

## Secure your care

Samsung Healthcare Cybersecurity

### Bringing peace of mind to your hospital and patients

To address this 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.



#### Intrusion prevention

Tools for protecting against cyber threats from external attacks

- Security tools include Anti-virus & Firewall
- Secured operating system



#### Access control

Strengthened surveillance for tracking the access of patient information

- Account management
- Enhanced audit trail



#### Data protection

Encryption functions for safeguarding data whether at-rest or in-transit

- Data protection
- Transmission security

\* 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.

\* Beyond Experience™ is not the name of a function, but is Samsung's marketing terminology.

\* S-Vision™ is the name of Samsung's ultrasound imaging technology.

\* S-Vue™ is not the name of a function, but is the name of Samsung's advanced transducer technology.

\* S-Detect™ for Breast and S-Detect™ for Thyroid are not available in Canada.

\* Strain value for ElastoScan+™ is not applicable in Canada and the United States.

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.

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CE0123

# Empowering Professionals

## Ultrasound System RS85



CT-RS85 V1.03\_Eda\_200122-EN

Scan code or visit  
[www.samsunghealthcare.com](http://www.samsunghealthcare.com)  
to learn more



EXPERIENCE  
A New Healthcare  
Solution

SAMSUNG



# A New and Outstanding Experience in Diagnosis

Beyond Experience, an integrated solution engineered to offer medical professionals a new and outstanding experience in diagnosis, delivers enriched views, advanced intelligence, streamlined workflow, and patient-centered care.

RS85 is Samsung's premium ultrasound system that adopted the integrated solution. Built with exquisite image quality and expert tools, it empowers professionals to make faster and more confident decisions.



