Relentless Innovation
for your diagnostic confidence

SAMSUNG

V7

Performance
Versatility

Product Inquiry

Combining Performance and Versatility

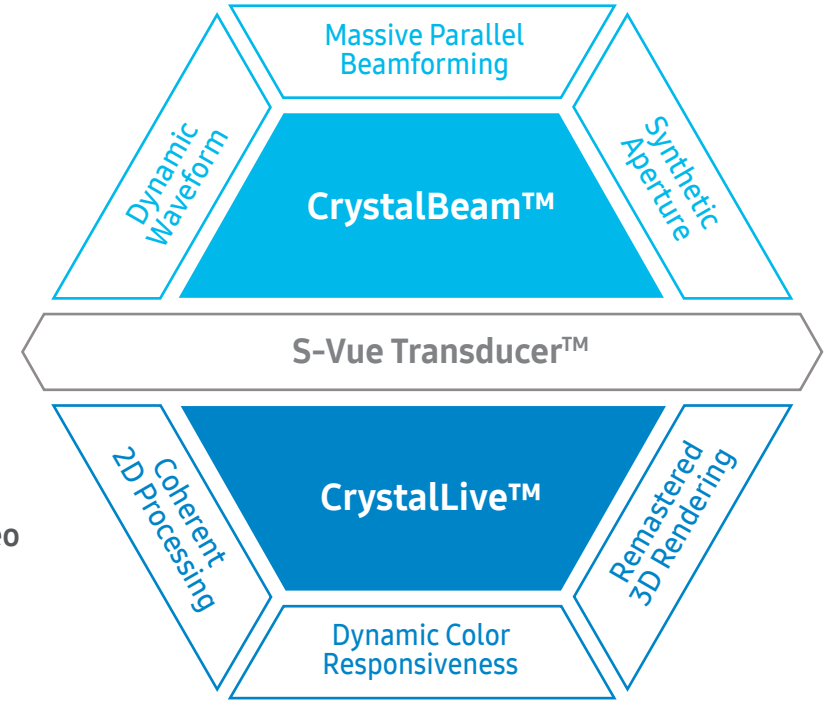
The V7 provides reliable performance while offering comprehensive tools with the latest sonographic innovations. Rich in technologies, the V7 provides a full suite of options to meet your imaging needs.

Powered by Crystal Architecture™

Crystal Architecture is the core of our exceptional image clarity and penetration, built upon a combination of innovative beamforming (CrystalBeam™), sophisticated image processing (CrystalLive™) and advanced S-Vue Transducers™ to produce clear, uniform and high resolution images.

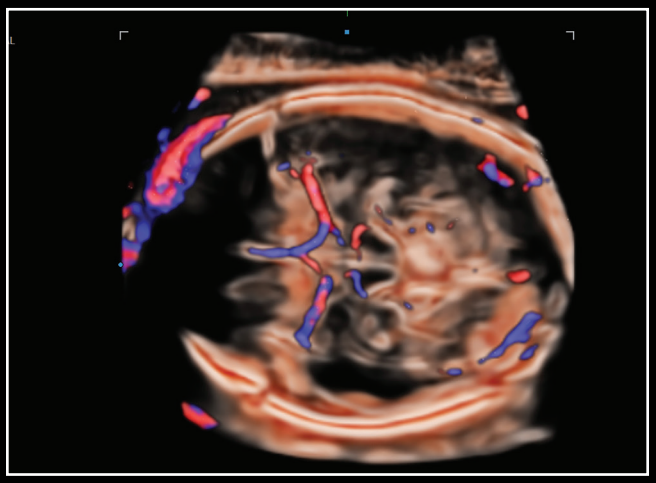
Crystal Architecture empowers ultrasound professionals with diagnostic confidence on even the most challenging of patients returning attention to the individual patient and not excessive manipulation of controls.

