Samsung Medison is a global leading medical device company.
Founded in 1985, the company sells cutting-edge diagnostic
ultrasound devices around the world in various medical fields.
The company has attracted global attention in 2001,
by introducing Live 3D technology. In 2011, Samsung Medison
became an affiliate company of Samsung Electronics,
integrating world's best IT, image processing, semiconductor
and communication technologies into diagnostic ultrasound systems.

CT-RS80A 1.0-FTW-140624-EN

SAMSUNG MEDISON CO., LTD.

SAMSUNG ULTRASOUND RS80A

PREMIUM AT ITS BEST

SAMSUNG

SUPERB IMAGE QUALITY FOR ACCURATE DIAGNOSIS

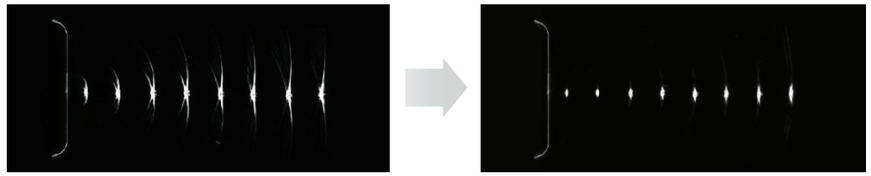
Each and every region display superb image quality. Consisting of the newly developed S-Vision Architecture and S-Vue transducer, RS80A offers state-of-the-art technologies for outstanding images. The way signals are generated and received, as well as transducers and imaging processing methods, all play a role in obtaining the outstanding image quality.

You can be assured RS80A will provide exceptional image quality for accurate diagnosis.

NEWLY DEVELOPED S-VISION ARCHITECTURE AND S-VUE TRANSDUCER

S-Vision Beamformer

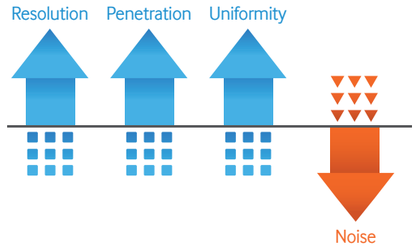
The S-Vision Beamformer is the 1st step in acquiring high-resolution images for accurate diagnosis. The most ideal signal is transmitted with less side lobes, resulting in reduced noise and less artifact while, at the same time providing remarkable image quality.



Conventional RS80A

S-Vision Imaging Engine

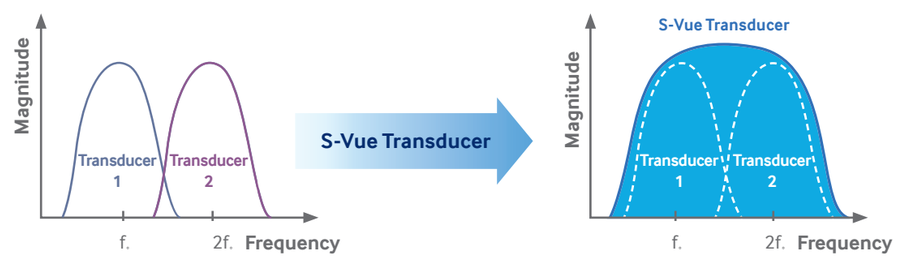
With the advanced technology built on the RS80A system, the digital signals received from the beamformer demonstrates clear, detailed resolution and tissue uniformity for all types of applications in general imaging.



S-Vue Transducer

CA1-7A

The extremely responsive S-Vue transducer provides broader bandwidth and higher sensitivity. In combination with S-Vision Beamformer technology and the S-Vue transducer, hard to visualize pathology is more easily demonstrated. The technically challenging patient is easily scanned delivering superb resolution at depth. In addition, the small ergonomically designed light-weight transducer enables users to suffer less fatigue.



ADVANCED TECHNOLOGY FOR CONFIDENT DIAGNOSIS

RS80A increases confidence with accurate results using advanced technologies developed by Samsung, while simultaneously enhancing user convenience and providing an efficient work environment.

