Relentless Innovation
for your diagnostic confidence

SAMSUNG

RS85 Prestige

The real revolution

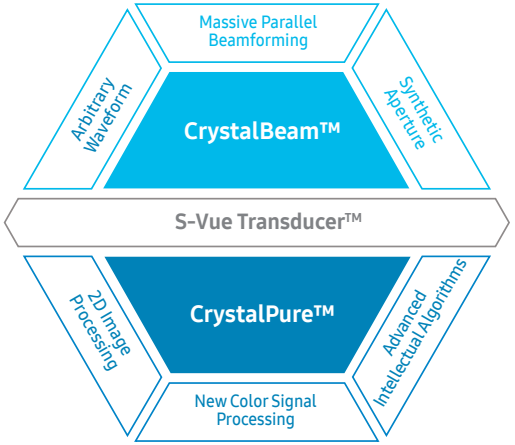
Visit website

A revolutionary change in advanced diagnostics

RS85 *Prestige* has been revolutionized with novel diagnostic features across each application based on the preeminent imaging performance. The advanced intellectual technologies are to help you confirm with confidence for challenging cases, while the easy-to-use system supports your effort involved in the routine scanning. Especially, Samsung ultrasound's largest 27-inch OLED monitor enhances the diagnostic confidence of healthcare professionals by providing clear and stunning image quality.

Redefined imaging technologies powered by Crystal Architecture™

Crystal Architecture™, an imaging architecture that combines CrystalBeam™ and CrystalPure™, while based upon S-Vue Transducer™, is to provide crystal clear image. CrystalBeam™ is a new beamforming technology beneficial in delivering high-quality image resolution and increased uniformity of images. CrystalPure™ is Samsung's up-to-date ultrasound imaging engine with enhanced 2D image processing, color signal processing, and advanced intellectual algorithm to offer outstanding image performance and efficient workflow during complex cases.



Crystal Architecture™

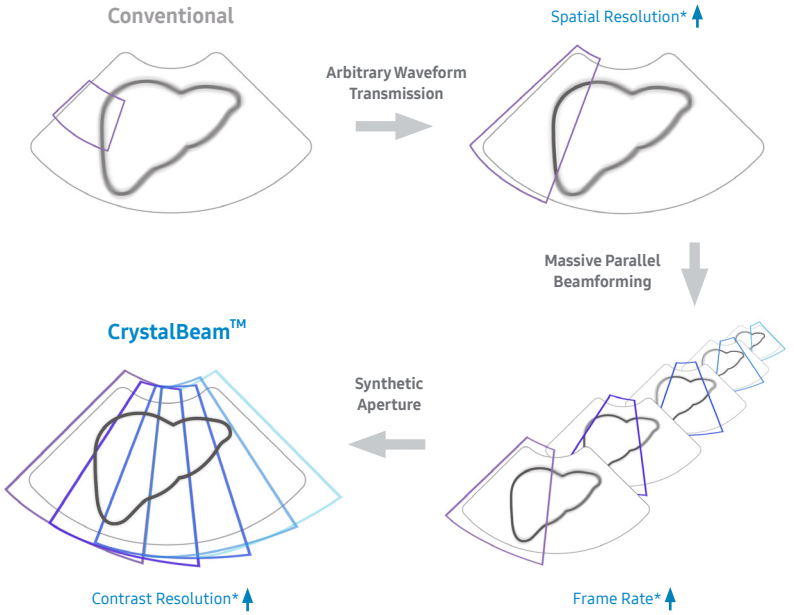
Fast Frame Rates
X4 Data Transfer Rate *

High-Quality Images
X4 Processing Power *

Fast Rendering
X2 GPU Memory *

A new beamforming for in-depth image creation

CrystalBeam™ utilizes Arbitrary Waveform Transmission, Massive Parallel Beamforming, and Synthetic Aperture technologies to produce a faster frame rate and improved image uniformity. Arbitrary Waveform Transmit refers to a widely-focused beam transmission technology that allows for more coherent images. Massive Parallel Beamforming and Synthetic Aperture enable more detailed and faster beam processing based on a large amount of acquired ultrasound data.



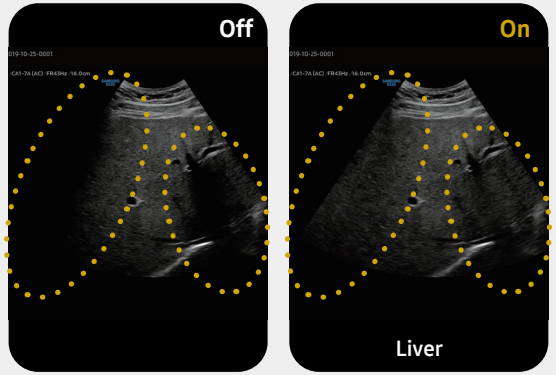
* Compared to the Samsung RS85 V1.0 ultrasound system.

