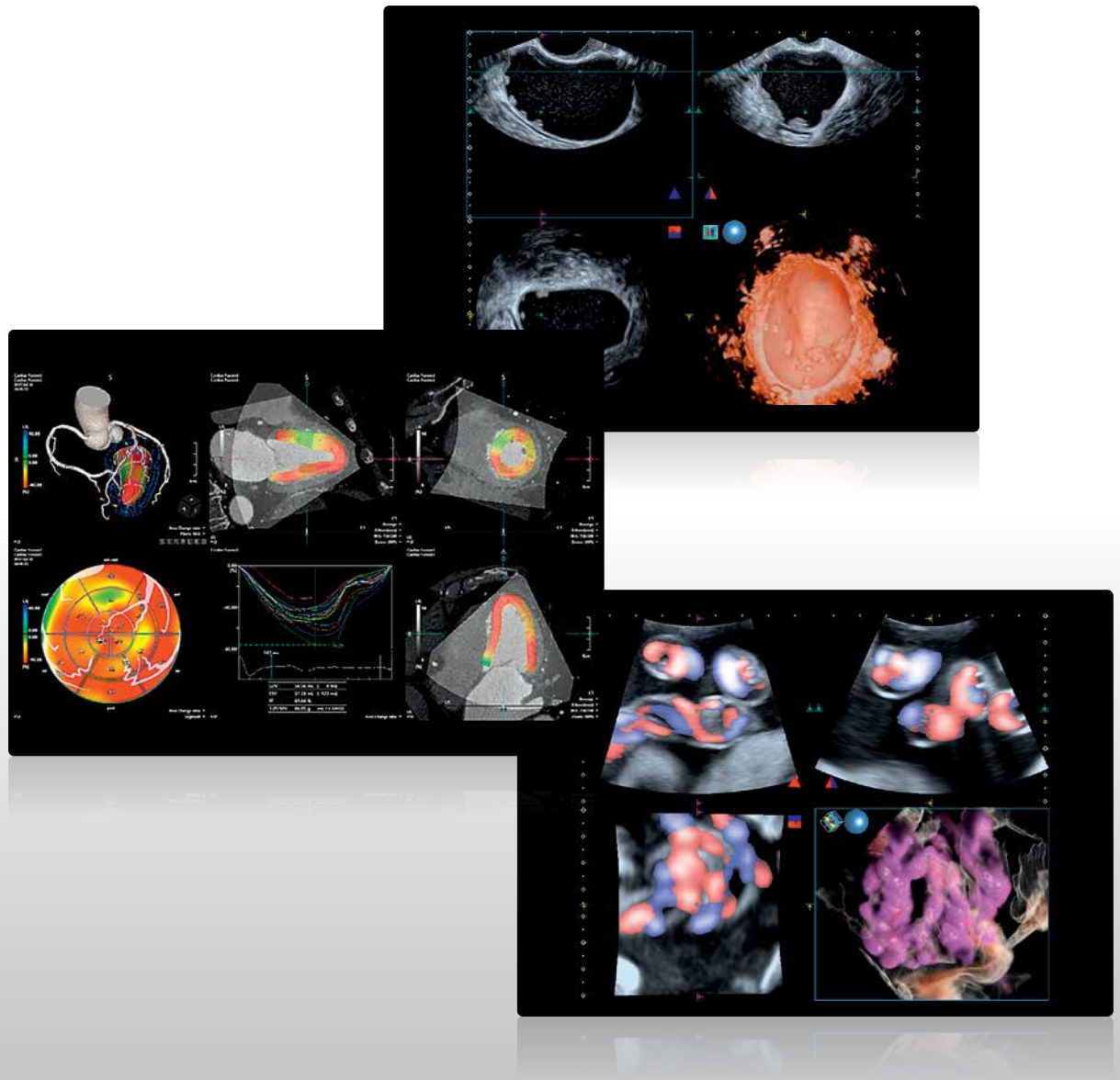
Canon



Vitrea

Advanced Visualization Workstation

Diagnostic Ultrasound Applications

Vitrea Advanced Visualization

Efficiently manage your clinical data

From imaging to quantification, from reporting to archiving, our diagnostic ultrasound equipment provides a full-spectrum solution that helps you manage routine and advanced clinical studies more efficiently while embracing standardized data formats to facilitate easy integration into networked environments. The Vitrea Advanced Visualization solution gives you full access to your clinical data and diagnostic tool set wherever and whenever needed.

Cardiac imaging

The Vitrea workstation allows you to work at the forefront of cardiovascular imaging and research. A wide range of advanced tools to plan, guide and follow up cardio-vascular interventions is available for analysis on the workstation.

- Wide suite of advanced quantification tools for 2D, 3D and 4D imaging
- Modality fusion capability for advanced clinical insights
- Raw data format enables identical functionality on the workstation as on the ultrasound system

General imaging

Vitrea's advanced tools for abdominal imaging can help to improve your efficiency in the assessment, treatment planning and follow-up of complex abdominal disease.

- Ideal for collecting and analyzing data for clinical studies
- Wide range of specialized tools for dedicated tasks
- Enabling multidisciplinary assessment from a single source

