

# Simple yet powerful

Ultrasound system  
HS50



**SAMSUNG**

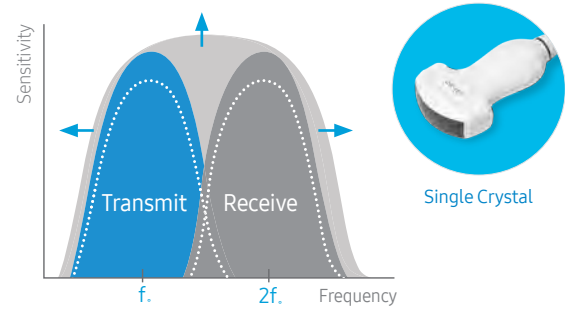
# Superior imaging performance

The HS50 uses Samsung's innovative imaging engine and single crystal transducer technology to deliver superior 2D and 3D/4D imaging in a wide range of clinical applications.



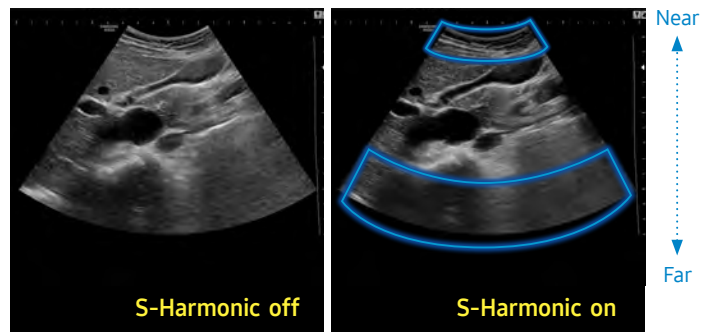
## S-Vue™ transducers (CA1-7AD, CA2-9AD, CV1-8AD)

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.



## S-Harmonic™

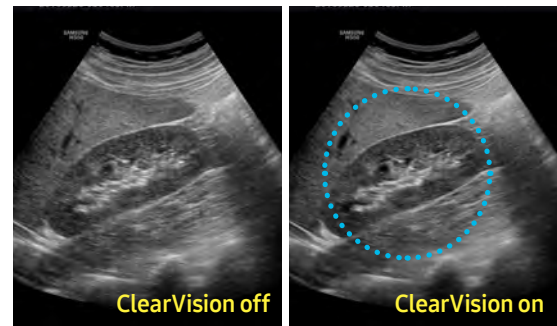
This new harmonic technology provides greater image uniformity from near to far field while reducing signal noise.



Pancreas

## ClearVision™

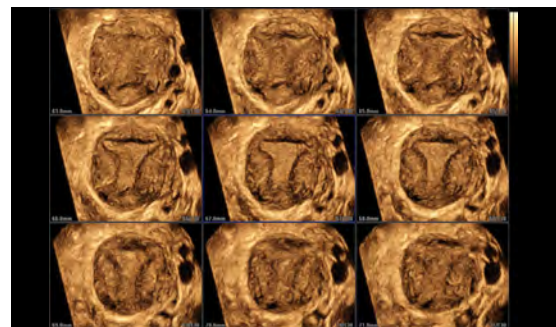
ClearVision is a proprietary noise reduction filter that improves interface definition and creates sharper 2D images for optimal diagnostic performance. ClearVision also provides application-specific optimization and advanced temporal resolution in live scan mode.



Kidney

## Advanced Volume Imaging

Capture additional views of the anatomy, not possible in 2D, for a thorough assessment. Multiple render methods and data manipulation techniques available to help provide diagnostic confidence.



Uterus displayed with Multi-Slice View™

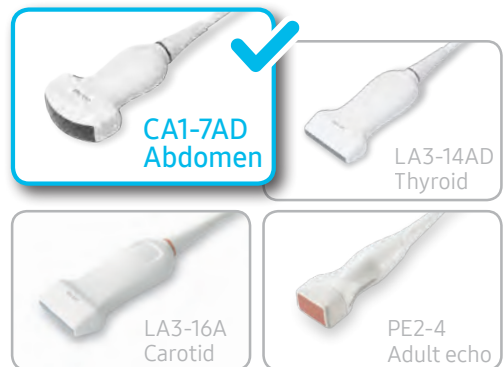


# User-oriented features that streamline your workflow

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.



## EZ-Exam+™

EZ-Exam+ transforms the ultrasound exam into a well-organized, streamlined process by enabling the user to create or use predefined protocols. EZ Exam+ ensures the full exam is performed, reducing the risk of forgetting to capture an image or cine loop, as well as document measurement and transducer preset changes.