Crystal Architecture™

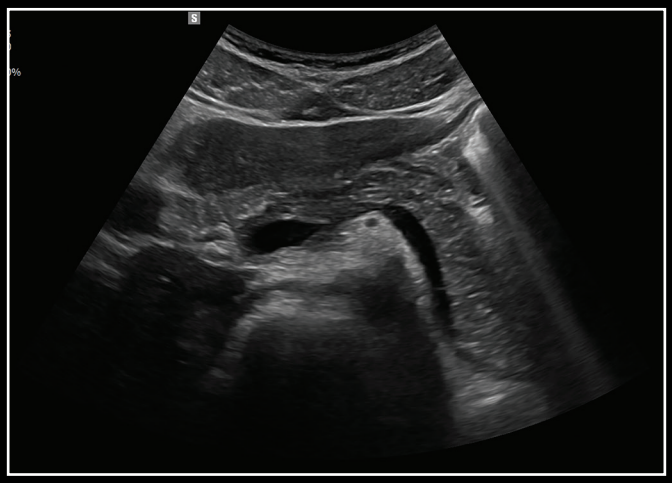


Scan here to watch the V7 product video

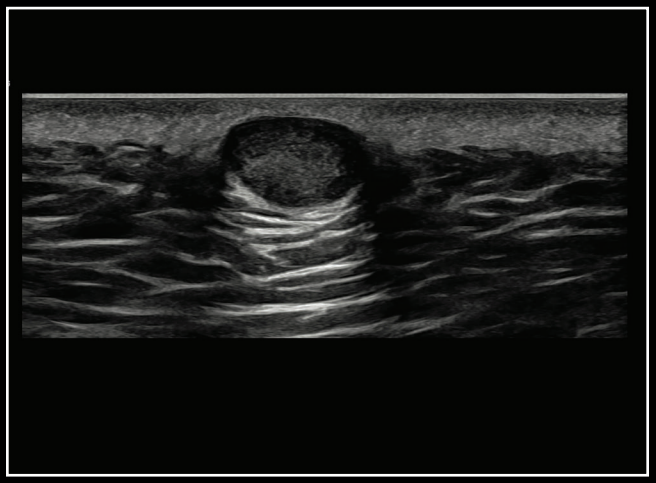
Image Gallery



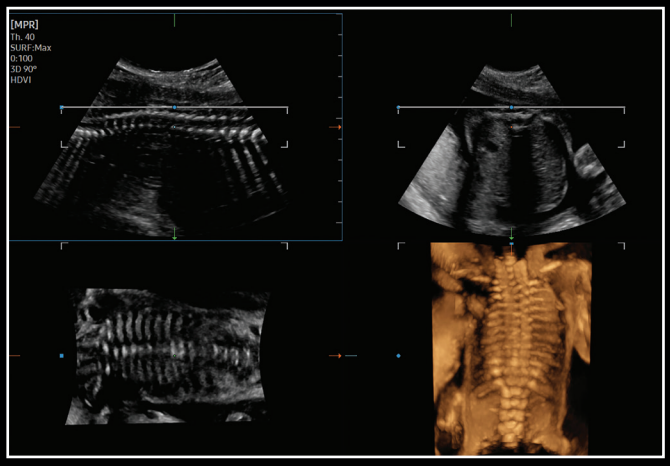
Fetal Circle of Willis displayed using CrystalVue Flow™



Pancreas

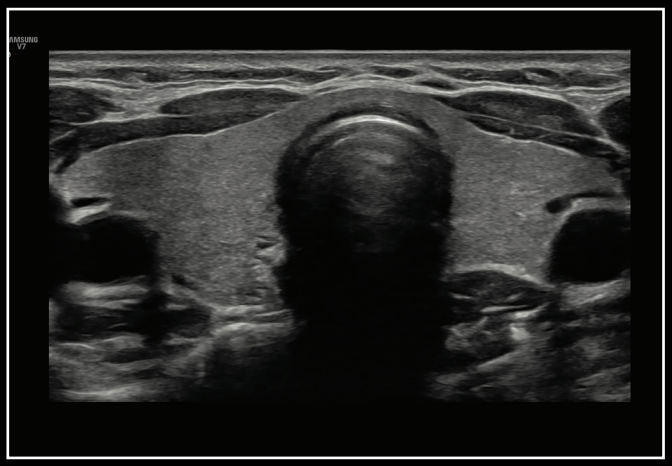


Lipoma in Superficial Tissue



Fetal Spine using 3D MPR and Render techniques

Abdomen



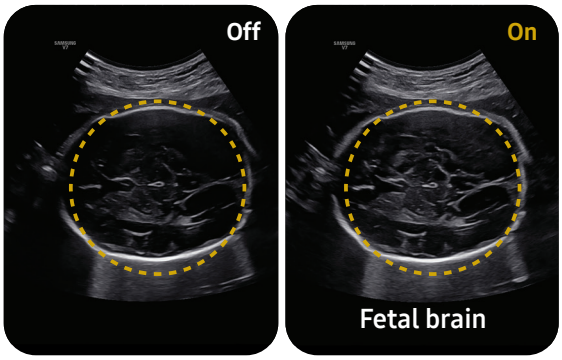
Thyroid

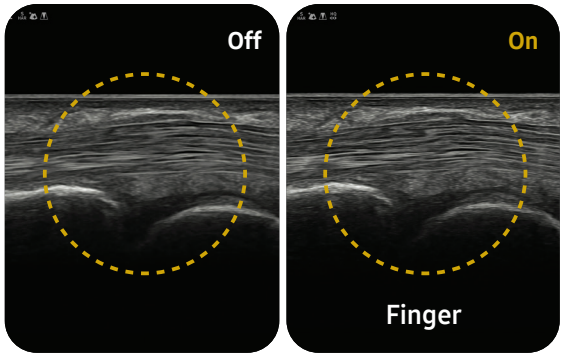
Exquisite Imaging Quality for Reliability and Confidence

Exceptional image performance is powered by Samsung's core imaging engine, Crystal Architecture™. The premium digital imaging engine combines the benefits of enhanced 2D image processing and detailed expression of color signal processing.

