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

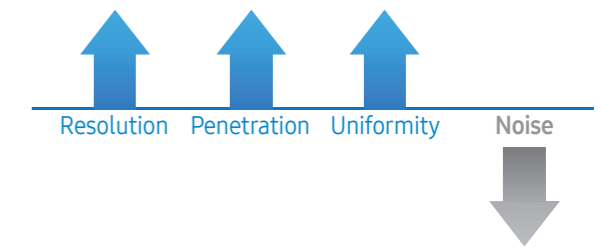## SAMSUNG MEDISON CO., LTD.

SAMSUNG

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.

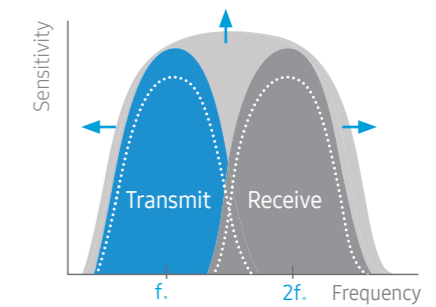Resolution   Penetration   Uniformity   Noise

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.
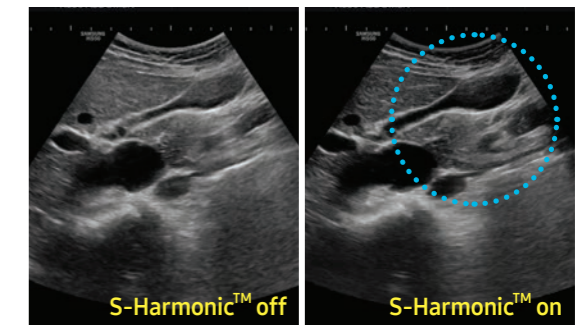
Single Crystal

Sensitivity

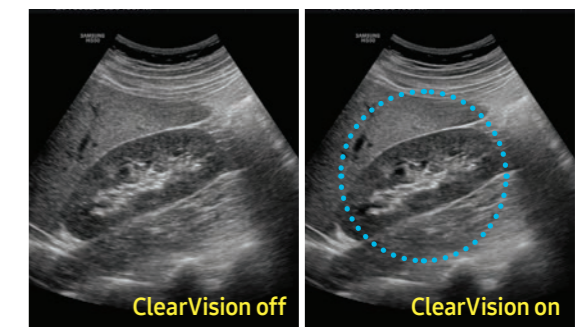Transmit   Receive

f.   2f.   Frequency

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.

S-Harmonic™ off   S-Harmonic™ on

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.

ClearVision off   ClearVision on

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.

CA1-7AD
Abdomen
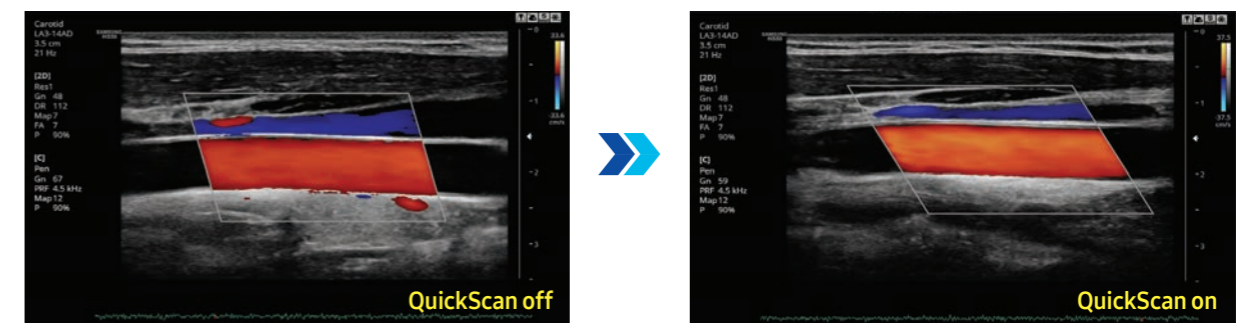
LA3-14AD
Thyroid

LA3-16A
Carotid

PE2-4
Adult echo

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
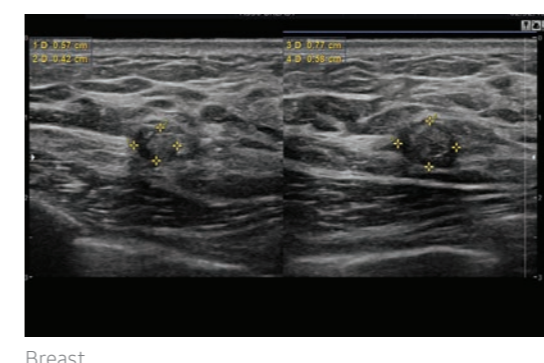measurement and transducer preset changes.