Sophisticated 2D & color images processed by CrystalPure™

CrystalPure™ imaging engine helps you to make more confident diagnoses with fundamental 2D images and enhanced color performance. It also lessens the incidence of clutter and boosts the level of color signal processing.

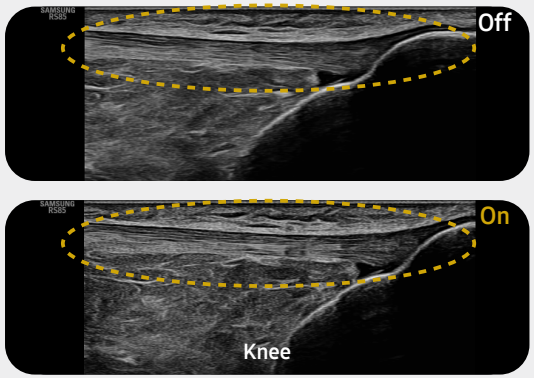
Enhance hidden structures in shadowed regions

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



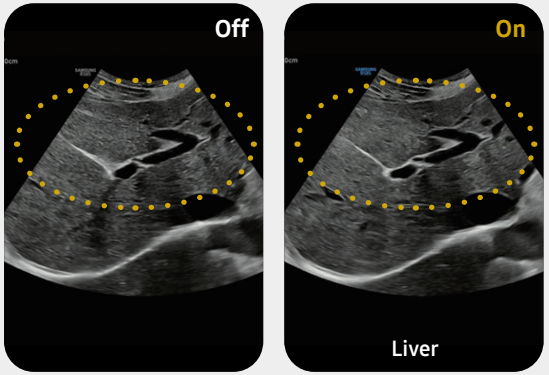
Clean up blurry areas in the image

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



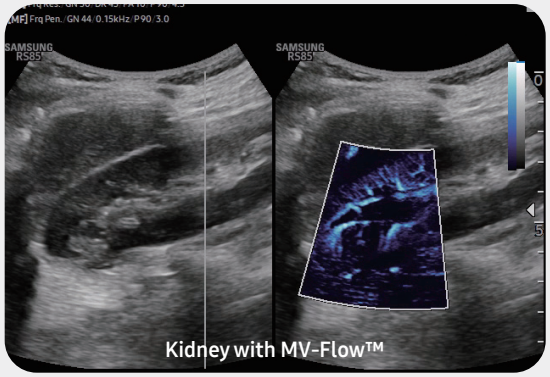
Suppresses speckle noise and enhances edge for dense expression

PureVision™ is an image processing function that outputs with a good uniformity and clear image by performing speckle noise suppression and edge enhancement on B-mode.



Visualize slow flow in microvascular structures

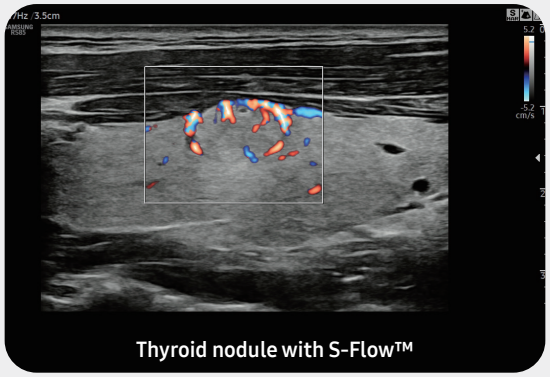
MV-Flow™ [1] visualizes microcirculatory and slow blood flow to display the intensity of blood flow in color.



Kidney with MV-Flow™

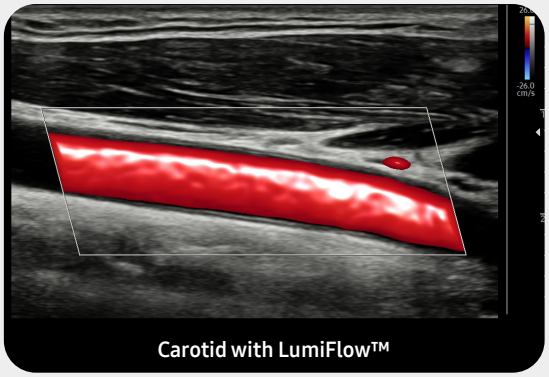
Examine peripheral vessels with directional power Doppler

S-Flow™, The function uses directional power doppler technology, enabling you to examine even the peripheral vessels. It displays information on the intensity and direction of blood flow.


Thyroid nodule with S-Flow™

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.