ShadowHDR™

ShadowHDR™ is designed to suppress shadows and enhance the clarity of displayed grayscale images.



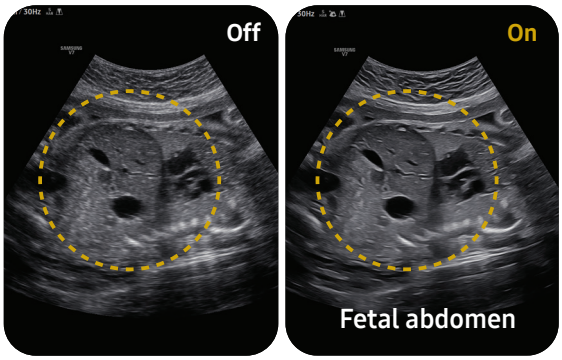


HQ-Vision™

HQ-Vision™ compensates for the natural signal distortion as sound propagates through tissue to display maximum pixel sharpness.

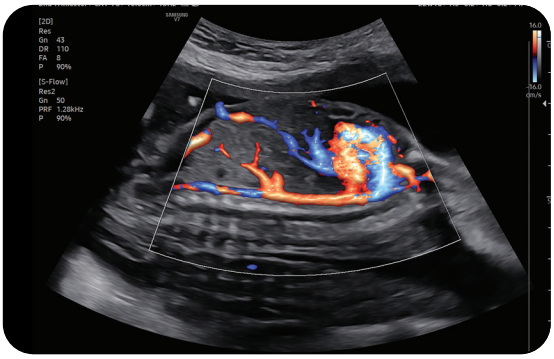
ClearVision™

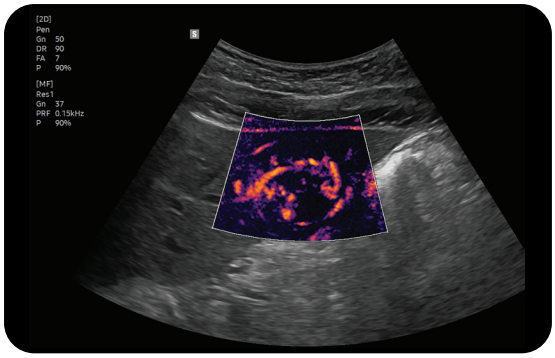
ClearVision™ is an adaptive image optimization technology designed to suppress speckle artifact, sharpen tissue interfaces and enhance contrast resolution providing more detailed documentation of anatomy and pathology.



S-Flow™

S-Flow™ is a highly sensitive directional power Doppler ideal for documentation of slow moving blood flow.





MV-Flow™

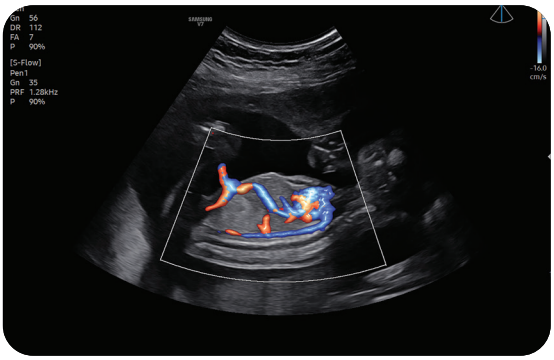
MV-Flow™ is an advanced Doppler technology providing detailed documentation of microvascular perfusion into tissues and organs.

*Optional Feature

LumiFlow™

LumiFlow™ displays a three-dimensional "like" appearance to 2D color Doppler enhancing spatial comprehension of blood vessels.

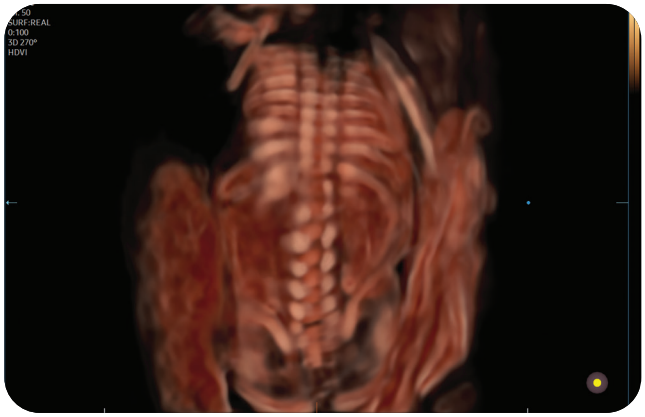
*Optional Feature



CrystalVue™

CrystalVue™ is an advanced volume rendering technology that enhances visualization of both internal and external structures in a single rendered image. The resulting image reveals more definitive documentation of skeletal dysplasia, early neural tube defects, as well as first trimester brain development.

