Samsung Medison, an affiliate of Samsung Electronics, is a global medical company founded in 1985. With a mission to bring health and well-being to people's lives, the company manufactures diagnostic ultrasound systems around the world across various medical fields. Samsung Medison has commercialized the Live 3D technology in 2001 and since being part of Samsung Electronics in 2011, it is integrating IT, image processing, semiconductor and communication technologies into ultrasound devices for efficient and confident diagnosis.

CT-WS80A with Elite V4.0-OB-FT-170324-EN

* Elite is a package for WS80A v4.00 and does not refer to any particular function.
* S-Vue is not the name of a function, but is the name of Samsung's advanced transducer technology.
* Crystal Clear Cycle is not the name of a function, but is Samsung's marketing terminology.
* In Canada and USA, strain value for ElastoScan is not applied.
* Availability of some products, features, options and transducers mentioned in this catalog may vary from country to country and is subject to varying regulatory requirements.
* This product, features, options and transducers are not commercially available in all countries. Due to regulatory reasons their future availability cannot be guaranteed. Please contact your local sales network for further details.

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Vision of a new dimension

Ultrasound system
WS80A with Elite V4.0

Image courtesy of Prof. Rizzo

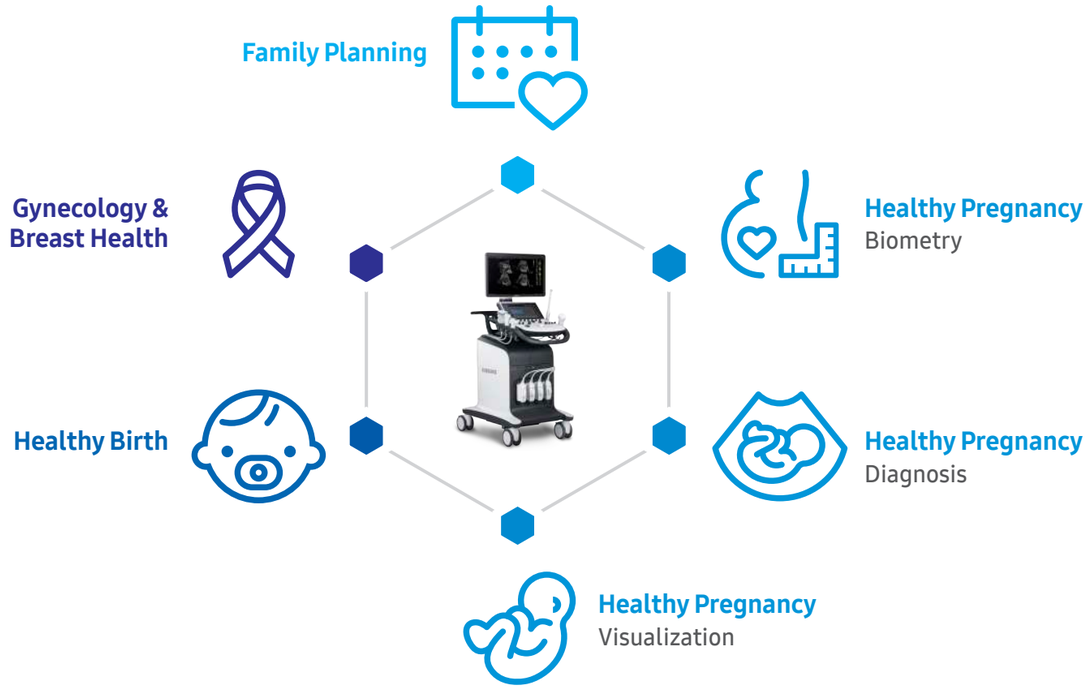
Scan code or visit
www.samsunghealthcare.com
to learn more

SAMSUNG

Focusing on diagnostic solutions for women's health

Crystal Clear Cycle™, an integrated solution for women's health issues, represents Samsung's commitment to ensuring life-long healthcare for women. The Crystal Clear Cycle™ categorizes the most significant health events for women into six stages and provides effective diagnostic solutions at each stage.

