

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.

CT-HS50 V1.0-GI-FT-161006-EN

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

\* S-Vision™ is not the name of a function, but stands for Samsung's ultrasound imaging technology.

\* Measure navigation is not the name of a function, but the name of a picture-in-picture window.

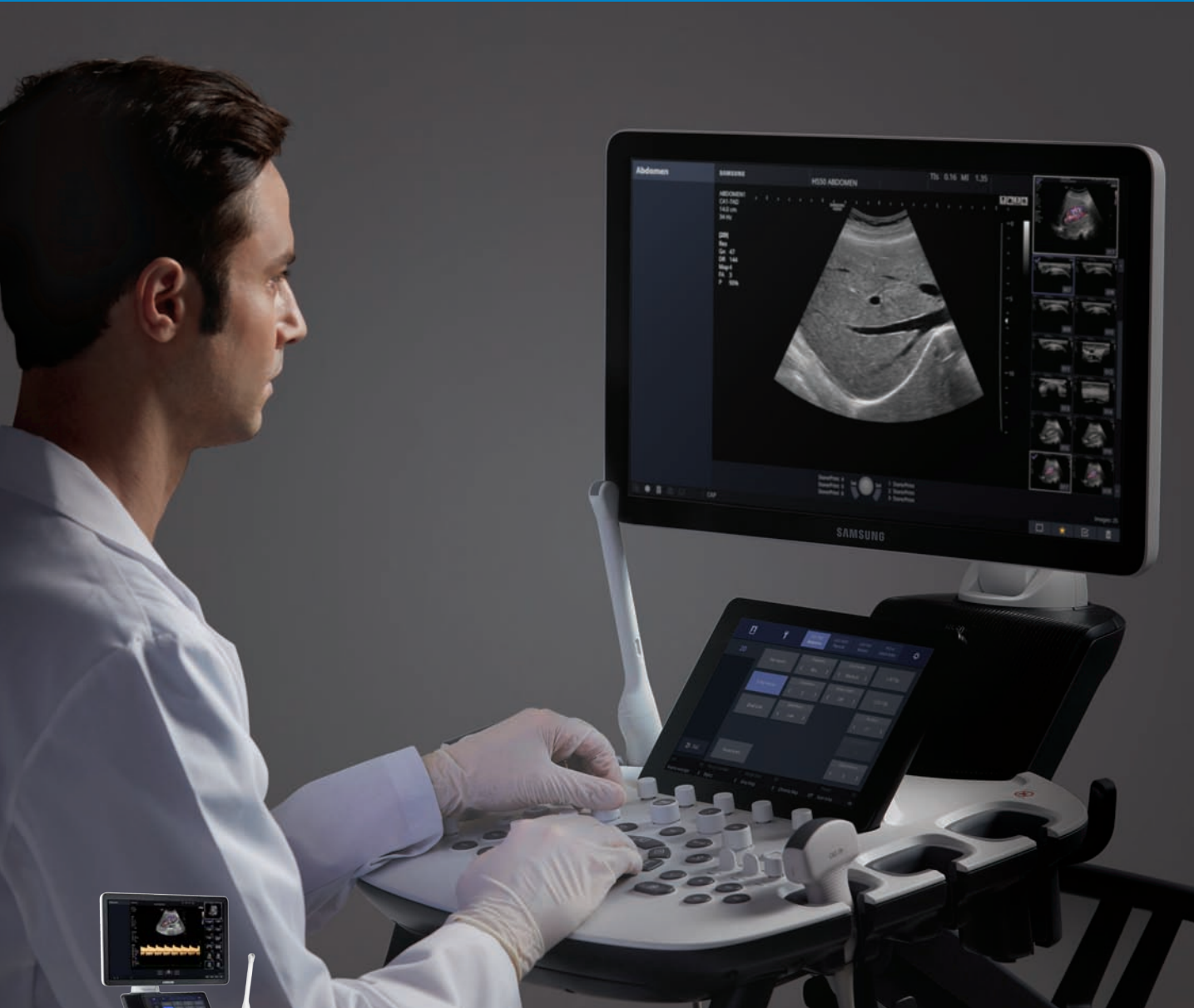
\* In Canada and USA, strain value for ElastoScan™ is not applied.

