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УЗИ аппарат для гинекологии HERA W9



Meet the new premium women's ultrasound designed to elevate confidence and efficiency in women's healthcare. The new HERA W9 ultrasound system combines superior imaging technology with ergonomic design to advance workflow. Featuring the innovative Crystal Architecture™

and premier image processing technologies,HERA W9 produces realistic, high-resolution images for exceptional accuracy.

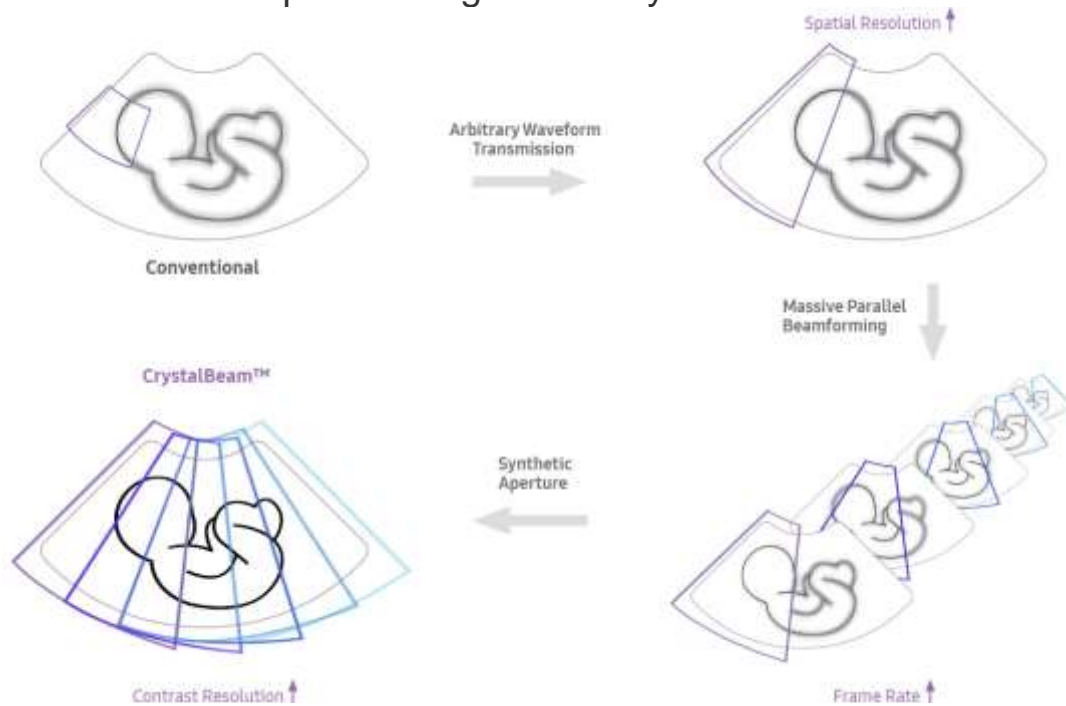
Redefined imaging technologies powered by Crystal Architecture TM

Crystal Architecture™ is an imaging architecture that combines CrystalBeam™ and CrystalLive™ while based upon S-Vue Transducer™, to provide crystal-clear images.

- - CrystalBeam™ is a new beamforming technology beneficial in delivering high-quality image resolution, and increased uniformity of images.
- - CrystalLive™ is Samsung's up-to-date ultrasound imaging engine with enhanced 2D image processing, 3D rendering and color signal processing, wherein provide enriched image performance and efficient workflow during complex cases.

A new beamforming for in-depth image creation

CrystalBeam™ utilizes Arbitrary Waveform Transmission, Massive Parallel Beamforming, and Synthetic Aperture technologies to produce a faster frame rate and improved image uniformity.