The WS80A with Elite is the premium system that covers all six stages with effective diagnostic solutions. Built with high-quality imaging and innovative features, it supports healthcare professionals in making faster and more accurate decisions for women's health issues.



CRYSTAL CLEAR CYCLE™

CRYSTAL CLEAR CYCLE™

Samsung's Commitment to life-long Healthcare for Women

Scan code or visit
www.samsungmedicalsolution.com/crystalclearcycle/en/index.html
to learn more

Family Planning

Simple screening for risk of infertility

Check and manage the risk of infertility by using 5D Follicle™ and CEUS+ in 3D/4D.

5D Follicle™
(Follicle measurement)

※ Optional Extra

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

CEUS+ in 3D/4D *

※ Optional Extra

CEUS+ can be used in 3D/4D for effective examination for patency of the fallopian tube and morphology of uterus and endometrium.

* 'CEUS+ in 3D/4D' is not the name of function. 'CEUS+' is the name of function.
'CEUS+' is not commercially available in all countries.

Healthy Pregnancy Biometry

Intuitive fetal biometry measurements

Monitor fetal health more efficiently and effectively. The semi-automated functions, 5D Limb Vol.™, 5D CNS+™, and Biometry Assist™ enable the measurement of the growth of the fetus much faster and more accurately.

5D Limb Vol.™
(Fetal weight estimation)

※ Optional Extra

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. These measurements can then be used to calculate an accurate estimation of fetal weight as well as provide additional information regarding fetal nutritional status.

5D CNS+™
(Fetal brain measurement)

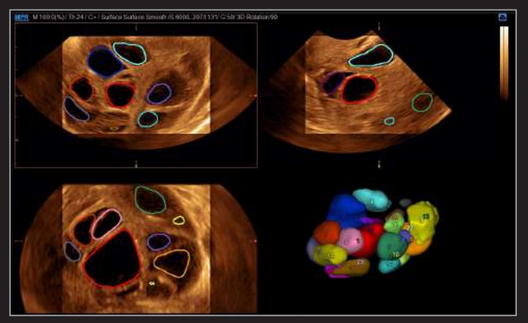
※ Optional Extra

5D CNS+™ uses intelligent navigation to provide 6 measurements from 3 transverse views of the fetal brain to enhance measurement reproducibility and streamline workflow. It includes axial, sagittal and coronal views with 9 planes following the international guidelines for assessing the fetal brain as set forth by the ISUOG.

Biometry Assist™
(Fetal biometry estimation)

※ Optional Extra

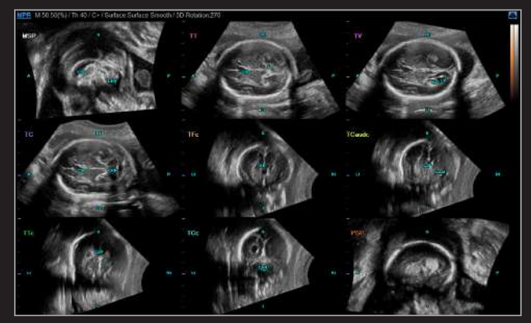
Users no longer need to put effort and time into routine fetal biometry such as HC, BPD, AC, and FL. A semi-automatic technology for biometric measurement, Biometry Assist™, enables users to measure the growth of the fetus more quickly and with greater accuracy while maintaining exam consistency.



5D Follicle™ *

CEUS+ in 3D/4D

5D Limb Vol.™ *



5D CNS+™ *

* These clinical images were acquired using the WS80A V3.00 ultrasound system.

Samsung Ultrasound System WS80A with Elite

Healthy
Pregnancy
Diagnosis

Enhanced diagnostic confidence

With its advanced diagnostic tools, the WS80A with Elite supports your knowledge and experience to help you to make clear, confident decisions.