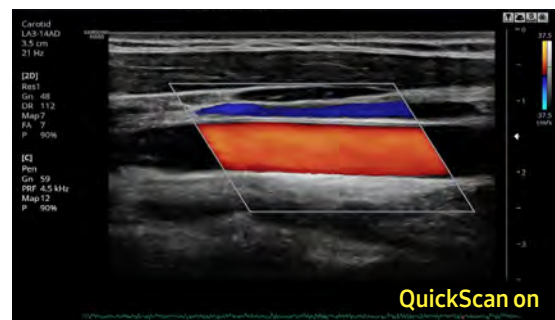


EZ-Exam+



## Advanced QuickScan

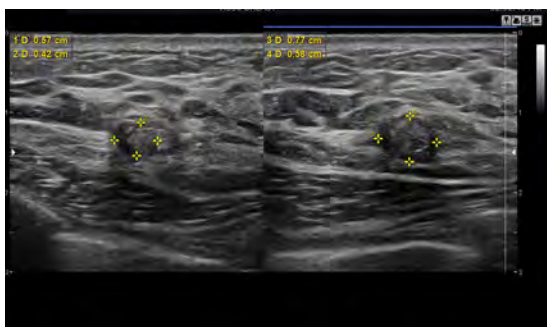
Image optimization can be done simply with one touch of the QuickScan button. Samsung's advanced QuickScan technology provides intuitive optimization of both grayscale and Doppler parameters.



Common Carotid Artery

## EZ-Compare™

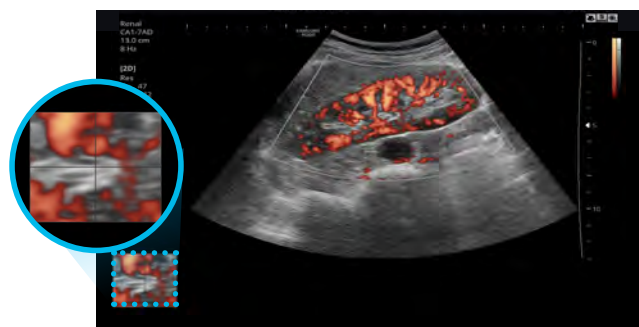
EZ-Compare allows easy access to the patient's previous exams to evaluate corresponding views in a side-by-side display. For greater efficiency, EZ-Compare automatically matches the image settings, annotations, and bodymarkers from the prior study.



Breast

## 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 or difficult to discern structures.



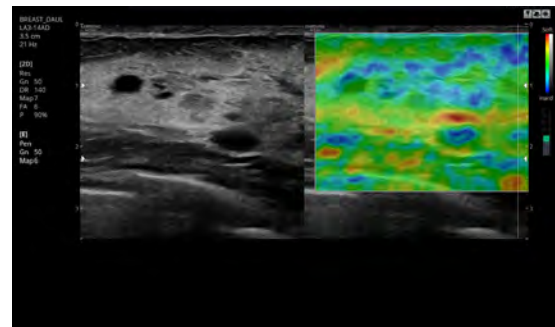
Kidney

# Productivity tools for General Imaging

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

## ElastoScan™

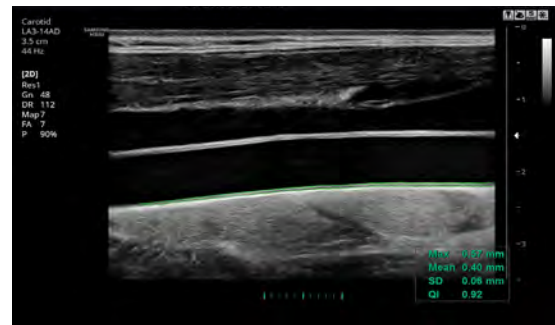
A diagnostic ultrasound technique for imaging elasticity, ElastoScan™ detects the presence of solid masses in tissues and converts any stiffness into color images.



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 with the click of a button. This simple procedure enhances exam productivity and adds diagnostic value.

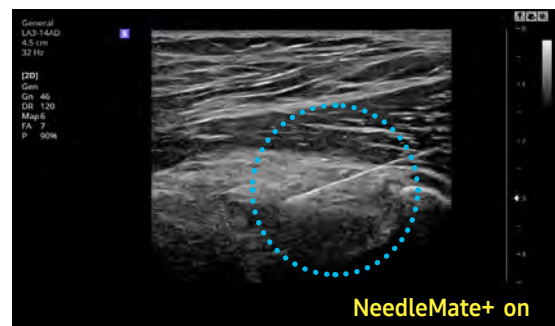


CCA

## NeedleMate+™

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

Beam Steer 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.



