# 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

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.

* 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.
* S-Vue Transducer™ 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.
* Recommendations about whether results are benign or malignant in S-Detect™ are not applicable in 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.

CT-RS85 Prestige-EDA-211224-EN



CE 0123

# RS85 Prestige

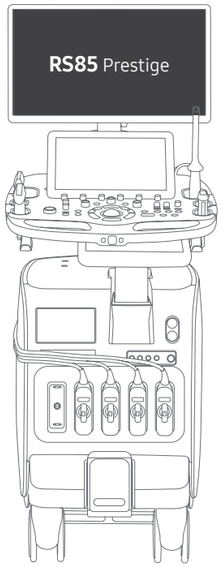
## THE REAL REVOLUTION


SAMSUNG

# 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.

Scan here to watch the revolution
RS85 Prestige product video

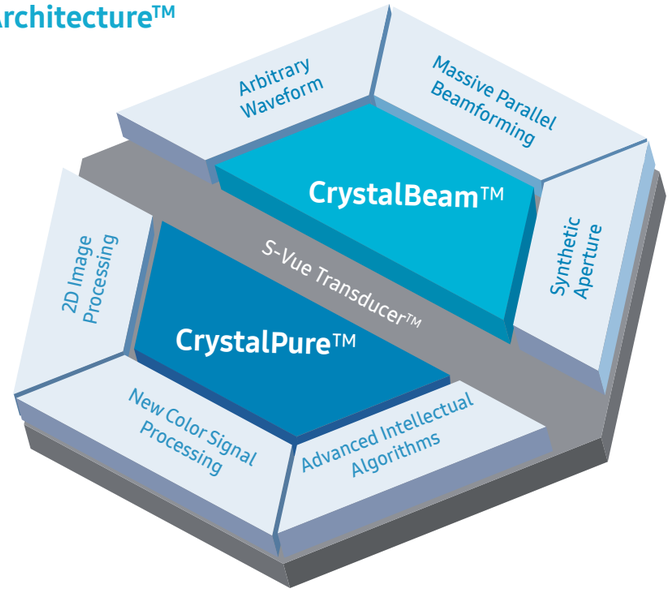

## Amplified Imaging Technology Powered by Crystal Architecture™

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™




**X4** **Data Transfer Rate** for fast frame rates*

**X4** **Processing Power** for high quality image*

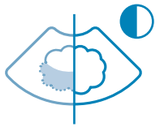
**X2** **GPU Memory** for fast rendering speed*

* Compared to the Samsung RS85 V1.0

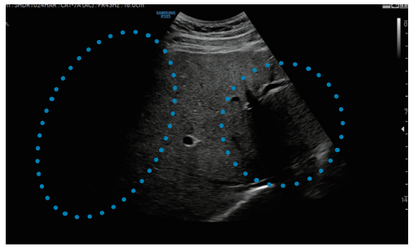
# Sophisticated 2D & Color Images Processed by CrystalPure™


CrystalPure™ imaging engine help 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.