*Optional Feature



RealisticVue™

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. From detailed understanding of complex pathology to patient consultation and education, RealisticVue is a versatile and important tool for effective diagnostics and communication.

*Optional Feature

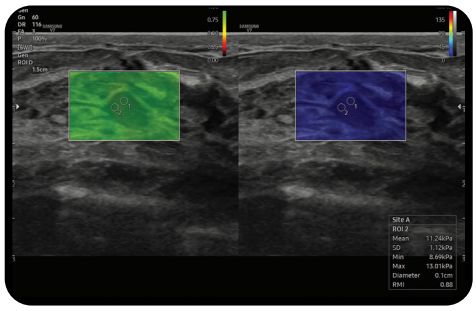
Smart Tools for General Imaging

Intelligent Assist features create a simplified user interface. V7 is equipped with a range of tools and semi-automated features that guide users to an accurate diagnosis with enhanced diagnostic confidence.

S-Shearwave Imaging™

S-Shearwave Imaging™ provides quantitative non-invasive assessment and documentation of tissue stiffness for a variety of clinical applications including breast, liver, MSK and prostate. Color-coded elastogram, quantitative measurements, dual or single display option, and user-selectable ROI functions are especially useful for more confident assessment of breast and liver diseases.

*Optional Feature



Breast with S-Shearwave Imaging™

EzHRI™

EzHRI (Hepato Renal Index) is a semi-automated process to quantify liver steatosis by comparing echogenicity of liver parenchyma to renal cortex. EzHRI positions two ROI on ultrasound image (liver and kidney) to calculate HepatoRenal Index.

*Optional Feature

E-Strain™

E-Strain™ is a semi-quantitative elastography function providing efficient method to calculate strain ratio between two specific regions of interest.

*Optional Feature

TAI™

TAI (Tissue Attenuation Imaging) provides quantitative tissue attenuation measurement to assess steatotic liver changes.

*Optional Feature

Strain+™

Strain+™ is a quantitative tool for global and segmental wall motion of the left ventricle (LV). In Strain+, three standard LV views and a Bull's Eye are displayed in a quad screen for easy and quick assessment of the LV-function.

*Optional Feature

TSI™

TSI (Tissue Scatter Distribution Imaging) provides quantitative tissue scatter distribution measurement to assess steatotic liver changes.

*Optional Feature

StressEcho

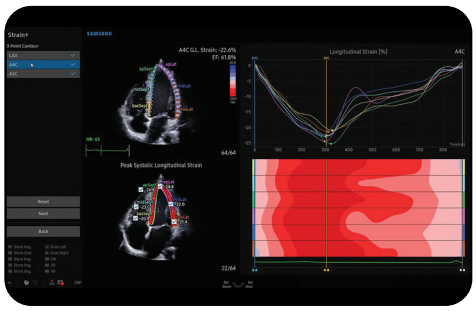
StressEcho package includes wall motion scoring and reporting. It includes exercise StressEcho, pharmacologic StressEcho, diastolic StressEcho and free programmable StressEcho.

*Optional Feature

S-Fusion™

S-Fusion™ enables simultaneous localization of a lesion using real-time ultrasound in conjunction with other volumetric imaging modalities. Samsung's auto registration helps quickly and precisely fuse the images, increasing efficiency and reducing procedure time. S-Fusion™ enables precise targeting during interventional and other advanced clinical procedures.

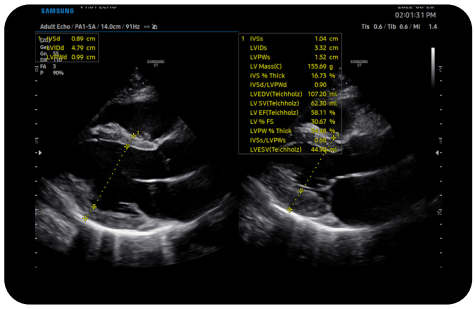
*Optional Feature



HeartAssist™

HeartAssist (for adults) is a semi-automatic measurement feature designed to recognize and quantify cardiac anatomy facilitating consistency of measurements and efficient workflow.