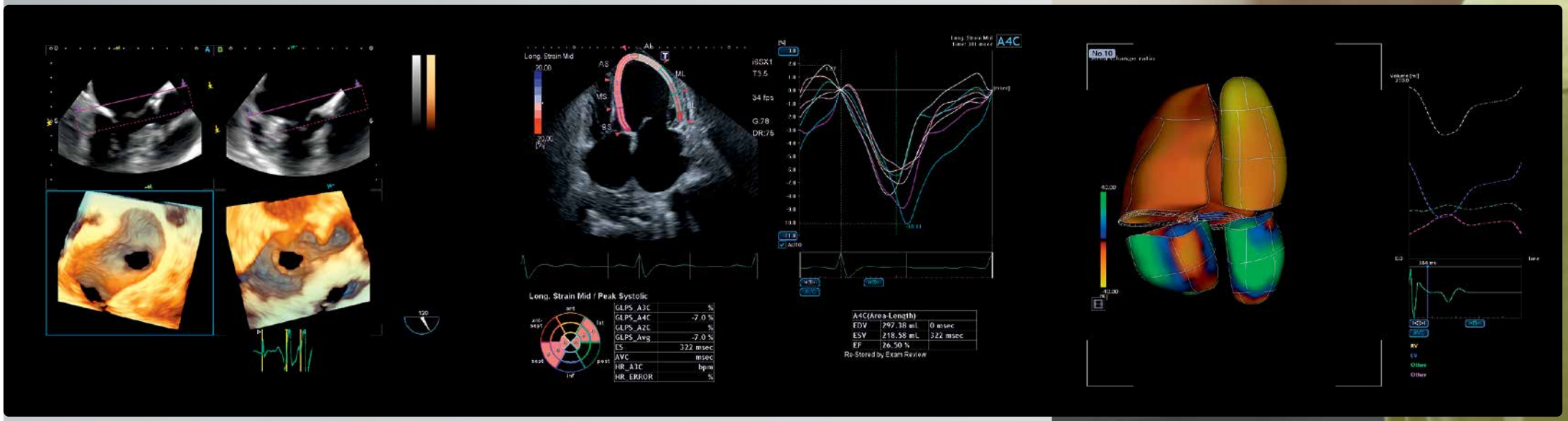
Women's Health applications

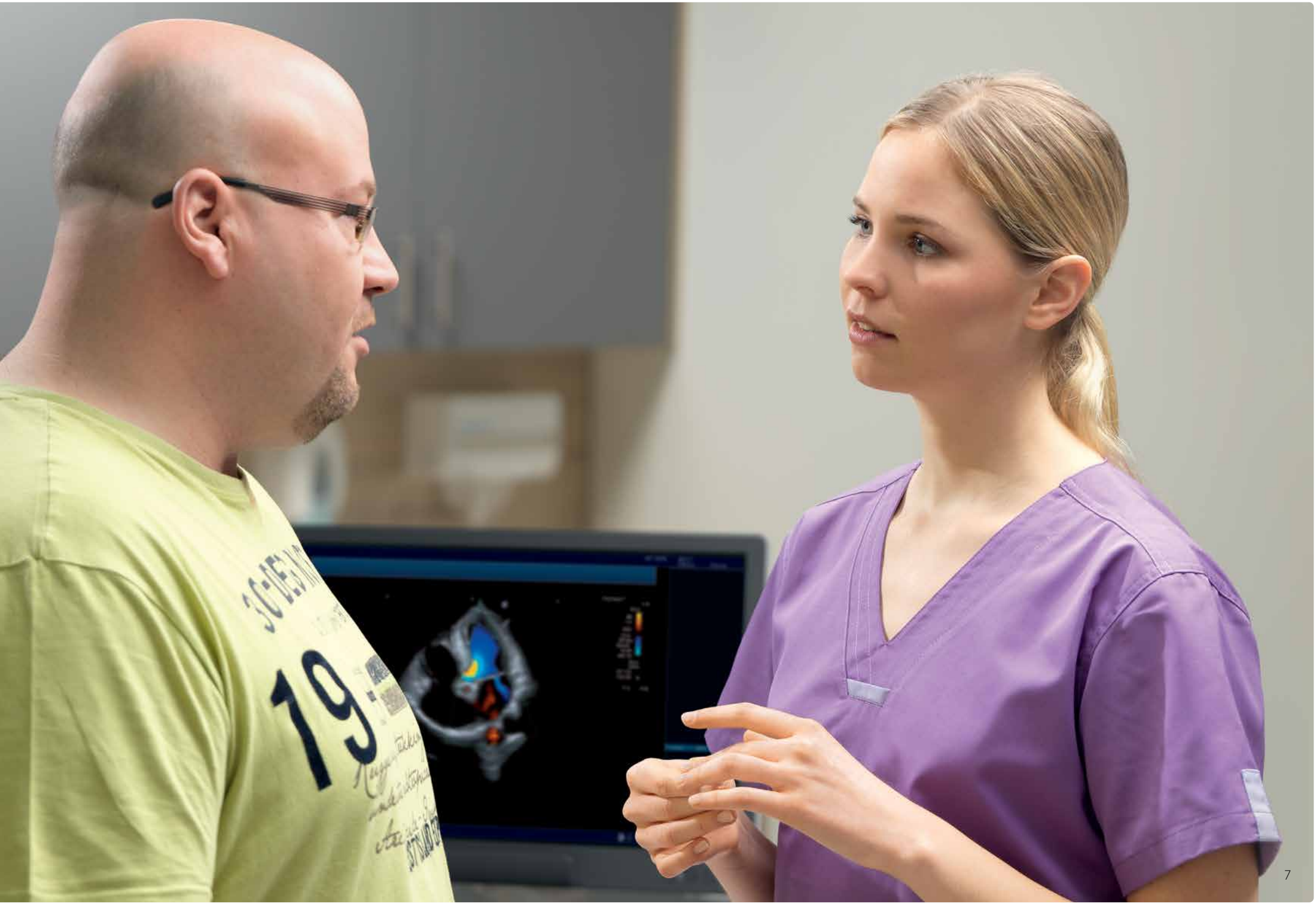
Our Women's Health toolbox offers a wide range of applications for fertility and advanced fetal evaluation as well as for treatment planning of associated disorders.

- Simple user interface with short learning curve for increased productivity
- Similar handling and functionality as on the ultrasound system
- Helps you keep your ultrasound system available for uninterrupted scanning

Advanced cardiac imaging and analysis

Patient volumes are increasing, patients are getting larger and protocols are getting longer. Canon's raw data architecture helps streamline your workflow by allowing you to evaluate clinical data on- or offline with simultaneously automating many of these time-consuming procedures.