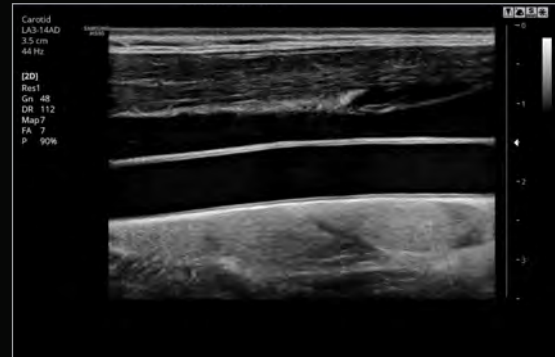
Breast



# Image gallery



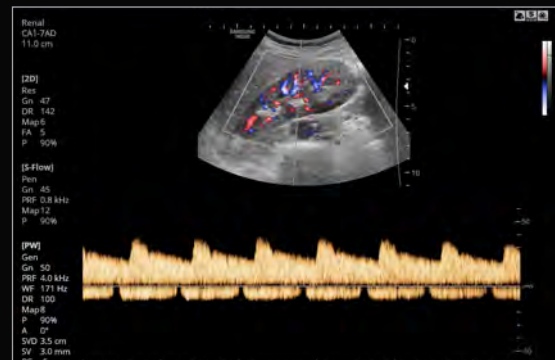
Liver color with Power Doppler



Carotid artery



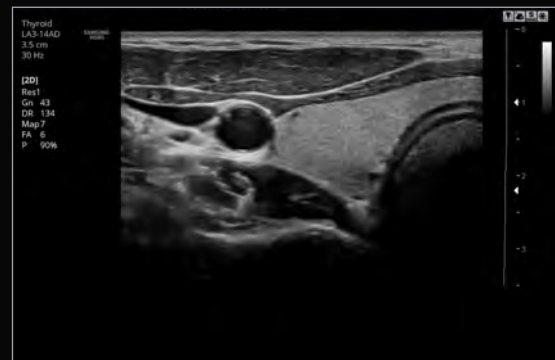
Papillary muscle in parasternal short axis view



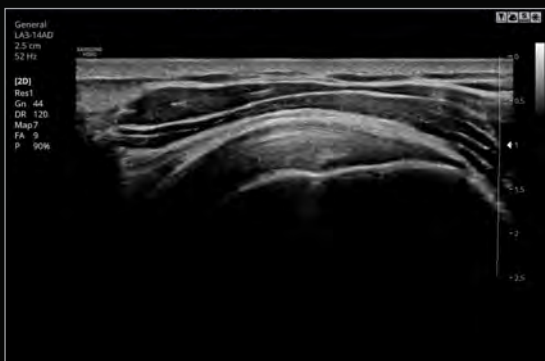
Renal vessel with S-Flow™



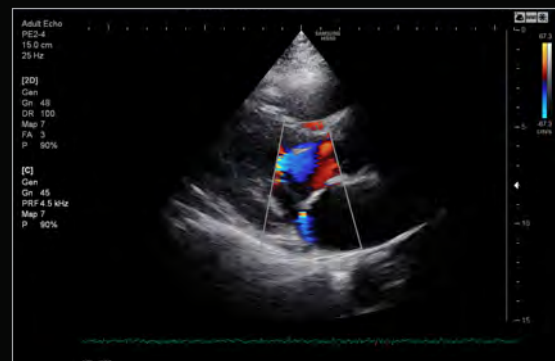
Liver and Gallbladder



Thyroid nodule



Shoulder



Parasternal long axis view with color

# Designed for your convenience



## 21.5-inch full HD LED monitor

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



## 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.



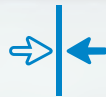
### Solid State Drive (SSD)

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.



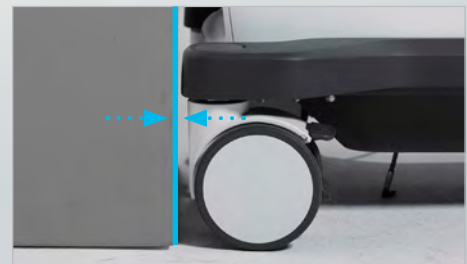
Printer Space

SAMSUNG



### 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

## Linear array transducers



**LA3-14AD**

- Application : small parts, vascular, musculoskeletal



**LA3-16A**

- Application : small parts, vascular, musculoskeletal

## Volume transducers



**CV1-8AD**

- Application : obstetrics, gynecology



**V5-9**

- Application : obstetrics, gynecology

## Endo-cavity transducer



### ER4-9

- Application : obstetrics, gynecology, urology

## Phased array transducers



### PE2-4

- Application : abdomen, cardiac, vascular



### PA3-8B

- Application : abdomen, cardiac, pediatric

## CW transducers



### CW6.0

- Application : cardiac



### DP2B

- Application : cardiac



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.

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