\* The availability of some products, features, options, and transducers mentioned in this catalog may vary from country to country, and is subject to varying regulatory requirements.

\* 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 representative for further details.

# Simple yet powerful

## Ultrasound system HS50



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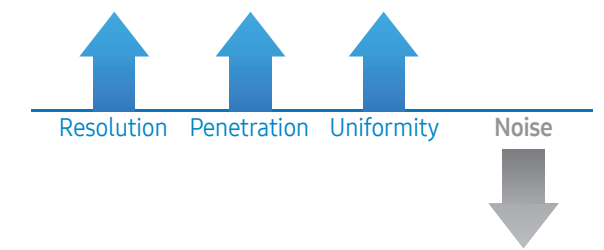
# Superior imaging performance

2D imaging is fundamental to ultrasound exams. The HS50 uses Samsung's **innovative imaging engine and single crystal transducers** to deliver superior imaging.



## S-Vision™ imaging engine

With the S-Vision™ imaging engine built into HS50, the digital signals produce clear, detailed resolution and tissue uniformity for various types of applications in general imaging.

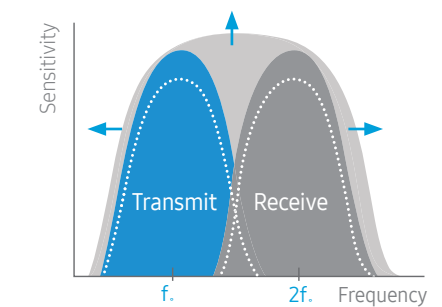


## S-Vue™ transducers (CA1-7AD, CA2-9AD, CV1-8AD)

HS50 incorporates single crystal technology. Employing an innovative crystal design, S-Vue™ transducers provide more efficient piezoelectric properties, resulting in wider bandwidths that enable better penetration and higher quality resolution on even challenging patients.

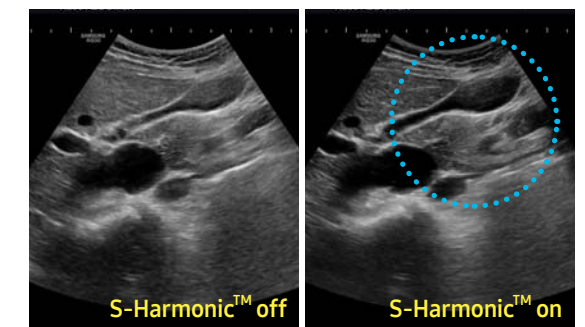


Single Crystal



## S-Harmonic™

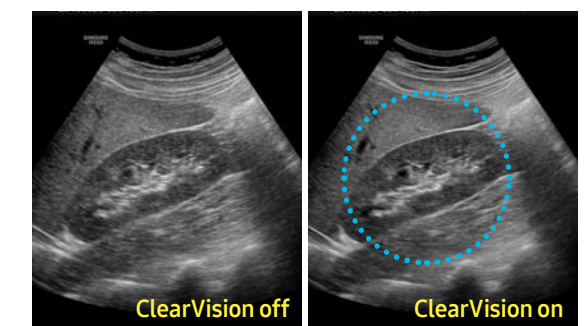
This new harmonic technology provides greater image uniformity from near to far field while reducing signal noise. Combined with S-Vue™ transducers and \*S-Vision™ imaging engine, S-Harmonic™ improves the image quality of HS50.



Pancreas

## 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.



Kidney



# User-oriented features that streamline your workflow

A busy practice needs user-oriented features to manage routine ultrasound exams. Accurate and easy-to-use, HS50's comprehensive features enable greater throughput.

