



# Voluson Expert 22 Fetal Heart

## You Set the Limits

Congenital heart defects are one of the most common and most difficult fetal anomalies to detect. Identifying fetal cardiac abnormalities earlier means you can intervene sooner, plan for delivery and potentially improve outcomes. The Voluson™ Expert 22 provides a comprehensive solution of imaging and evaluation tools to help distinguish the tiniest structures with stunning clarity and to help simplify assessment and monitoring of the fetal heart – allowing you to focus on early identification rather than late diagnosis.



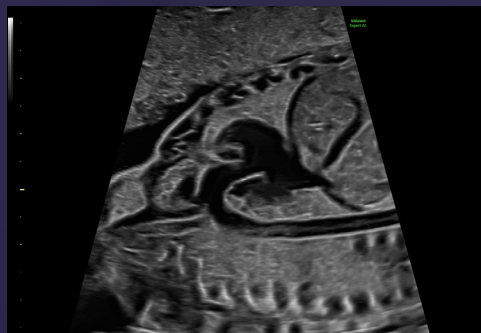


# DETECTION

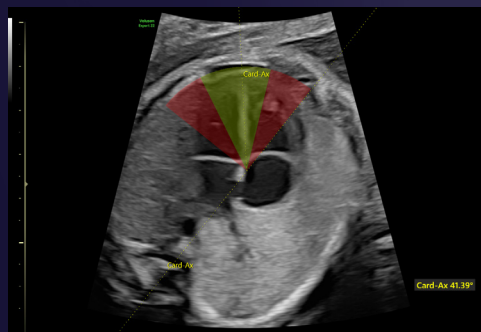
Assess the fetal heart from the earliest development stages with high detail, high resolution 2D, 3D, and 4D imaging. Utilize easy automation to help obtain and visualize the recommended fetal heart for a complete exam.



**fetalHS** helps determine if a fetal heart is normal by guiding you through a step-by-step instruction to identify Fetal Situs, 4-Chamber, 3-Vessels and Trachea View, and Cardiac Axis



**Radiant** offers clear border definition to aid in detail visibility. Change the levels of elevation for a greater 3D-like appearance of your 2D image



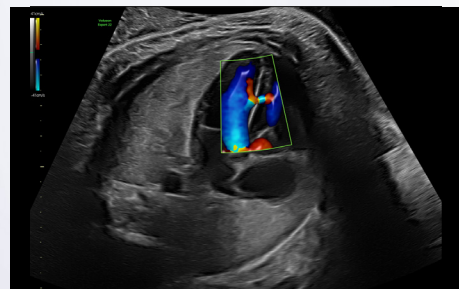
**Cardiac Axis** is an automated measurement to help quickly identify the potential for a congenital heart defect



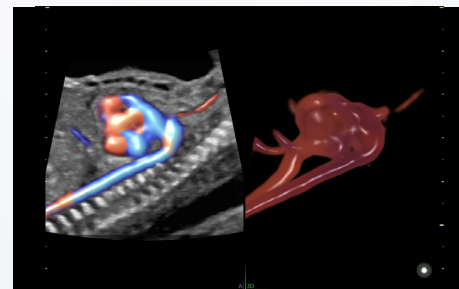
**RIC6-12 high resolution endovaginal probe** helps detect fetal abnormalities earlier in the first trimester

# DIAGNOSIS

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

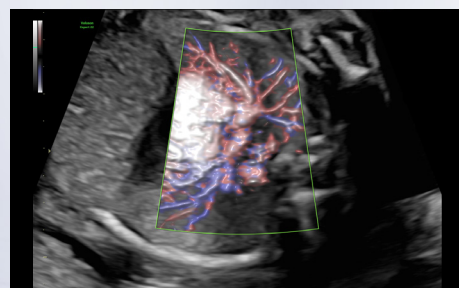


**Radiantflow™** delivers easy, fast visualization of blood flow using the amplitude of the Color Doppler signal to enhance the robustness and create a 3D-like appearance