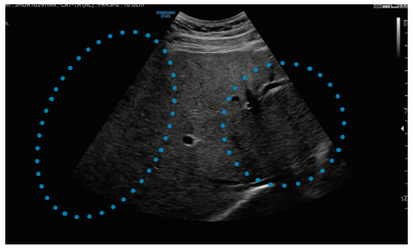
## ShadowHDR™



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



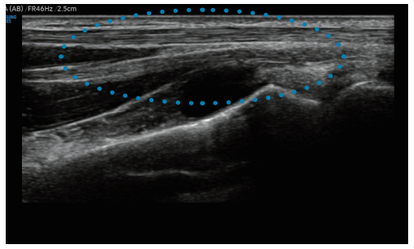
Liver without ShadowHDR™



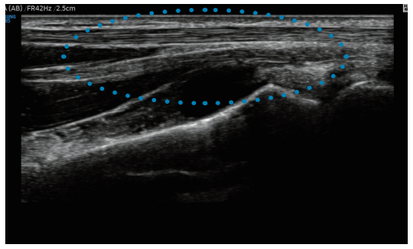
Liver with ShadowHDR™

## HQ-Vision™

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



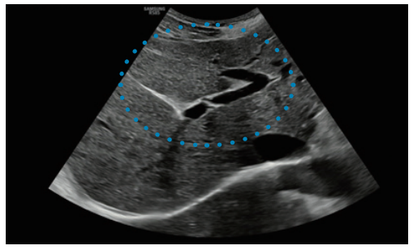
Wrist without HQ-Vision™



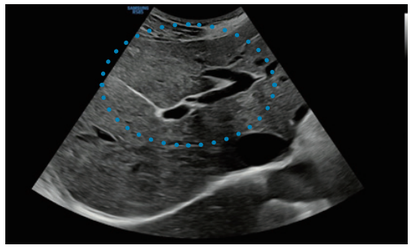
Wrist with HQ-Vision™

## PureVision™

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.



Liver without PureVision™



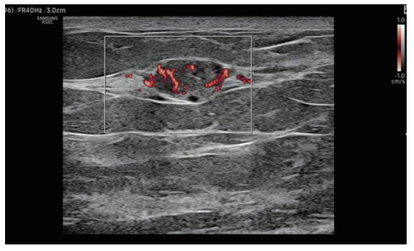
Liver with PureVision™



## MV-Flow™ *

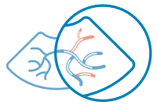
MV-Flow™ visualizes microcirculatory and slow blood flow to display the intensity in color. It is suitable for observation of microcirculatory and volume of slow blood flow.

Kidney with MV-Flow™

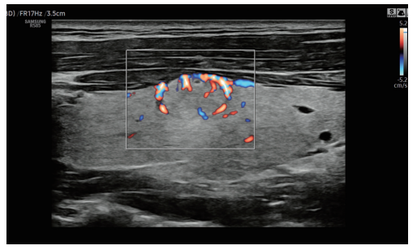


Breast with MV-Flow™

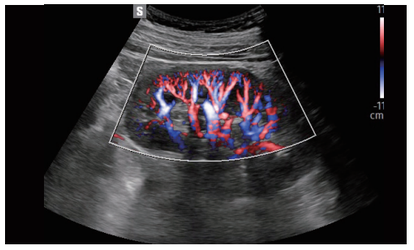
## S-Flow™



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.



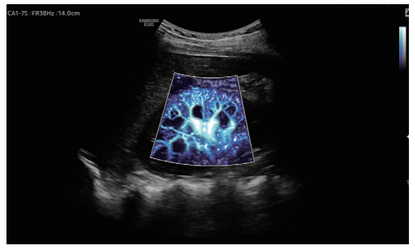
Thyroid nodule with S-Flow™



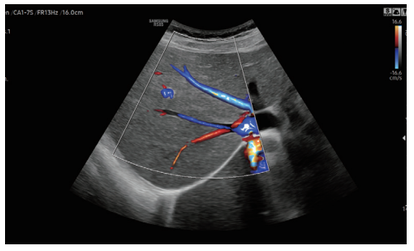
Kidney with S-Flow™

## LumiFlow™ *

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



Kidney (MV-Flow™ with LumiFlow™)



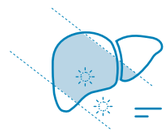
Liver (S-Flow™ with LumiFlow™)

* Optional Extra

# Advanced Intelligence for Reliable Assessment

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

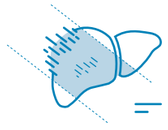
## EzHRI™ *



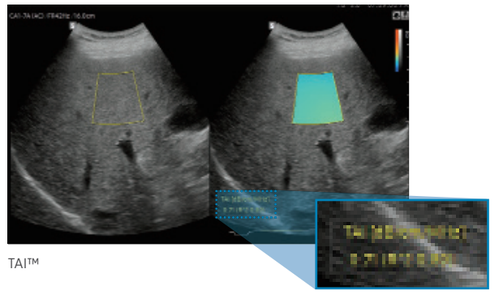
HRI (Hepato Renal Index) is an index to quantify steatosis of a liver by comparing echogenicity between liver parenchyma and renal cortex. EzHRI™ places 2 ROIs on the liver parenchyma and renal cortex and provides HRI ratio.

