WS80A ELITE ULTRASOUND

SAMSUNG

PREMIUM AT ITS BEST

INTRODUCING WS80A ELITE PREMIUM ULTRASOUND FOR WOMEN'S HEALTHCARE

The WS80A Elite is a high resolution premium system designed to meet the needs of women's healthcare. WS80A Elite delivers exceptional image clarity by leveraging our S-Vision hybrid beamformer technology and S-Vue™ transducers. As pioneers in 3D/4D ultrasound, Samsung continues to advance volumetric imaging with Realistic Vue™ and 5D ultrasound.

Samsung Innovative Technologies

Hybrid Beamforming Technology

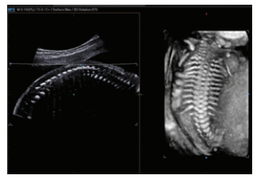
Samsung's innovative hybrid beamformer technology is comprised of both advanced hardware and software, allowing for intricate digital programming, which better defines the shape of the ultrasound pulse. This provides more precise transmission and reception of the ultrasound signal, resulting in exceptional image clarity.

S-Vue™ Transducer

In addition to the advanced beamforming capabilities, the WS80A Elite incorporates the next generation single crystal probe technology called S-Vue™ transducers. Employing a superior crystal design, S-Vue™ transducers provide more efficient piezoelectric properties, resulting in wider bandwidths for superior penetration and higher quality resolution on even the most challenging of patients.

ClearVision™

ClearVision™ is an advanced multi-filtering technology designed to decrease speckle, enhance border detection and display exceptional contrast resolution. ClearVision™ significantly enhances image clarity, providing more confident assessment of fetal anatomy.



Fetal spine with ClearVision™

S-Flow™

S-Flow™ is a highly sensitive Doppler technology utilizing both phase (directional) and amplitude data to ensure confident vascular documentation on even the smallest peripheral vessels.

Umbilical artery with S-Flow™

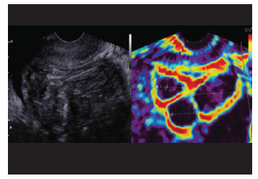
MPI

MPI provides a quick and efficient method of performing fetal Myocardial Performance Index Doppler measurements. MPI also improves workflow during fetal heart examinations with an easy one-click operation.

Fetal myocardial performance index measured with MPI

ElastoScan™

ElastoScan™ technology facilitates an effective method for assessment and documentation of tissue stiffness. ElastoScan™ may prove an effective adjunct to conventional grayscale imaging, often providing more defined visualization of tumor margins.

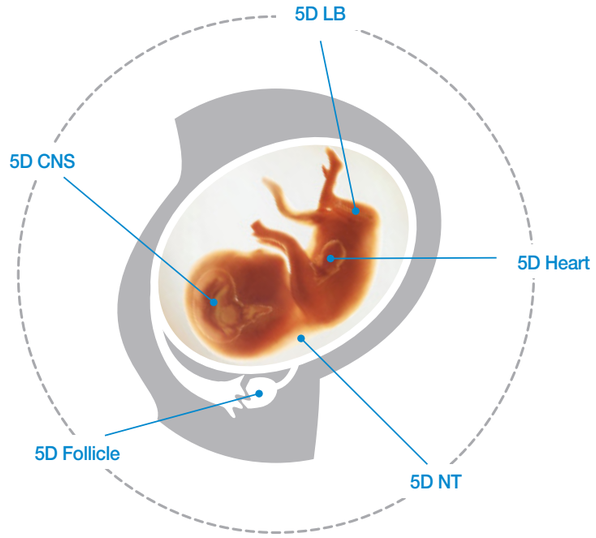


Elastography of uterine with ElastoScan™

WHAT IS 5D ULTRASOUND?

5D ultrasound is a suite of advanced applications designed to streamline workflow while enhancing reproducibility for a more consistent and confident clinical assessment.

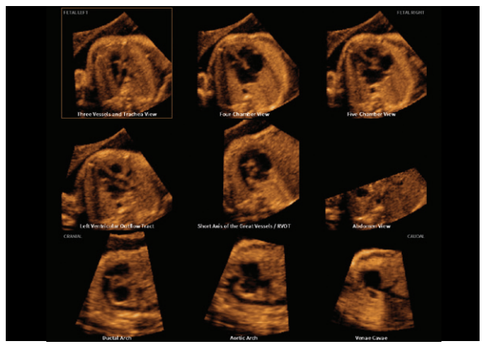
5D is the logical advancement in volumetric ultrasound, addressing the needs of today's women's healthcare professionals. 5D semi-automated assessment of anatomy reduces exam time by locating standard image planes and anatomical structures including fetal heart, brain, long bones and nuchal translucency.



5D Heart
(Fetal heart examination)

5D Heart is an innovative application designed to simultaneously display nine standard fetal cardiac views capturing one dynamic cardiac cycle.