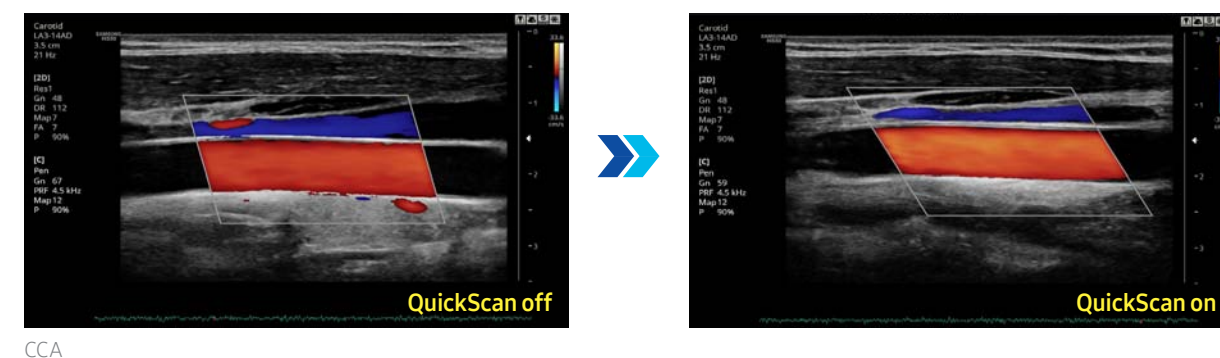
## Quick Preset

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.



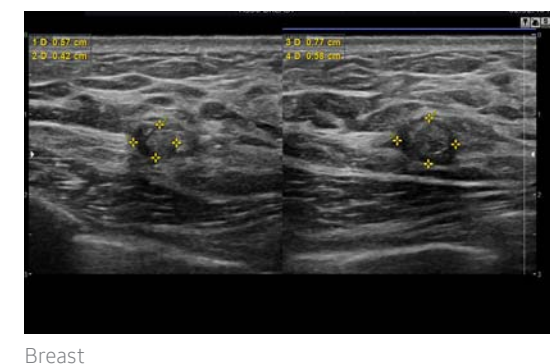
## Advanced QuickScan

Image optimization can be done simply with one touch of the QuickScan button. Samsung's advanced QuickScan technology provides intuitive optimization of both grayscale and Doppler parameters.



## EZ-Compare™

EZ-Compare™ allows easy access to previously taken exams to evaluate corresponding views in a side-by-side display. For greater efficiency, EZ-Compare™ automatically matches the image settings, annotations, and bodymarkers from the prior study.



## Measure Navigation

When placing a caliper, Measure Navigation automatically magnifies the area of interest using a picture-in-picture window to allow more precise placement of the calipers. This is especially useful when measuring small structures or when accuracy is critical.



## EZ-Exam+™

EZ-Exam+™ enables users to build or to use predefined protocols. It transforms the ultrasound investigation into a streamlined process. EZ-Exam+™ ensures the full investigation is performed, eliminating the risk of forgetting an image or loop capture, as well as measurement and transducer preset changes.



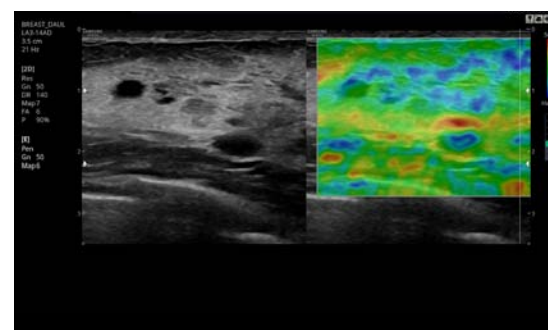


# Bringing efficient tools to General Imaging

Samsung's straightforward yet powerful tools enable **accurate and efficient exams via a simplified workflow.**

## ElastoScan™

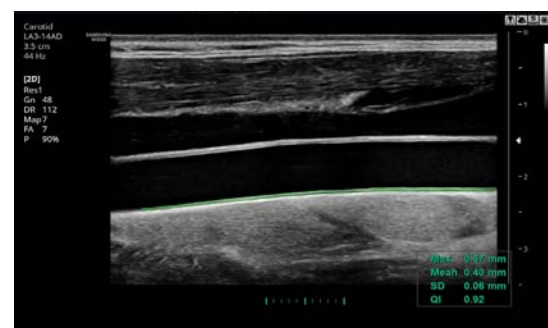
A diagnostic ultrasound technique for imaging elasticity, ElastoScan™ detects the presence of solid masses in tissues and converts any stiffness into color images.