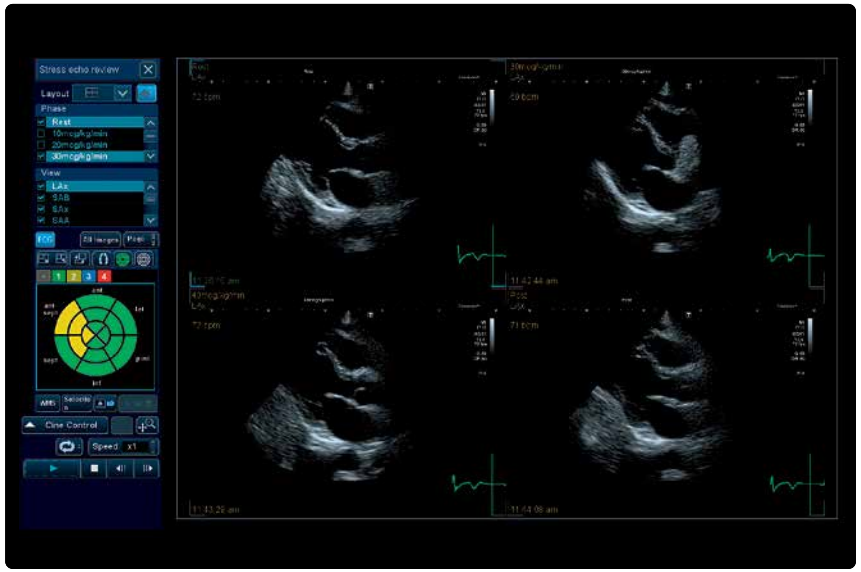




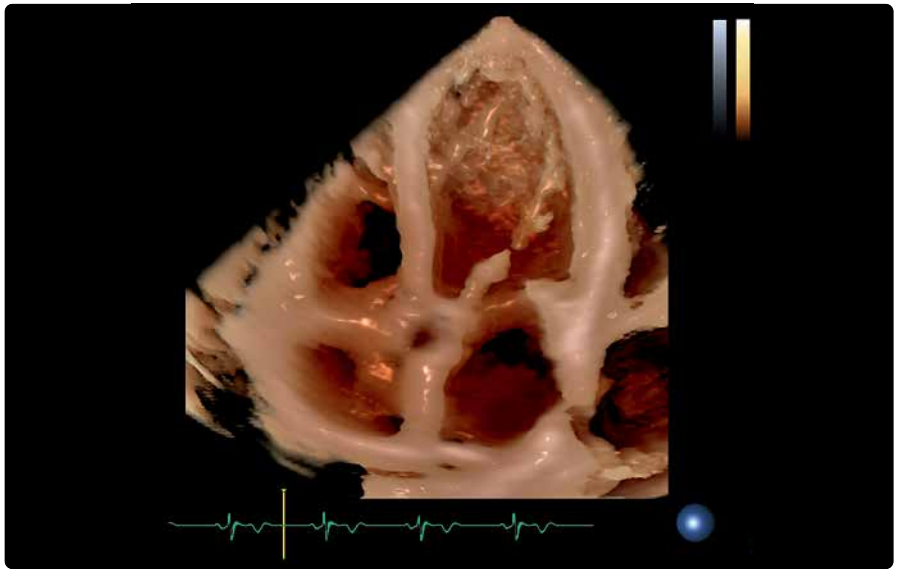

Canon

Explore every angle quickly and reliably

While Aplio enables you to acquire high-quality 4D volumes at high frame rate, the Vitrea workstation provides a host of advanced analysis tools for in-depth assessment of cardiac anatomy and function.



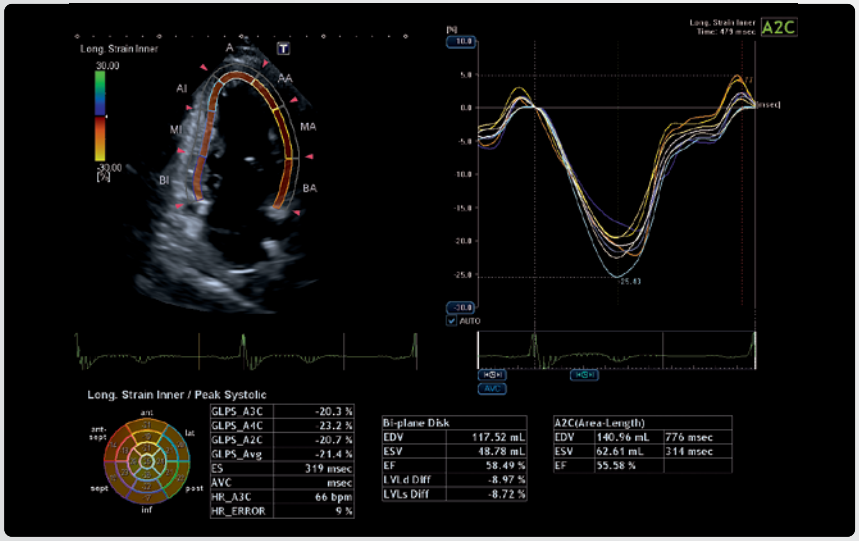
Simple workflow, fast results
Supporting standard and user-defined protocols for both physical and pharmacological stress, Aplio offers a comprehensive package for fast and accurate wall motion assessment.



Extraordinary image quality, high volume rates
Canon's volume matrix transducers enable you to acquire high-quality 4D volumes at high frame rate. A host of advanced tools allows for in-depth assessment of cardiac anatomy and function directly on the system and on the workstation.