• **Conventional**

Arbitrary Waveform
Transmission

• Spatial Resolution ↑
Massive Parallel
Beamforming

• **CrystalBeam™**
Contrast Resolution ↑

• Synthetic
Aperture

Frame Rate ↑

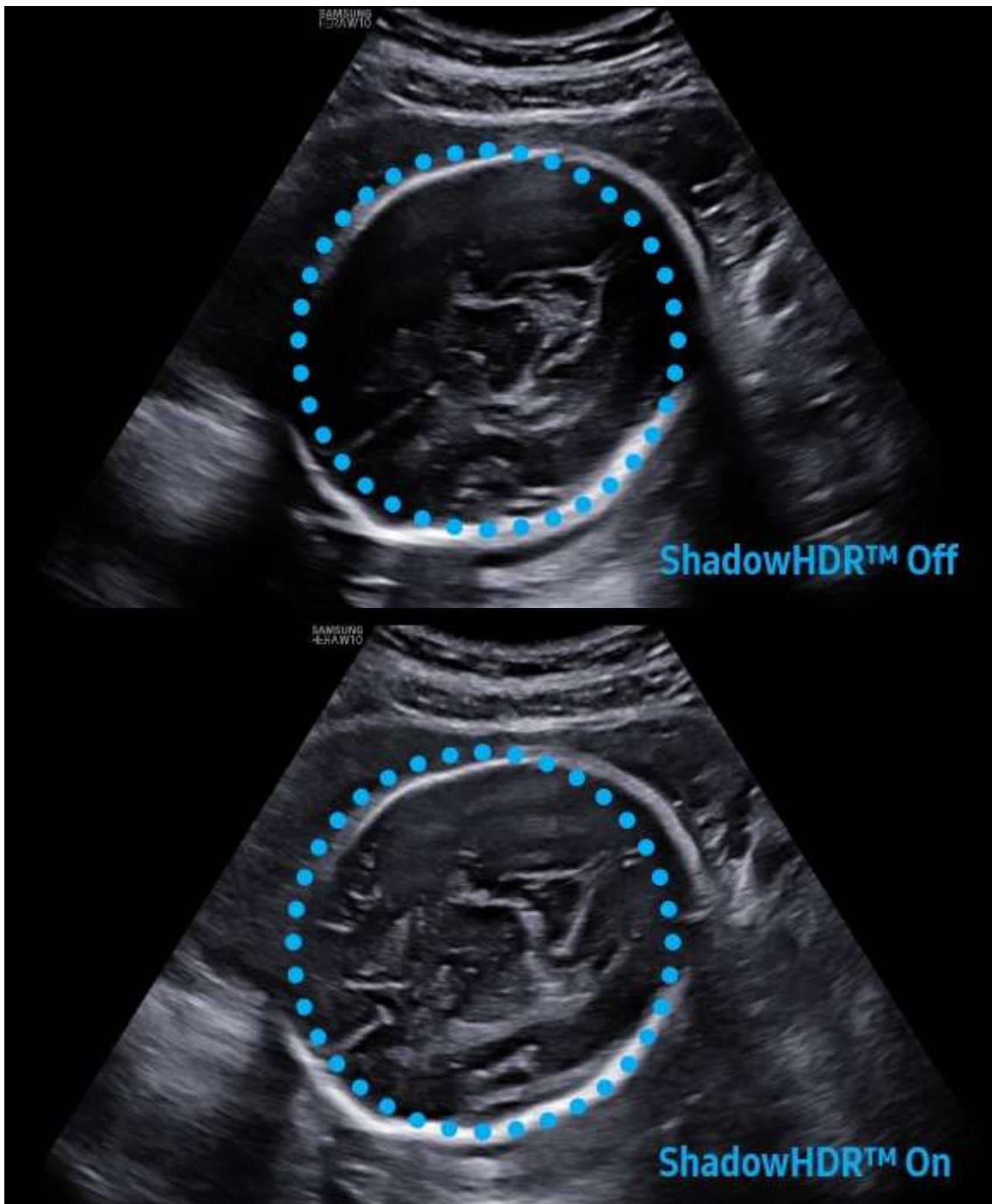
* Compared to the Samsung WS80A

Sophisticated 2D images

processed by CrystalLive™

CrystalLive™ helps you to make more confident diagnoses with fundamental 2D images. Some major advantages of 2D images include shadow-suppressed images, lessened halo artifacts, and mitigated blurred area.

