V8

Step up confidence

Unifying performance and intelligence

Built to deliver comfort to both healthcare professionals and patients, the V8 ultrasound system enhances workflow and patient throughput in women's healthcare. Powered by Samsung's premium Crystal Architecture™ and Intelligent Assist features, V8 helps streamline processes and boost confidence even in complex women's exams, as well as help communicate results easily with patients.
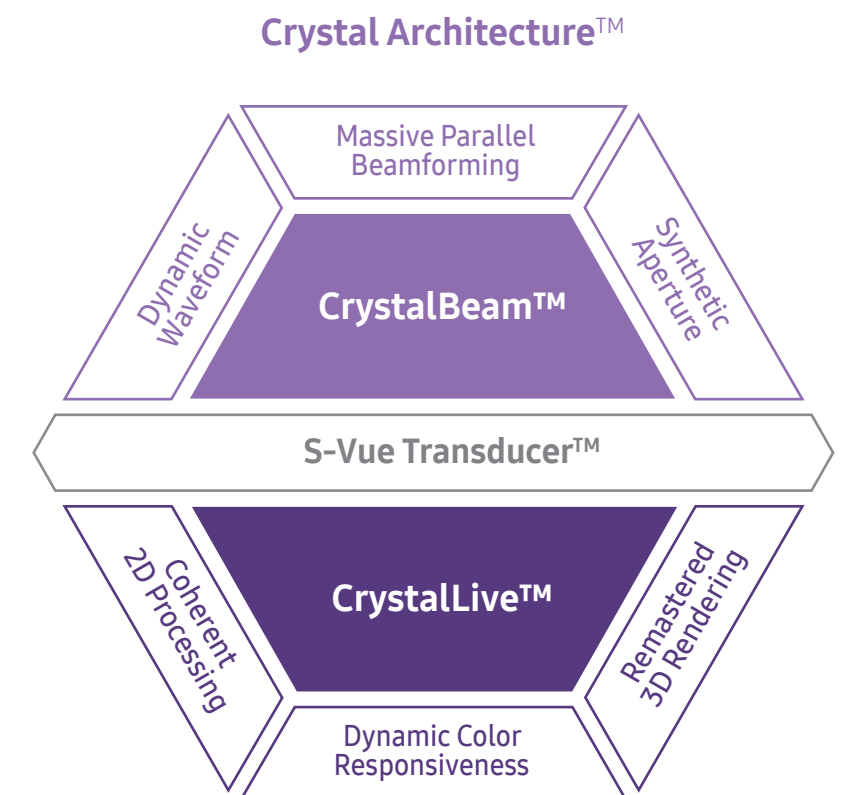
Scan here to watch the V8 product video

Exquisite imaging quality for reliability and confidence

Intelligent Assist tools for efficient examination

Re-engineered workflow for simplified process

Redefined imaging technologies powered by Crystal Architecture™

Crystal Architecture™, an imaging architecture that combines CrystalBeam™ and CrystalLive™, based upon S-Vue Transducer™, provides a crystal clear image. 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, to offer outstanding image performance and efficient workflow during complex cases.

Crystal Architecture™

Massive Parallel Beamforming

Dynamic Waveform

Synthetic Aperture

CrystalBeam™

S-Vue Transducer™

Coherent 2D Processing

Remastered 3D Rendering

CrystalLive™

Dynamic Color Responsiveness

Exquisite imaging quality for reliability and confidence

Gain insight into the problem based on exceptional image performance powered by Samsung's core imaging engine, Crystal Architecture™. The premium imaging engine combines the benefits of enhanced 2D image processing, realistic 3D rendering, and detailed expression of color signal processing.

