



## RS85

The **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. Building upon the successes of Samsung technologies, this system offers superior image quality while offering exclusive features that provide user convenience in the most challenging situations.

# BEYOND EXPERIENCE™

Samsung's commitment to supporting confident decision making

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.



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Enriched View  
Exquisite Image Quality

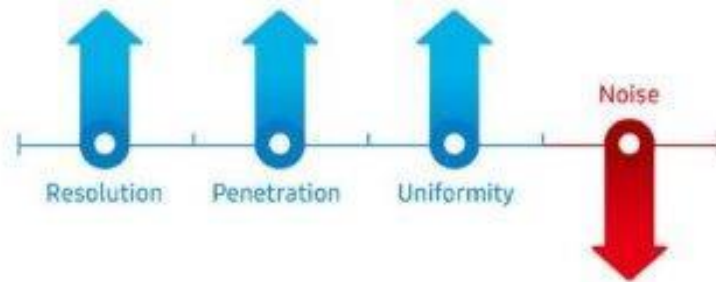
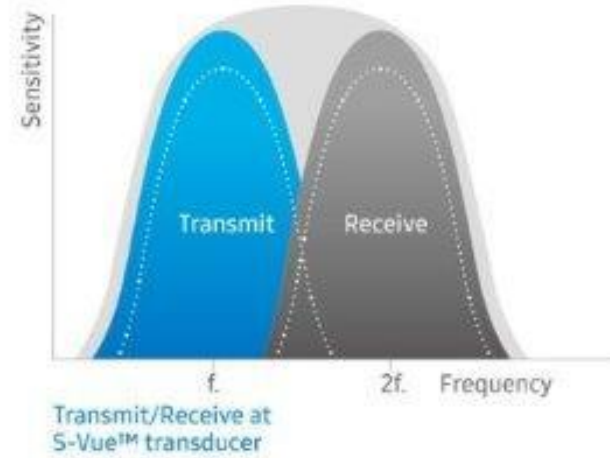
## Improved Diagnostic Confidence

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.



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

### 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.

### 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

### HQ Vision™

HQ Vision™ is a new, advanced technology for visualizing anatomical structures. With improved image clarity, this feature helps make a reliable diagnosis quickly.



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 Color 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 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*

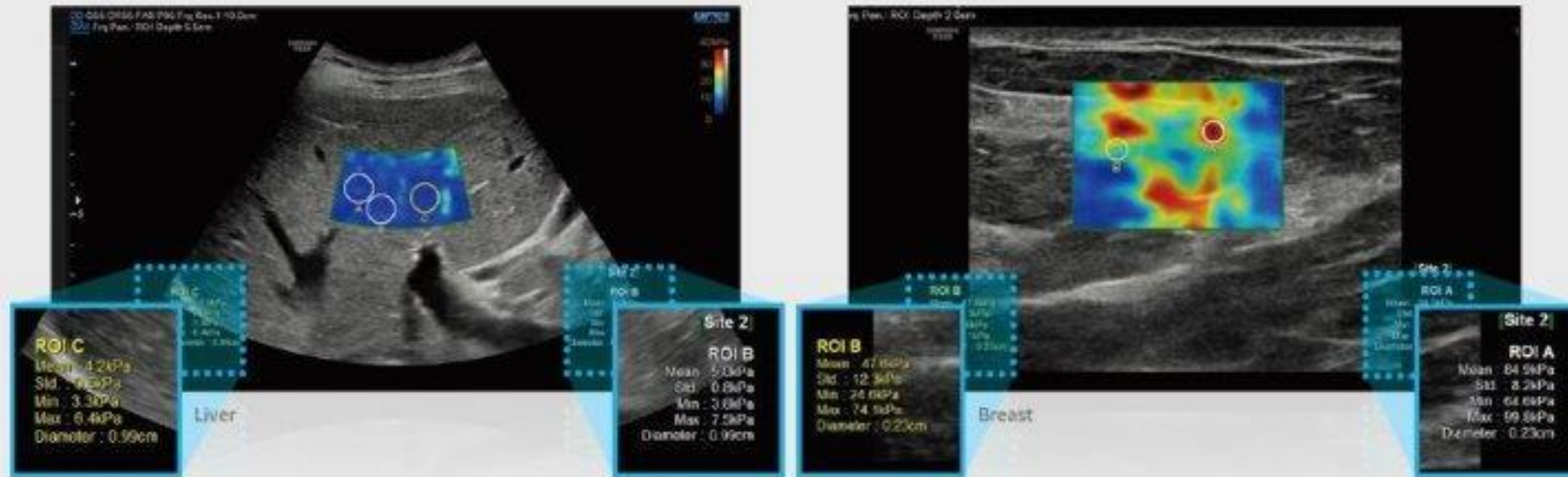
S-Fusion™ for Prostate allows precise targeting during prostate biopsies. Based on 3D models created with MR data sets, S-Fusion™ for Prostate provides biopsy guidance to help safely navigate and target the prostate.