Ultrasound System **RS85**

## BEYOND EXPERIENCE™

Samsung's commitment to supporting confident decision making

Enriched View



Advanced Intelligence



BEYOND EXPERIENCE™



Streamlined Workflow

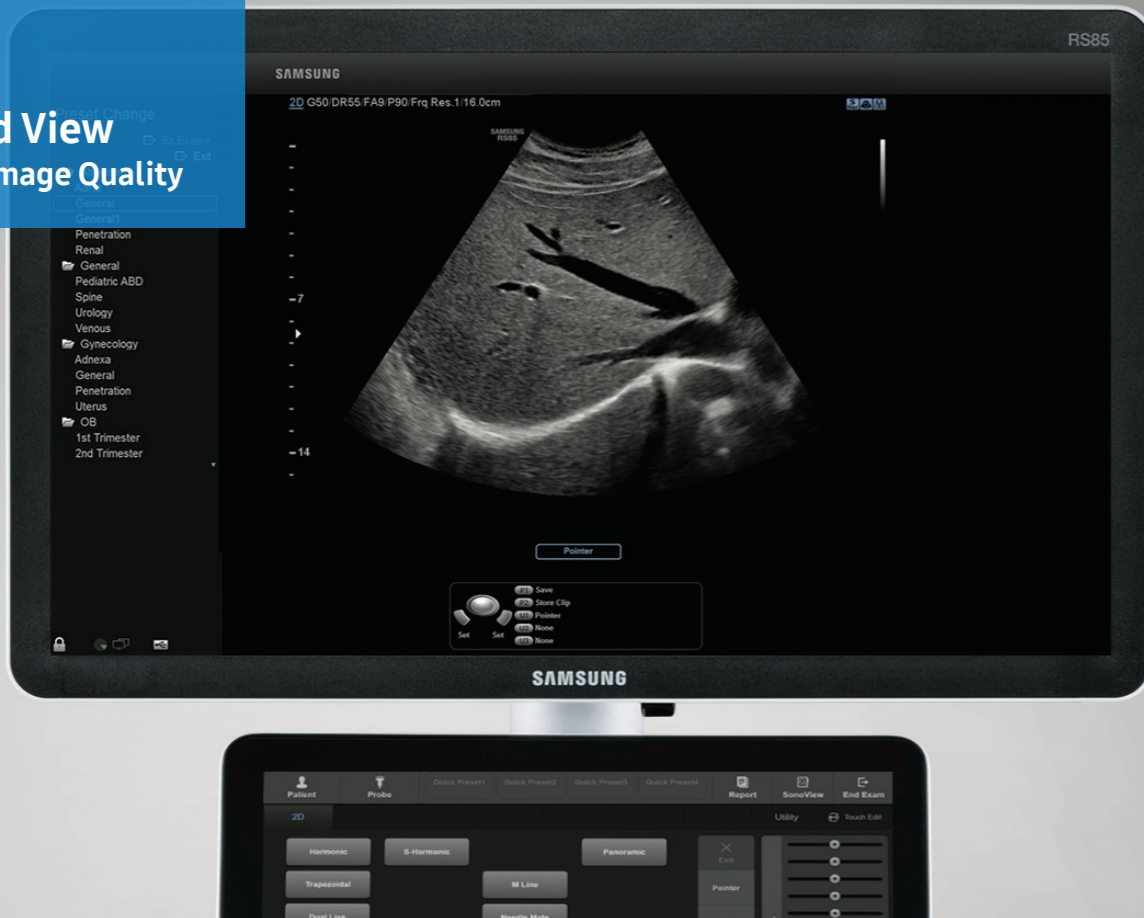
Patient-centered Care





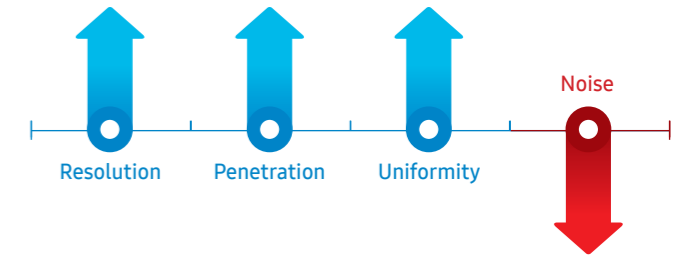


## Enriched View Exquisite Image Quality



### S-Vision™ Imaging Engine

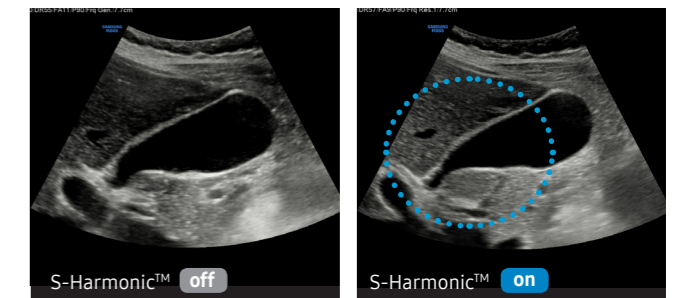
With the S-Vision™ imaging engine built into RS85, the digital signals produce clear, detailed resolution and tissue uniformity for various types of applications in general imaging.



\* The image above is for illustrational purposes only and might differ from the actual performance of the device.

### 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 RS85 image quality one step further.



Gallbladder

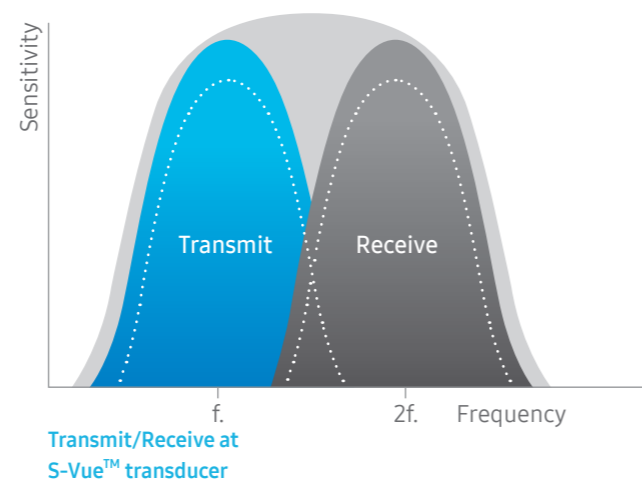
# Improved Diagnostic Confidence

Samsung's image enhancing and artifact suppressing technologies and S-Vue™ transducers together provide clear, detailed imaging that you can count on to help improve diagnostic confidence and imaging continuity.