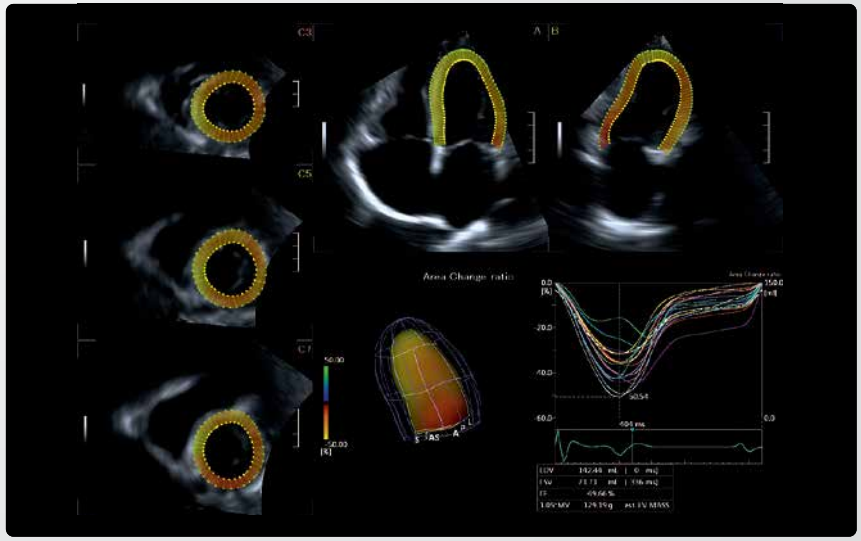
Accurate quantification, regional myocardial function

Functional assessment is at the heart of cardiovascular imaging. By providing valuable additional information in easy-to-understand visual, parametric or quantitative formats, Canon's advanced clinical functions can help you get your diagnostic answer faster and more reliably.



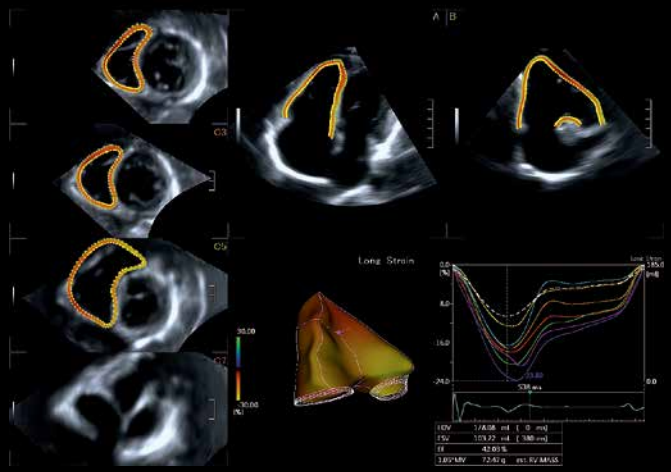
Automated cardiac function, regional myocardial assessment

The Vitrea workstation enables accurate and reproducible cardiac quantification in just a few clicks. The system automatically calculates Ejection Fraction, LV volumes and other important parameters.

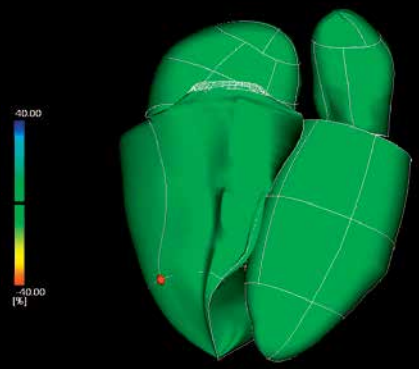


Wall Motion Tracking

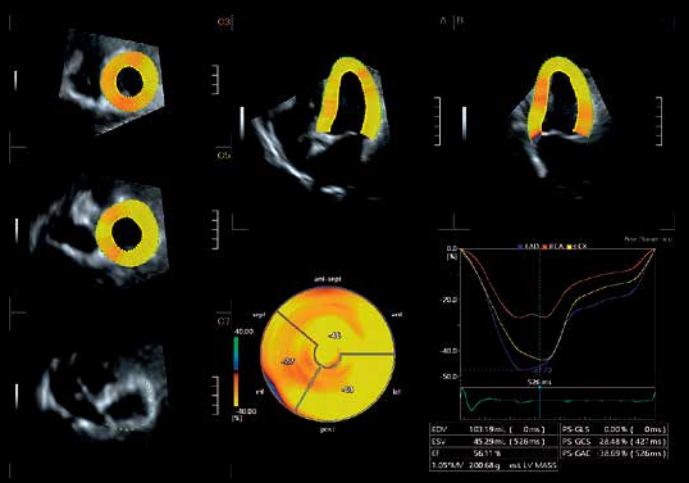
Advanced Wall Motion Tracking technology provides immediate visual and quantitative access to global and regional myocardial wall motion dynamics in 2D and 3D, including layer-specific strain.



Right ventricular function
3D Wall Motion Tracking is also available for the right ventricle with functional display in the RV model as well as segmental waveforms.



Quad-chamber tracking
Quad-chamber tracking displays the tracking of multiple cardiac chambers in one view along with waveforms.



All information in a simple overview
However complex and detailed the analysis results are, the Vitrea workstation displays relevant data in a clear, easy-to-understand format.

Robust tools for advanced procedures

In combination with Aplio i900, the Vitrea workstation provides a comprehensive set of tools to assess patient suitability for THV deployment or clipping procedures, as well as for procedural planning, monitoring and follow-up.

Mitral valve analysis (MVA)
The MVA tool provides concise anatomic and functional assessment of the mitral valve. The function's quad display offers a clear overview of different scan planes.

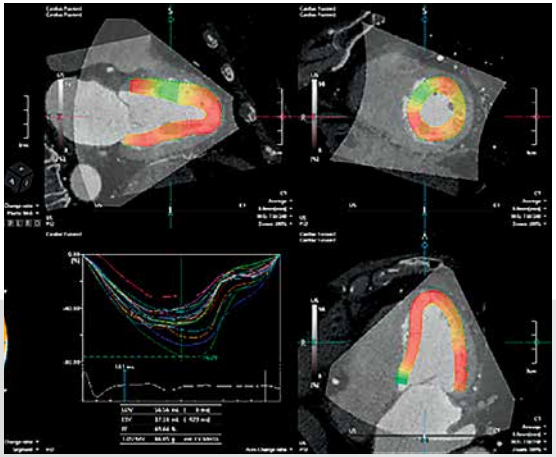
Aortic valve analysis (AVA)
The AVA tool is a complete solution for the evaluation of patient suitability for TAVI, as well as for planning and monitoring the intervention from pre- to post-procedure.

