

Relentless Innovation
for your diagnostic confidence

SAMSUNG



V7

Take what you want



Product Inquiry

For General Imaging

All the key benefits you want

The V7 offers a fascinating performance and gives you the possibility to do what you want with comprehensive tools that feature the latest innovations. For instance, EzHRI™, TAI™, and TSI™ are advanced abdominal dedicated diagnostic features, that help healthcare professionals make accurate clinical decisions by quantifying fatty liver in real time. Rich in features, V7's versatile system is capable of a wide range of clinical applications that allow you to explore to the fullest.



Overview video

Diagnose diverse and challenging clinical cases

The V7 comes with a variety of tools for diverse and challenging cases. Healthcare professionals can execute targeted examinations with ease, using the necessary advanced features prepared in the right place. Furthermore, various sophisticated 2D and color imaging features are supported for extraordinary image quality.



2D imaging



ShadowHDR™



HQ-Vision™



ClearVision

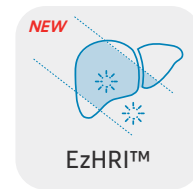
Diagnostic features



S-Shearwave Imaging™



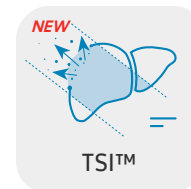
CEUS+



EzHRI™



TAI™



TSI™

Color imaging



MV-Flow™



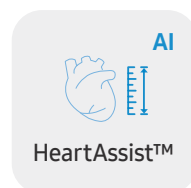
LumiFlow™



S-Flow™



S-Fusion™



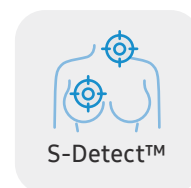
HeartAssist™



Strain+



NerveTrack™

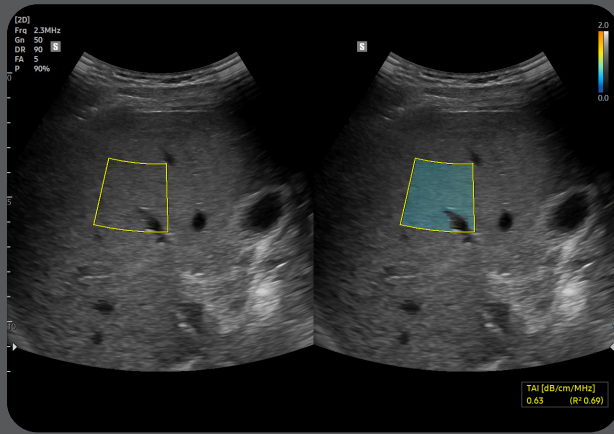


S-Detect™

Striking images for confidence



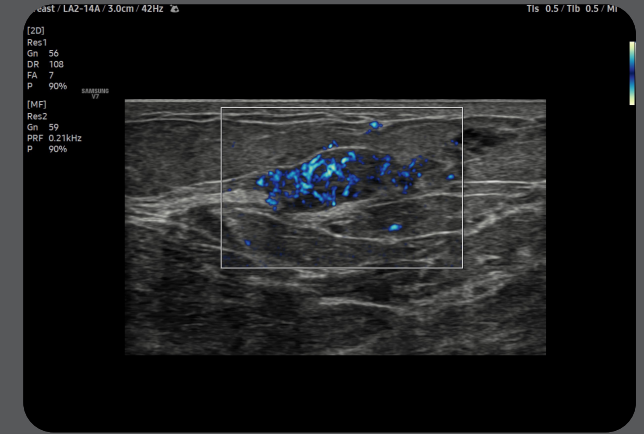
Image gallery



TAI™ (Tissue Attenuation Imaging)