EzHRI™

## TAI™ *

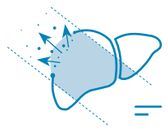


TAI™ (Tissue Attenuation Imaging) provides quantitative tissue attenuation measurement to assess steatotic liver changes.

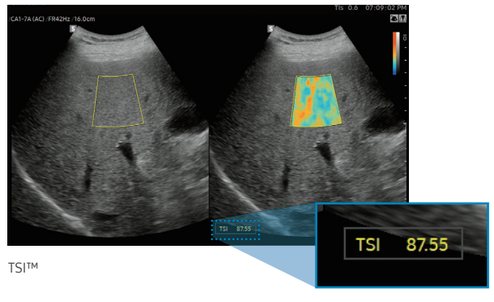


TAI™

## TSI™ *



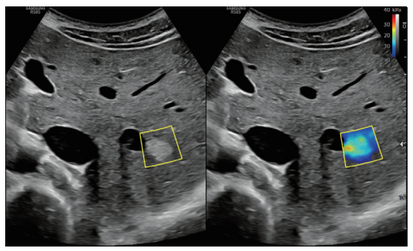
TSI™ (Tissue Scatter distribution Imaging) provides quantitative tissue scatter distribution measurement to assess steatotic liver changes.



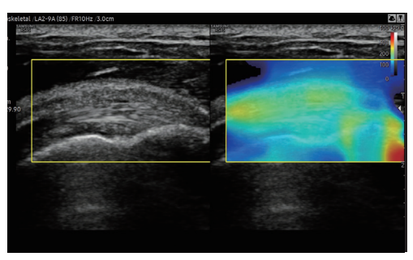

TSI™

## S-Shearwave Imaging™ *

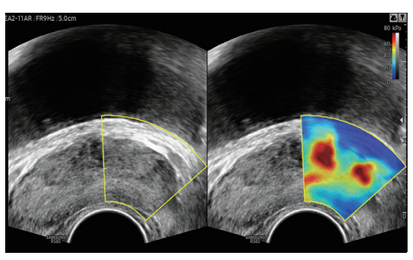
S-Shearwave Imaging™ allows for non-invasive assessment of the stiffness of tissue/lesions in various applications such as breast, liver, MSK and prostate. The color-coded elastogram, quantitative measurements, dual or single display option, and user-selectable ROI functions are especially useful for the accurate diagnosis of breast and liver diseases.



Liver with S-Shearwave Imaging™



Supraspinatus tendon with S-Shearwave Imaging™



Prostate with S-Shearwave Imaging™

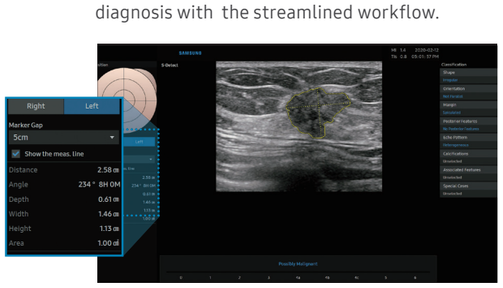
## S-Detect™ *

### S-Detect™ *for Breast*

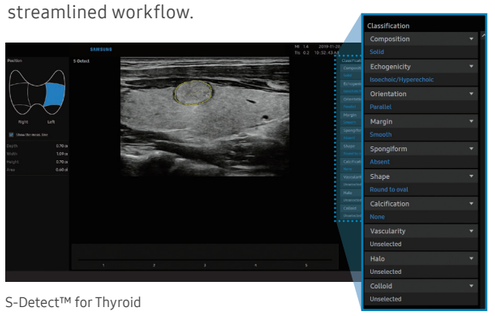
The feature, which analyzes selected lesions in the breast ultrasound study and shows the analysis data, applies **BI-RADS ATLAS*** (Breast Imaging-Reporting and Data System, Atlas) to provide standardized reporting; and helps diagnosis with the streamlined workflow.