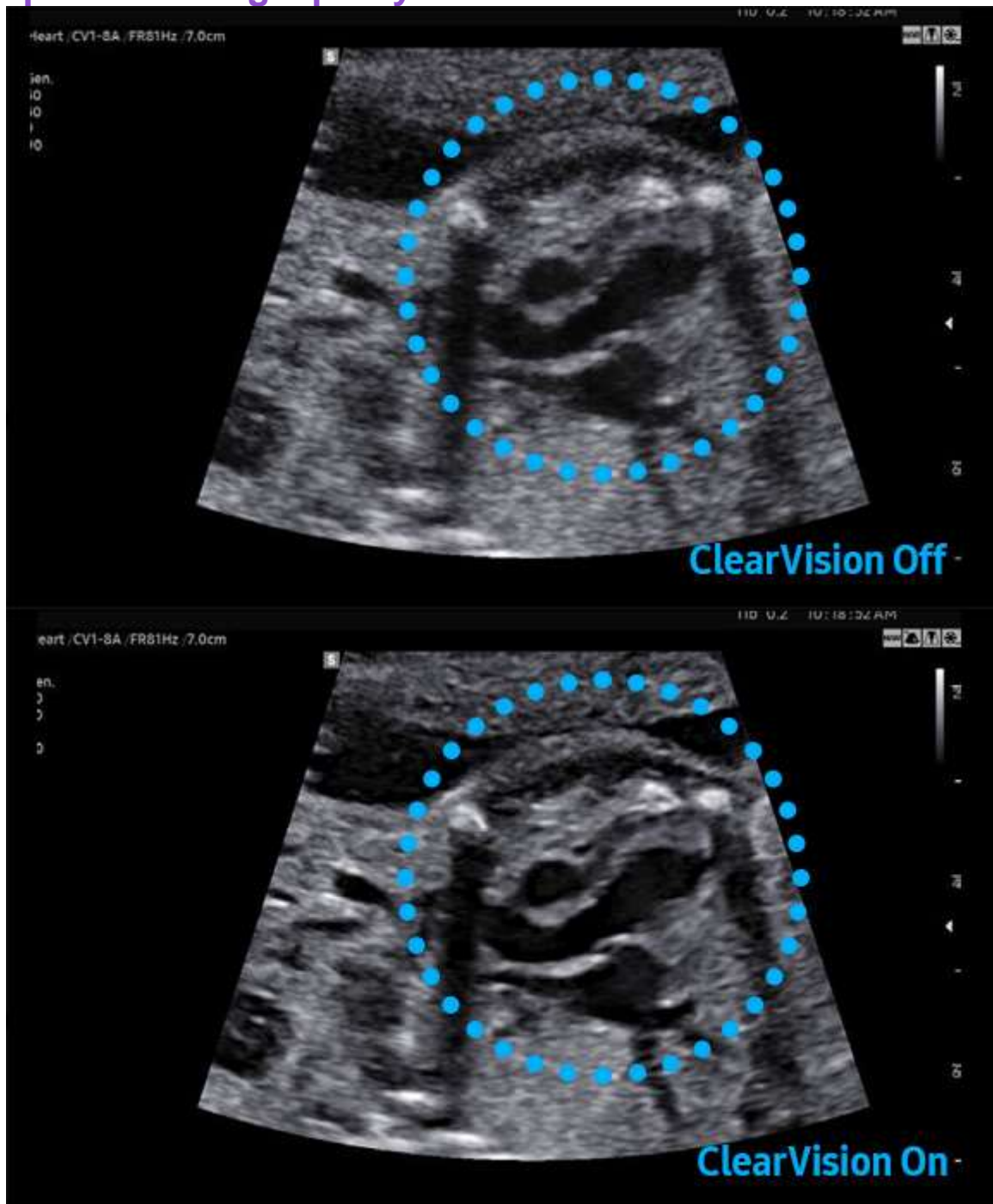
Visualize attenuated shadow area



Fetal brain

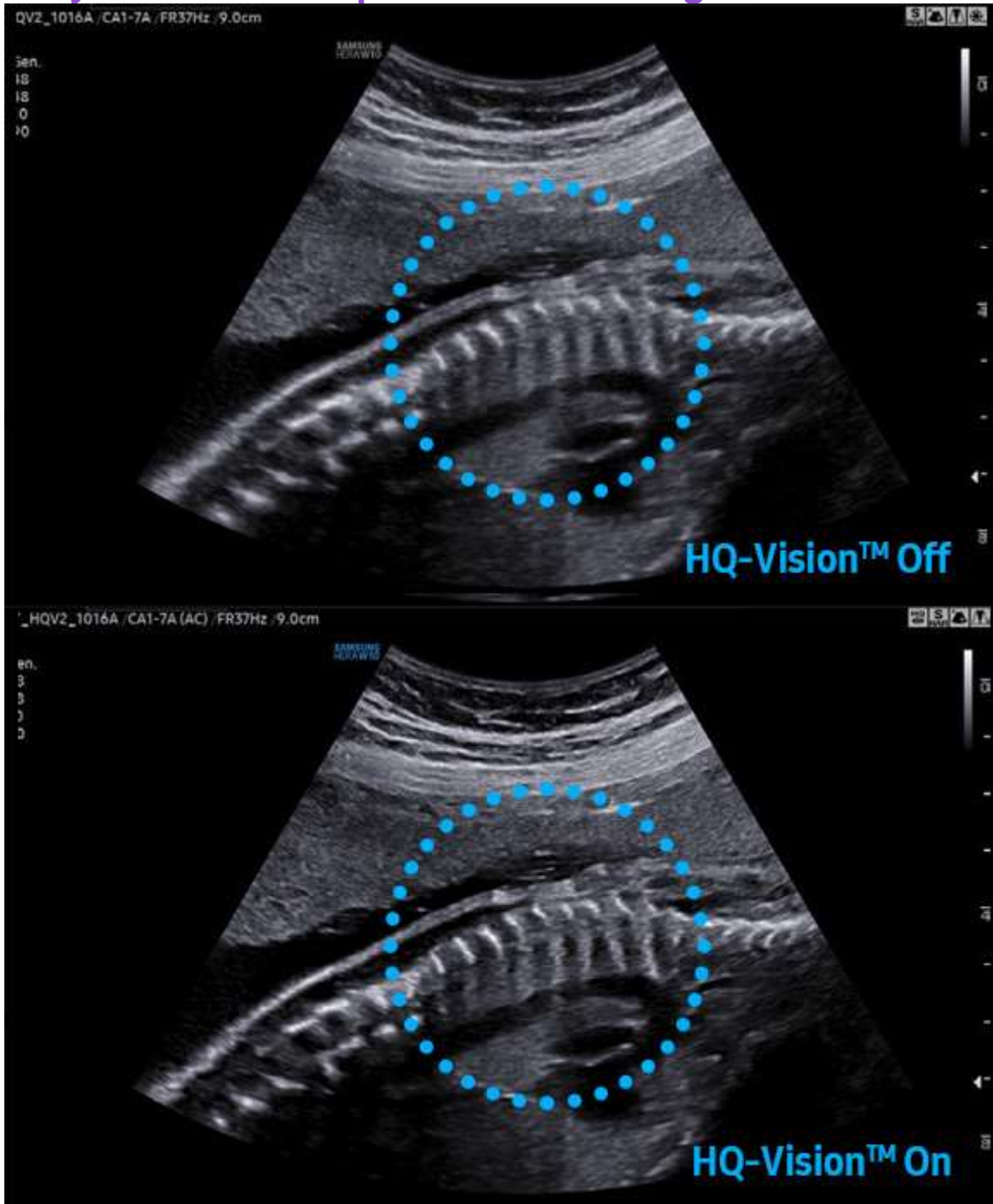
ShadowHDR™ selectively applies high-frequency and low-frequency of the ultrasound to identify shadow areas such as fetal head or spine where attenuation occurs.