*Optional Feature



ArterialAnalysis™

ArterialAnalysis™ detects functional changes of vessels, providing measurement values such as the stiffness, intima-media thickness and pulse wave velocity of the common carotid artery. Since the functional changes occur before morphological changes, this technology supports the early detection of cardiovascular disease.

*Optional Feature

NerveTrack™

NerveTrack™ is a function that detects and provides information of the location of nerve area in real-time during ultrasound scanning.

*Optional Feature

NeedleMate+™

NeedleMate+™ dramatically enhances needle visualization when performing a variety of intervention procedures. Beam Steer allows the linear ultrasound image to be steered and improves needle visibility when the angle of insonation and the needle are perpendicular to each other.

CEUS+™

CEUS+™ incorporates the use of injected ultrasound contrast agents (micro-bubbles) to improve visualization and characterization of anatomic structures, vessels and lesions. CEUS technology in conjunction with Samsung harmonic imaging provides more confident documentation of liver lesions.

*Optional Feature

AutoIMT™

AutoIMT+™ is a screening tool to analyze a patient's potential risk of cardiovascular disease. It allows easy intima-media thickness measurement of both the anterior and posterior wall of the common carotid with the click of a button.

*Optional Feature

Panoramic+™

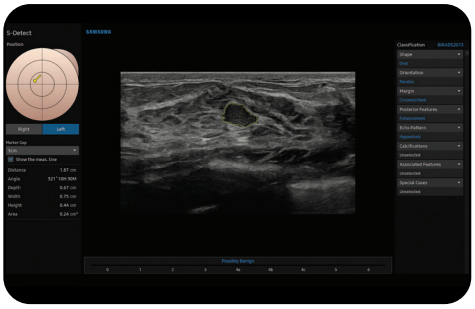
Panoramic+™ imaging displays as an extended field-of-view & also supports angular scanning from linear transducer data acquisition.

S-Detect™ for Breast

S-Detect™ for Breast employs BI-RADS (Breast Imaging- Reporting and Data System) scores for standardized classification options, analysis of lesions, and provides streamlined reporting to reduce time and repetitive tasks.

*Optional Feature

*BI-RADS: It is a registered trademark of ACR and all rights reserved by ACR.



S-Detect™ for Breast

S-Detect™ for Thyroid

S-Detect™ for Thyroid Performs detailed analysis of selected thyroid lesions incorporating ATA guidelines to provide standardized reporting for more comprehensive assessment of thyroid examinations while helping to streamline work flow.

*Optional Feature

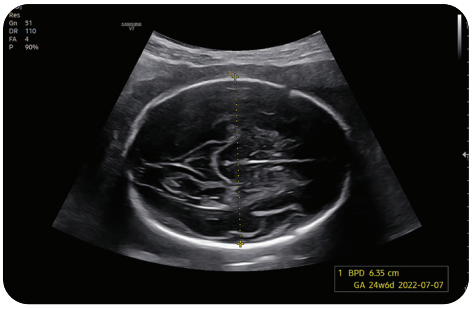
*ATA: American Thyroid Association *BTA: British Thyroid Association

Smart Tools for Women's Imaging

Simplified operation and enhanced diagnostic confidence for obstetrics and gynecology is achieved with built-in Intelligent Assist features. V7 is equipped with a range of tools and semi-automated features that guide healthcare professionals to an accurate diagnosis. V7 provides the time-saving features that women's healthcare professionals need in today's busy working environment.

BiometryAssist™

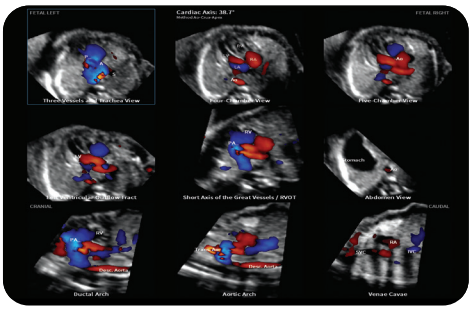
BiometryAssist™ is a semi-automatic technology for biometric measurement that enables users to measure the growth of the fetus more quickly and with greater accuracy while maintaining exam consistency.



5D Heart Color™

5D Heart Color™ is a semi-automated technology generating 9 simultaneous suggested echocardiography views. 5D Heart helps to increase sensitivity and specificity of ultrasound as an effective screening tool for congenital heart disease.

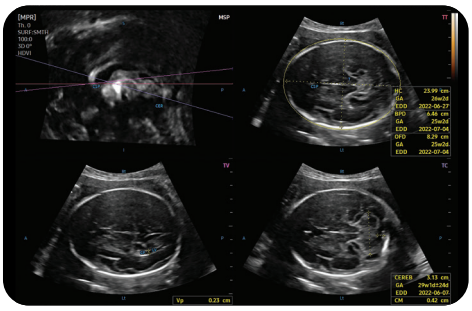
*Optional Feature



5D CNS+™

5D CNS+™ simplifies brain assessment providing simultaneous biometry measurement images (BPD, OFD, HC, Vp, Cereb, CM). In addition to biometry measurements 5D CNS also displays 9 simultaneous images of intracranial anatomy (axial, mid-sagittal, para-sagittal and coronal image planes) for more confident documentation of intracranial anomalies.