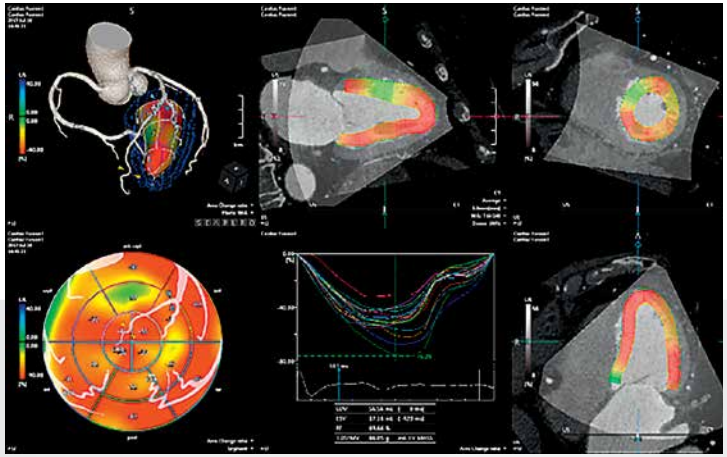
Modality fusion for advanced insights

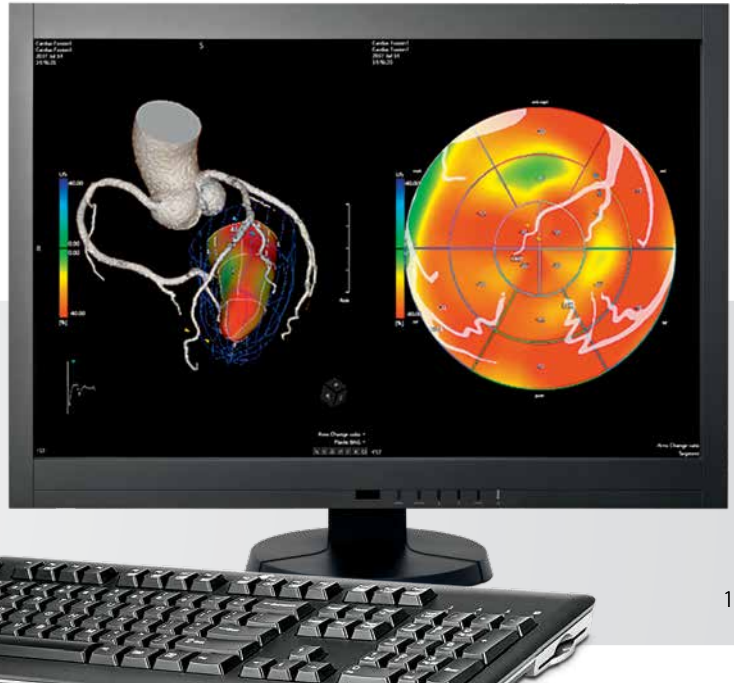
Cardiac Fusion is a unique tool to merge coronary CT images showing accurate coronary anatomy and ultrasound 3D Wall Motion Tracking, offering simultaneous display of the cardiac wall outline and function.

Cardiac Fusion offers automatic synchronization to match the position of coronary CT and volumetric ultrasound images. By superimposing coronary 3D images and the parametric 4D LV model the function offers accurate assessment of the coronary artery disease based on both coronary anatomy and wall motion function.