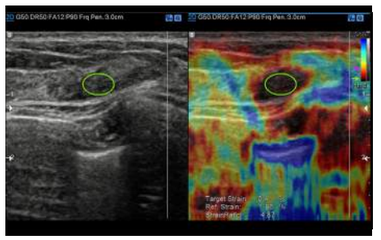
S-Detect™ for Breast

This intelligent technology uses the standardized Breast Imaging-Reporting and Data System (BI-RADS®) score for analysis and classification of targeted regions. S-Detect™ results in more effective diagnosis by reducing unnecessary biopsies and saving time through simplified procedures. The user simply touches a seed point on the touch screen and the S-Detect™ automatically sets the lesion's boundary, providing multiple images. BI-RADS® score is automatically displayed.

Exam report with S-Detect™

E-Breast™ (ElastoScan™ for Breast)

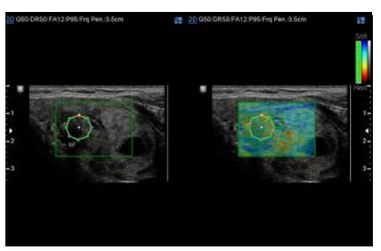
Using a streamlined work process, E-Breast™ technology calculates the strain ratio for the lesion. This simplified process of just selecting on 1 ROI enhances usability and improves examination efficiency.



Breast Parenchyma

E-Thyroid™ (ElastoScan™ for Thyroid)

The E-Thyroid technology provides a more objective diagnosis by using an elastography index to determine the strain ratio of nodules. ElastoScan™ images are acquired by using the pulsation of carotid artery.



Thyroid ElastoScan™ nodule

*Above features may not be available for use in some countries.

PRECISE GUIDANCE
ASSISTS IN ACCURATE NEEDLE PLACEMENT

Finding the precise area in question is half the battle in diagnostic imaging. Now you can expand the capabilities of ultrasound interventions with Samsung's highly precise needle guidance technology.

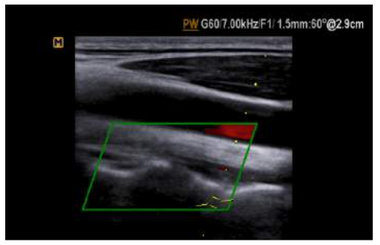
Premium at Its Best

Clear Track

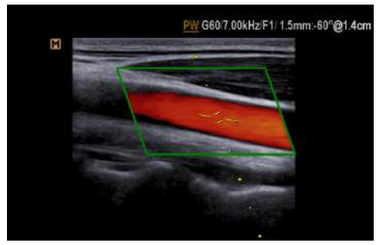
Clear Track enables accurate injections or biopsies when performing complex medical procedures. The sensor attached to the needle tip draws a simulated path of the needle, leading to high user confidence and accuracy.

Advanced QuickScan™

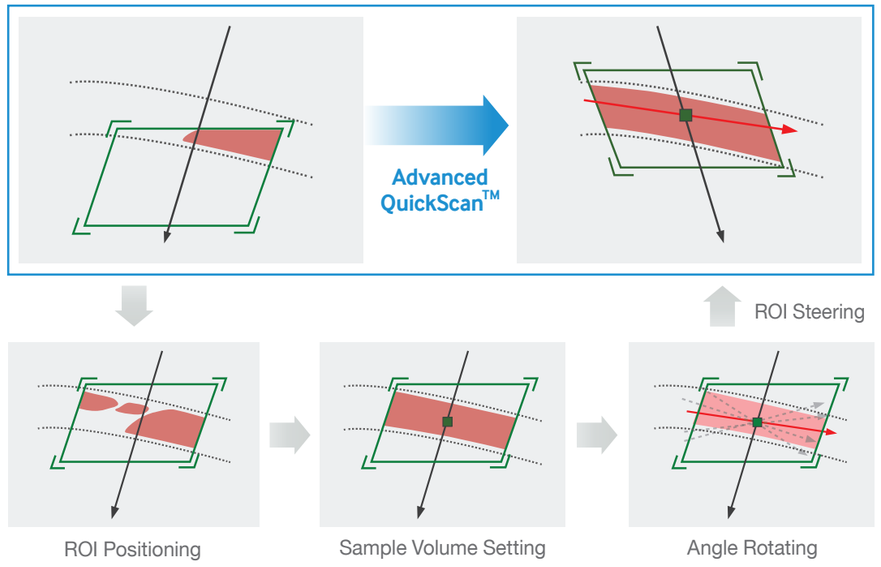
Advanced QuickScan™ technology maximizes workflow and efficiency, therefore enables users to remain focused on the patient. With a simple touch of a button important imaging parameters are automatically adjusted, such as color gain, location of the color box and angle correct. This feature improves workflow and increases efficiency.