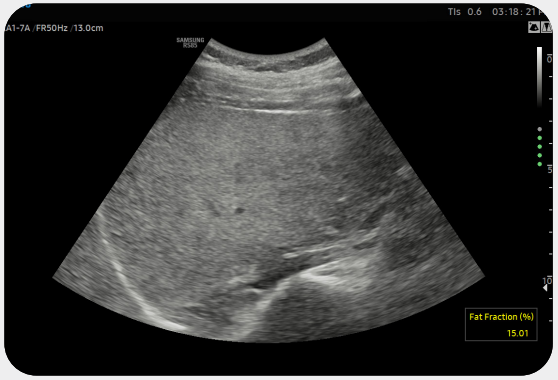

Carotid with LumiFlow™

Advanced intelligence for reliable assessment

Our features enable healthcare professionals to navigate and quantify ultrasound propagation in realtime, helping them to visualize and make their assessments with accuracy.

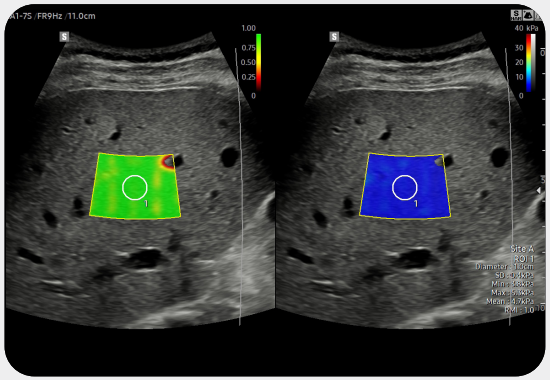
Ultrasound fat fraction ratio

DeepUSFF™, a feature based on AI technology, provides information on fat fraction ratio for liver diagnosis.



Display and quantify tissue stiffness in a non-invasive method

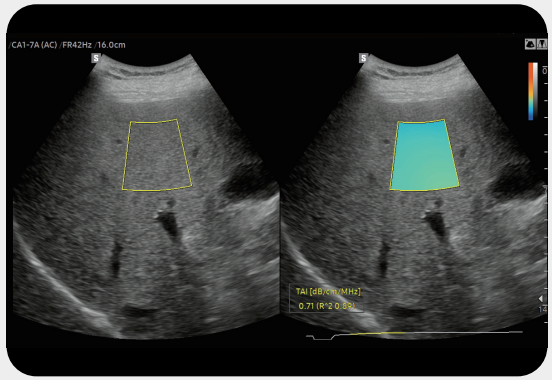
S-Shearwave Imaging™ [1] allows the non-invasive assessment of stiff tissues in various applications. The color-coded elastogram, quantitative measurements, display options, and user-selectable ROI functions are useful for accurate diagnosis.



Quantitative measurement of liver fat with ultrasound signal

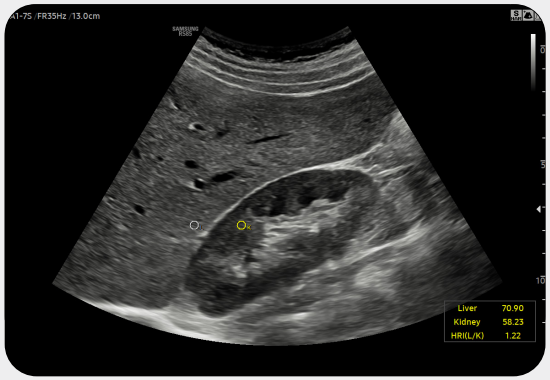
TAI™ [1] provides a quantitative tissue attenuation measurement to assess steatotic liver changes.

TSI™ [1] provides a quantitative tissue scatter distribution measurement to assess steatotic liver changes.



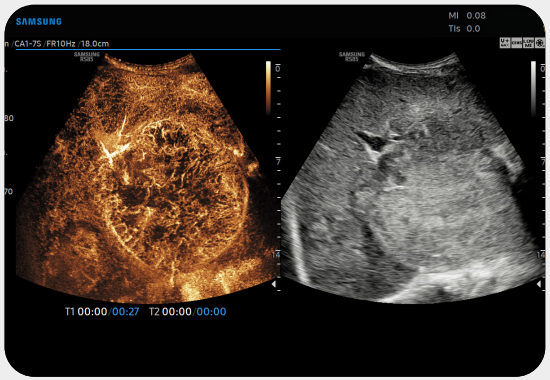
Hepato-renal index with ROI recommendation