Improve 2D image quality with noise reduction filter



ClearVision provides clearer tissue boundaries using the noise reduction filter and generates sharp 2D images. It reduces halo artifact that occurs when the tissue contour is enhanced, and removes noises on the tissue boundaries.

Clarify blurred area to provide clearer images

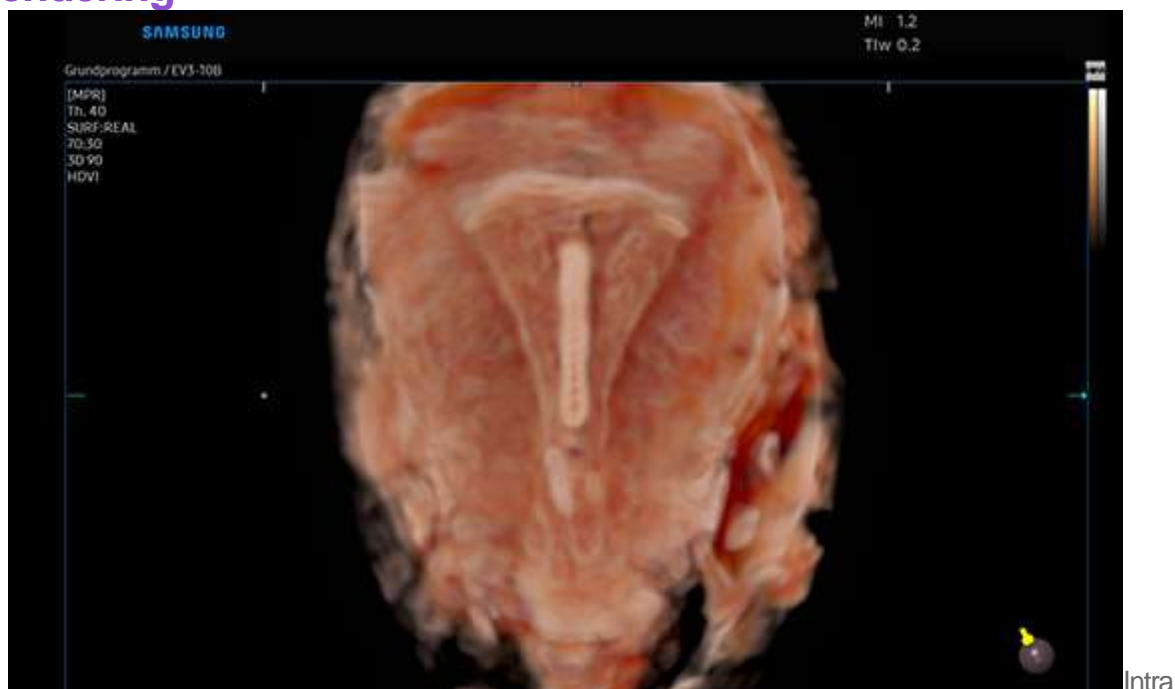


HQ-Vision™ provides clearer images by mitigating the characteristics of ultrasound images that are slightly blurred than the actual vision.

Realistic description of 3D/4D performance

CrystalLive™ in 3D/4D provides users with more realistic and high-resolution images. It outdoes conventional 3D imaging technologies in terms of viewing small parts and lighting effects.