CCA Doppler without QuickScan™



CCA Doppler with QuickScan™



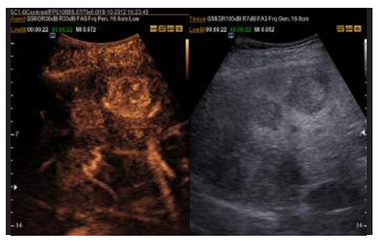
*Above features may not be available for use in some countries.

EXTEND YOUR WAYS OF VIEWING IMAGES

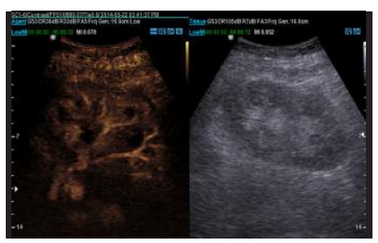
RS80A's premium 3D features, Realistic Vue™ and contrast agent imaging technology allow for increased accuracy in diagnosis.

Low-MI (Contrast-Enhanced Ultrasound)

Low-MI is a technology that uses contrast agents when performing ultrasound scans. This technology processes reflected signals from contrast agents, which are stimulated by particular ultrasound pulses, and produces a unique sonogram with increased contrast. Exams are easier to perform by providing dual-live views.



Hepatic metastasis

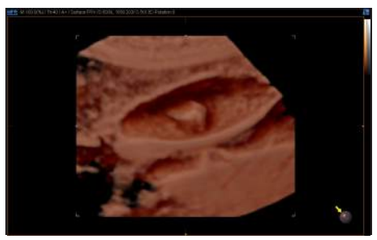


Kidney transplantation

Realistic Vue™

Realistic Vue™ is a 3D/4D technology that displays detailed volume rendering, which enables users to easily identify subtle anatomical features. Anatomies look realistic when viewed in color with shading that provides additional depth perception, helping users better define the complex structures of anatomies which is almost impossible in 2D.

*Above features may not be available for use in some countries.



Gallbladder stone with Realistic Vue™

SUPERB-QUALITY DIMENSIONAL IMAGING

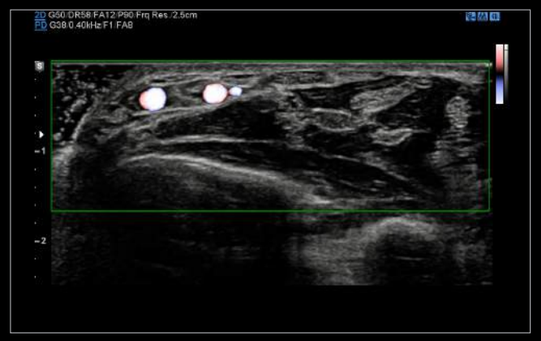
Dimensional images in full color help bridge the gap between what is displayed on the screen and how it is perceived. They also help you effectively communicate with the patient with realistic visualizations in high-definition color.