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



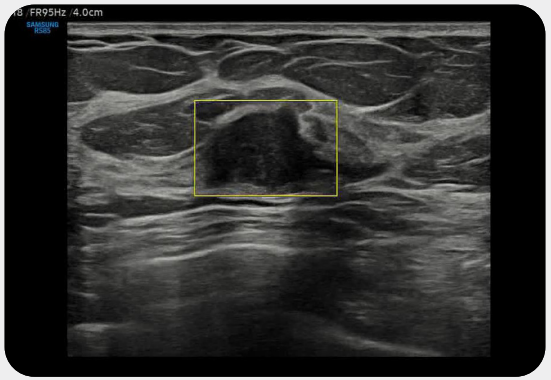
Contrast-Enhanced Ultrasound

CEUS+ is a contrast enhancement imaging technology that utilizes the characteristics of ultrasound contrast agents. The microbubble contrast agent injected into the body through the vein or alike is subjected to perform nonlinear resonance due to stimulation of ultrasound energy. In addition to the nonlinear signal generated by this method, the ultrasound contrast image is implemented by using the harmonic signal and thus utilized for the diagnosis based on the contrast characteristics over time.



Detect and track interested areas of breast with AI technology

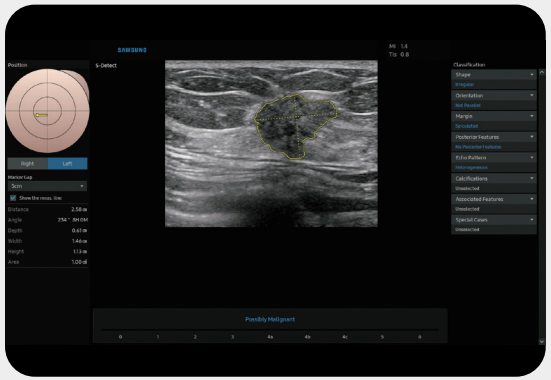
Live BreastAssist™ [1], a feature based on Deep Learning technology, detects interested areas in real-time during breast scanning and displays the location of lesions to assist healthcare professionals in diagnosis.



Analyze selected breast lesions and report breast assessment

S-Detect™ [1, 2] *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.

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



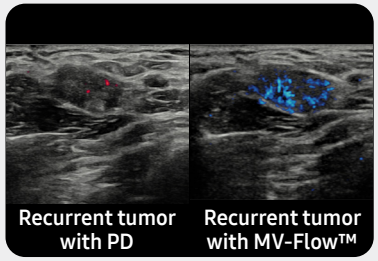
Provide real-time data on screen during ablation procedures

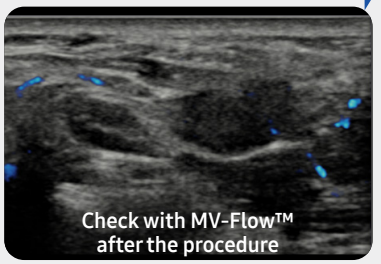
The **RFA Viewer** displays information in real-time, such as total ablation time and total energy, generated by the RFA Generator. This information is shown directly on the ultrasound monitor, allowing users to stay focused on the procedure without switching between different displays.

* Samsung ultrasound is compatible with STARmed's RFA machines.

Ultrasound guided intervention: Thyroid radiofrequency ablation

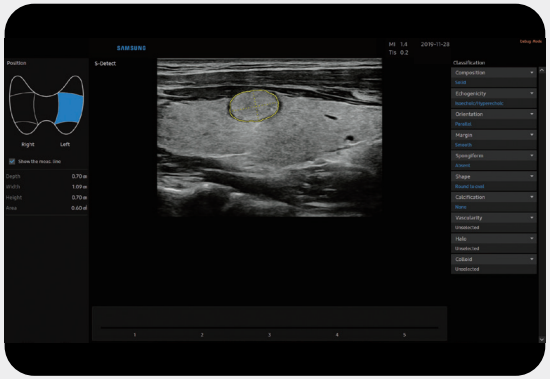
Pre-procedure → **During-procedure** → **Post-procedure**





Analyze selected thyroid lesions and report thyroid assessment

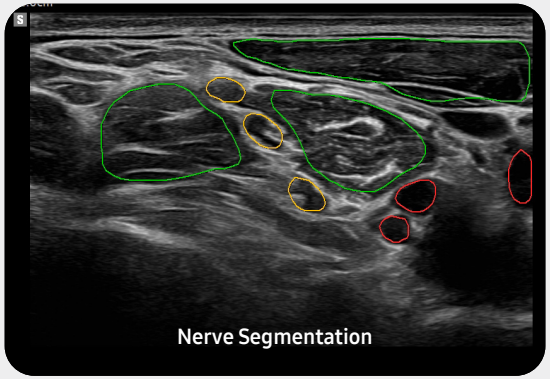
S-Detect™ [1,2] *for Thyroid* analyzes selected lesions in the thyroid ultrasound study and shows the analysis data, provides standardized reporting based on the ATA, BTA, EU-TIRADS, K-TIRADS, and ACR TI-RADS guidelines; and helps diagnosis with the streamlined workflow.



