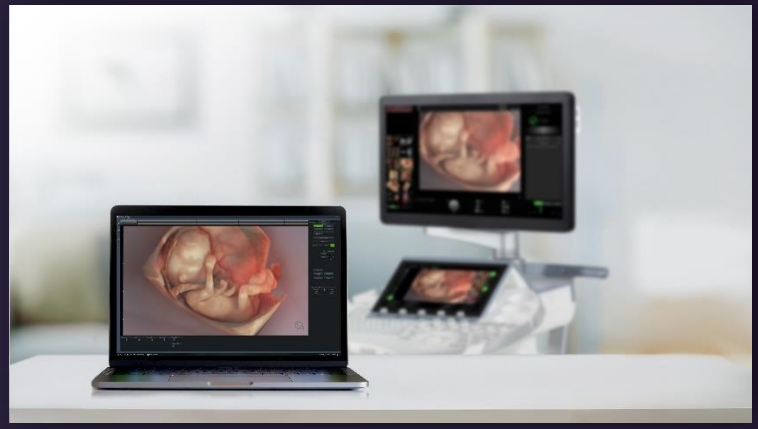
ViewPoint™ 6

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

Tricefy ™

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

4D View



Optimize, manipulate and analyze volume ultrasound data offline – when and where you need it. 4DView extends the capabilities of your Voluson and gives you the flexibility to free up your ultrasound machine for additional patients.

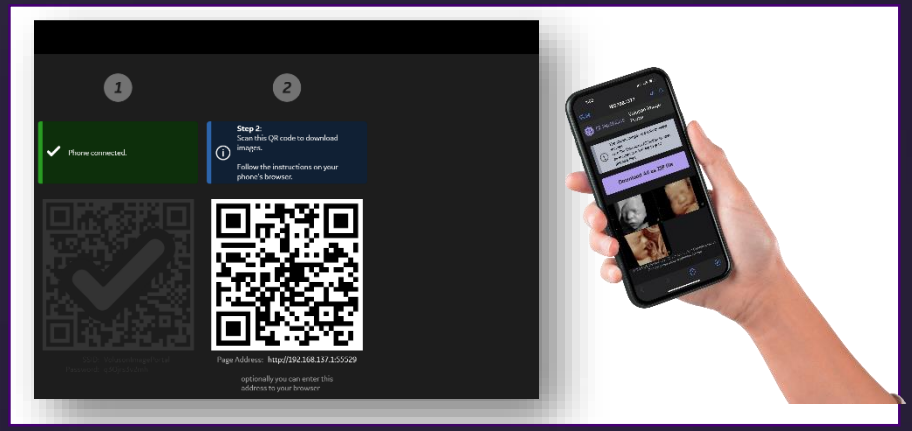
Support Excellence within Reach

Leverage our entire ecosystem of support for peace of mind – now and in the future. Combined with a flexible service program. Experience more. More services. More support. More future-focused solutions. Finally, a partnership that won't leave you wanting more.

Email

Send selected images directly to patients' email from the Voluson ultrasound system.

Voluson Image Portal



Patient scans QR code to collect selected images to their mobile phone via the Voluson Image Portal.

GE HealthCare

Sept 2023 JB25516XX