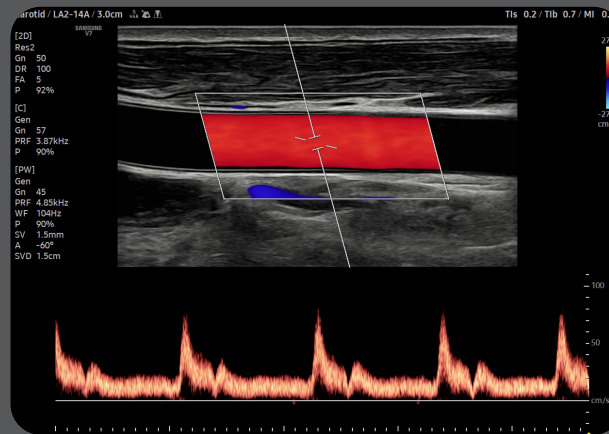
Pancreas



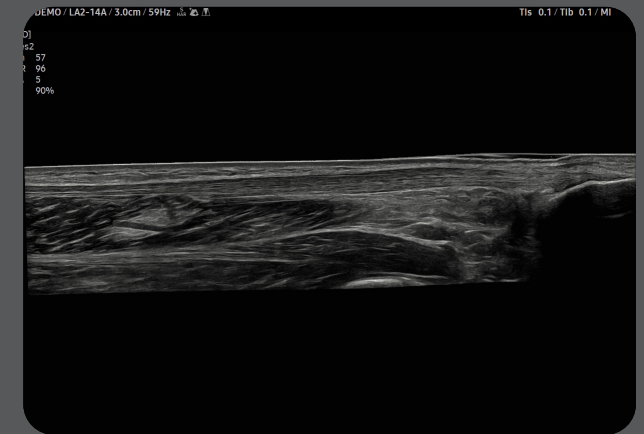
Breast nodule with MV-Flow™



Thyroid



Carotid artery with triplex mode



Knee with Panoramic+™

Enriched diagnostic features with accuracy and precision

The V7 system comes with advanced features that assist in precise diagnosis and increasing throughput. The V7's variety of features and user-friendly interface aid in significantly improving the healthcare professionals' daily ultrasound examination experience.



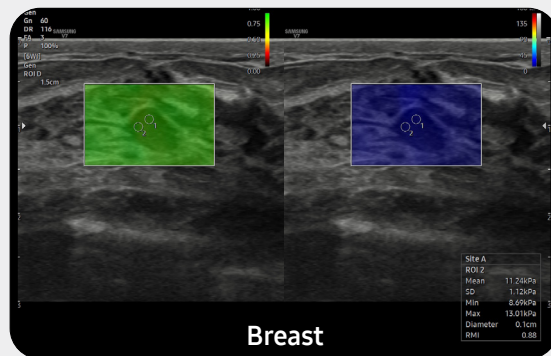
Learn more

Display and quantify tissue stiffness in a non-invasive method

S-Shearwave Imaging™¹ allows the non-invasive assessment of stiff tissues in various applications. The color-coded elastogram, quantitative measurements, display options, and user-selectable ROI functions are useful for accurate diagnosis.



White paper



Quantitative measurement of liver fat with ultrasound signal

TAI™¹ (Tissue Attenuation Imaging) provides quantitative tissue attenuation measurement to assess steatotic liver changes.



White paper

TSI™¹ (Tissue Scatter distribution Imaging) provides quantitative tissue scatter distribution measurement to assess steatotic liver changes.

Hepato-renal index with automated ROI recommendation

HRI (Hepato Renal Index) is an index to quantify steatosis of a liver by comparing echogenicity between liver parenchyma and renal cortex. **EzHRI™¹** places 2 ROIs on the liver parenchyma and renal cortex and provides HRI ratio.



White paper

Easy calculation of the strain ratio between two ROIs

E-Strain™¹ is designed to enable quick and easy calculation of the strain ratio between two regions of interest for day-to-day practice. Simply by setting the two targets, you can receive accurate, consistent results and make informed decisions in many types of diagnostic procedures.

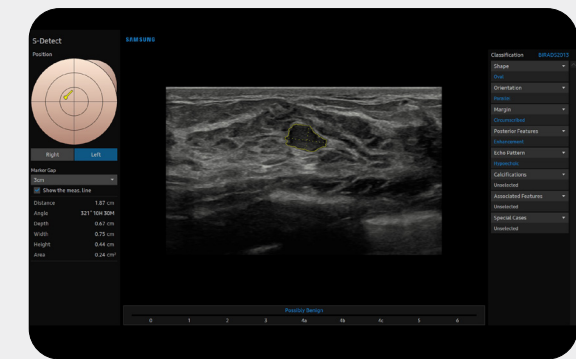
Analyze selected breast lesions and report breast assessment



S-Detect™^{1,4} for Breast analyzes selected lesions in the breast ultrasound study and shows the analysis data, applies BI-RADS ATLAS* to provide standardized reporting; and helps diagnosis with the streamlined workflow.



White paper



* Breast Imaging-Reporting and Data System, Atlas. It is a registered trademark of ACR and all rights reserved by ACR.

Contrast Enhanced Ultrasound

CEUS+¹ is a contrast agent imaging technology. The micro-bubble contrast agent injected into the body through the vein or alike is subjected to perform nonlinear resonance due to stimulation of ultrasound energy.