* 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

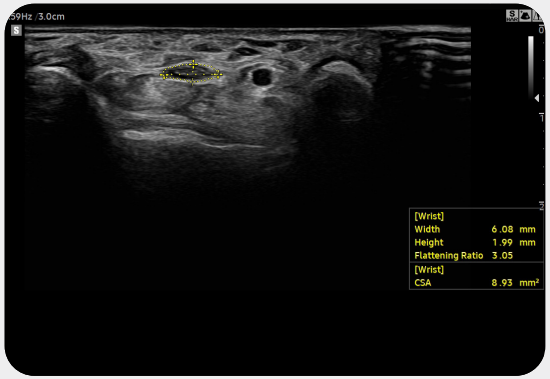
Detect and track nerves with AI technology

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.



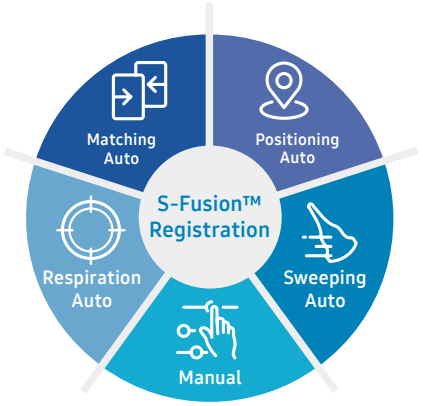
A semi-automated measurement tool for nerve

EzNerveMeasure™ [1] is a feature that provides measurement results of the long axis, short axis, flattening ratio, and Cross-Sectional Area of the detected nerve area.



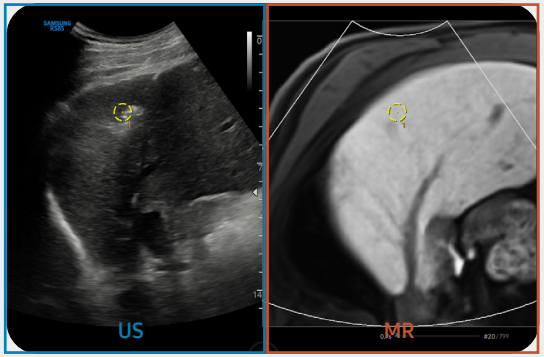
Precise and convenient interventional solutions

RS85 *Prestige* provides a broad range of precise fusion, guidance, and dedicated tools to support healthcare professionals strengthen their confidence in operating interventional procedures.



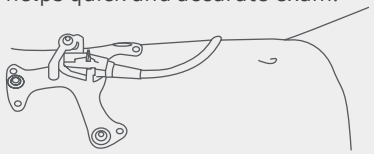
Perform multi-modality fusion biopsies with high precision

S-Fusion™ [1] 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.

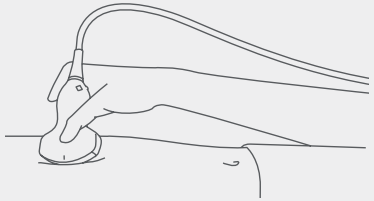


Auto Registration *for Liver*

Matching Auto allows automatic initial registration by attaching an external marker to the patient's body before S-Fusion™ exam is processed, thus it helps quick and accurate exam.



Positioning Auto helps quick and efficient examination with one-step initial registration between CT/MR and ultrasound images by positioning the transducer in the patient's pit of the stomach before the patient scan.



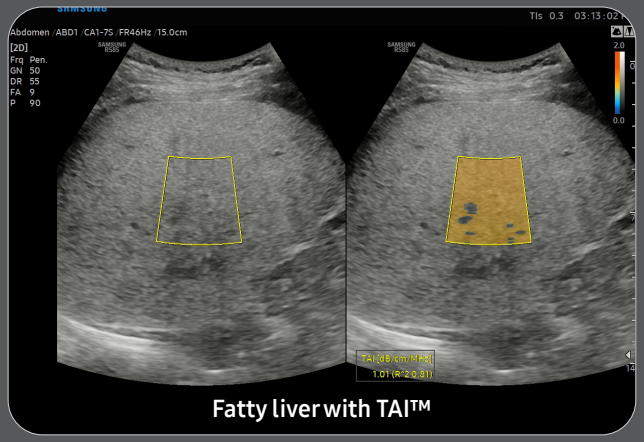
S-Fusion™ *for Prostate*

Auto Calibration supports an automatic and real-time calibrating function that helps you perform more accurate and reliable procedures.

Deformation Correction is a feature to improve the accuracy of registration with MR image by correcting deformed prostate shape when transducer is compressed during the procedure and it is useful for targeted biopsy procedure.