5D NT™ (Nuchal translucency measurement)

※ Optional Extra

With Samsung's 5D NT™ , operator dependency can be reduced for the first trimester fetal nuchal translucency (NT) measurement. 5D NT™ allows the user to obtain the true mid-sagittal plane automatically by rotating and auto-zooming the image. This advanced technology is especially useful when facing difficult cases involving fetal position.

5D Heart Color™ (Fetal heart examination)

※ Optional Extra

5D Heart Color™ allows evaluation of fetal cardiac structures for potential blood flow disturbances, an important component of fetal cardiac examination. Using STIC volume datasets, color Doppler sonography is demonstrated in 9 standard fetal echocardiography views in a single display.

Healthy
Pregnancy
Visualization

Innovative fetal assessment

Discover Samsung's new, detailed volume imaging technology. The WS80A with Elite provides realistic 3D/4D images that enable you to see greater anatomical detail. It also includes Crystal Vue Flow™, which combines morphological information and hemodynamic flow to bring greater understanding of the fetus.

Image courtesy of Imperial College London, UK

Realistic Vue™

※ Optional Extra

Realistic Vue™ 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.

Crystal Vue™

※ Optional Extra

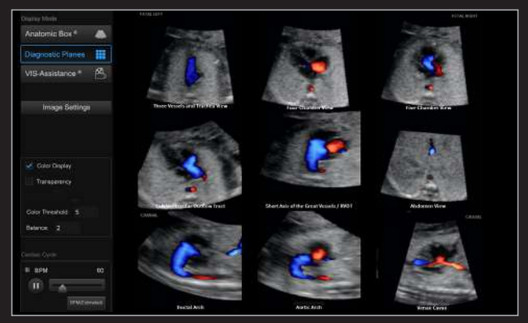
Crystal Vue™ is an advanced volume rendering technology that enhances visualization of both internal and external structures in a single rendered image using a combination of intensity, gradient and position. The resulting image has the potential to enhance visualization and increase diagnostic confidence.

Crystal Vue Flow™

※ Optional Extra

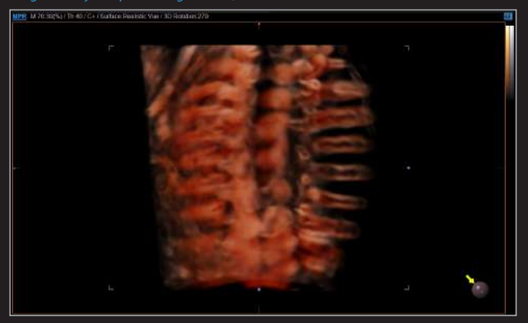
Crystal Vue Flow™ is an advanced volume rendering technology that provides increased depth perception of vascular structures and displays vessels in a range of different imaging planes. Based on Crystal Vue™ technology, Samsung's volume rendering technology for visualizing interior and exterior structures, Crystal Vue Flow™ adds improved spatial precision of hemodynamic flow to morphological information and provides a deeper understanding of relational anatomy and neighboring vessels.

5D NT™ *



5D Heart Color™ *

Image courtesy of Imperial College London, UK



Crystal Vue™

Image courtesy of Imperial College London, UK

Crystal Vue™

* These clinical images were acquired using the WS80A V3.00 ultrasound system.

Healthy Birth

Highly detailed information

E-Cervix™ provides highly detailed information which can be helpful for healthy deliveries. And the wide range of Neonatal/Pediatric transducers enables excellent detailed resolution and more efficient scanning of newborn babies and children.

E-Cervix™ (ElastoScan™ for Cervix)

※ Optional Extra

E-Cervix™ is a tool for measuring the stiffness of the cervix area. It uses an elastographic image to provide additional diagnostic information which can be helpful for predicting preterm birth and successful labor induction. This tool can increase reproducibility and reduce inter-observer variance using the sum of several elastographic images acquired over a few seconds. With various and reliable parameters, the E-Cervix™ helps you make more informed management decisions.

Neonatal/Pediatric transducers

※ Optional Extra

Highly advanced transducers allow for excellent detailed resolution and more efficient scanning.