EZ-Exam+™

Advanced QuickScan

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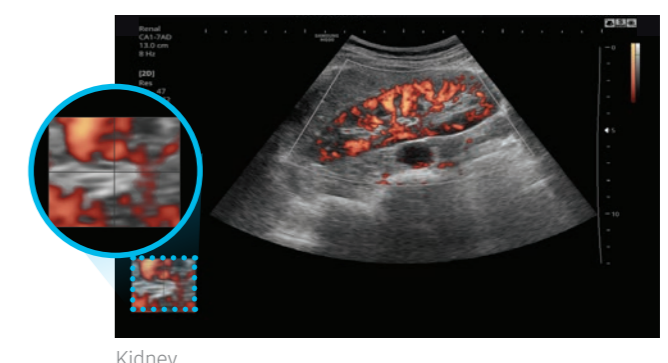technology provides **intuitive optimization of both grayscale and Doppler parameters.**

QuickScan off

QuickScan on

CCA

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,
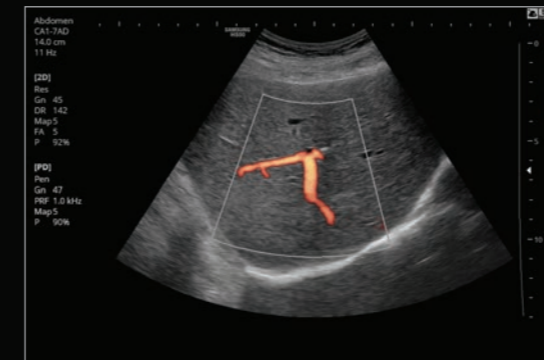and bodymarkers** from the prior study.

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 structures
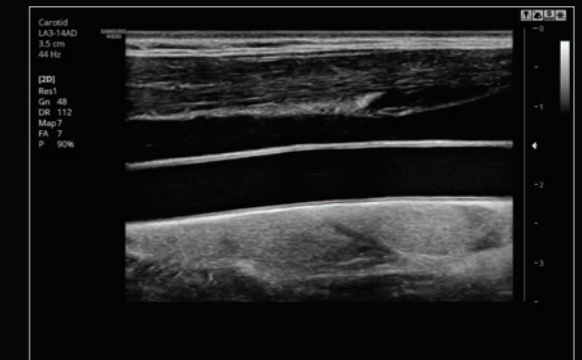or when accuracy is critical.

Kidney

Bringing efficient tools to General Imaging

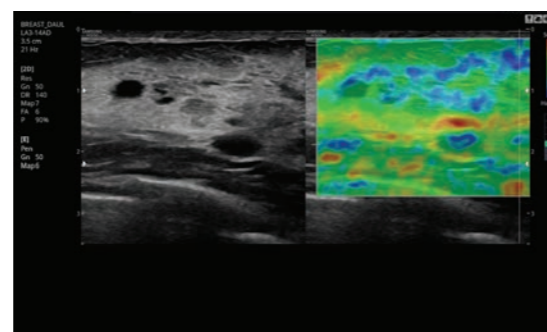Samsung's straightforward yet powerful tools enable **accurate and efficient exams via a simplified workflow.**
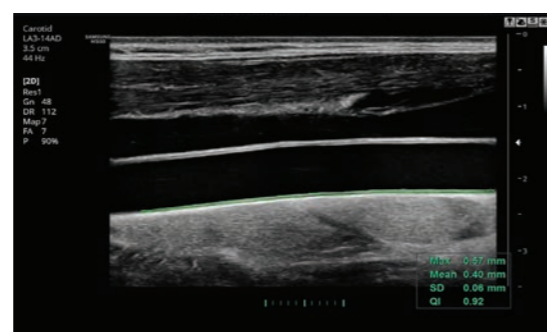
ElastoScan™

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.
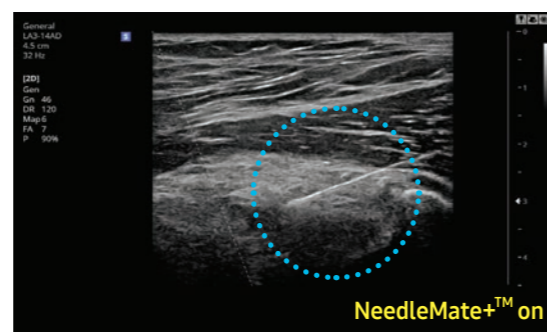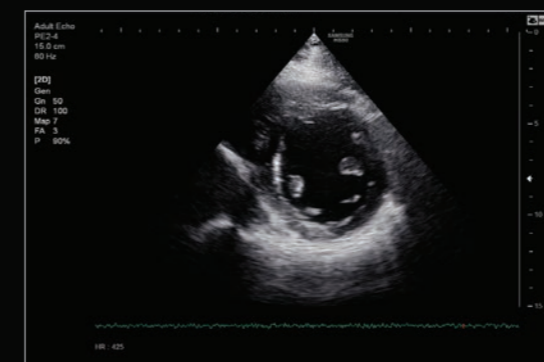
CCA