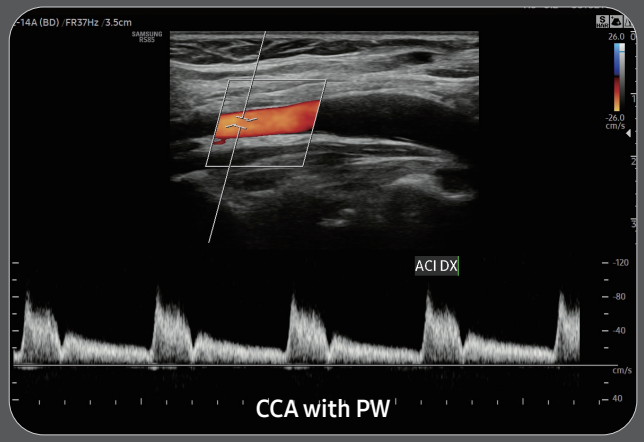
3D Modeling allows safe navigation and precise targeting during prostate biopsies based on 3D models created from MR data sets, and also provides a function to report biopsy location.

Striking images for confidence

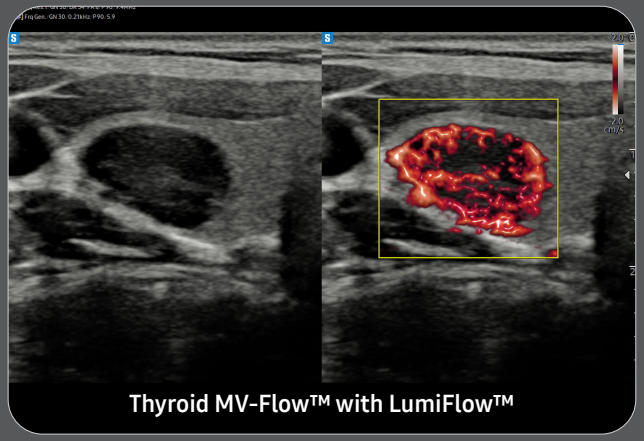


Fatty liver with TAI™

Breast with S-Harmonic™

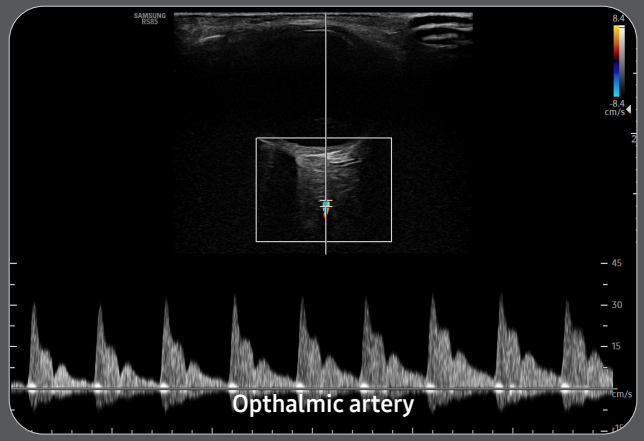


CCA with PW

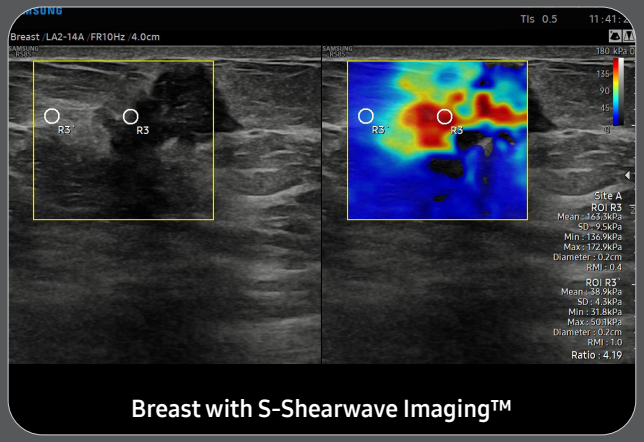


Thyroid MV-Flow™ with LumiFlow™

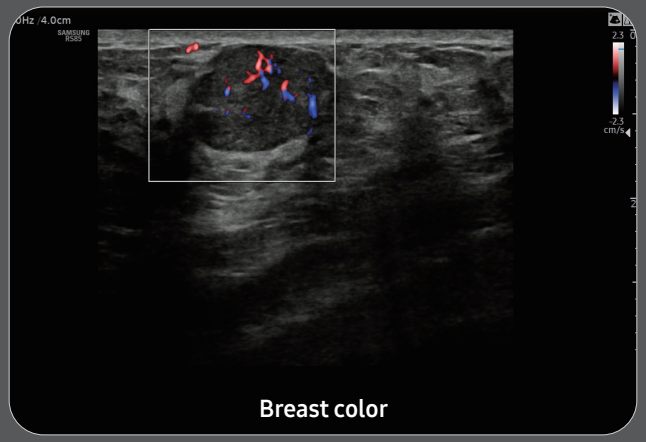
Shoulder with S-Harmonic™



Opthalmic artery

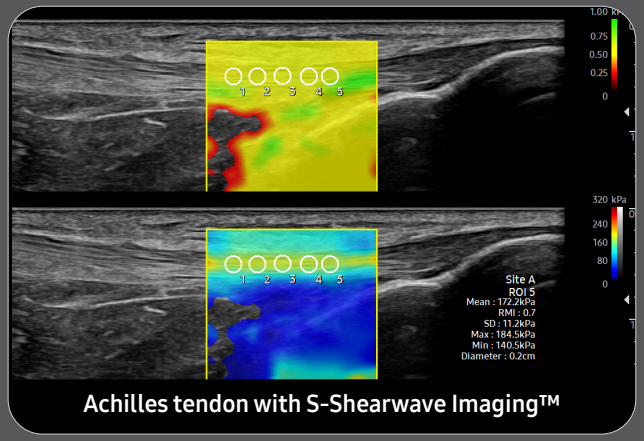


Breast with S-Shearwave Imaging™

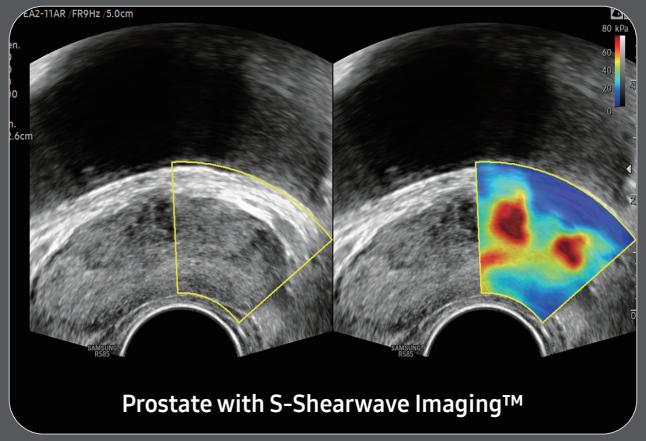


Breast color

Ulnar nerve with HQ-Vision™



Achilles tendon with S-Shearwave Imaging™



Prostate with S-Shearwave Imaging™

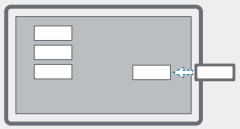
Ankle

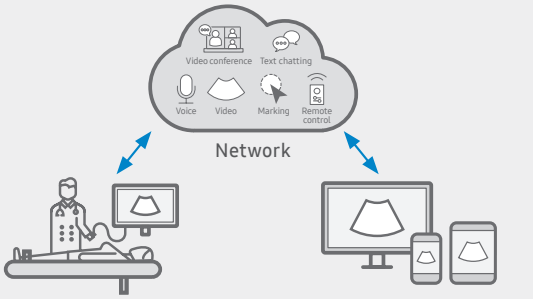
Enhanced productivity and facilitated workflow

Collaborative solution and streamlined workflow of the RS85 *Prestige* will support your daily procedures by reducing keystrokes and by combining multiple actions into one.

Customize frequently used functions

Touch Customization allows the user to move frequently used functions to the first page, keeping the focus on the patient instead of the system.





Real-time image sharing, discussion, and remote control of ultrasoundsystem