### S-Vue™ Transducers

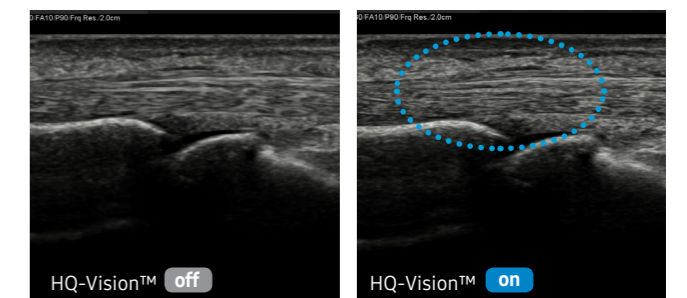
S-Vue™ transducers provide more efficient piezoelectric properties, resulting in wider bandwidths that enable better penetration and higher quality resolution on even challenging patients.

\* Compared with the conventional Samsung transducers.  
\* The image is for illustrational purposes only and might differ from the actual performance of the device.



### HQ-Vision™

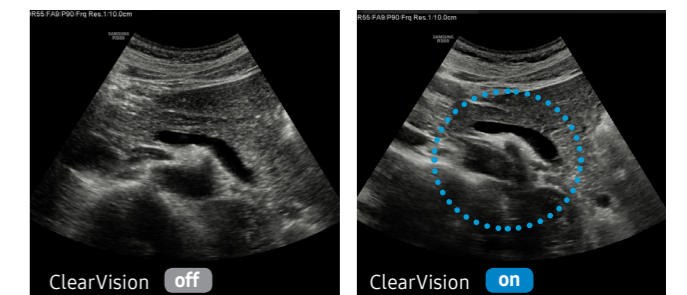
The physical phenomenon of blurring in ultrasound images can be mathematically modeled and corrected. Samsung's HQ-Vision™, a new, fast algorithm that fixes blurring in real time, helps users to get a high resolution image and detect clinically important details.



Finger

### 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.



Pancreas





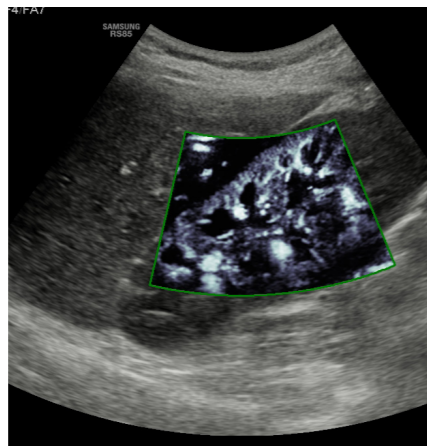
Enriched View  
Expert Tools

## More Valuable Information

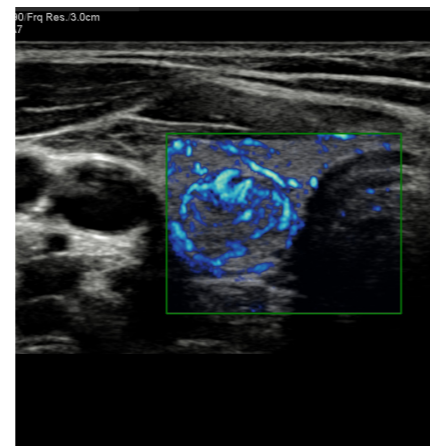
Expert tools offer new perspectives and provide additional information for confident decision making.

### MV-Flow™

MV-Flow™ offers a novel alternative to power Doppler for visualizing slow flow microvascularized structures. High frame rates and advanced filtering enable MV-Flow™ to provide a detailed view of blood flow in relation to surrounding tissue or pathology with enhanced spatial resolution and temporal resolution.



Kidney



Thyroid

### CEUS+

CEUS+ technology uses the unique properties of ultrasound contrast agents. When stimulated with low acoustic pressure, the oscillating microbubbles reflect both fundamental and harmonic frequency signals. In addition, Samsung's technologies, VesselMax™ and FlowMax™, provide a clear visualization of vessels and blood flow for a more informed and confident diagnosis.