*Optional Feature



ViewAssist™

ViewAssist™ provides automatic recognition and text labeling of fetal cardiac anatomy to enhance clinical documentation and workflow.

*Optional Feature

E-Cervix™

E-Cervix™ is an innovative elasotgraphy technology providing efficient semi-quantitative assessment of cervical canal stiffness. The ability of E-Cervix to assess stiffness of the cervical canal from internal os to external os provides the potential for more confident assessment of patients at increased risk for preterm birth.

*Optional Feature

IOTA-ADNEX*™

IOTA-ADNEX*™ 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.

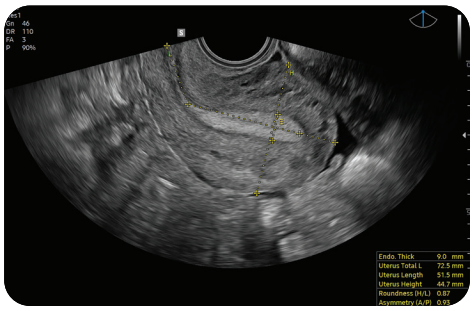
*Optional Feature

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

UterineAssist™

UterineAssist™ is based on Artifical Intelligence technology, automatically measures the size and shape of the uterus, assisting in detecting signs of uterine-related abnormalities, as well as reducing scan time.

*Optional Feature



5D Follicle™

5D Follicle™ is a 3D volume measurement tool that identifies and measures multiple ovarian follicles for rapid assessment.

*Optional Feature

CEUS+ HyCoSy

CEUS+ HyCoSy can be used for effective examination for patency of the fallopian tube and morphology of the uterus and endometrium.

*Optional Feature

2D Follicle™

2D Follicle™ identifies and measures the size of follicles based on a 2D image and provides information about the status during gynecology examinations.

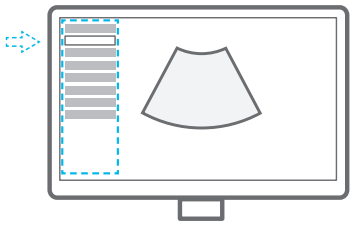
*Optional Feature

Reengineered Workflow and Design

Streamline workflow to enhance efficiency with V7's convenient features that minimize steps and keystrokes. The redesigned user interface provides quick & easy access to routine system functions.

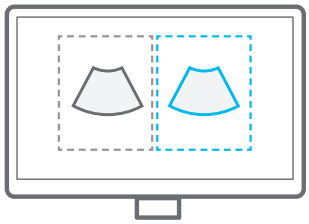
EzExam+™

EzExam+™ transforms the ultrasound examination into a well-organized streamlined process. EzExam+ enables the user to create an efficient diagnostic environment storing optimized and preferred protocols within the EzExam+ function control.



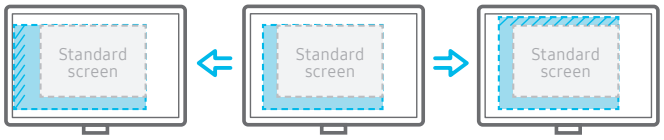
EzCompare™

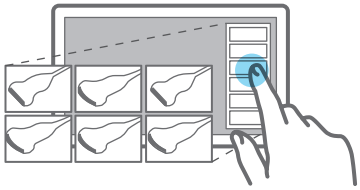
EzCompare™ automatically matches the image settings, annotations, and bodymarkers from the prior study.



See images in expanded view

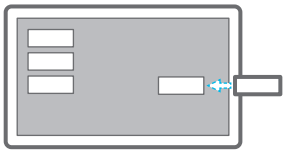
Ultrasound exams can be performed while viewing images/cines in a variety of expanded ratios.





QuickPreset

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



TouchEdit

A customizable touchscreen allows the user to move frequently used functions to the first page.