Enhance hidden structures in shadowed regions

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

Fetal brain   Fetal brain with ShadowHDR™
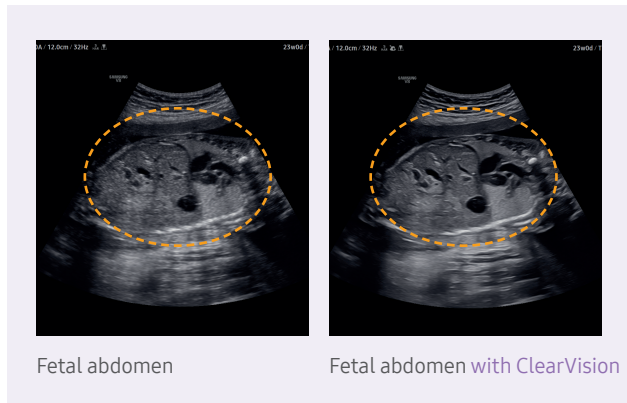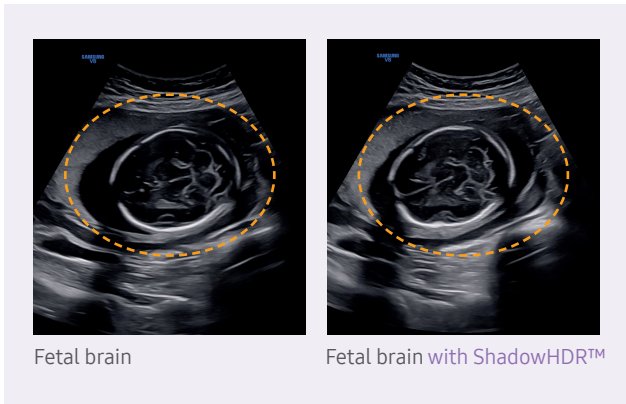
Reduce noise to improve 2D image quality

The noise reduction filter improves edge enhancement and creates sharp 2D images for optimal diagnostic performance. In addition, **ClearVision** provides application-specific optimization and advanced temporal resolution in live scan mode.

Fetal abdomen   Fetal abdomen with ClearVision

High definition volume imaging

HDVI™ [1] is a volume filtering technology that improves the visualization of edges and small structures in volume data. Upgraded marginal expression and image saturation express the very details from angle to shadow of the fetus.


Early fetus   Early fetus with HDVI™

Fetal brain with MV-Flow™
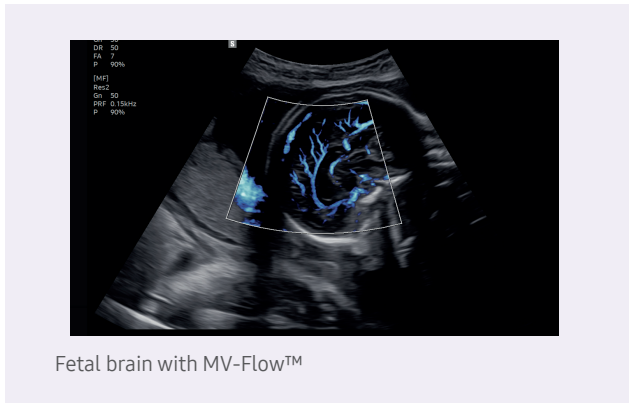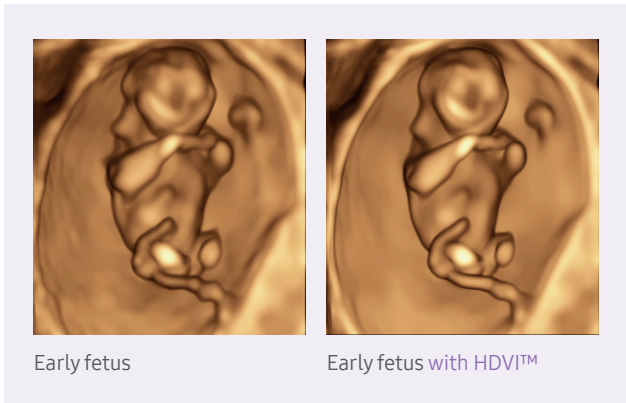
Visualize slow flow in microvascular structures

MV-Flow™ [1] visualizes microcirculatory and slow blood flow to display the intensity in color. It is suitable for observation of microcirculatory and volume of slow blood flow.

Show blood flow in vessels in a 3D like display

LumiFlow™ [1] is a function that visualizes blood flow in three dimensional-like to help understand the structure of blood flow and small vessels intuitively.


1st trimester (S-Flow™ with LumiFlow™)
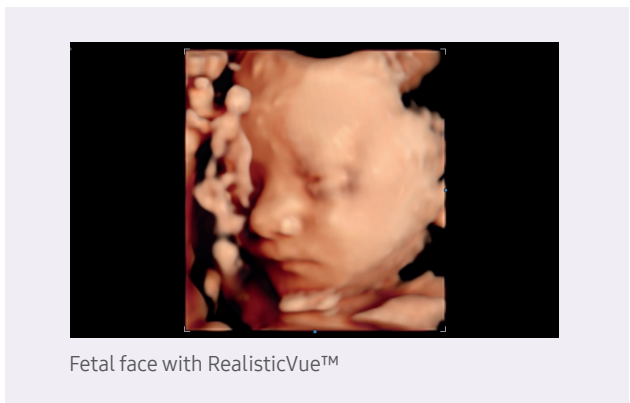
Express 3D anatomy in detailed and realistic view

RealisticVue™ [1] displays high-resolution 3D anatomy with detailed expression and realistic depth perception. User selectable light source direction creates intricately graduated shadows for better defined anatomical structures.