DICOM
RAW



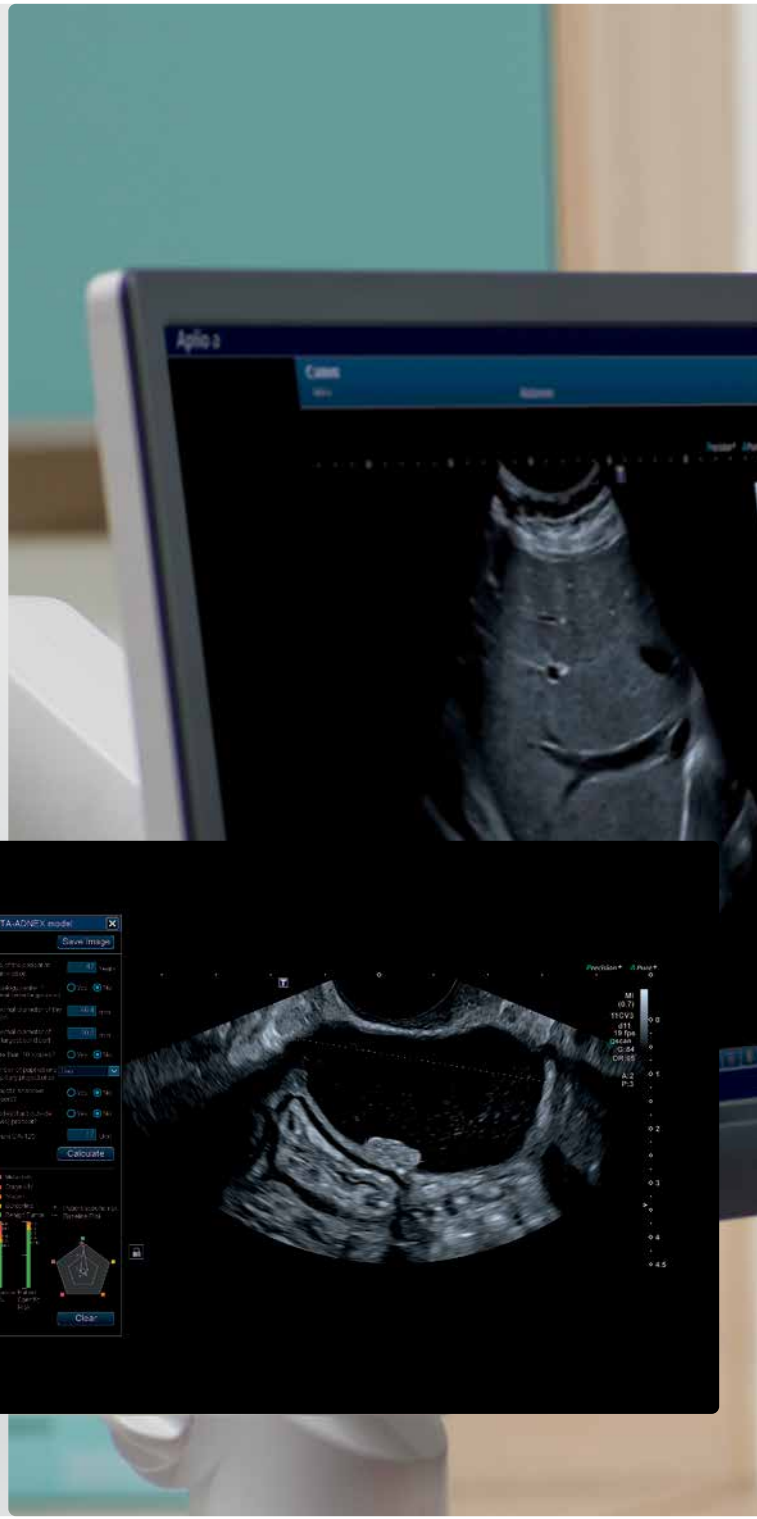




Cardiac Fusion provides a variety of views and projections for better comparison and insights, including the comparison of two fusion views for pre/post or stress/rest studies. Cardiac Fusion is available on the Vitrea workstation with no loss of functionality thanks to Aplio's raw data architecture.

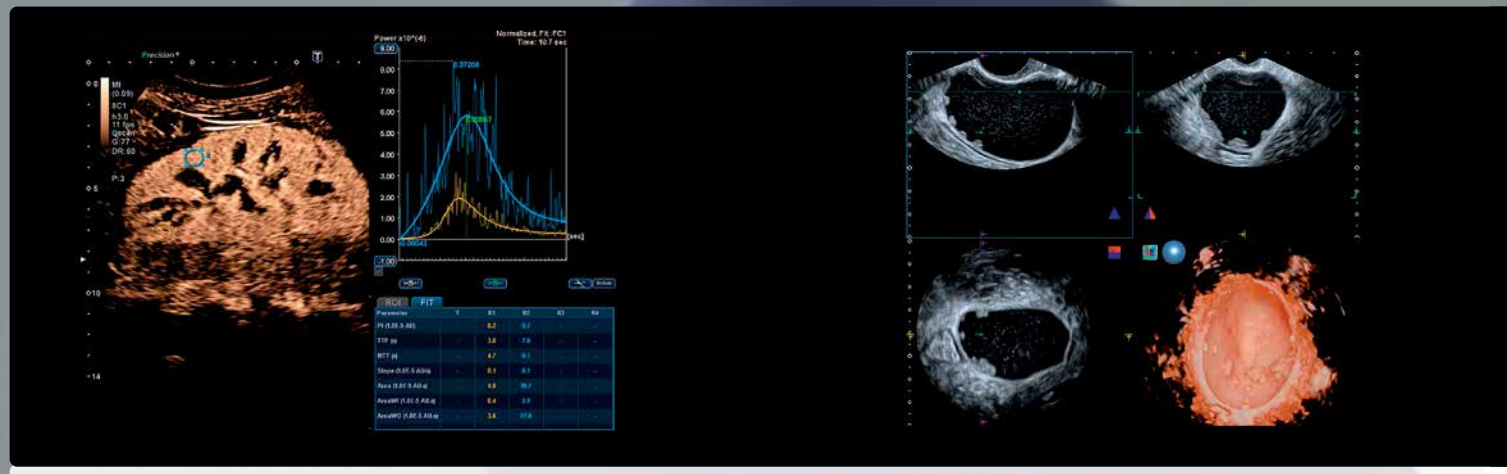
Radiology tools

Continual enhancement of Canon's advanced imaging, quantification and image-guided intervention toolbox for Radiology applications makes complex procedures faster, simpler and more precise. While enhancing their clinical scope, we're continuously working on enhancing the user experience by automating and simplifying their operation.



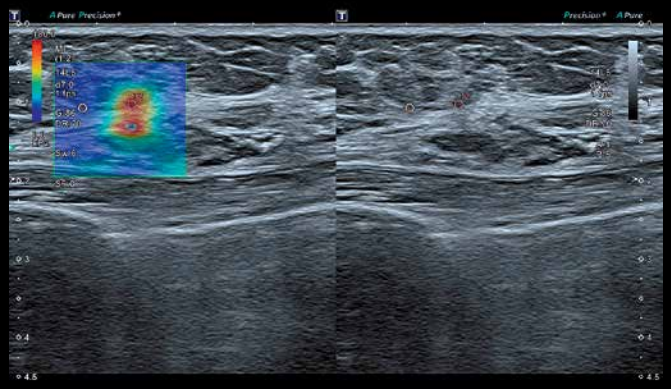
Increase your confidence, expand your capability

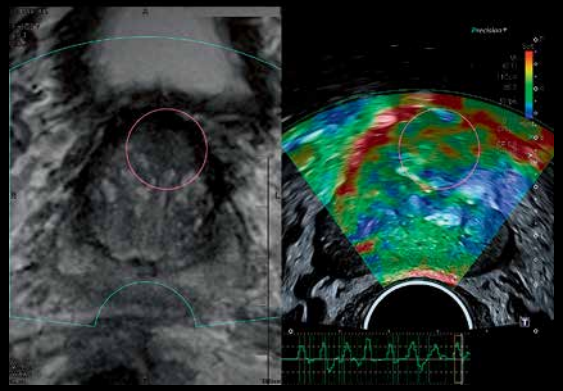
Early detection and reliable characterization of lesions help optimize your patients' clinical pathway. Canon's extensive suite of advanced imaging and quantification functions can help you obtain definite answers quickly and with confidence.

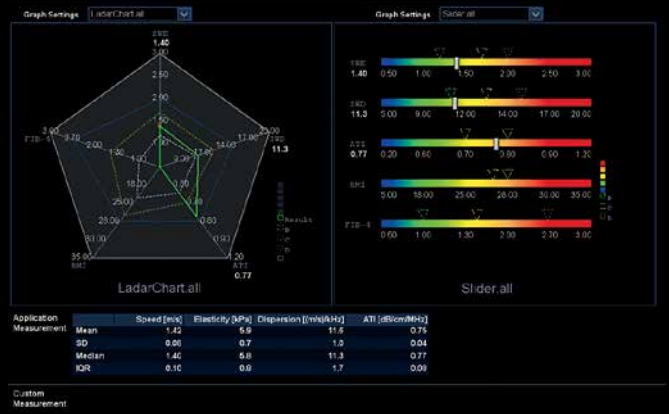


CEUS quantification
The comprehensive CEUS imaging and quantification package allows you to assess perfusion dynamics in a wide range of clinical settings, including an ample variety of specialized exams.