Breast

## Auto IMT+

Auto IMT+ is a screening tool to analyze a patient's potential risk of cardiovascular disease. It allows easy intima-media thickness measurement of both the anterior and posterior wall of the common carotid by the click of a button. This simple procedure enhances exam productivity and adds diagnostic value.



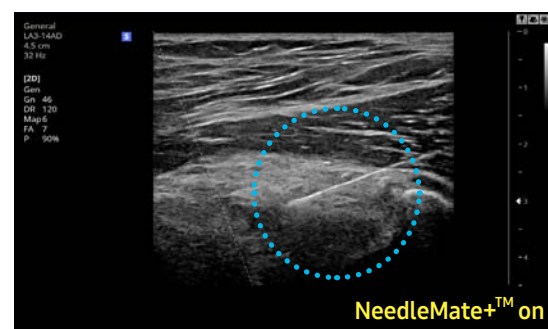
CCA

## NeedleMate+™

NeedleMate+™ ensures precise needle targeting when performing commonly used intervention procedures.

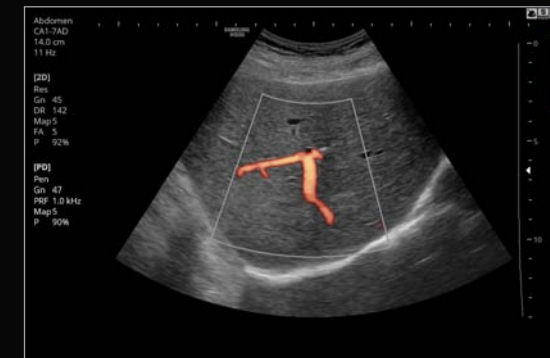
## Beam Steer

Beam Steer allows the linear ultrasound image to be steered and improves needle visibility when the angle of insonation and the needle are perpendicular to each other.

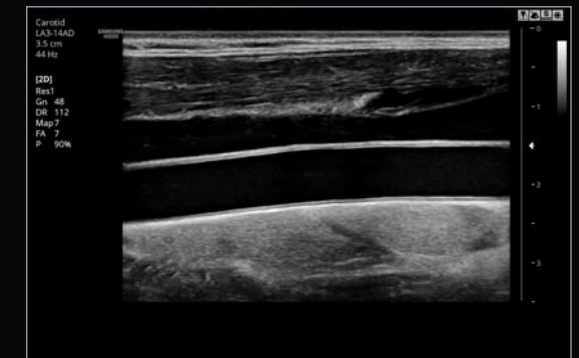


Breast

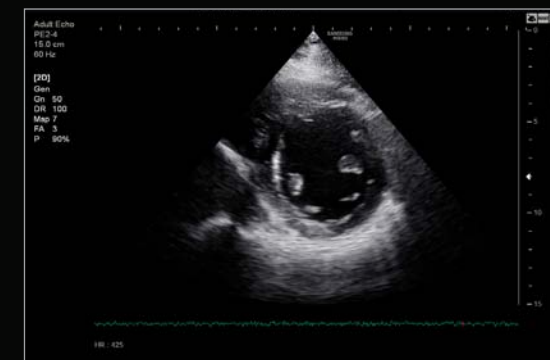
# Image gallery



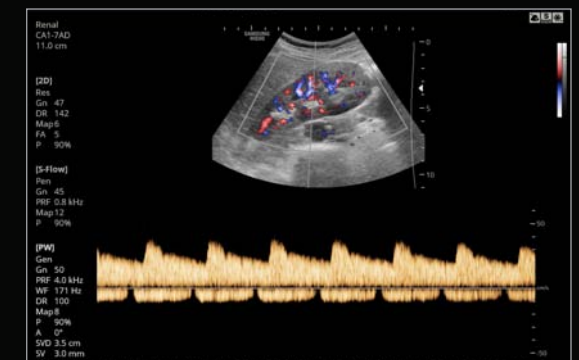
Liver color with PD



Carotid artery



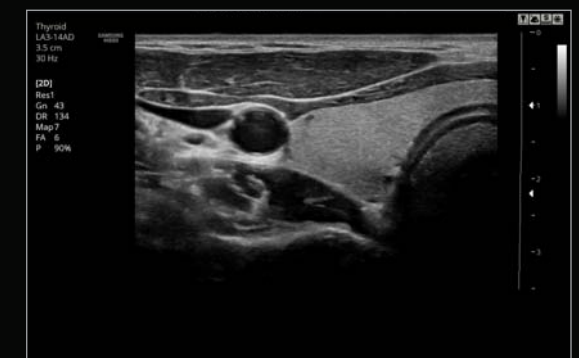
Papillary muscle in parasternal short axis view