Visualization of internal and external structures with volume rendering



Intra
Uterine Device with CrystalVue™

CrystalVue™ is an advanced volume rendering technology that enhances visualization of both internal and external structures in a single rendered image using a combination of intensity, gradient and position.

CLINICAL LEAFLET

Realistic expression of 3D anatomy



RealisticVue™ displays high resolution 3D anatomy with exceptional detail and realistic depth perception. User selectable light source direction creates intricately graduated shadows for better defined anatomical structures.

High Definition Volume Imaging

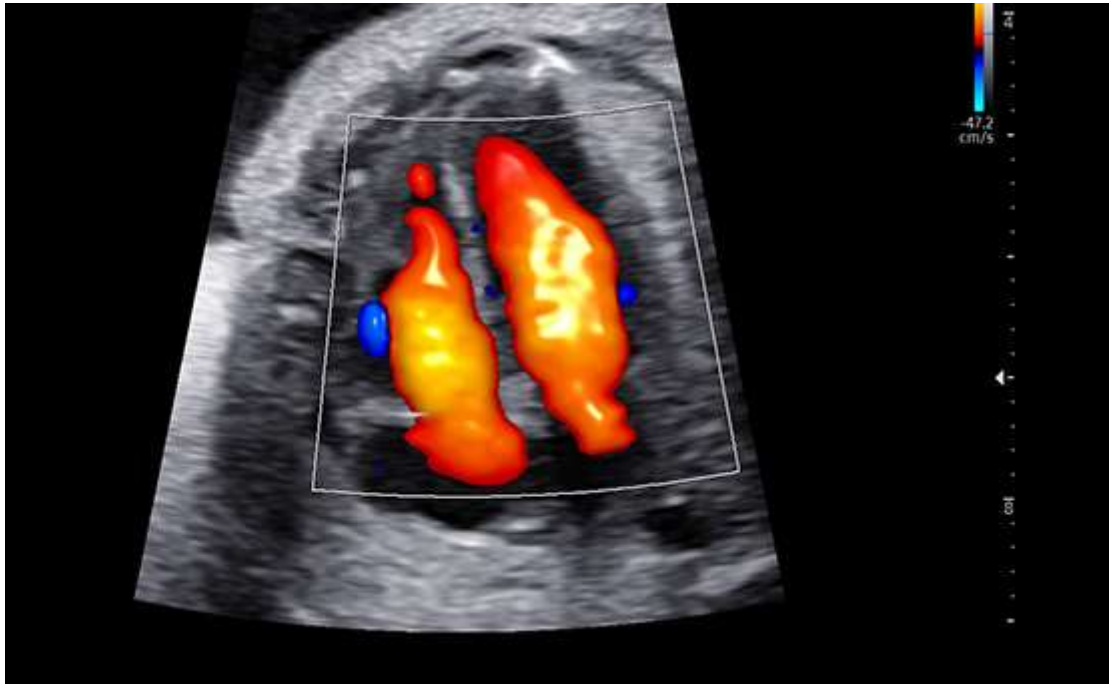


HDVI™ is a volume rendering technology that improves visualization of edges and small structures in volume data. Upgraded marginal expression and image saturation expresses the very details from angle to shadow of the fetus.

Detailed expression of blood flow dynamics

Color performance of CrystalLive™ has been improved to clearly visualize the hemodynamics of the blood flow. Greater sensitivity resulting from new color signal processing allows for a more accurate detection of peripheral blood vessels, microcirculatory blood flows, and volumes of slow blood flows.