### 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.

#### S-Fusion™ for Prostate

S-Fusion™ for Prostate allows precise targeting during prostate biopsies. Based on 3D models created with MR data sets, S-Fusion™ for Prostate provides biopsy guidance to help safely navigate and target the prostate.



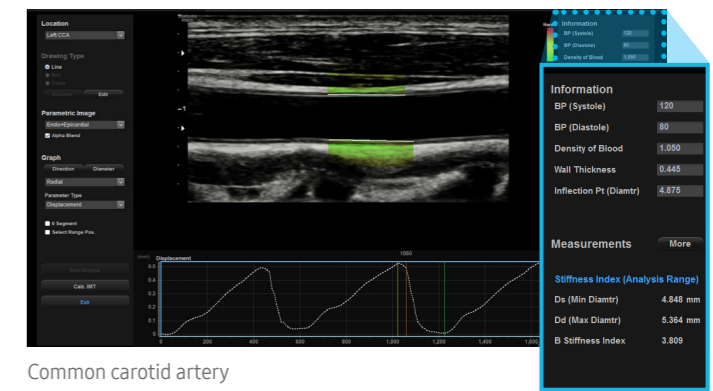


Advanced Intelligence



### ArterialAnalysis™

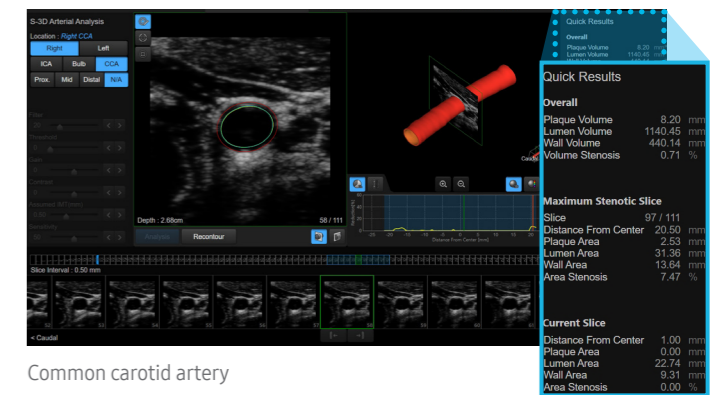
ArterialAnalysis™ detects functional changes of vessels, providing measurement values such as the stiffness, intima-media thickness and pulse wave velocity of the common carotid artery. Since the functional changes occur before morphological changes, this technology supports the early detection of cardiovascular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



Common carotid artery

### S-3D ArterialAnalysis™

S-3D ArterialAnalysis™ simplifies volume measurement of arterial plaque, providing 3D vessel modeling. With Samsung's S-3D ArterialAnalysis™, obtaining information on the arterial plaque volume is surprisingly fast and easy even on difficult patients. In addition, it allows you to track the morphological changes of the artery.