Advanced  
Intelligence

# Increased Consistency

With its advanced intelligent solutions, including an extensive range of quantification functions, R585 provides measurement consistency while reducing variability between users.

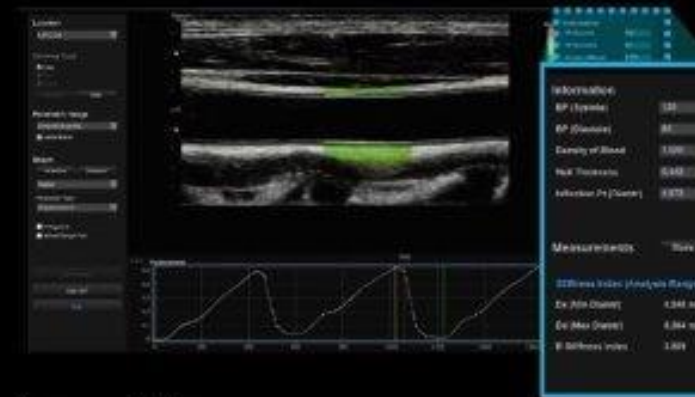


## S-Shearwave Imaging™

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.

## Arterial Analysis™

Arterial Analysis™ 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



Common carotid artery

## S-3D Arterial Analysis™

S-3D Arterial Analysis™ simplifies volume measurement of arterial plaque, providing 3D vessel modeling. With Samsung's S-3D Arterial Analysis™, 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.

### 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 state-of-the art 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





## 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.

\* Only shape and Orientation descriptors are automatically classified in the United States.



Breast

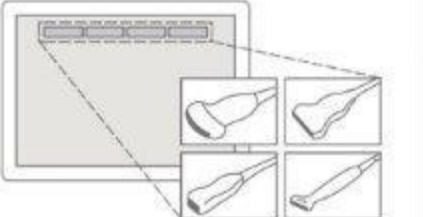


# Enhanced Efficiency

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

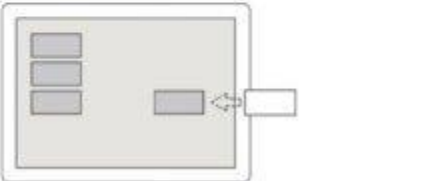
**Quick Preset**

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.

A diagram showing a tablet screen with a list of preset options. A callout box highlights four specific preset icons, each showing a different transducer and its corresponding preset settings.

**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.

A diagram of a touchscreen interface with several rectangular buttons. A callout box shows a button being moved from its original position to a new position on the screen, illustrating the customization feature.

**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.



#### 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.



#### Gel Warmer

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



#### Maneuverable Wheel

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

# Secure Your Care

## Samsung Healthcare Cybersecurity

### Intrusion Prevention



Tools for protecting against cyber threats  
from external attacks

### Access Control



Strengthened surveillance for tracking  
the access of patient information

### Data protection



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

# Comprehensive Selection of Transducers

## S-Vue™ transducers

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### 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

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## Volume transducers

LV3-14A



Application: musculoskeletal,  
small parts, vascular

V5-9



Application: obstetrics,  
gynecology, urology

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## Endo-cavity transducer

E3-12A



Application: obstetrics,  
gynecology, urology

## Curved array transducers



Application: abdomen, obstetrics,  
gynecology



Application: pediatric, vascular



## Phased array transducers



Application: cardiac, TCD,  
abdomen



Application: cardiac, pediatric,  
abdomen



Application: cardiac, pediatric

## CW transducers

CW6.0



Application: cardiac

DP8B



Application: cardiac

DP2B



Application: cardiac

## TEE transducer

MMPT3-7



Application: cardiac