Fetal face with RealisticVue™

Visualize internal and external structures by volume rendering

CrystalVue™ [1] 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.

Fetal spine with CrystalVue™
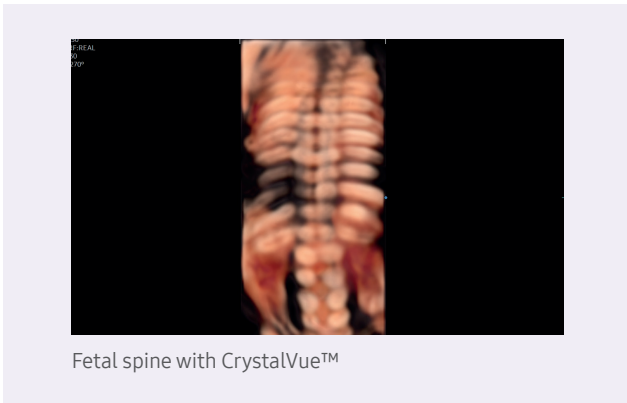
Intelligent Assist tools for efficient examination

Simplify operations with built-in Intelligent Assist features specialized for obstetrics and gynecology. V8 supports healthcare professionals with the time-saving features they need in today's busy working environment. The system is equipped with a range of tools that help accurately diagnose issues and achieve greater throughput.

Family planning

Measure the size of follicles based on 2D

2D Follicle™ [1] is a function to measure the size of follicles based on 2D image and to provide information about the status during controlled ovarian simulation.

2D Follicle™

Assess the risk of infertility using volume data

5D Follicle™ [1] identifies and measures multiple ovarian follicles in one scan for rapid assessment of follicular size and status during controlled ovarian simulation.

Examine patency of the fallopian tube and morphology of uterus and endometrium

CEUS+ HyCoSy [1] can be used in 3D/4D for effective examination for patency of the fallopian tube and morphology of uterus and endometrium. 4D Prospective storage allows 4D data to be stored at the same time the contrast agent is injected.

5D Follicle™

Healthy pregnancy_biometry

### Measure fetal biometry parameter in one click with AI technology

BiometryAssist™ [1] enables users to measure the fetal growth parameters with one click while maintaining exam consistency.

BiometryAssist™

Estimate fetal weight for checking growth

5D Limb Vol.™ [1] 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.

Measure fetal brain in one click

5D CNS+™ [1] uses intelligent navigation to provide 6 measurements from 3 transverse views of the fetal brain to enhance measurement reproducibility and streamlined workflow.

5D CNS+™
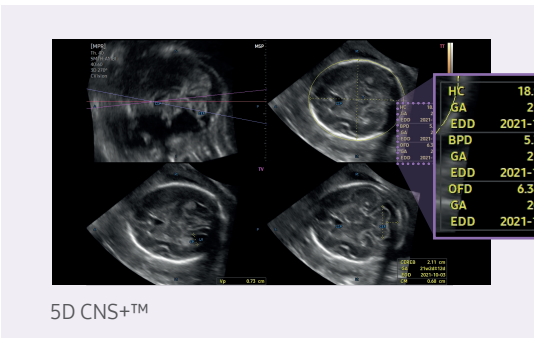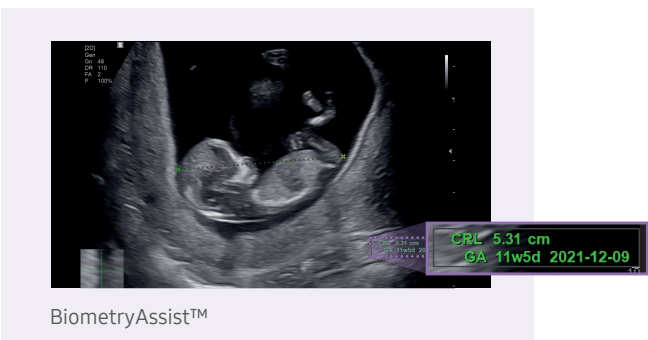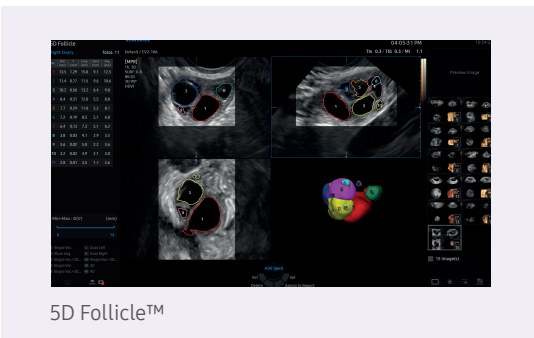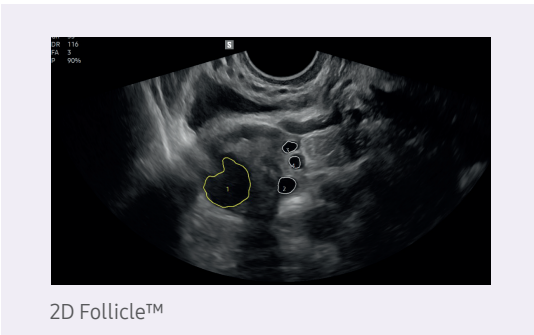
Healthy pregnancy_diagnosis