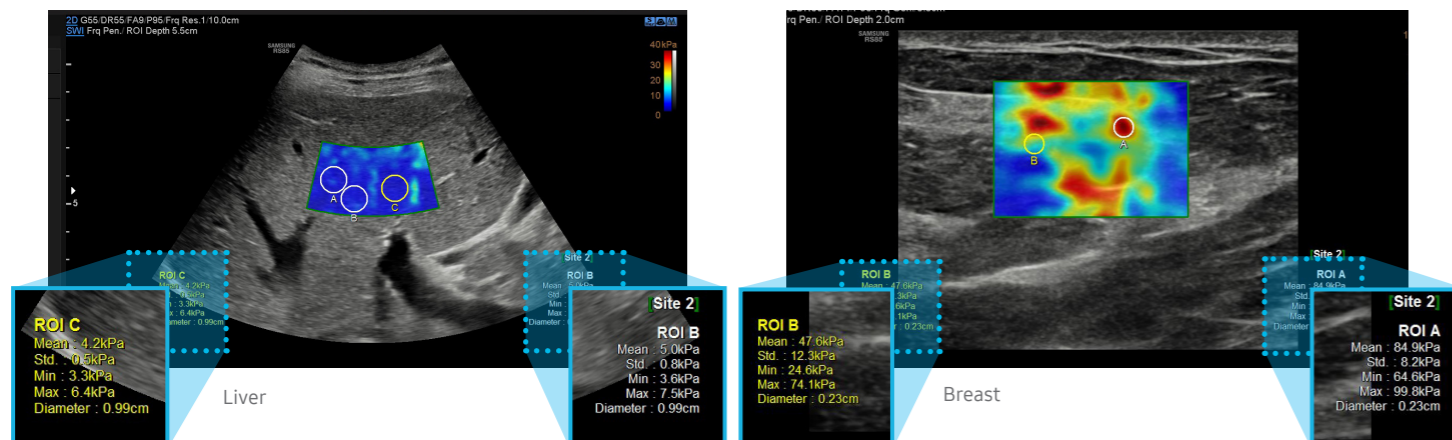
Common carotid artery

## Increased Consistency

With its advanced intelligent solutions, including an extensive range of quantification functions, RS85 provides measurement consistency while reducing variability between users.

### S-Shearwave Imaging™

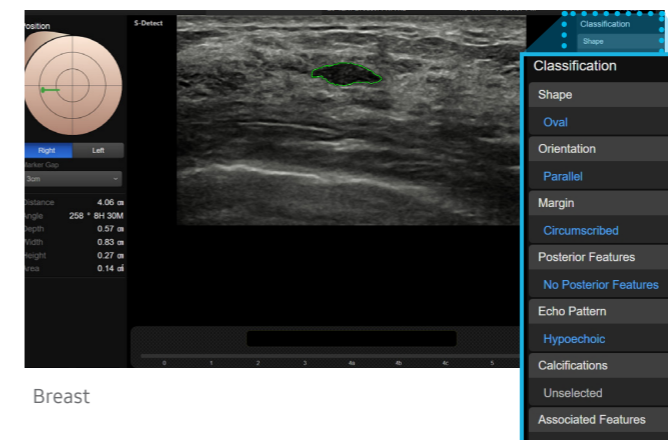
S-Shearwave Imaging™ allows for non-invasive assessment of the stiffness of tissue/lesions in the breast and liver, by providing an advanced level of diagnostic information. The color-coded elastogram, quantitative measurements (in kPa or m/s), dual or single display option, and user-selectable ROI (position and size) functions are especially useful for the accurate diagnosis of breast and liver diseases.



### S-Detect™ for Breast

S-Detect™ for Breast helps standardize reporting and classification of suspicious breast lesions by incorporating BIRADS ® ATLAS\* (Breast Imaging-Reporting and Data System, Atlas) into the tool. When the user selects a region of interest, S-Detect™ for Breast automatically defines the lesion boundaries, provides lexicon classification options, and images export for an enhanced and streamlined workflow.

\*Registered trademark of the American College of Radiology. All rights reserved.

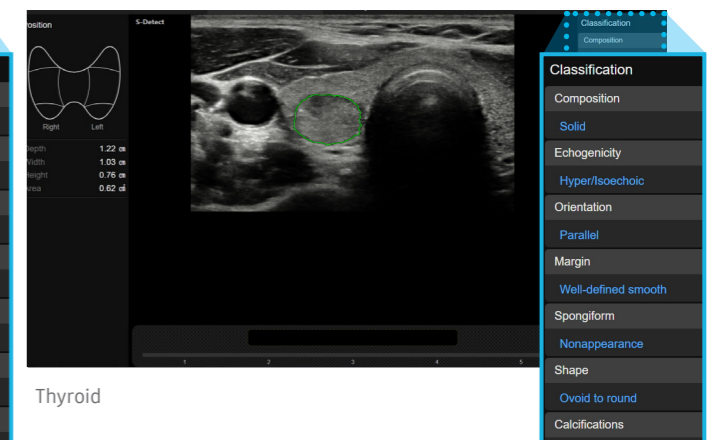


Breast

### S-Detect™ for Thyroid

S-Detect™ for Thyroid uses the advanced technology based on K-TIRADS, RUSS and ATA guideline\* in detecting and classifying suspicious thyroid lesions semi-automatically. This technology helps you diagnose your patients with confidence and ease, providing accurate, consistent results and an automatic reporting feature.