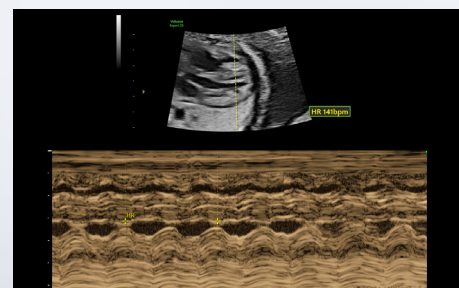


**HDlive™ Flow** – Clearly display vascular structures and orientation with greater dimension and illumination

**HDlive Flow Silhouette** – Visualize blood vessels and fetal heart flow to provide greater insight transparently through vascular anatomy



**SlowflowHD** expands the range of visible blood flow to include low velocities vessels



**SonoFHR** places calipers on the M-mode or PW trace to automate Fetal Heart Rate calculation

Ensure complete fetal heart assessment through the help of **Scan Assistant** – a flexible, and customizable exam protocol tool that helps increase exam consistency and productivity while documenting for quality assurance purposes

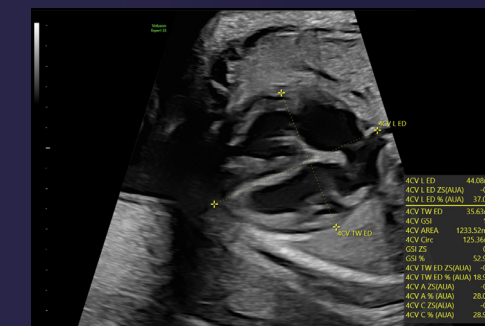
# MONITORING

Not only anomalies can impact 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.

**fetalHQ** – 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. **fetalHQ** 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, border identification and endocardial border



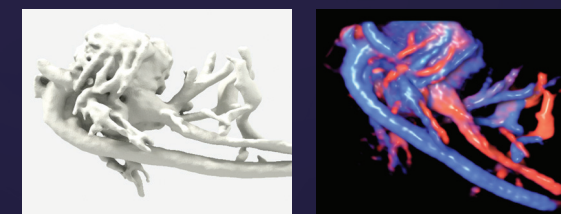
Fetal heart contractility outlined in an in-depth report



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

Integrated **TAPSE/MAPSE** and other published measurement data allow for expanded reporting and diagnostic support

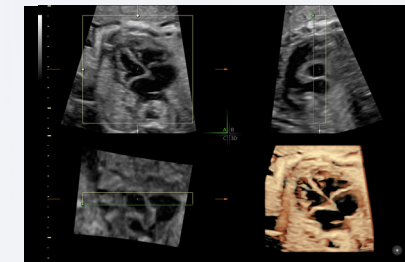
Explore **3D Printing** for rapid clinical prototyping and research with full mesh exports directly from the Voluson ultrasound system – export files can be generated from color, inversion, and glass body data sets



**SonoLyst** – Automatically identifying fetal anatomy seen on standard views to select all applicable annotations to enhance efficiency – compare acquired image/view to standard criteria for quality assurance ensuring image quality and consistency

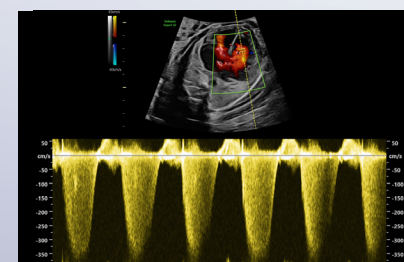
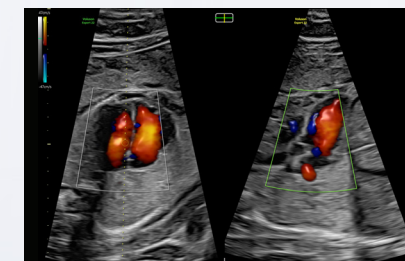
Faster volume rates, flexible imaging formats, and brilliant resolution provided by the latest electronic 4D probe technology, **eM6C**. Probe technology offers unique tools to help with comprehensive fetal echo exams\*

**eSTIC (electronic Spatio-Temporal Image Correlation)** – 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\*\*



**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 modes

**e4D SnapShot** – Optimizes exam time with one button access from real-time 4D to acquire an eSTIC data set



**Pulsed Wave Doppler** assessment offers unprecedented sensitivity and clarity



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

\*\*Compared to conventional mechanical probe technology with STIC.