Measure NT using automatic detection of mid-sagittal plane

5D NT™ [1] provides the midsagittal plane view automatically by rotating and magnifying the images when measuring the nuchal translucency (NT) of the fetus in the early weeks.

5D NT™

Examine fetal heart including blood flow dynamics

5D Heart Color™ [1] identifies 9 standard planes of the heart using fetal STIC data and important information about fetal heart development complying with the AIUM guideline. It also offers dedicated Preset, Predictive Cursor, Diagnostic Alert, and heart Diastole/Systole timepoints.

Healthy birth

Support in deciding delivery method

LaborAssist™ [1] is a function that provides information about the progress of delivery from the automatic measurement of the AoP (Angle of Progress) and the direction of the fetal head. This helps in making delivery decisions and effective communication with the mother about the delivery process.

* AoP complies with the metrics specified in the ISUOG Guideline.

Measure stiffness of cervix area for predicting preterm birth

E-Cervix™ [1] measures the stiffness of the cervical area. Using elasticity images that help predict preterm birth and induced labor, it enhances reproductivity and reduces inter-observer variation by using a sum of various elastograms acquired for several seconds.

Gynecology & breast health

Analyze selected breast lesions and report breast assessment

S-Detect™ for Breast [1,4] analyzes selected lesions in the breast ultrasound study and shows the analyzed data, applying BI-RADS ATLAS* to provide standardized reporting to improve streamlined workflow.

* BI-RADS ATLAS: Breast Imaging-Reporting and Data System, Atlas, registered trademark of ACR and all rights reserved by ACR.

S-Detect™ for Breast
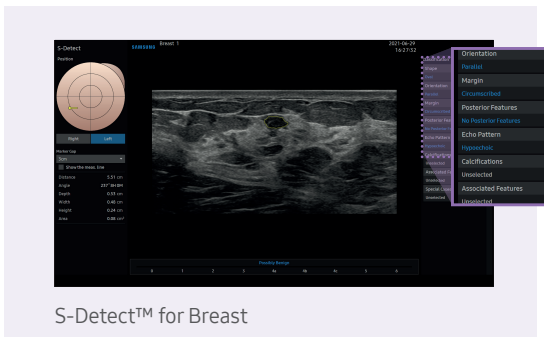
Measure the size and shape of the uterus with AI technology

UterineAssist [1], a feature based on Deep Learning technology, automatically measures the size and shape of the uterus, which helps in finding signs of uterine-related abnormalities, and also reduces scan time.

Classify ovarian tumor

IOTA-ADNEX* [1] is an ovarian tumor classification solution of IOTA Group. Applying the ADNEX model to the system, it can perform all procedures from the initial scan to the final report in the ultrasound diagnosis system.

* IOTA-ADNEX: International Ovarian Tumor Analysis-Assessment of Different NEoplasias in the adnexa