SonoSync™ [1, 3] is a real-time image sharing solution that allows collaborative communication for care guide and training between sonographers and doctors. In addition, voice chatting and real-time marking function are provided for efficient communication, and the MultiVue function is included to monitor multiple ultrasound images on a single screen.

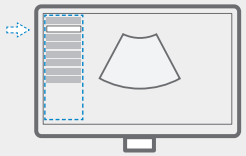
* SonoSync™ is an image sharing solution, not a diagnostic solution.

Automatic transducer setting tool based on the worklist

EzPrep™ is a function that automatically selects the transducer based on the worklist inputted in the ultrasound system and sets the Preset of the selected transducer.

Build predefined protocols to ensure every step is followed every time

EzExam+™ [1] ensures the full investigation is performed, eliminating the risk of forgetting an image or loop capture, as well as measurement and transducer preset changes.



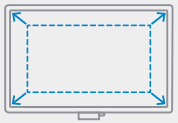
Select transducer and preset combinations in one click

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

Access directly to RIS from the system

Access 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.



27-inch OLED monitor [1, 4]

It is convenient to see images in various scanning environments by applying a 27-inch OLED monitor. OLED realistically represents the black color, suitable for diverse ultrasound image characteristics with a black background.

* OLED: Organic Light Emitting Diode

WideScreen

WideScreen provides approximately 23% more lateral viewing information compared to normal screen, allowing ultrasonic examination with wider view at a glance.