Three dimensional-like visualization of blood flow

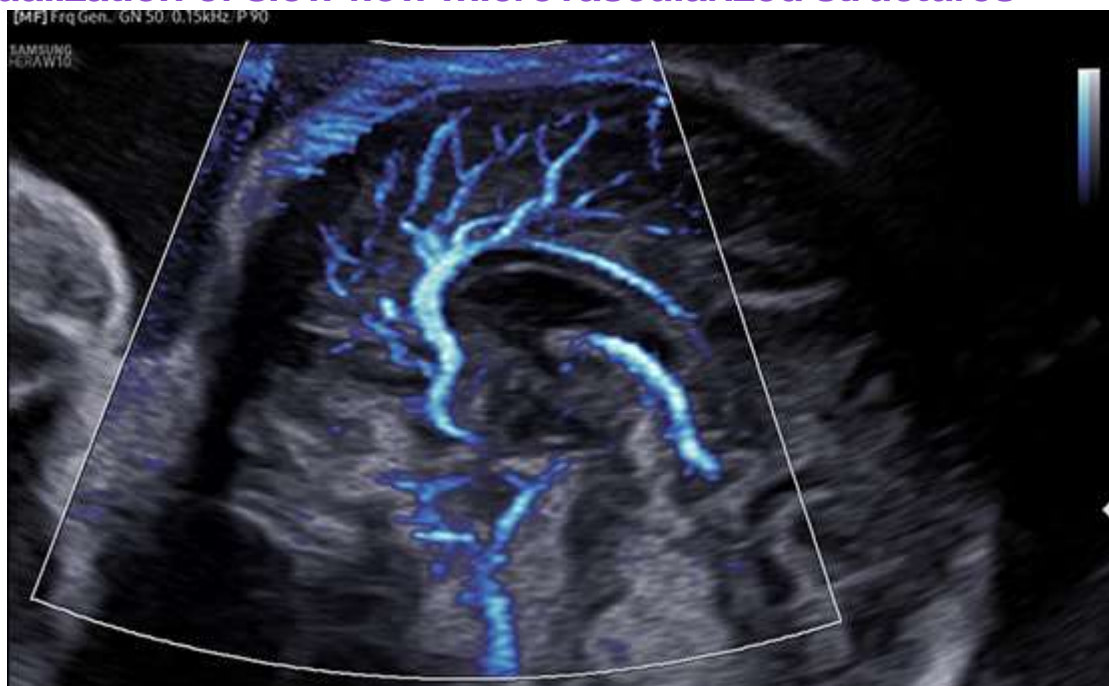


Color

Doppler with LumiFlow™ (4 Chamber view)

LumiFlow™ is a three-dimensional visualization of blood flow, which helps to understand the structure of blood flow and small vessels intuitively.

Visualization of slow flow microvascularized structures ¹



MV-Flow™ offers a novel alternative to power Doppler for visualizing slow flow of microvascularized structures. High frame rates and advanced filtering enable MV-Flow™ to provide a detailed view of blood flow in relation to surrounding tissue or pathology with enhanced spatial resolution.

Directional power Doppler to examine peripheral vessels



S-Flow™, a directional Power Doppler imaging technology, can help to detect even the peripheral blood vessels. It enables accurate diagnosis when blood flow examination is especially difficult.

Enriched diagnostic system, excellence in utilization

Images created by the Crystal Architecture™ technologies enhance various diagnostic features of Samsung ultrasound. HERA W9's diverse technologies to examine the growth of fetus and women's health in detailed reports will help you build more confidence and enhance the workflow in your diagnosis.



ViewAssist™ 1

A semi-automated classification of the images and annotation of the structures

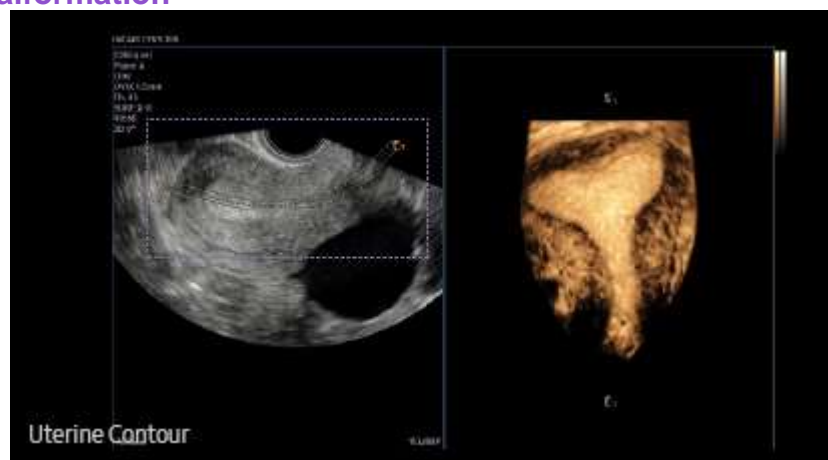


ViewAssist™ provides automatic classification of the ultrasound images and annotation of the structures to help healthcare professionals in convenient measurement.



Uterine Contour

Help identify uterine malformation



Uterine Contour automatically extracts the centerline and thickness of the curved endometrium and provides a coronal view in 3D, flattened by the centerline. In addition, uterine malformation classification are reported according to the ESHRE/ESGE* or ASRM* guideline selection.



BiometryAssist™

A semi-automated measurement of fetal biometry



A semi-automatic technology for biometric measurement, BiometryAssist™, enables users to measure the growth of the fetus quickly while maintaining exam consistency.

Slice A¹

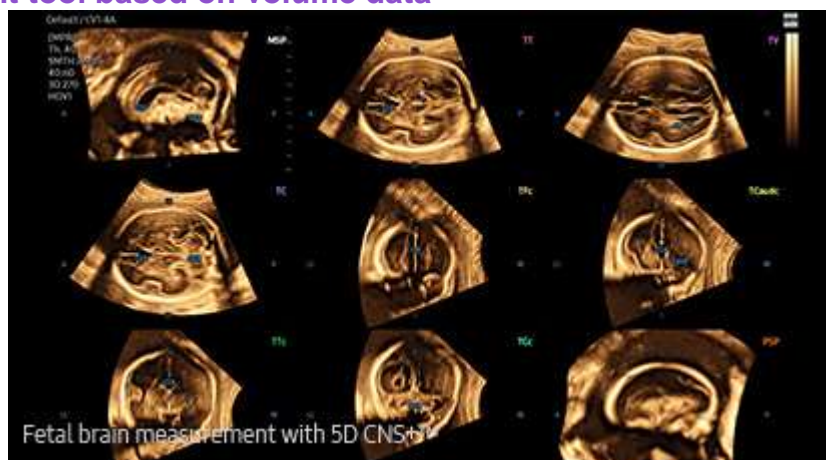
Increases the contrast resolution through thick slice volume