Samsung Ultrasound System WS80A with Elite

Gynecology & Breast Health

Intelligent solutions for women's health

Even in complex cases, Samsung's intelligent solutions, such as S-Detect™ and IOTA-ADNEX™, help you to make management decisions clearer and easier.

S-Detect™ (S-Detect™ for breast)

※ Optional Extra

By simply clicking a suspicious lesion, S-Detect™ draws the lesion borders, suggests the characteristics of the lesion and generates lesion dimensions. S-Detect™ uses the Breast Imaging-Reporting and Data System (BI-RADS®) scores for standardized reporting and classification of lesions.

IOTA-ADNEX™ (Ovarian tumor classification)

※ Optional Extra

Samsung has adopted the ADNEX* model for classifying ovarian tumors as proposed by the IOTA** group and named it IOTA-ADNEX™. Now all ultrasound procedures, from initial scan to the final report, can be carried out using the same system. It even fills in 2 ultrasound predictors*** automatically, as soon as they are measured, and provides a report that classifies the results according to the ADNEX model 5-level classification for ovarian tumors to help users make the appropriate decisions for managing the patient's condition.

* Assessment of different neoplasias in the adnexa

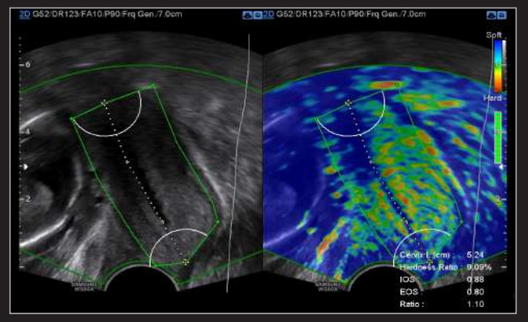
** International Ovarian Tumor Analysis

*** 2 ultrasound predictors:
1) Maximal Diameter of the Lesion (mm),
2) Maximal Diameter of the Largest Solid Part (mm)

ADNEX risk model in PC

ADNEX risk model in the Samsung ultrasound system

Intuitive result report in the Samsung ultrasound system



E-Cervix™

* These clinical images were acquired using the WS80A V3.00 ultrasound system.

S-Detect™ *

Crystal clear image quality from advanced imaging technologies

The crystal clear image quality of WS80A with Elite is built upon the successes of Samsung technologies. Samsung's advanced imaging technologies deliver diagnostic confidence when diagnosing challenging patients.

ClearVision

The noise reduction filter improves edge enhancement and creates sharper 2D images for optimal diagnostic performance. The integration of specialized Samsung technology results in a notable improvement in image quality. In addition, ClearVision provides application-specific optimization and advanced temporal resolution in live scan mode.

S-Harmonic™

This new harmonic technology improves image clarity, near to far. Reducing signal noise, S-Harmonic™ provides more uniform ultrasound images. Combined with the S-Vue™ transducers, S-Harmonic™ takes WS80A with Elite image quality one step further.

S-Vue™ transducers

※ Optional Extra

WS80A with Elite incorporates single crystal technology. Employing an innovative crystal design, S-Vue™ transducers provide more efficient piezoelectric properties, resulting in wider bandwidths that enable better penetration and higher quality resolution on even challenging patients.

*Compared with the conventional Samsung transducers

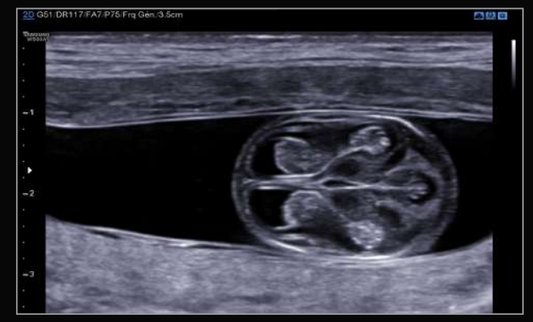
Wide angle endocavity transducer

※ Optional Extra

The new wide angle endocavity transducer (E3-12A) offers a field-of-view up to 210˚ allowing greater visualization of pelvic anatomy. It is often possible to visualize the entire cervix and uterus in normal anatomy as well as viewing left–right symmetry in the transverse plane.