\* K-TIRADS: Korean-Thyroid Imaging Reporting and Data System  
RUSS: Russ' TIRADS  
ATA: American Thyroid Association



Thyroid



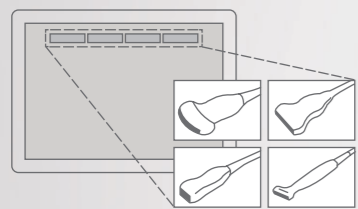


# Enhanced Efficiency

The RS85 has been designed to streamline your workflow by enhancing efficiency through reducing keystrokes and by combining multiple actions into one.

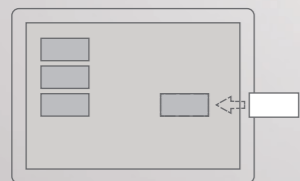
## QuickPreset

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



## Touch Customization

Samsung has made a customizable touchscreen interface that allows the user to move frequently used functions to the first page, keeping the focus on the patient instead of the system.



## 6-way Control Panel

The RS85's 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.



## 13.3-inch Tilting Touch Screen

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



## Gel Warmer

Samsung's two-level adjustable gel warmer keeps ultrasound gel at a comfortable temperature.



## 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.



## Maneuverable Wheel

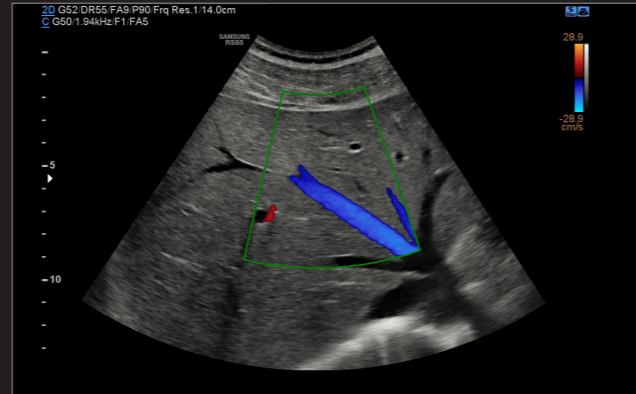
4 swivel wheels allow easy steering, and a locking function.