Slice A is a feature that improves the contrast resolution of A Plane images. By compositing multiple A Plane images, it helps in analyzing tissues or structures that are difficult to see with only 2D images.

5D CNS+™¹ (Central Nervous System)

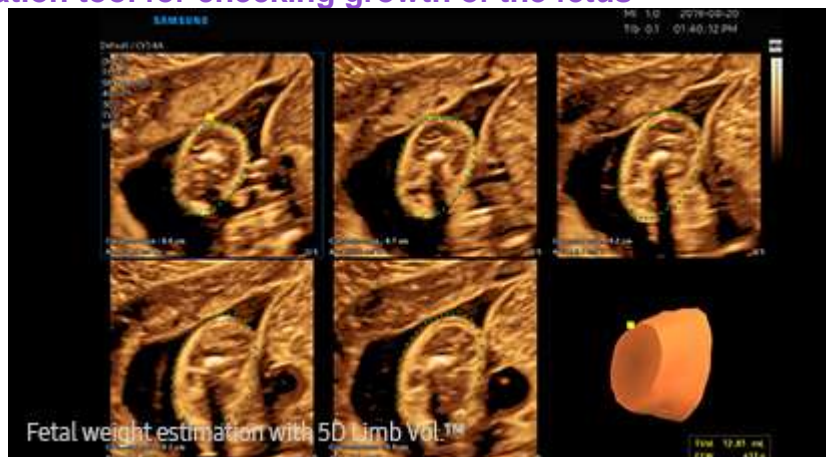
Fast brain measurement tool based on volume data



5D CNS+™ uses intelligent navigation to provide 6 measurements from 3 transverse views of the fetal brain to enhance measurement reproducibility and streamlined workflow.

5D Limb Vol.™¹

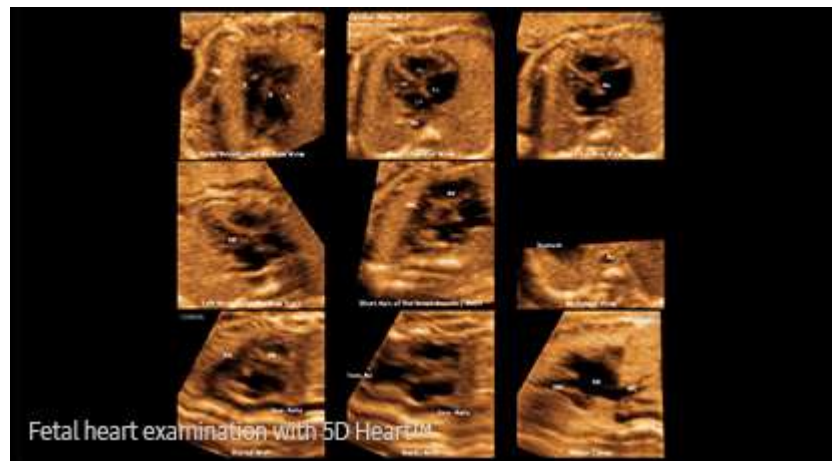
Fast fetal weight estimation tool for checking growth of the fetus



5D Limb Vol.™ is a semi-automated tool to quickly and accurately measure upper arm or thigh volumes from 3 simple seed points on a single volume data set.

5D Heart™

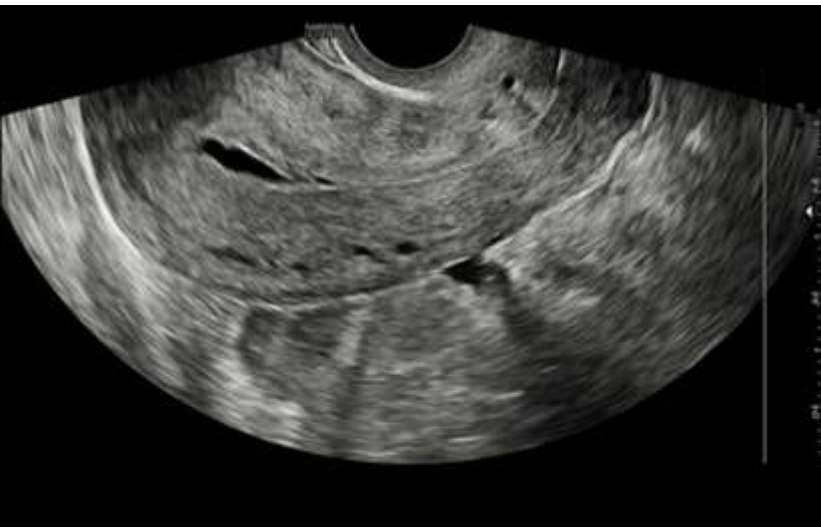
Fast fetal heart examination with 9 standard planes



The function provides 9 standard planes of the heart by using the fetal STIC data as well as important information about fetal heart development in an easy and accurate way in accordance with the AIUM guideline.