Volume imaging
Aplio provides a wealth of tools to improve visualization of complex anatomy in 2D and volumetric formats – also in combination with advanced imaging modes such as Shadow Glass, Superb Micro-vascular Imaging (SMI) or elastography.







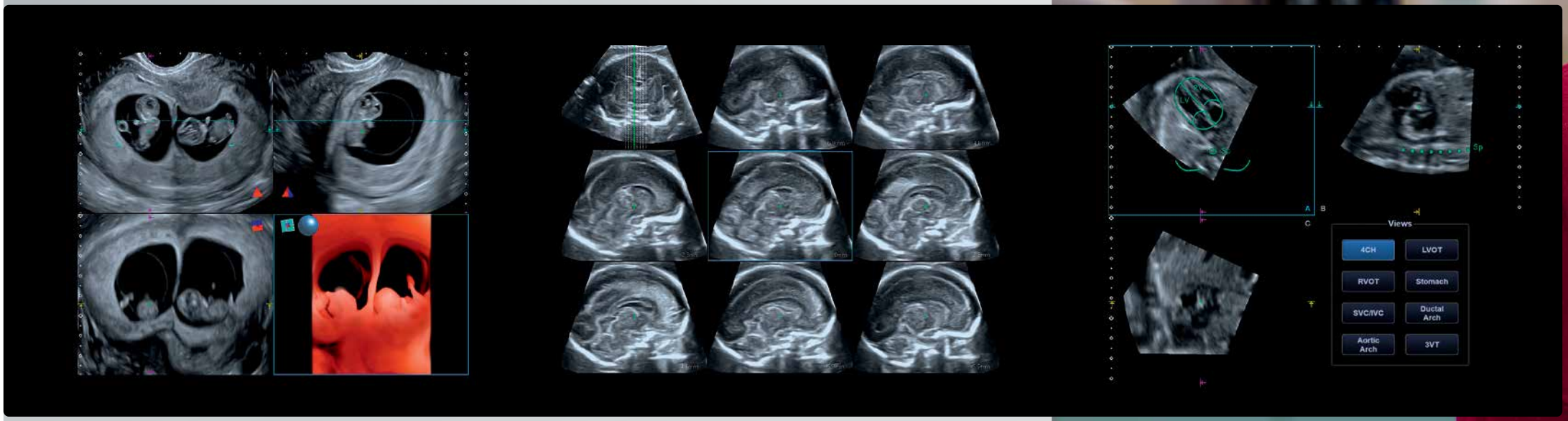
Shear Wave Elastography
Canon's shear wave technology provides a quantitative measure and realtime display of tissue elasticity in a variety of clinical settings ranging from abdominal to small parts examinations.

Quantitative tissue analysis
The system's comprehensive strain elastography suite with raw data functionality assists you in localizing and assessing palpable masses with high accuracy, sensitivity and reproducibility.

Multi-parametric reporting
The system's integrated multi-parametric reporting tool for liver imaging provides a comprehensive overview for easy comparison of all available metrics.

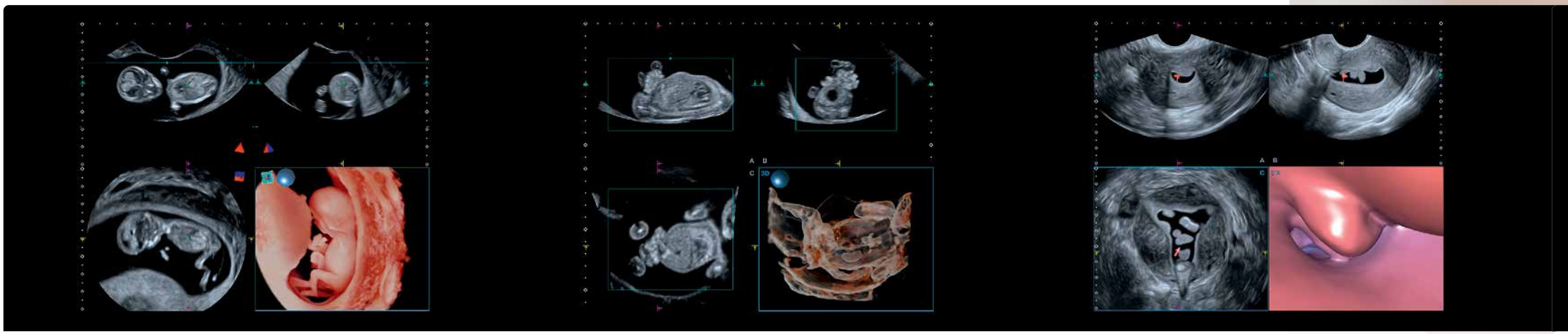
Women's Health applications

From busy private clinics to leading institutions and research centers – Canon offers optimal solutions to match your Women's Health imaging needs. Industry-leading image quality, outstanding ease of use and a wide range of expert tools help you ensure optimal clinical results.