Feature-rich capabilities for diverse clinical cases

V8 includes a range of tools for diverse clinical cases and patient types. The highly adaptable system with high-precision features helps healthcare professionals effectively perform targeted examinations.
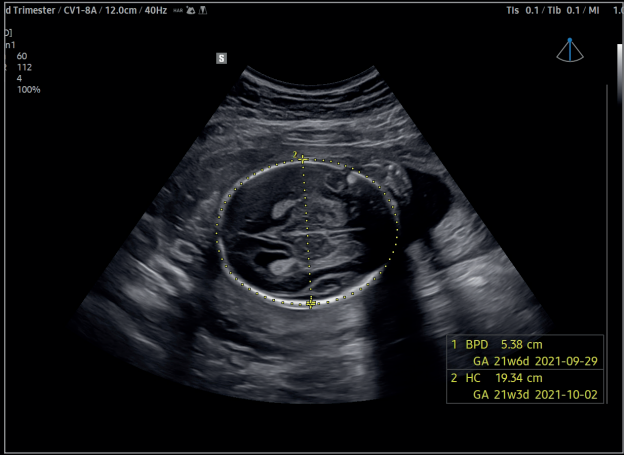
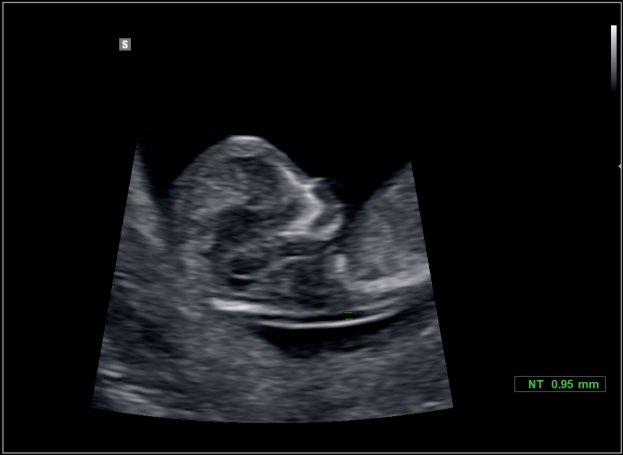Scan here to watch the V8 image gallery
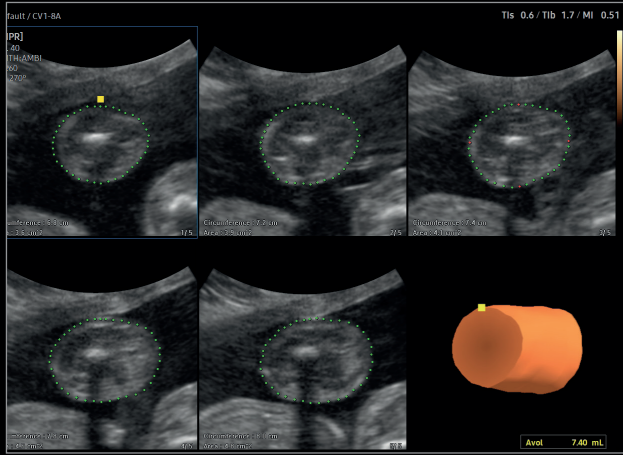

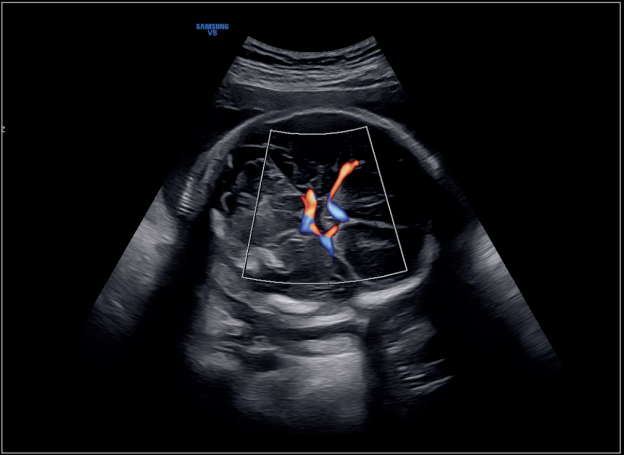Fetal heart with ClearVision
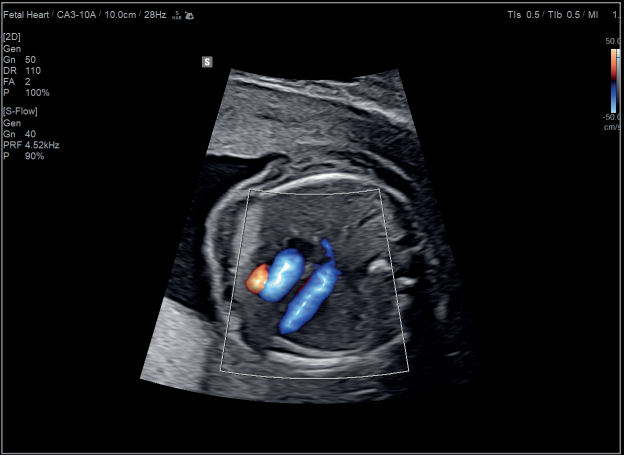
Fetal heart (S-Flow™ with LumiFlow™)