Fatty liver

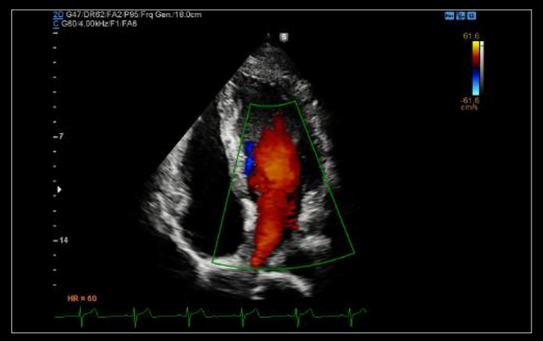

GB stone

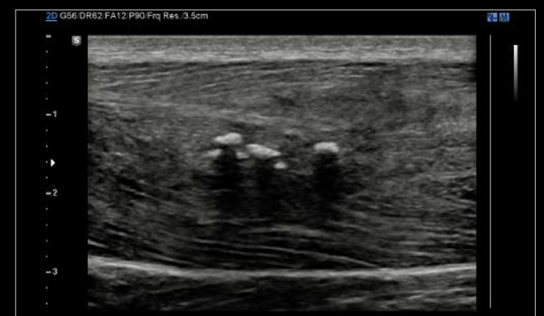

Thyroid nodule

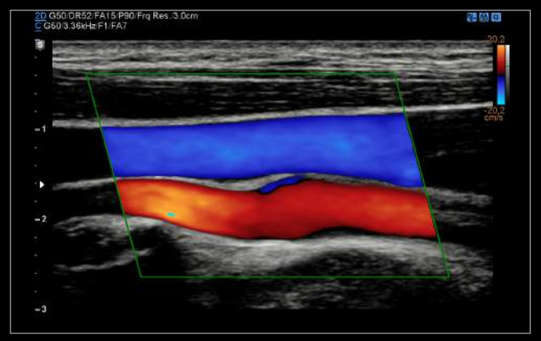

Thyroid nodule


Wrist vessel


Finger ganglion

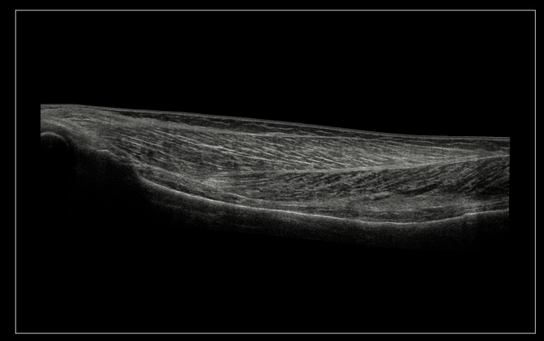

4 Chambers


Quadriceps


Carotid artery


Breast mass


Wrist ganglion


Panoramic

DESIGNED FOR YOUR CONVENIENCE
ANYTIME, EVERYWHERE YOU SCAN

RS80A has been developed with your scanning needs in mind. This intuitive product provides features and functions for your convenience, as well as improving your work efficiency and effectiveness.

Folding Monitor

The folding monitor enables safe, secure transport.

13.3-inch Tilting Touch Screen

The tilting touch screen panel enables users to transition through the menus on the screen. It can be easily adjusted and locked with a sensor embedded behind the panel.

6 Way Moving and Motorized Lift

The RS80A's control panel moves freely in any direction and incorporates motorized lift. When the system powers off, the control panel memorizes the height and automatically repositions the equipment when the system powers back up.

23-inch LED Display

To enhance your image, RS80A features a 23-inch full high-definition (FHD) LED display, delivering superior image contrast on a larger ultrasound display in any environment.

Unique Layout and 3D Navigator

Intuitive design makes easy access to all image controls. It is ergonomically designed for ease of use and examination throughput.

Central Lock

A one-step, four position lock secures the system in place. The second position permits users to move the equipment directly forward only, without it being moved from side to side.

EXCEPTIONAL TRANSDUCERS TO MEET ALL YOUR SCANNING NEEDS

Samsung offers a comprehensive selection of transducers to ensure superb imaging for every need and patient. RS80A supports transducers such as Volume, Convex, Endo-Cavity, Linear and etc.

Curved Array Transducers

* S-Vue Transducer

CA1-7A

- Application : Abdomen, OB, Gynecology, Contrast
- Field of View : 70°

CA2-8A

- Application : Abdomen, OB, Gynecology
- Field of View : 58°

CF4-9

- Application : Pediatric, Vascular
- Field of View : 92°

Volume Transducers

V5-9

- Application : OB, Gynecology, Urology
- Field of View : 150.6°

V4-8

- Application : Abdomen, OB, Gynecology
- Field of View : 76°

LV3-14A

- Application : Musculoskeletal, Small Parts, Vascular
- Field of View : 38.4mm

Linear Array Transducers

L3-12A

- Application : Small Parts, Vascular, Musculoskeletal
- Footprint : 50mm

LA3-16A

- Application : Small Parts, Vascular, Musculoskeletal
- Footprint : 70°

LA2-9A

- Application : Small Parts, Vascular, Musculoskeletal, Abdomen
- Footprint : 44.16mm

L7-16

- Application : Small Parts, Vascular, Musculoskeletal
- Footprint : 38.4mm

LA3-16AI

- Application : Musculoskeletal
- Footprint : 25.6 mm

Endo-Cavity Transducer

E3-12A

- Application : OB, Gynecology, Urology
- Field of View : 210°

Phased Array Transducer

PM1-6A

- Application : Cardiac, TCD, Abdomen
- Field of View : 22.08mm

CW Transducer

CW6.0

- Application : Cardiac
- Center Frequency : 6.0MHz

*Above transducers may not be available for use in some countries.