White paper

Quantify wall motion of the left ventricle

Strain+¹ is a quantitative tool for measuring global and segmental wall motion of the left ventricle (LV). Three standard LV views and a Bull's Eye are displayed in a quad screen for easy assessment of the LV function.



White paper

Analyze selected thyroid lesions and report thyroid assessment



S-Detect™^{1,4} for Thyroid analyzes selected lesions in the thyroid ultrasound study and shows the analysis data, provides standardized reporting based on the ATA, BTA, EU-TIRADS, and K-TIRADS* guidelines; and helps diagnosis with the streamlined workflow.

* ATA: American Thyroid Association / BTA: British Thyroid Association
 EU-TIRADS: European Thyroid Imaging Reporting and Data System
 K-TIRADS: Korean Thyroid Imaging Reporting and Data System
 ACR-TIRADS: American College of Radiology Thyroid Imaging Reporting and Data System

An automated reporting tool for heart diagnosis



HeartAssist™¹, a feature based on Deep Learning technology, provides automatic classification of ultrasound image into measurement views required for heart diagnosis and provides measurement results.



White paper

Detect and track nerves with AI technology



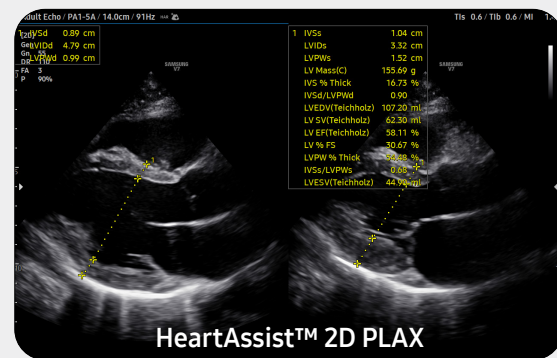
NerveTrack™¹, a feature based on Deep Learning technology, detects and provides information of the location of the nerve area in real-time during ultrasound scanning.



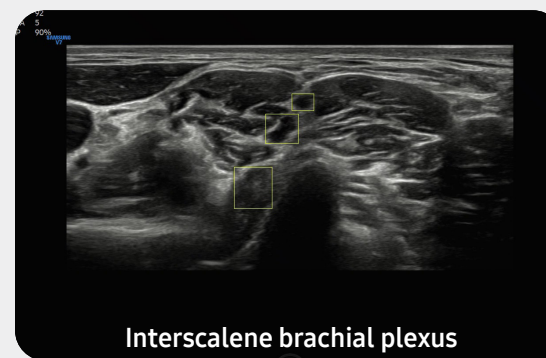
White paper

Measure IMT in one click

AutoIMT+¹ 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 by the click of a button.



HeartAssist™ 2D PLAX



Interscalene brachial plexus

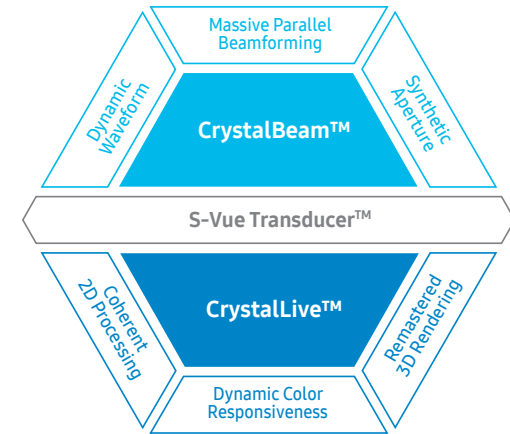
Display needle tip clearly

NeedleMate+™¹ delineates needle location when performing interventions such as nerve blocks. Improved accuracy and efficiency in procedure are possible with beam steering added to NeedleMate+™.

Other features ElastoScan+™¹, AutoEF¹, Panoramic+¹, StressEcho¹, S-Fusion™¹, ArterialAnalysis™¹

Extraordinary image quality delivers diagnostic confidence

Gain insight into complex issues with exceptional image quality and resolution by Samsung's core imaging engine, Crystal Architecture™. The proprietary technology combines enhanced 2D image processing and detailed color signal processing to optimize and refine the image. The cutting-edge V7 will provide outstanding image clarity for a confident diagnosis.