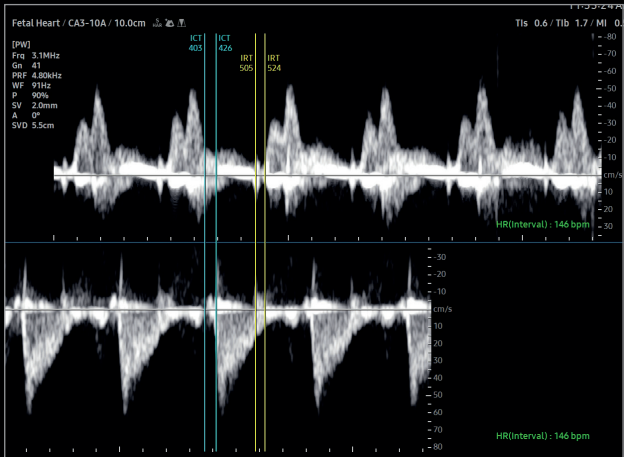BPD/HC measurement with BiometryAssist™
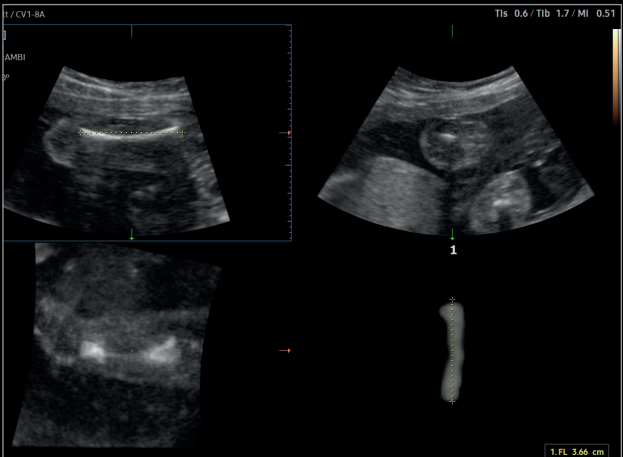

NT measuremnet with BiometryAssist™

Fetal weight measurement with 5D Limb Vol.™

MCA with S-Flow™

RV MPI

Fetal weight measurement with 5D LB™

Early fetus with RealisticVue™


Umbilical cord with MV-Flow™

Re-engineered workflow and design for a simplified process

Ease your day by streamlining workflow with V8's convenient features that reduce multiple tasks into just a few steps and keystrokes. How we display the scan data more easily and precisely is an important focus for the user experience. The ergonomic design makes effective use of the user's working environment to assure utility.

Real-time image streaming solution

SonoSync™ [1] is available on 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 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.

Voice   Video   Marking

Network

Ultrasound System

PC / Tablet / Smartphone
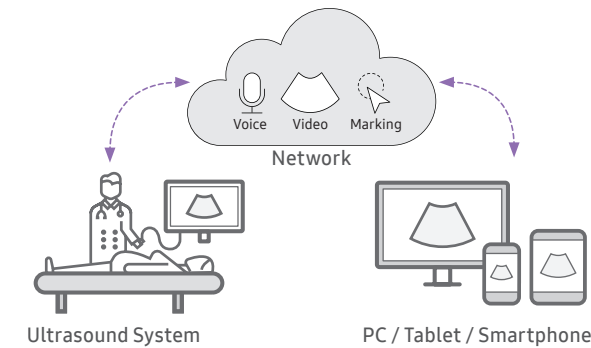
Simple transfer of fetal ultrasound images and clips

HelloMom™ [1,5] is a simple and secure image-sharing solution that generates a QR code for the selected fetal images to be transferred. HelloMom™ allows pregnant women and their family to download fetal ultrasound images simply by scanning the QR code with their smartphones, reducing the hassle of installing a separate application.

Scan QR Code

Scan here to learn more about HelloMom™
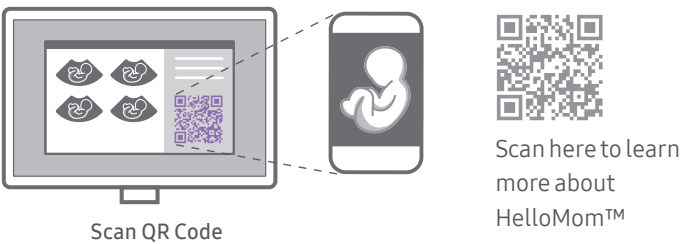
See images in expanded view

The ultrasound examination can be performed while viewing the images and cines that are expanded at various ratios according to the user preference.