### S-Detect™ *for Thyroid*

The feature, which 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.




S-Detect™ for Breast




S-Detect™ for Thyroid

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



* Optional Extra

# 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.

## CIVCO Verza biopsy guidance system *

Compatibility with Verza biopsy system offers a five-angle approach for improved anatomical access while also featuring an expanded gauge range.

## S-Tracking *

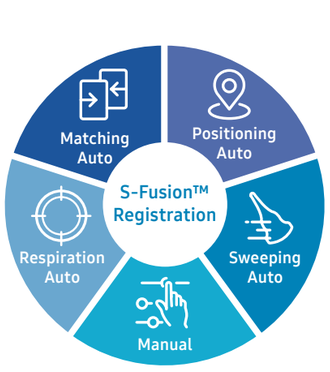
S-Tracking increases accuracy during interventional procedures by providing a simulated needle path and target mark within the live ultrasound image.


CIVCO Verza biopsy guidance system

## S-Fusion™ *

## S-Fusion™ *for Liver* *

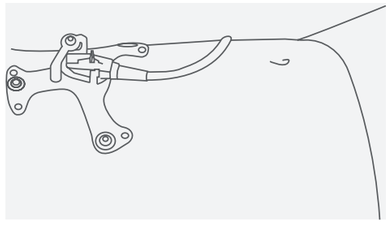
S-Fusion™ enables simultaneous localization of a lesion using real-time ultrasound in conjunction with other volumetric imaging modalities. Samsung's auto registration helps quickly and precisely fuse the images, increasing efficiency and reducing procedure time. S-Fusion™ enables precise targeting during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





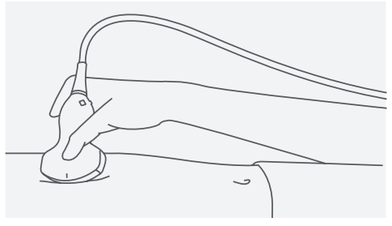
### Matching Auto

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



### Positioning Auto

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 patient scan.

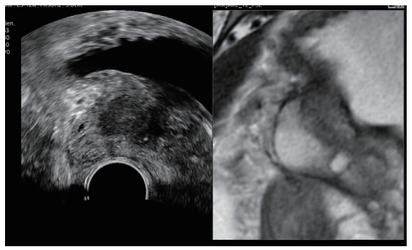


## S-Fusion™ *for Prostate* *

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.

### Auto Calibration

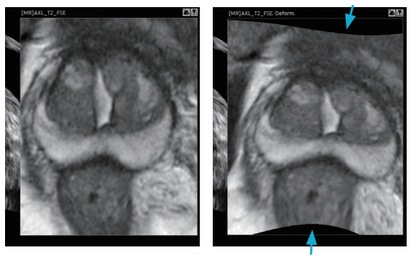
S-Fusion™ for Prostate supports an automatic and real-time calibrating function that helps you perform more accurate and reliable procedures.



Auto Calibration

### Deformation Correction

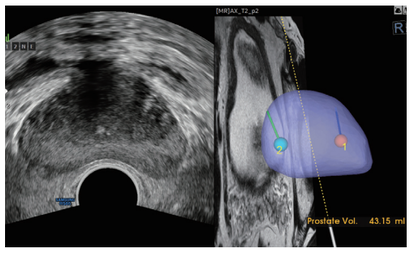
Real-time deformation Correction is a feature to improve the accuracy of registration with MR image by correcting deformed prostate shape when transducer is compressed during the procedure and it is useful for targeted biopsy procedure.