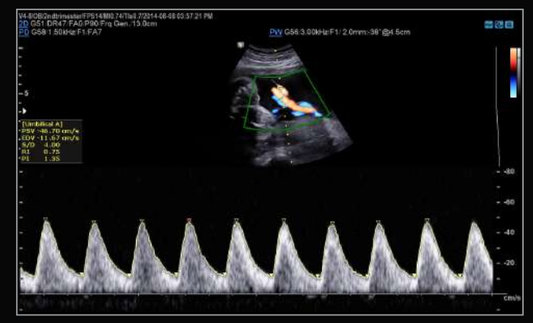
Image gallery

Fetal Heart in 4 chamber view *



Fetal brain in ClearVision™ *

Fetal abdomen in ClearVision™ *



Umbilical artery in PW *

Uterus in wide angle view *

Umbilical cord in S-Flow™ *

* These clinical images were acquired using the WS80A V3.00 ultrasound system.

Designed for your convenience

With design aspects that enable clinicians to focus on imaging through features such as the large LED monitor and digital TGC, WS80A with Elite reduces stress when operating the system. It provides a comfortable environment as well as a streamlined user interface.

1 23-inch LED monitor

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

2 10.1-inch touchscreen

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

3 Default gel warmer

Two-level adjustable gel warmer maintains ultrasound gel at a comfortable temperature.

4 Transducer cable hangers

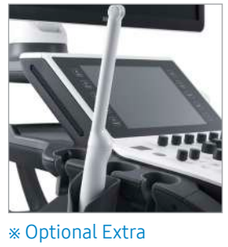
Users can arrange the transducer cables neatly on the 2 hangers on either side of the system.

5 Adjustable control panel

Smooth up and down lift allows you to adjust the system to your preferred height without straining.

6 EC transducer holders

The WS80A with Elite features endocavity transducer holders for convenience when performing gynecological scanning and discrete storage when not in use.



※ Optional Extra

Comprehensive selection of transducers

S-Vue™ transducers

Curved array transducers

CA2-9A

- Application : abdomen, obstetrics, gynecology

CA3-10A

- Application : abdomen, obstetrics, gynecology, pediatric

CA1-7A

- Application : abdomen, obstetrics, gynecology, musculoskeletal

Volume transducer

CV1-8A

- Application : abdomen, obstetrics, gynecology

Phased array transducer

PA1-5A

- Application : abdomen, cardiac, vascular

Curved array transducers

CA2-8A

- Application : abdomen, obstetrics, gynecology

CF4-9

- Application : pediatric, vascular

C2-6

- Application : abdomen, obstetrics, gynecology

SC1-6

- Application : abdomen, obstetrics, gynecology

Volume transducers

LV3-14A

- Application : small parts, musculoskeletal, vascular

V4-8

- Application : abdomen, obstetrics, gynecology

V5-9

- Application : obstetrics, gynecology, urology

EV3-10B

- Application : obstetrics, gynecology, urology

Linear array transducers

LA2-9A

- Application : small parts, vascular, abdomen, musculoskeletal

LA4-18B

- Application : small parts, vascular, musculoskeletal

LA3-16A

- Application : small parts, vascular, musculoskeletal

L5-13

- Application : small parts, vascular, musculoskeletal

LM4-15B

- Application : small parts

L3-12A

- Application : small parts, vascular, obstetrics, musculoskeletal, abdomen

Endocavity transducers

EA2-11B

- Application : obstetrics, gynecology, urology

VR5-9

- Application : obstetrics, gynecology, urology

E3-12A

- Application : obstetrics, gynecology, urology

Phased array transducers

PM1-6A

- Application : abdomen, cardiac, TCD

PE2-4

- Application : abdomen, cardiac, TCD

PA3-8B

- Application : abdomen, pediatric, cardiac

PA4-12B

- Application : cardiac, pediatric