Standard screen   Standard screen   Standard screen

Wide screen   Large screen   Full screen
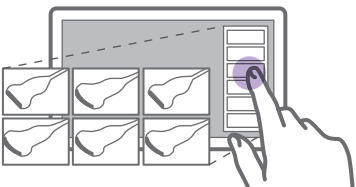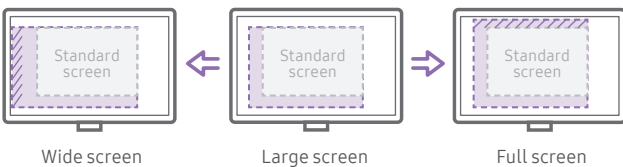
Select transducer and preset combinations in one click

QuickPreset allows the user to select the most common transducer and preset combinations in one click.
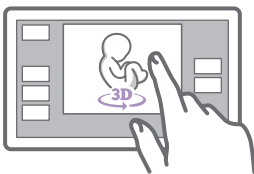
Easily manipulate volume data from the touchscreen

TouchGesture intuitively allows you to rotate, zoom, crop, and move 3D images right from the touchscreen.
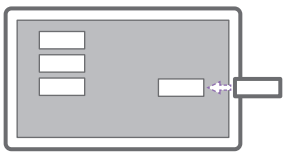
Customize frequently used functions on the touchscreen

TouchEdit, a customizable touchscreen, allows the user to move frequently used functions to the first page.

14"

23.8 inch
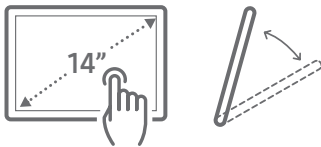
1 **14 inch tilting touch screen**

Samsung's tilting touch screen can be adjusted to accommodate user's viewing preferences in any scanning environment.

14 inch

1

3   2
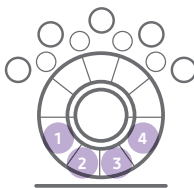
2 **Assign functions to the buttons near the trackball**

Depending on the ultrasound inspection items, the functions assigned to the buttons around the trackball can be utilized to reduce the hassle of menu selection.

5

4

3 **Save image data directly to USB memory**

QuickSave function allows image data to be saved directly on USB memory during the exam.
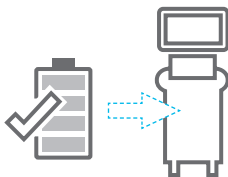
4 **Use the system when AC power is temporarily unavailable**

BatteryAssist™ [1] provides battery power to the system, enabling users to perform scans when AC power is temporarily unavailable. It also allows to transport the ultrasound system to another location and start to scan right away.
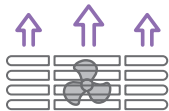
5 **Effective cooling system**