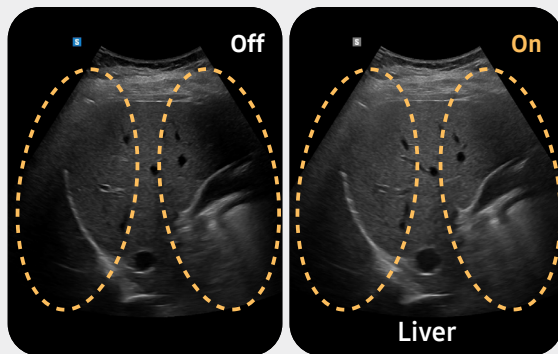
Crystal Architecture™

Enhance hidden structures in shadowed regions

ShadowHDR™ selectively applies high-frequency and low-frequency of ultrasound to identify shadow areas where attenuation occurs.

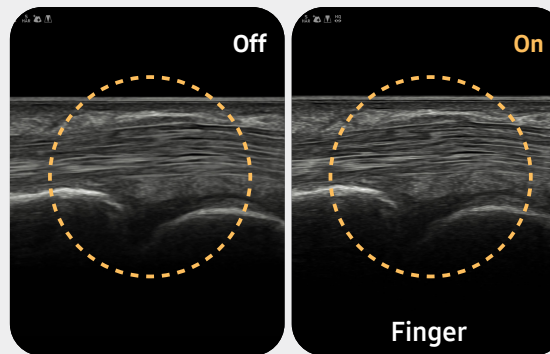


White paper



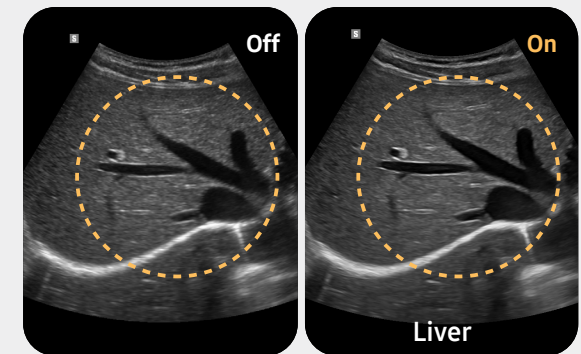
Clean up blurry areas in the image

HQ-Vision™¹ provides clearer images by mitigating the characteristics of ultrasound images that are slightly blurred than the actual vision.



Reduce noise to improve 2D image quality

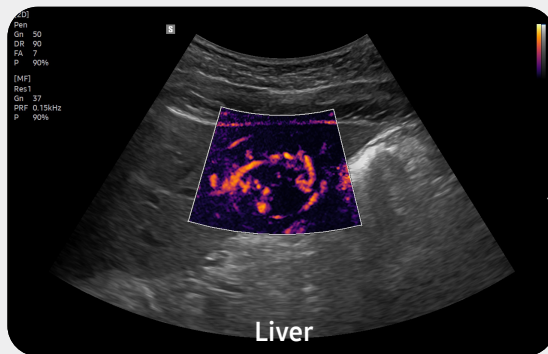
ClearVision enhances the edge contrast and creates sharp 2D images for optimal diagnostic performance.





Visualize slow flow in microvascular structures

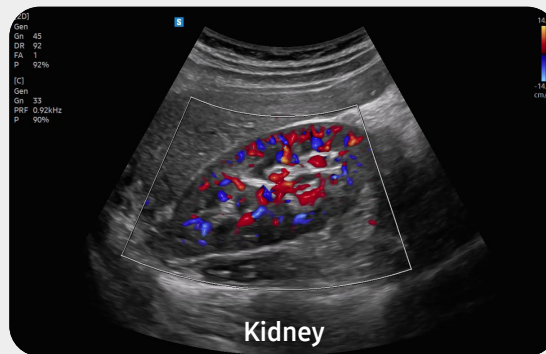
MV-Flow™ 1 visualizes microcirculatory and slow blood flow to display the intensity of blood flow in color.



Liver

Show blood flow in vessels in a 3D like display

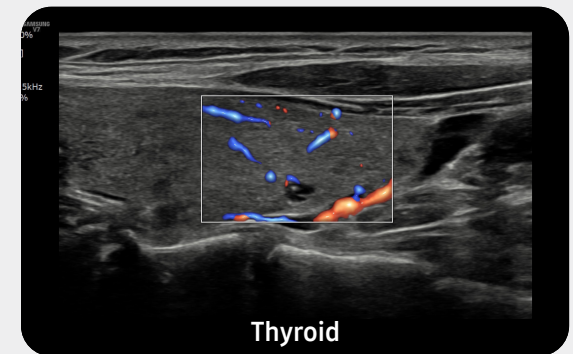
LumiFlow™ 1 is a function that visualizes blood flow in 3 dimensional-like to help understand the structure of blood flow and small vessels intuitively.