Original MR data | Deformation Correction

### 3D Modeling

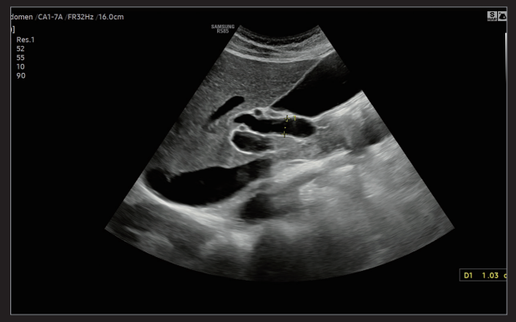
S-Fusion™ for Prostate allows safe navigation and precise targeting during prostate biopsies based on 3D models created from MR data sets, and also provides a function to report biopsy location.



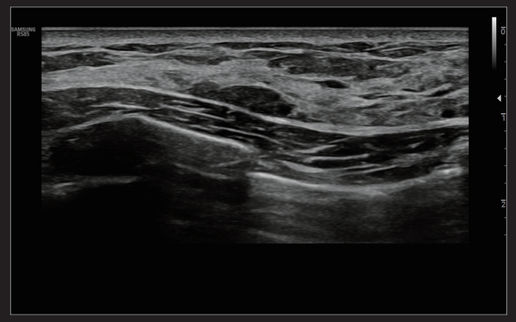

3D Modeling



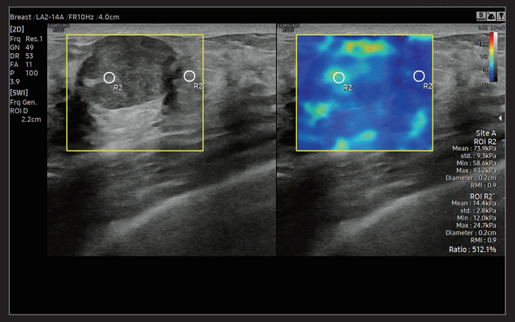
* Optional Extra



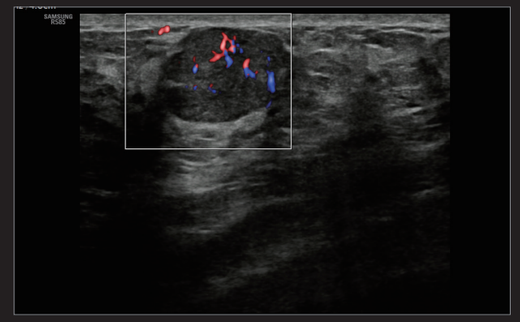
Liver with S-Harmonic™



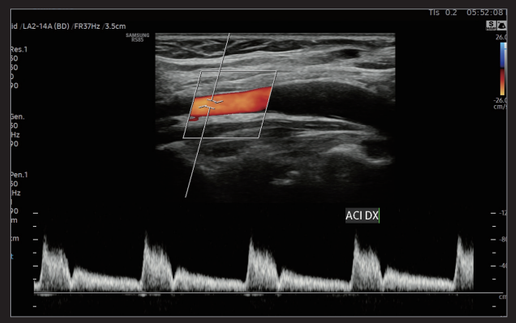
Breast with S-Harmonic™



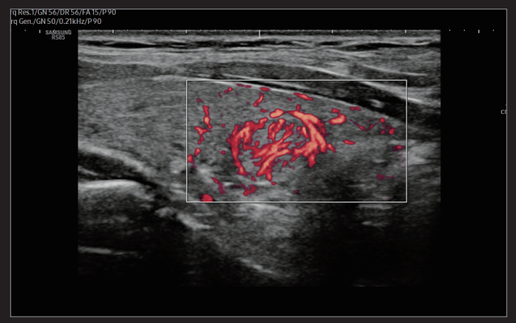

Breast with S-Shearwave Imaging™



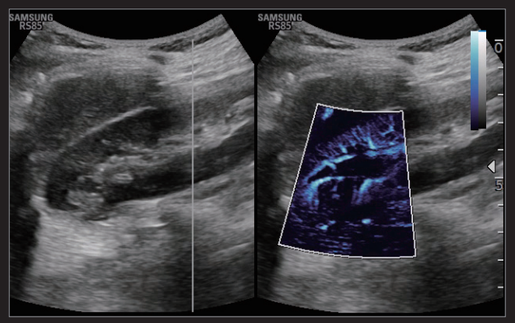
Breast color



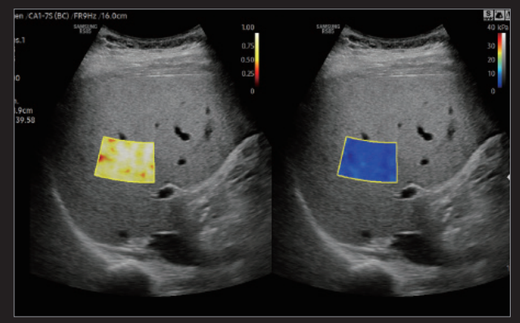

CCA with PW



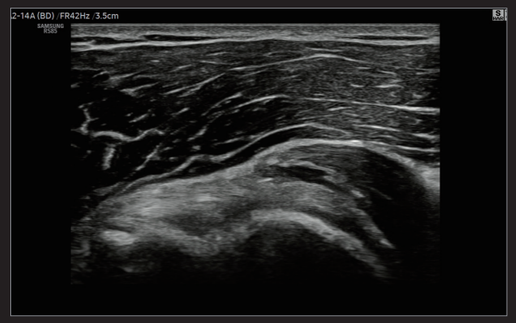
Thyroid with MV-Flow™



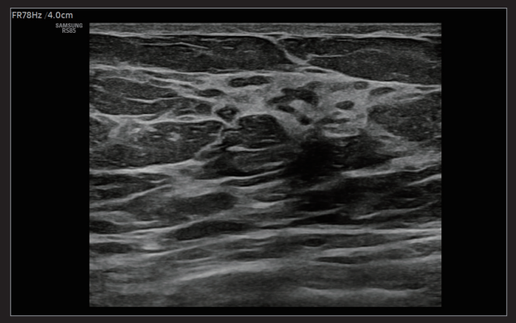
Kidney with MV-Flow™



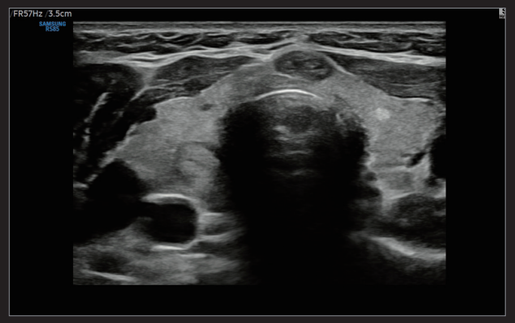
Liver with S-Shearwave Imaging™



Shoulder with S-Harmonic™



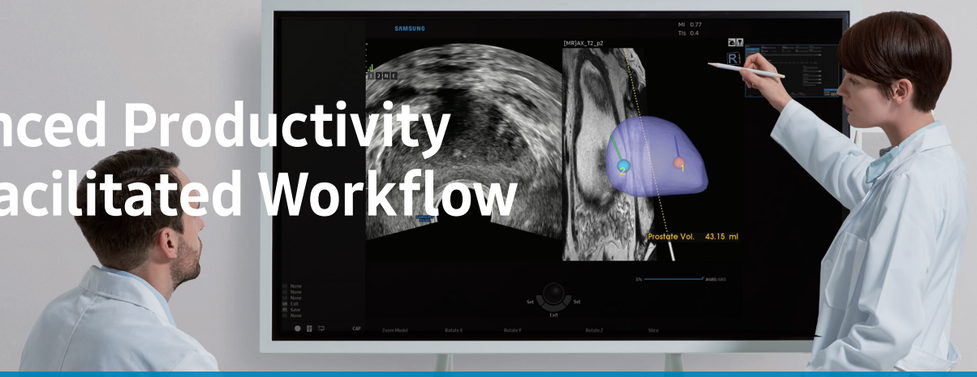
Breast



Thyroid with S-Harmonic™

Ankle

# Enhanced Productivity and Facilitated Workflow

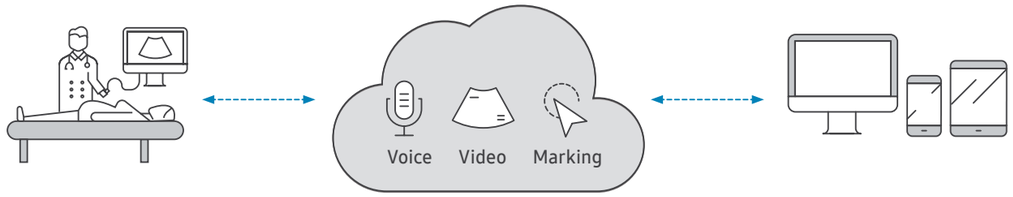



Collaborative solution and streamlined workflow of the RS85 Prestige will support your daily procedures by reducing keystrokes and by combining multiple actions into one.