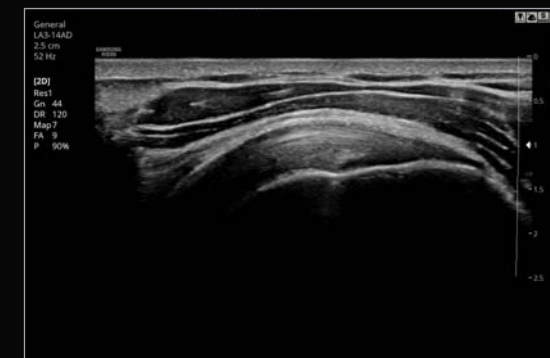
Renal vessel with S-Flow™



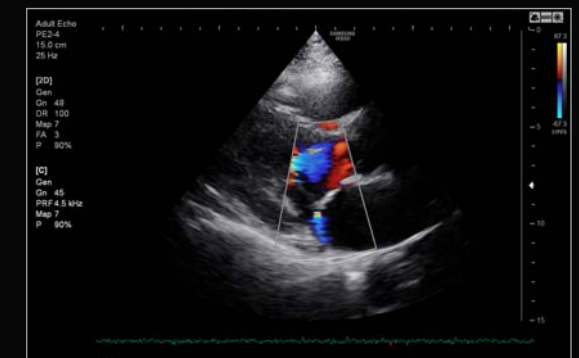
Liver and GB



Thyroid nodule



Shoulder



Parasternal long axis view with color

# Designed for your convenience

A combination of a **comfortable environment** and a **streamlined user interface**, together with **design features** such as a large LED monitor and touchscreen, enable the clinician to focus on imaging while also reducing the stress of operating the HS50.

21.5"

## 21.5-inch full HD LED monitor

The HS50 features a 21.5-inch full HD LED monitor, delivering excellent contrast resolution, image clarity and vibrant color in any lighting condition.

10.1"

## 10.1-inch touchscreen

The 10.1-inch touchscreen is highly sensitive, allowing an efficient interaction during the examination.



## Gel warmer

For operator convenience, a gel warmer can be installed on both sides of the control panel.



## Solid State Drive (SSD)

The HS50 uses Samsung's advanced solid state drives. These stable and dependable drives allow faster boot-up, better frame rates, and fast processing speeds.

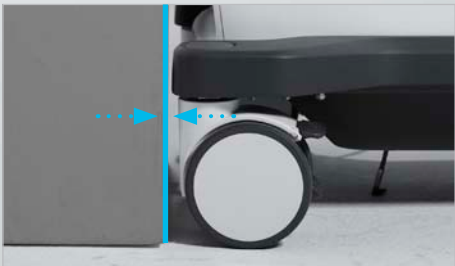


Printer Space



## Clever use of space

With its reduced weight and compact size, the HS50 takes up minimal space and can move freely. In addition, its streamlined rear profile allows you to park the HS50 in small spaces.



# Comprehensive selection of transducers

## Curved array transducers



CA1-7AD

- Application : abdomen, obstetrics, gynecology



CA2-9AD

- Application : abdomen, obstetrics, gynecology



CF4-9

- Application : pediatric, vascular

## Endo-cavity transducer



ER4-9

- Application : obstetrics, gynecology, urology

## Linear array transducers



LA3-14AD

- Application : small parts, vascular, musculoskeletal



LA3-16A

- Application : small parts, vascular, musculoskeletal

## Phased array transducers



PE2-4

- Application : abdomen, cardiac, vascular



PA3-8B

- Application : abdomen, cardiac, pediatric

## Volume transducers



CV1-8AD

- Application : obstetrics, gynecology



V5-9

- Application : obstetrics, gynecology

## CW transducers



CW6.0

- Application : cardiac



DP2B

- Application : cardiac

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