Central Lock

A single pedal controls a central lock mechanism to conveniently secure the console in place. This results in more efficient movements while the user is performing scanning procedures.

14 inch Tilting Touch Screen

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

6 way Control Panel

The 6 way adjustable control panel optimizes your work environment to reduce repetitive motions stress. When it's in off-mode, the control panel returns to the home position, allowing for easier and enhanced mobility.

Maneuverable Wheel

4 swivel wheels allow easy steering, and a locking function.

Comprehensive selection of transducers

Curved array transducers

CA1-7S *
Abdomen, obstetrics, gynecology, pediatric, vascular, musculoskeletal

CA1-7A
Abdomen, obstetrics, gynecology, pediatric, vascular, musculoskeletal

CA3-10A
Abdomen, obstetrics, gynecology, pediatric, vascular, musculoskeletal

CA2-8A
Abdomen, obstetrics, gynecology

CA4-10M *
Pediatric, vascular

Linear array transducers

L3-22
Small parts, vascular, musculoskeletal, pediatric

LM2-18
Small parts, vascular, musculoskeletal, abdomen, pediatric

LA2-14A
Small parts, vascular, musculoskeletal, abdomen

LA2-9S *
Small parts, vascular, musculoskeletal, abdomen

LA2-9A
Small parts, vascular, musculoskeletal, abdomen

LA3-16A
Small parts, vascular, musculoskeletal

LA4-18A *
Small parts, vascular, musculoskeletal, abdomen

L3-12A
Small parts, vascular, musculoskeletal, abdomen

LM4-15B
Small parts, vascular, musculoskeletal, abdomen

LA3-16AI
Musculoskeletal, intraoperative

LA3-22AI
Small parts, vascular, musculoskeletal, pediatric, intraoperative

Volume transducers

CV1-8A
Abdomen, obstetrics, gynecology

EV3-10B
Obstetrics, gynecology, urology

EV2-10A *
Obstetrics, gynecology, urology

Phased array transducers

PA1-5A *
Cardiac, TCD, abdomen

PA3-8B
Cardiac, pediatric, abdomen

PA4-12B
Cardiac, pediatric

PM1-6A
Cardiac, TCD, abdomen

CW transducers

CW6.0
Cardiac, vascular

DP2B
Cardiac

TEE transducer

MMPT3-7
Cardiac

Endocavity transducers

miniER7 *
Obstetrics, gynecology, urology

EA2-11AR *
Urology, obstetrics, gynecology

EA2-11AV *
Obstetrics, gynecology, urology

EA2-11B
Obstetrics, gynecology, urology

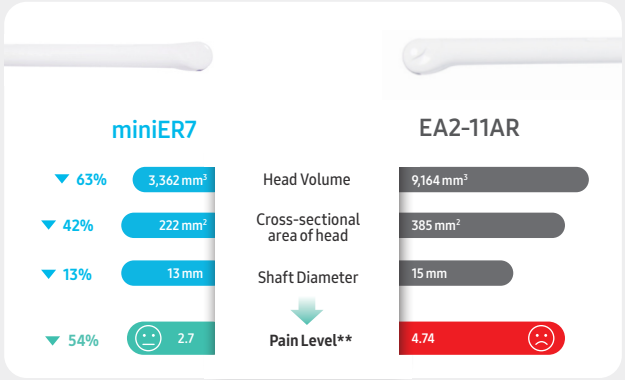
*** Ergonomic Transducer**
These transducers have a newly designed ergonomic hand-grip and better weight distribution for comfortable scanning.

Cleaning and disinfection guide

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 EA2-11AR
** Based on internal exam



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. Samsung's Cybersecurity Solution strives to abide by the CIA triad (Confidentiality, Integrity, and Availability) and takes a comprehensive approach to providing impeccable protection with the following pillars: Intrusion prevention, Access control, and Data protection

Learn more

Intrusion prevention

Access control

Data protection

About Samsung Medison CO., LTD.

Samsung Medison, an affiliate of Samsung Electronics, is a global medical equipment 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.

Visit
samsunghealthcare.com

* The products, 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.
* S-Vue Transducer™ is not the name of a function, but is the name of Samsung's advanced transducer technology.
* Strain value for ElastoScan+™ is not applicable in Canada and the United States.
* This product is a medical device, please read the user manual carefully before use.
* Prestige is not a product name but is a marketing terminology.

1. Optional feature which may require additional purchase.
2. In the United States, only shape and orientation items for S-Detect™ are automatically provided.
   Also the recommendations about whether results are benign or malignant in S-Detect™ are not applicable.
3. SonoSync™ is an image sharing solution.
4. The size of the monitor without this option is 23.8 inch.

CT-RS85 Prestige-V2.09-250625-EN

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