NeedleMate+™

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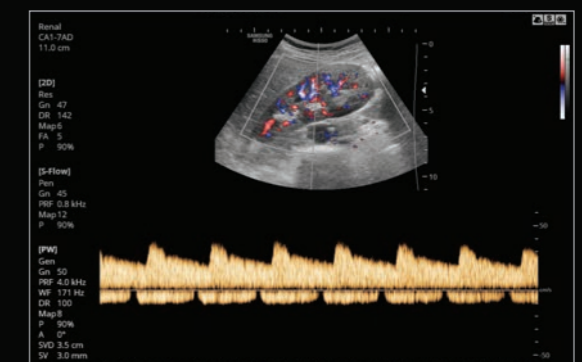
Beam Steer

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.

NeedleMate+™ on

Breast

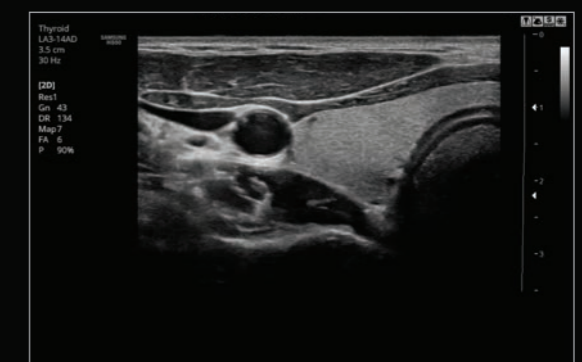# Image gallery

Liver color with PD

Carotid artery
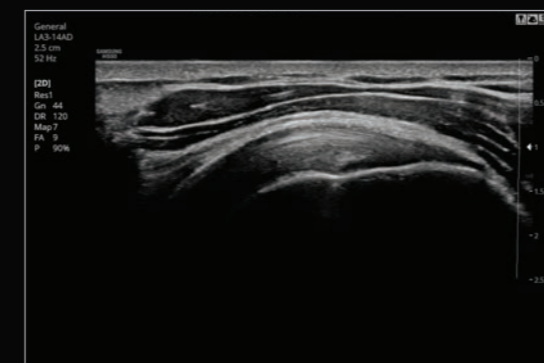
Papilary muscle in parasternal short axis view
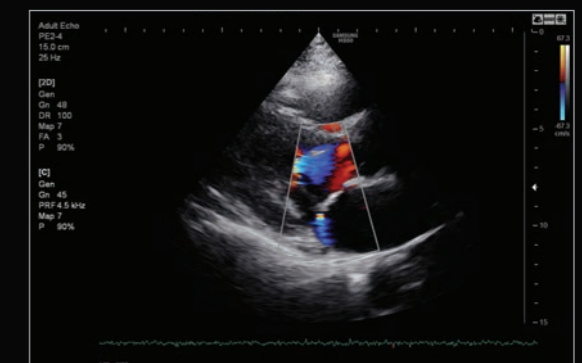
Renal vessel with S-Flow™

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.

Gel warmer

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

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.

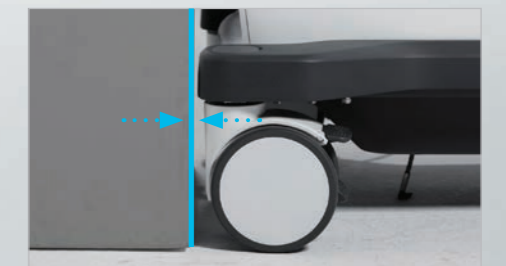**21.5 inch**

10.1 inch

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**.

10.1-inch touchscreen

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

Printer Space

SSD

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
S-Vue™
- Application : abdomen, obstetrics, gynecology

CA2-9AD
S-Vue™
- 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
S-Vue™
- Application : obstetrics, gynecology

V5-9
- Application : obstetrics, gynecology

Endo-cavity transducer

ER4-9
- Application : obstetrics, gynecology, urology

Phased array transducer

PE2-4
- Application : abdomen, cardiac, vascular

PA3-8B
- Application : abdomen, cardiac, pediatric

CW transducer

CW6.0
- Application : cardiac

DP2B
- Application : cardiac

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