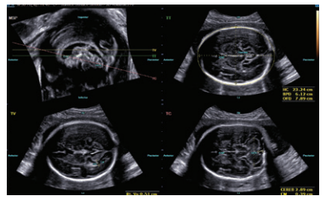
5D Heart utilizes intelligent navigation technology to quickly assess fetal cardiac anatomy and simplify documentation of the fetal heart examination, thus reducing operator dependency, saving time and enhancing reproducibility.



Fetal heart examination with 5D Heart

5D CNS
(Fetal brain measurement)

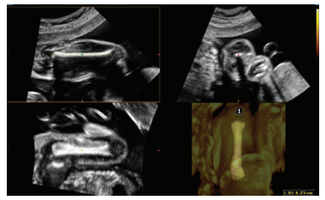
Using intelligent navigation, 5D CNS provides six measurements (BPD, HC, OFD, Cerebellum, Posterior Fossa, Atria of lateral ventricle) from three transverse views of the fetal brain to enhance measurement reproducibility and streamline workflow.



Fetal brain measurement with 5D CNS

5D LB
(Fetal long bone detection)

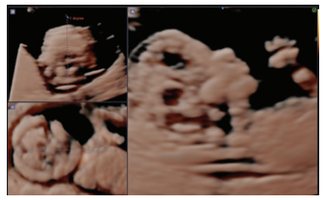
5D LB efficiently locates, displays and measures fetal long bones (Radius, Ulna, Humerus, Femur, Tibia and Fibula) from within the 3D dataset, streamlining workflow while enhancing measurement reproducibility.



Fetal long bone measurement with 5D LB

5D NT
(Nuchal translucency measurement)

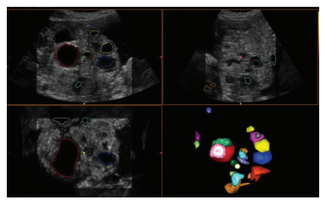
5D NT intelligent navigation simplifies the NT measurement process by locating the precise mid-sagittal plane in a single step. Semi-automatic measurements are then performed to improve NT accuracy and reduce examination time.



NT measurement with 5D NT

5D Follicle
(Follicle measurement)

5D Follicle identifies and measures multiple ovarian follicles for rapid assessment of follicular size and status during gynecology examinations.

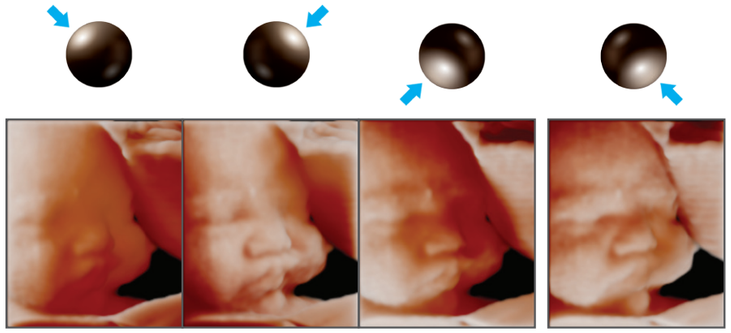


Follicle measurement with 5D follicle

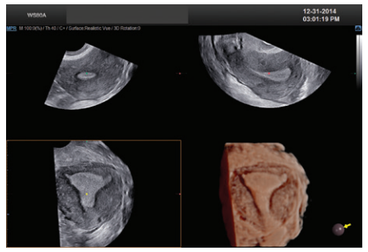
Realistic Vue™

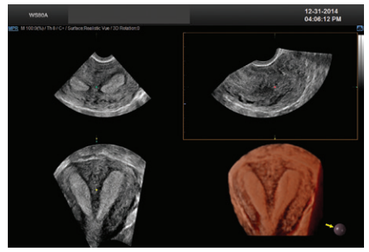
Realistic Vue™ displays high resolution 3D anatomy with exceptional detail and realistic depth perception. User determines the direction of a simulated light source, significantly enhancing clarity of surface detail and tissue parenchyma, as well as introducing intricate graduated shadows.

2nd trimester fetal face with Realistic Vue™



User determines the direction of a simulated light source when using Realistic Vue™

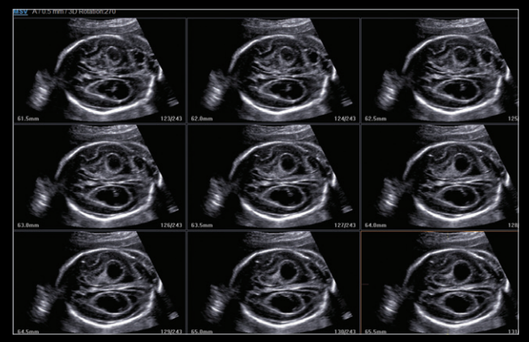




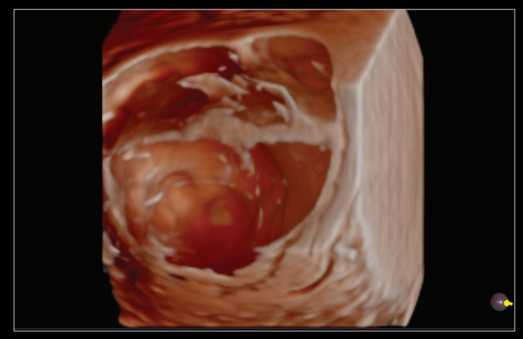
Realistic Vue™ provides effective documentation of uterine anatomy

Realistic Vue™ may also prove effective providing detailed 3D images for supportive documentation of pelvic anatomy. The ability to direct the simulated light source in combination with unique C-Plane images provides added value not attainable using conventional 2D imaging.