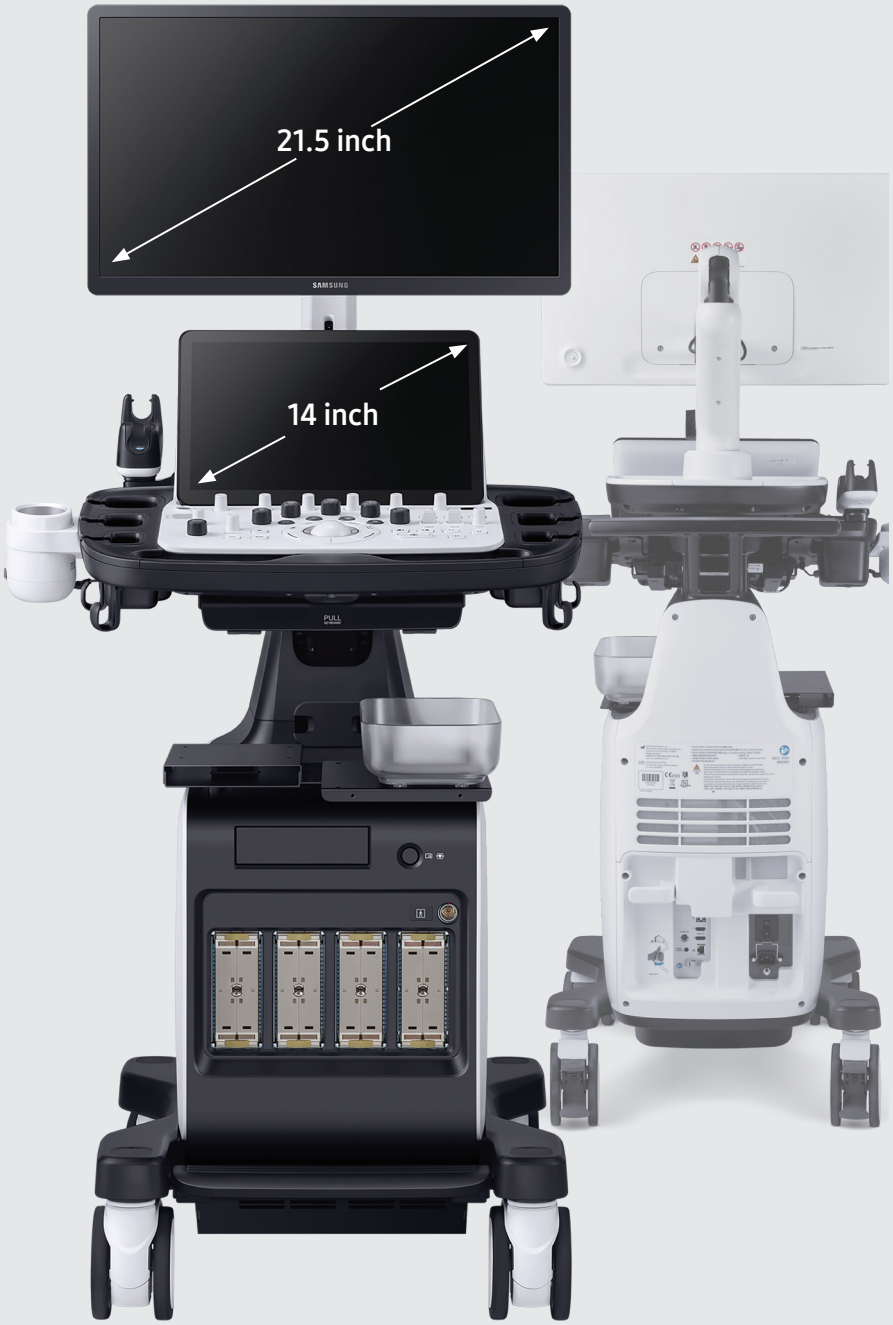
Access directly to RIS from the system

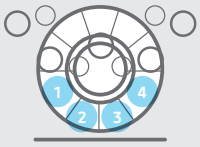
RIS Browser

Function that improves the workflow by allowing access to RIS through the embedded browser in the system. This allows access to patient orders without the need to move to a PC after scanning.

Eco-friendly resin cover

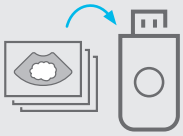
Eco-friendly resin is applied to the air vent exterior cover, outlining Samsung's efforts towards a greener tomorrow.





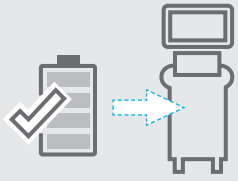
Assign functions to the buttons near the trackball

Depending on the ultrasound inspection items, the functions assigned to the buttons around the trackball can be utilized to streamline workflow.



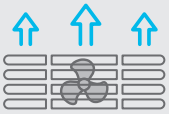
Save image data directly to USB with ADVR™ Option

QuickSave function allows image data to be saved directly onto a USB drive during the exam.



Use the system when AC power is temporarily unavailable

BatteryAssist™ provides the system with battery power. This serves two important purposes. It enables users to perform scans and transport the ultrasound system to other locations in environments where AC power may not be available temporarily.