## SonoSync™ *

SonoSync™ is a real-time image sharing solution that allows collaborative communication for care guide and training between doctors and sonographers. 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.

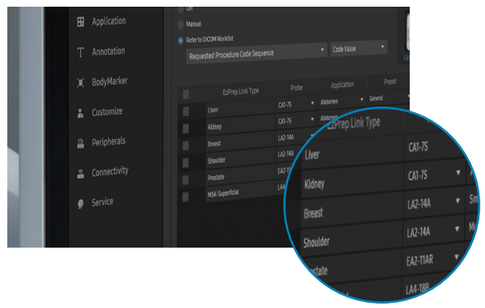
* SonoSync™ is an image sharing solution, not a diagnostic solution.




Ultrasound System | Network | PC/Tablet/Smart Phone

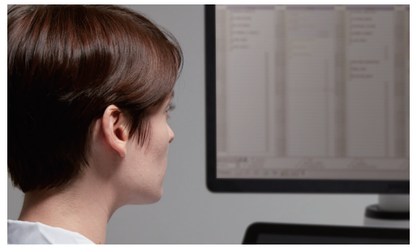
## EzPrep™

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.




## RIS Browser

RIS Browser is a function that improves the workflow in the hospital by allowing access to RIS through the browser embedded in the system for the post process without need to move to the PC after scanning.



* Optional Extra



### WideScreen

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


### 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.

### Touch Customization

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.

### 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.

# Covering Wide Range of Clinical Needs and Comfort

Comprehensive sets of transducers satisfy exquisite imaging across wide range of applications. Samsung transducers reflect ergonomic design as a vital component, resulting in reduced muscle fatigue from ordinary use.

## 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

**CF4-9**
Pediatric, vascular

## Linear Array Transducers


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

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

**LA3-16A**
Small parts, vascular, musculoskeletal

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

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

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

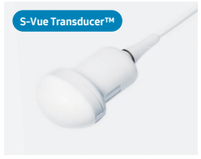
**LA3-16AI**
Musculoskeletal, Intraoperative

**LA3-22AI**
Small parts, vascular, musculoskeletal, pediatric, Intraoperative

*** Ergonomic Transducer (CA1-7S, EA2-11AR, EA2-11AV)**

The new convex transducer design with a smooth and slim grip helps users to scan easily and comfortably. The new endocavity transducer 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.

## 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

## Endo-cavity Transducers

**EA2-11AR***
Urology, obstetrics, gynecology

**EA2-11AV***
Obstetrics, gynecology, urology



**EA2-11B**
Obstetrics, gynecology, urology

## CW Transducers

**CW6.0**
Cardiac, vascular

**DP2B**
Cardiac

## TEE Transducer

**MMPT3-7**
Cardiac