An effective airflow system cools down the ultrasound system by constantly letting heat out and reducing fan noise.
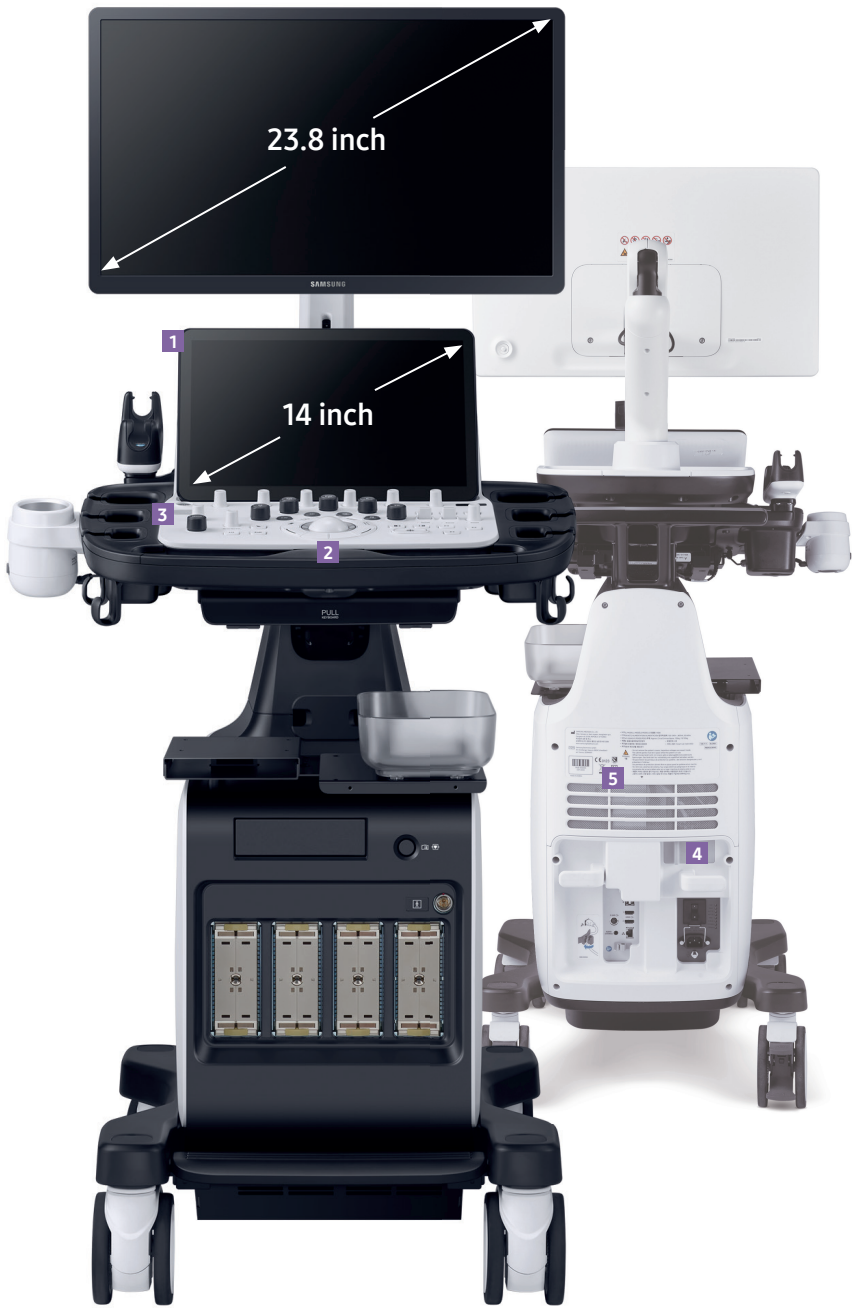
Comprehensive selection of transducers

Curved array transducers

CA1-7S
Abdomen, Obstetrics, Gynecology, Pediatric, Musculoskeletal, Vascular, Urology, Thoracic

CA3-10A
Abdomen, Obstetrics, Gynecology, Pediatric, Musculoskeletal, Vascular, Urology, Thoracic

CA4-10M
Abdomen, Pediatric, Vascular

Phased array transducers

PA1-5A
Cardiac, Vascular, Abdomen, Pediatric, TCD, Thoracic

PA3-8B
Abdomen, Cardiac, Pediatric, Vascular, TCD

Linear array transducers

LA2-14A
Small parts, Vascular, Musculoskeletal, Abdomen, Pediatric, Thoracic

LA4-18A
Small parts, Vascular, Musculoskeletal, Abdomen, Pediatric

LA2-9A
Small parts, Vascular, Musculoskeletal, Abdomen, Pediatric

LA3-22AI
Musculoskeletal, Intraoperative

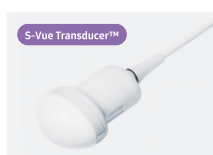## Endocavity transducers

EA2-11AR
Obstetrics, Gynecology, Urology

EA2-11AV
Obstetrics, Gynecology, Urology

Volume transducers

CV1-8A
Abdomen, Obstetrics, Gynecology, Urology

EV2-10A
Obstetrics, Gynecology, Urology

CW transducers

DP2B
Cardiac, Vascular, TCD

CW6.0
Cardiac, Vascular

TEE transducer

MMPT3-7
Cardiac

Scan here to find info on cleaning and disinfection

* This product, features, options, and transducers are not commercially available in all countries.
* Sales and Shipments are effective only after the approval by the regulatory affairs.
  Please contact your local sales representative for further details.
* This product is a medical device, please read the user manual carefully before use.

1. Optional feature which may require additional purchase.
2. S-Vue Transducer™ is the name of Samsung's advanced transducer technology.
3. Strain value for ElastoScan+™ is not applicable in the United States and Canada.
4. Recommendations about whether results are benign or malignant in S-Detect™ are not applicable in the United States and Canada.
5. A purchase of Mobile Export option is required to use HelloMom™.

Samsung Healthcare Cybersecurity

To address the emerging need for cybersecurity, Samsung provides a solution to support our customers by offering the tools to protect against cyberthreats that may compromise invaluable patient data and ultimately degrade the quality of care.