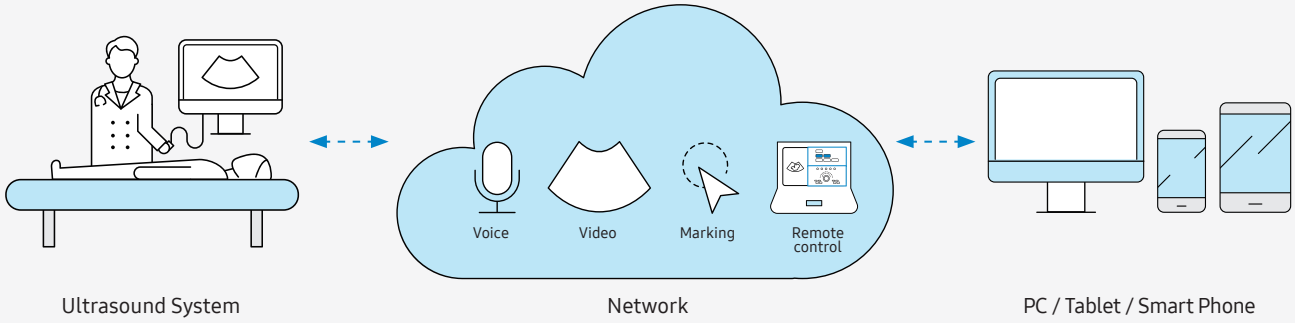


Effective cooling system

An effective airflow system cools down the ultrasound system by continuously letting heat out and reducing fan noise.

Work together in Real-Time from Anywhere

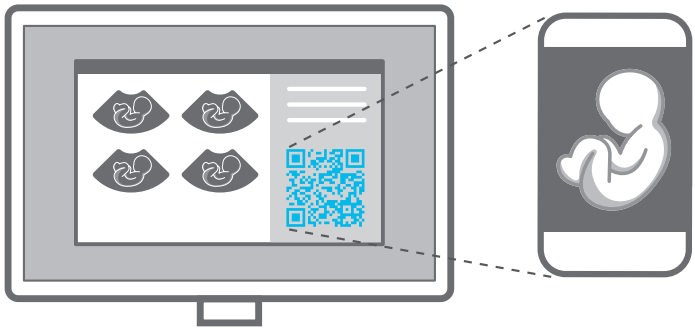
SonoSync™ is a real-time ultrasound image sharing solution that allows voice communication and remote controllability for effective collaboration between physicians and sonographers at different locations. In addition, SonoSync™ has several other elegant features like marking, invitation, still image sharing, multi-user, and multi-view. SonoSync™ brings telesonography into reality.



*Optional Feature
* SonoSync™ is an image sharing solution

Easy Transfer of Fetal Ultrasound Images & Clips

HelloMom™ 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.



Scan QR Code

*Optional Feature
* Purchase of Mobile Export option is required to use HelloMom™

Secure your care

Samsung Healthcare Cybersecurity

Intrusion Prevention
Security tools (Anti-virus & Firewall)
Windows 10

Access Control
Account management
Audit log

Data Protection
Data encryption
EMR/DICOM Secure Transmission

Comprehensive selection of transducers

Curved array transducers

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

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

CA4-10M
Abdomen, Pediatric, Vascular

Phased array transducer

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

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

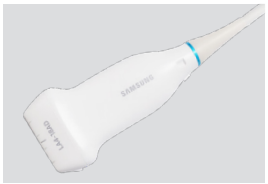
Linear array transducers

PA4-12B
Abdomen, Cardiac, Pediatric, TCD, Thoracic, Vascular

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

LA3-22AI
Musculoskeletal, Intraoperative

LA2-9S
Abdomen, Musculoskeletal, Pediatric, Small Parts, Vascular

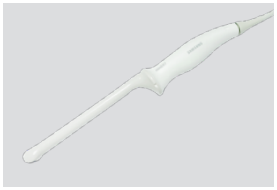


LA4-18AD
Abdomen, Musculoskeletal, Pediatric, Small Parts, Vascular

Endocavity transducers

EA2-11AR*
Obstetrics, Gynecology, Urology

EA2-11AV*
Obstetrics, Gynecology, Urology



miniER7
Gynecology, Obstetrics, Urology

Volume transducers

CV1-8AD
Abdomen, Obstetrics, Gynecology, Urology

EV2-10A
Obstetrics, Gynecology, Urology

CW transducers

DP2B
Cardiac, Vascular

CW6.0
Cardiac, Vascular

TEE transducer

MMPT3-7
Cardiac

*** Ergonomic Transducers (EA2-11AR, EA2-11AV) - Supports natural grip by moving the max width point to a more forward position and also increased the length of the grip to allow balanced weight distribution.**

SAMSUNG

1-V7-100 Rev01