Exceptional detail for a more precise diagnosis

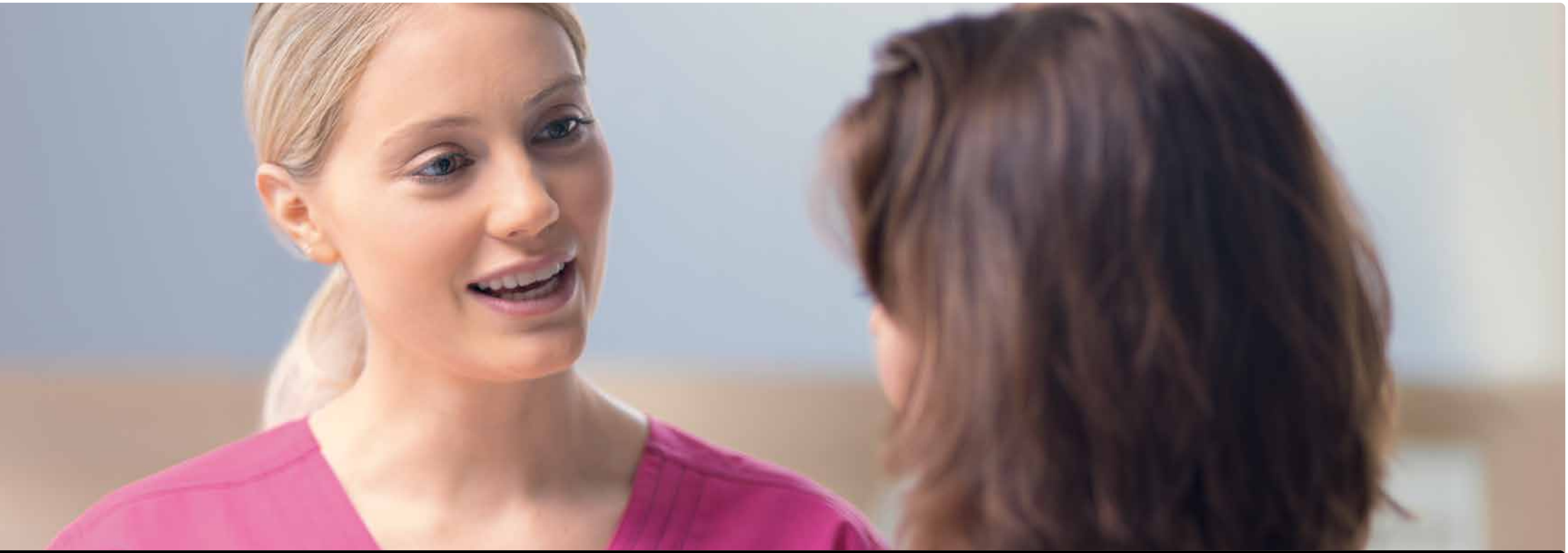
Both the busy clinician and the patient can benefit from volumetric ultrasound. Canon's comprehensive volume imaging suite extends your diagnostic capabilities into the next dimension of imaging with extraordinary image quality and uncompromising workflow.

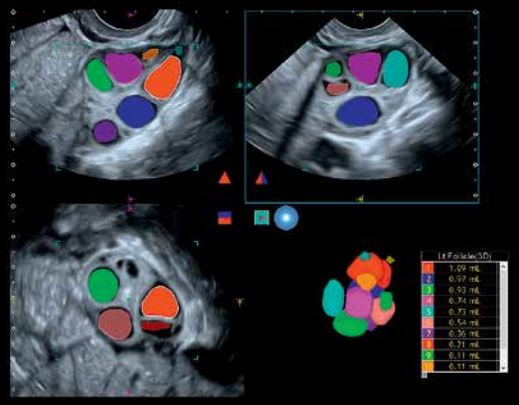


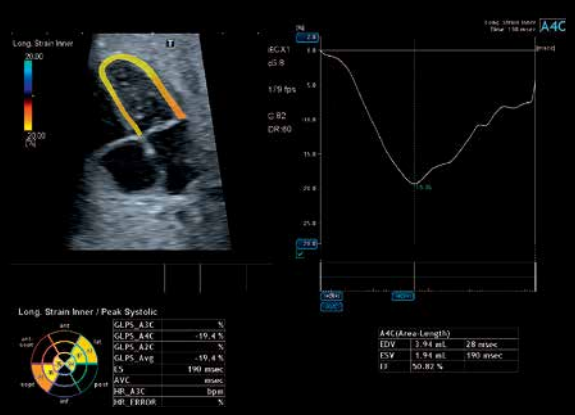
Luminance
Luminance offers natural-looking 3D renderings of high quality and definition, providing strong visual feedback on depth and detail from the first trimester onwards.

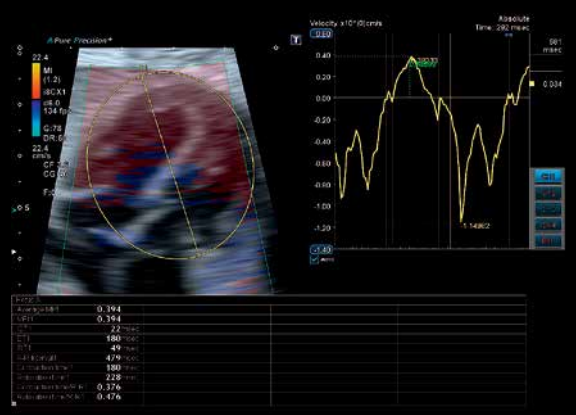
Shadow Glass
Combine both anatomical structure and vascular flow with Shadow Glass. Adding a semi-transparent glass effect to the skin surface, it helps you reveal more clinical detail.

Fly Thru
Soar through cavities, ducts and vessels with FlyThru. Similar to virtual endoscopy, the tool allows you to explore lesions and masses and to plan interventional procedures.









Auto Volume Measurement
Auto Volume Measurement is used for calculation of the volume by extracting the contours for regions with lower brightness in the 3D Volume image acquired in 4D mode. Enables volume measurement, e.g., antral follicle count.

Wall Motion Tracking
Wall Motion Tracking for fetal heart is an advanced tool to quantitatively assess ventricular function and myocardial viability. Parameters include strain, strain rate and standard ejection fraction values.

Myocardial Performance Index (MPI)
Aplio allows you to determine the Myocardial Performance Index (MPI) and other timings of a fetal heart based on standard Tissue Doppler, making it a practical tool for advanced imaging with high temporal resolution and low angle dependency.

CANON MEDICAL SYSTEMS CORPORATION
https://global.medical.canon

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Canon Medical Systems Corporation meets internationally recognized standards for Quality Management System ISO 9001, ISO 13485. Canon Medical Systems Corporation meets the Environmental Management System standard ISO 14001.

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Made For life