Clinical Images





FreeForm™

State-of-the-art Ergodynamics for Your Comfort and Productivity

FreeForm™ refers to Samsung's new design theme. It was developed to provide a more comfortable diagnostic experience by reducing the need for movement from one spot to another. Our goal is to satisfy user's working environment by considering a user's arm reach, as well as by offering a sufficient amount of space for the user's knee.





Endocavity Transducer Holder



Cable Management



Mood Light

Effective real-time collaboration, customizable for the way you work

We believe that a truly great system offers customer-centric working conditions. The collaborative solution enables users to cooperate, monitor, and educate in real-time regardless of where the users are located. The

streamlined workflow supports your daily procedures by reducing keystrokes and by combining multiple actions into one. Users have the option of customizing its diagnostic settings based on personalized protocol, resulting in a more simplified exam process and faster workflow.

SonoSync™* 1Real-time image sharing solution

SonoSync™ is available in PC and smartphone, etc. as a real-time image share solution that allows communication for care guide and training between doctors and sonographers.

In addition, voice chatting, text chatting and real-time marking functions are provided for better communication; and the MultiVue function is included that allows monitoring multiple ultrasound images on a single screen.

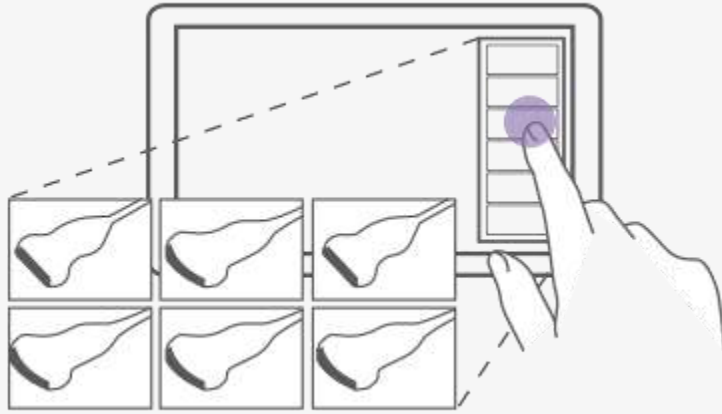
* SonoSync™ is an image sharing solution, not a diagnostic solution.



HelloMom™ 1Simple transfer of fetal ultrasound images and clips

HelloMom™ is a simple and secure image sharing solution by generating QR code for the selected fetal images. Pregnant women and family are capable of downloading images of fetus by scanning on the QR code using smartphone, reducing the hassle of installing a separate application.





QuickPreset for easy transducer preset

With one touch, the user can select the most common transducer and preset combinations. QuickPreset increases efficiency to make a full day of scanning simple and easy.



Touch Gesture for your preferences

Touch Gesture intuitively allows to rotate, zoom and move while viewing the 3D image from the touch screen. In addition, 3D manipulations such as Oblique, MagiCut, etc. are conveniently operated.



Contextual Button for your convenient access

Depending on the user's choice of ultrasonic inspection items, the required diagnostic functions may be assigned to the control panel buttons to reduce the hassle of menu selection



Transducers

Volume Transducers



CV1-8A

Abdomen, Obstetrics, Gynecology



EV3-10B

Obstetrics, Gynecology, Urology



EV2-10A

Obstetrics, Gynecology, Urology

Convex Array Transducers



CA1-7A

Abdomen, obstetrics, gynecology, pediatric, vascular, musculoskeletal



CA3-10A

Abdomen, obstetrics, gynecology, pediatric, vascular, musculoskeletal



CA2-9A

Abdomen, obstetrics, gynecology



CF4-9

Pediatric, vascular

Linear Array Transducers



LA2-14A

Small parts, vascular, musculoskeletal, abdomen, obstetrics



L3-12A

Small parts, vascular, musculoskeletal, abdomen



LA2-9A

Small parts, vascular, musculoskeletal, abdomen

Endocavity Transducers



EA2-11AR*

Obstetrics, gynecology, urology



EA2-11AV*

Obstetrics, gynecology, urology

Phased Array Transducers



PA1-5A

Cardiac, TCD, abdomen



PA4-12B

Cardiac, pediatric



PM1-6A

Cardiac, TCD, abdomen



PA3-8B

Cardiac, pediatric, abdomen

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