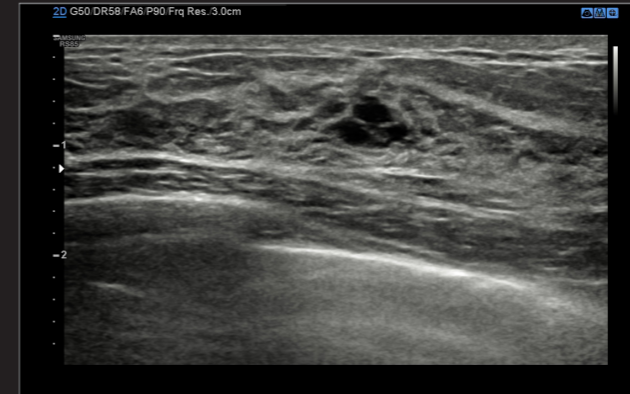




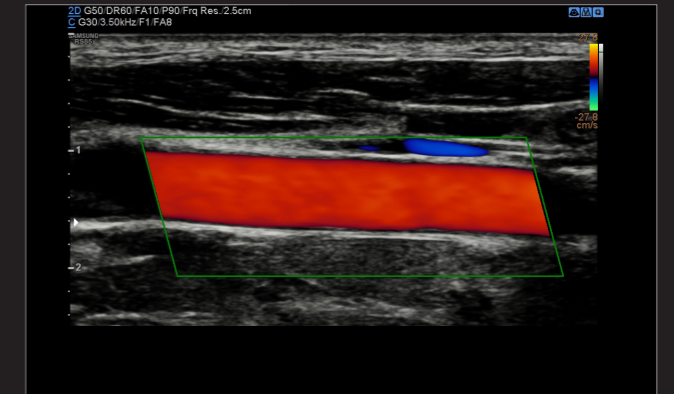
Bowel



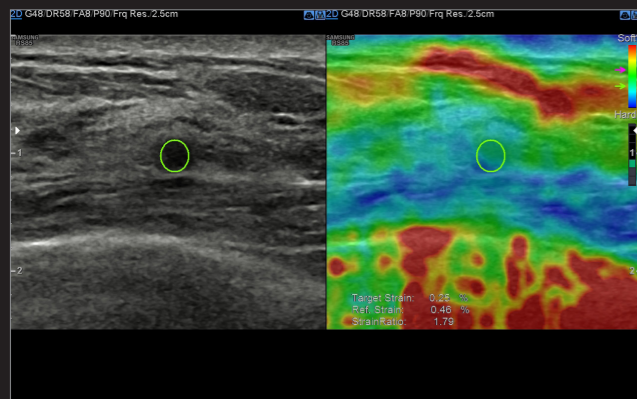
Liver



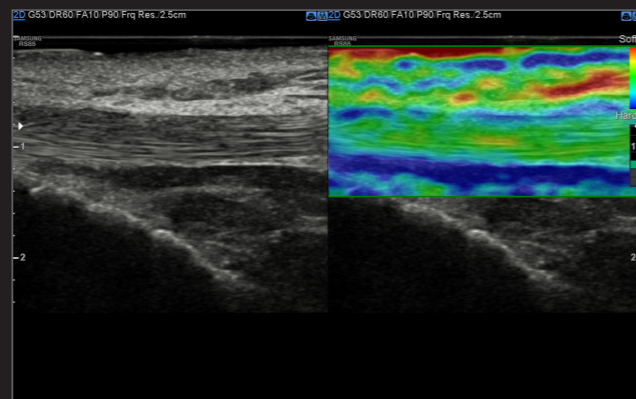
Breast mass



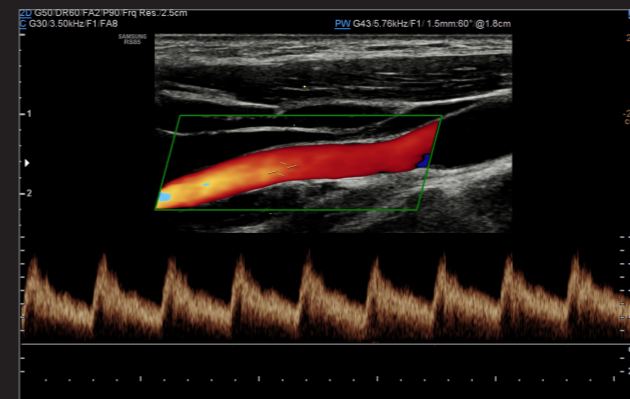
Common carotid artery



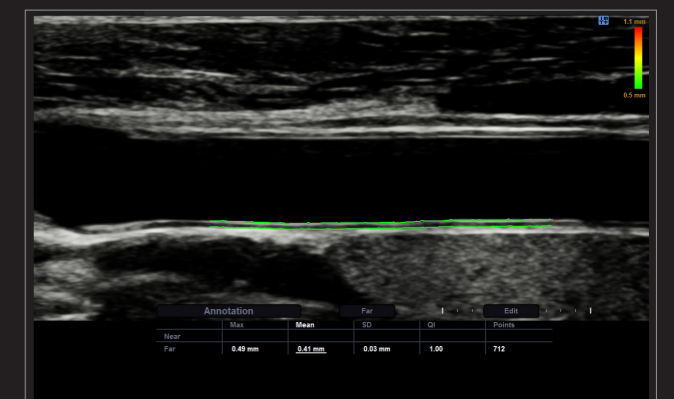
E-Breast™



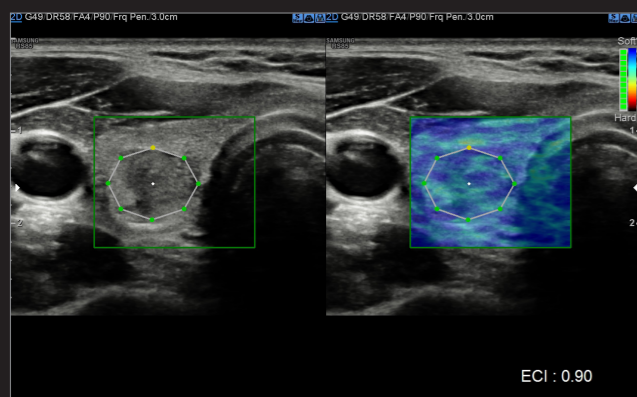
Patellar tendon in ElastoScan+™



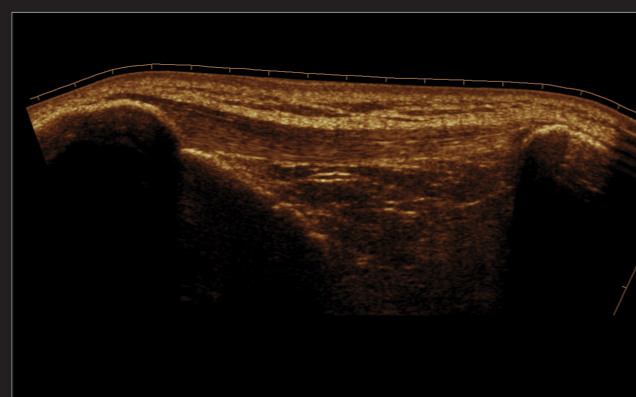
Internal carotid artery



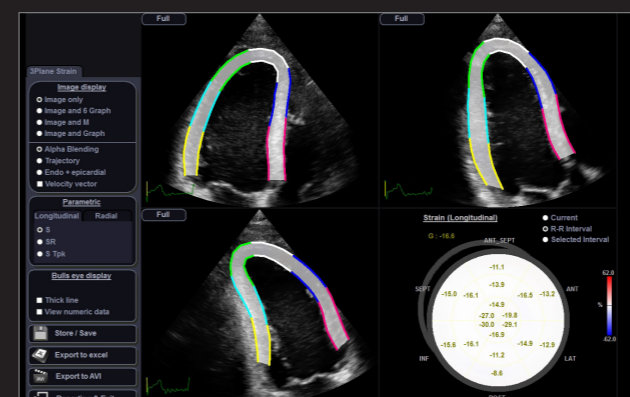
Auto IMT+



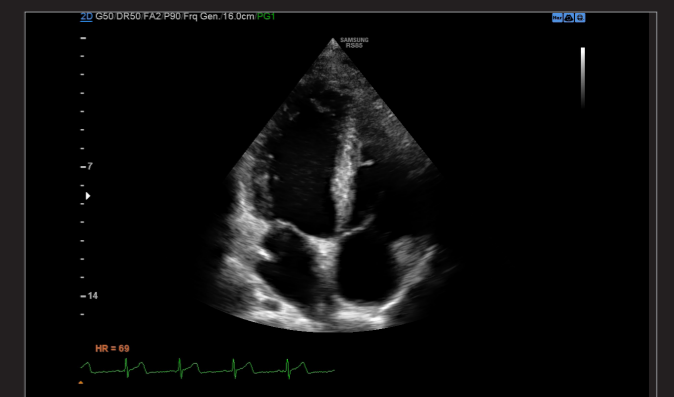
E-Thyroid™



Patellar tendon in Panoramic



Strain+



4 Chamber



# Comprehensive Selection of Transducers

## S-Vue™ transducers

### Curved array transducers



Application: abdomen, obstetrics, gynecology



Application: abdomen, obstetrics, gynecology, contrast

### Volume transducer



Application: abdomen, obstetrics, gynecology

### Linear array transducers



Application: small parts, vascular, musculoskeletal



Application: small parts, vascular, musculoskeletal



Application: small parts, vascular, musculoskeletal



Application: small parts, vascular, musculoskeletal



Application: small parts, vascular, musculoskeletal, abdomen



Application: musculoskeletal

### Curved array transducers



Application: abdomen, obstetrics, gynecology



Application: pediatric, vascular

### Endo-cavity transducer



Application: obstetrics, gynecology, urology

### Volume transducers



Application: musculoskeletal, small parts, vascular



Application: obstetrics, gynecology, urology



Application: obstetrics, gynecology, urology

### Phased array transducers



Application: cardiac, TCD, abdomen



Application: cardiac, pediatric, abdomen



Application: cardiac, pediatric

### CW transducers



Application: cardiac



Application: cardiac



Application: cardiac

### TEE transducer



Application: cardiac

\* Some of the transducers may not be available in some countries.