Kidney

Examine peripheral vessels with directional power Doppler

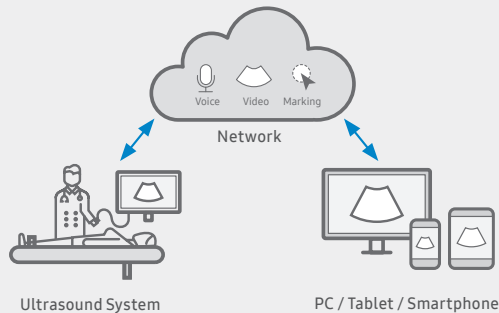
S-Flow™, a directional power Doppler imaging technology, can help to detect even the peripheral blood vessels. It enables accurate diagnosis when the blood flow examination is especially difficult.



Thyroid

Efficient workflow re-designed for simplicity

Made to maximize efficiency, allow V7 to streamline your workflow and reduce various tasks to just a few steps or keystrokes. The user experience is enhanced through how V7 displays scan data more easily and accurately. To ensure utility, the ergonomic design makes optimal use of the user's working environment. V7 is committed to enhancing healthcare professionals' workflow by providing intuitive optimization.

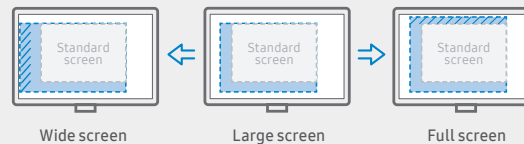


Real-time image sharing, discussion, and collaboration

SonoSync™ 1,5 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.



Learn more

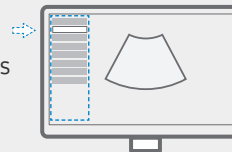


See images in expanded view

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

Build predefined protocols to ensure every step is followed every time

EzExam+™ 1 enables you to build or use a predefined protocol, and assign protocols for examinations that are regularly performed in the hospital in order to reduce the number of steps that you have to go through.



Customize frequently used functions on the touchscreen

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



Select transducer and preset combinations in one click

QuickPreset allows the user to select the most common transducer and preset combinations in one click.



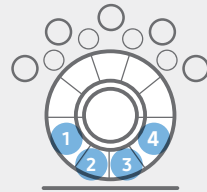
Access directly to RIS from the system

Access to RIS from the browser of the ultrasound system

RIS Browser improves the workflow by allowing access to RIS through the embedded browser in the system. This allows for post processing without the need to move to a PC after scanning.

Assign functions to the buttons near the trackball

The buttons around the trackball can be customized for easy selection of commonly used functions.



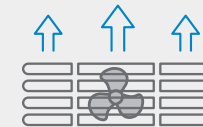
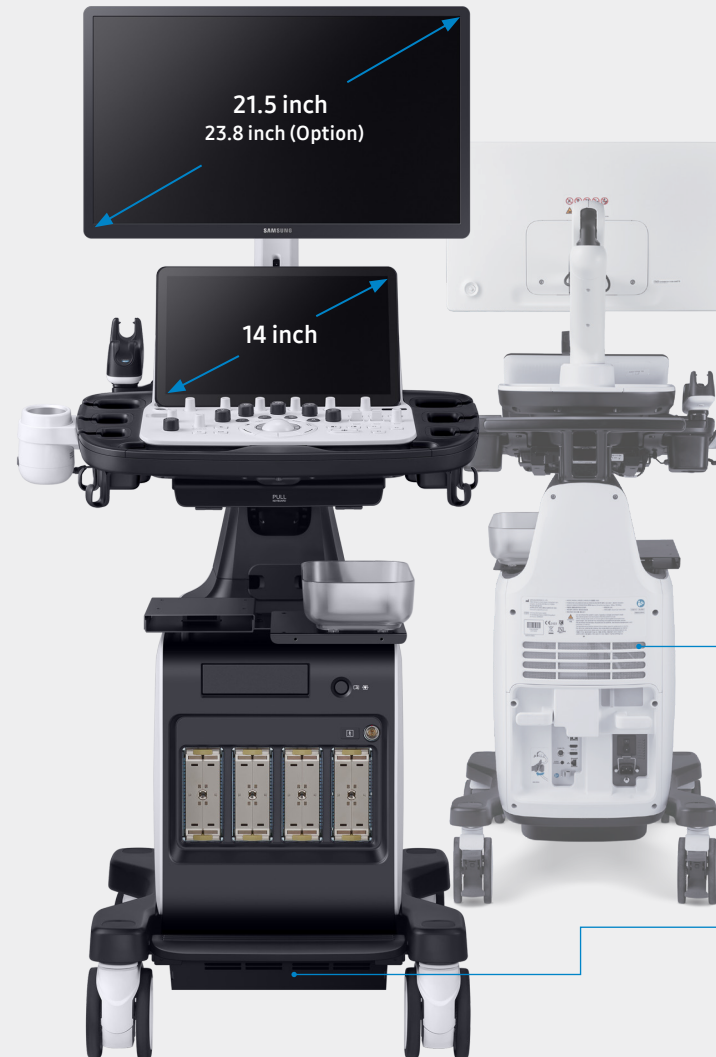
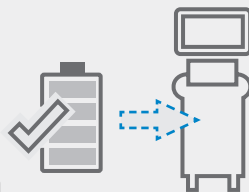
Save image data directly to USB memory