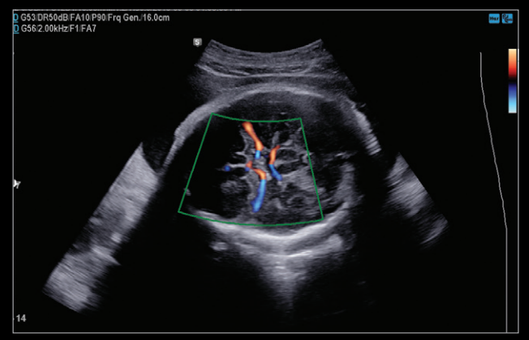
IMAGE GALLERY



Hydrocephalus with Multi-Slice View™

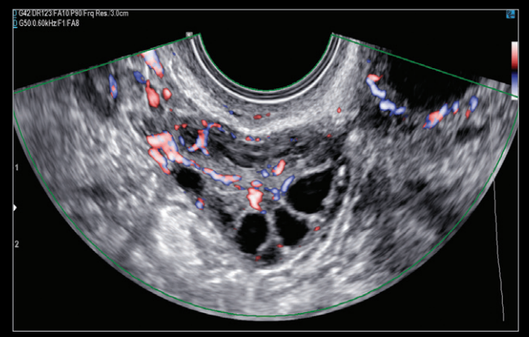


Ovarian complex cyst with Realistic Vue™

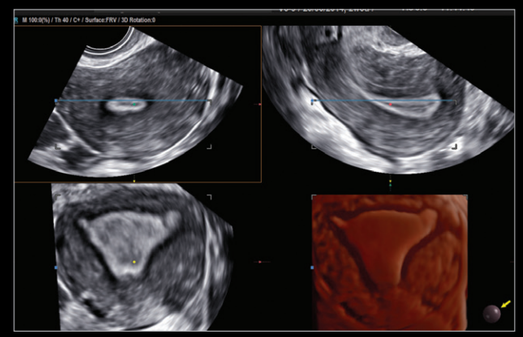


Middle cerebral artery with S-Flow™

Fetal face with Realistic Vue™



Ovarian cysts with S-Flow™



Uterus with Realistic Vue™

Gel Warmer

Two-level adjustable gel warmer maintains ultrasound gel at a comfortable temperature from 80°F to 102°F.

Endocavity Transducer Holder

The WS80A features two endocavity transducer holders. One is side-mounted on the console for convenience when performing gynecological scanning and a second endocavity transducer holder is positioned conveniently behind the console for discrete storage when not in use.

23-inch LED Monitor

The WS80A Elite features a 23" full HD LED display, delivering excellent contrast resolution, image clarity and vibrant color in any lighting condition.

10.1-inch Touchscreen

The Samsung 10.1-inch touch screen is highly sensitive, allowing for an efficient interaction during the examination.

Height-Adjustable Control Panel

The height-adjustable control panel features a simplified console design, providing intuitive interaction for a variety of ultrasound examinations.

COMPREHENSIVE COLLECTION OF TRANSDUCERS

Curved Array Transducers

CA1-7A

- Application: Abdomen, Obstetrics, Gynecology

CF4-9

- Application: Pediatric, Vascular

C2-6

- Application: Abdomen, Obstetrics, Gynecology

SC1-6

- Application: Abdomen, Obstetrics, Gynecology

Linear Array Transducers

LA3-16A

- Application: Small Parts, Vascular, Musculoskeletal

L5-13

- Application: Small Parts, Vascular, Musculoskeletal

L3-12A

- Application: Small Parts, Vascular, Musculoskeletal

Volume Transducers

CV1-8A

- Application: Abdomen, Obstetrics, Gynecology

LV3-14A

- Application: Musculoskeletal, Small Parts, Vascular

V4-8

- Application: Abdomen, Obstetrics, Gynecology

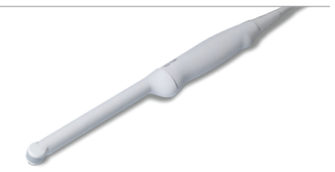
V5-9

- Application: Obstetrics, Gynecology, Urology

Endo-Cavity Transducers

VR5-9

- Application: Obstetrics, Gynecology, Urology



E3-12A

- Application: Obstetrics, Gynecology, Urology

Phased Array Transducer

PE2-4

- Application: Abdomen, Cardiac, TCD

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