User can directly export image/cine with a USB device.



Continue working even when AC power is temporarily unavailable

BatteryAssist™ provides battery power to the system, enabling users to perform scans when AC power is temporarily unavailable. It also allows the system to be moved to another location without having to turn the power off and then back on.



Effective cooling system

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

Recycled materials

Eco-conscious resin cover is applied to the air vent exterior cover.

Comprehensive selection of transducers

Curved array transducers



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



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



CA4-10M *
Abdomen, Pediatric,
Vascular



PA1-5A^{PE} *
Cardiac, Vascular,
Abdomen, Pediatric, TCD,
Thoracic



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



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

Linear array transducers



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



LA4-18AD *
Abdomen,
Musculoskeletal, Small
parts, Vascular, Pediatric



LA2-9S *
Abdomen,
Musculoskeletal, Small
parts, Vascular, Pediatric



L3-22
Musculoskeletal, Small
parts, Vascular, Pediatric



LA3-22AI
Musculoskeletal,
Intraoperative

Volume transducers



CV1-8AD
Abdomen, Obstetrics,
Gynecology, Urology



EV2-10A *
Obstetrics, Gynecology,
Urology



EA2-11ARD *
Obstetrics, Gynecology,
Urology



EA2-11AVD *
Obstetrics, Gynecology,
Urology



miniER7 *
Urology, Obstetrics,
Gynecology

CW transducers



DP2B
Cardiac, Vascular, TCD



CW6.0
Cardiac, Vascular, TCD

TEE transducer

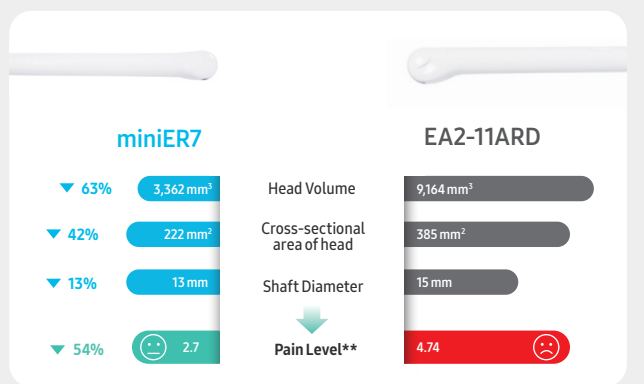


MMPT3-7
Cardiac

Ultra Compact Prostate Ultrasound Transducer

Samsung has developed **miniER7**, an ultra-mini caliber prostate transducer with minimal head size to reduce patients pain and discomfort* when performing prostate examinations.

* Compared to Samsung's EA2-11ARD
** Based on internal exam



* Ergonomic transducers

The new endocavity transducer supports natural grip by moving the max-width point to a more forward position and also increasing the length of the grip to allow balanced weight distribution.



Cleaning and
disinfection guide

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.



Learn more



Intrusion prevention



Access control



Data protection

About Samsung Medison CO., LTD.

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.

- * This product, features, options, and transducers may not be commercially available in some 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.
5. SonoSync™ is an image sharing solution.

Eco Packaging

Eco-conscious recycled paper is included in the product packaging.



Learn more



KOREA STAR AWARDS 2022

This award is for the contribution to the development of eco-friendly packaging in Korea. The ultrasound system V7 has won the KAPPE PRIZE of the Korea Star Awards.

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CT-V7V1.04-GI-JWP-240408-EN