Daily inspiration

Ultrasound system
HS70A with Prime

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to learn more

CT-HS70A with Prime V2.01-GI-FT-200123-EN

SAMSUNG MEDISON CO., LTD.

CE 0123

EXPERIENCE
A New Healthcare
Solution

SAMSUNG

Daily inspiration

We, Samsung, aim to **continually improve the image quality of our ultrasound systems** and **develop clinically proven tools designed for your needs**. The HS70A with Prime is built upon these principles. Its superior imaging performance, specialized features, and accurate quantification tools **enable you to conduct a wide range of general imaging exams**, from the routine to the complex.

Discover new innovations every day that give you an inspiration.

S-Vision™ imaging engine

With the S-Vision™ imaging engine built into HS70A with Prime, the digital signals produce **clear, detailed resolution and tissue uniformity for various types of applications** in general imaging.

Resolution   Penetration   Uniformity   Noise
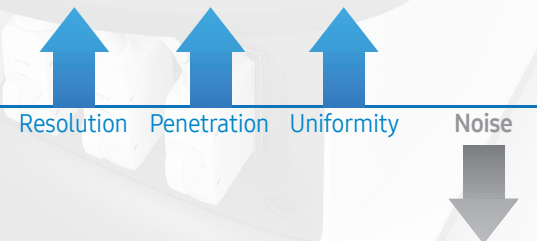
S-Vue Transducer™ (CA1-7A, CA3-10A, CA2-9A, CV1-8A)

S-Vue Transducer™ provides more efficient piezoelectric properties, resulting in wider bandwidths that enable better penetration and higher quality resolution.

Sensitivity

Transmit   Receive

f.   2f.   Frequency
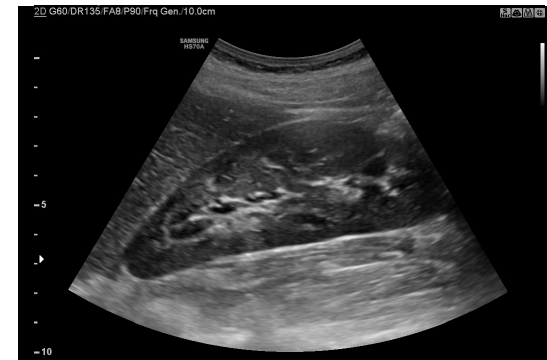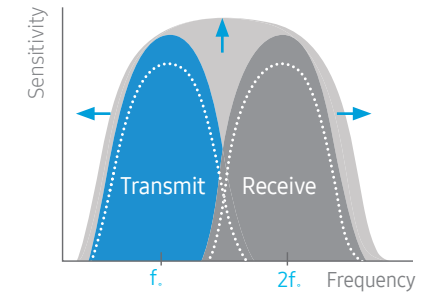
Kidney with CA1-7A

Spine with CA3-10A

S-Harmonic™

S-Harmonic™ mitigates the signal noise, enhances contrast, and provides uniform image performance of overall image area from near-to-far.

S-Harmonic™ off   S-Harmonic™ on
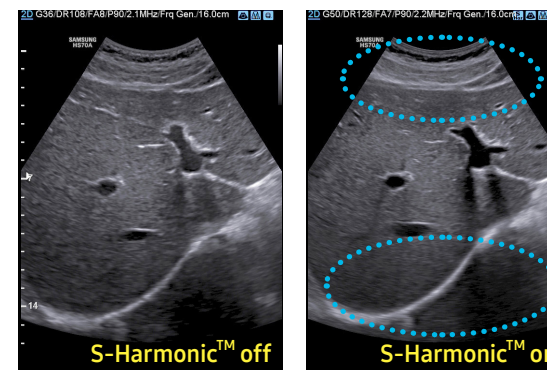
Liver *
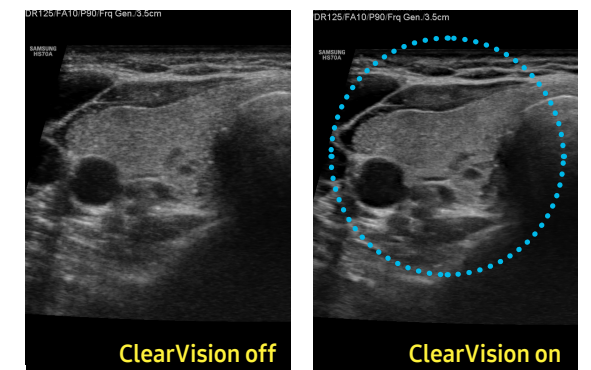
ClearVision

The noise reduction filter improves edge enhancement and creates sharper 2D images for optimal diagnostic performance. In addition, ClearVision provides application-specific optimization and advanced temporal resolution in live scan mode.

ClearVision off   ClearVision on

Thyroid

* The asterisks on this page are the clinical images acquired by the HS70A V1.00 ultrasound system.

Advanced tools for simple and precise assessment

With Samsung's **S-Shearwave™ and CEUS+, precise assessment becomes easier and simplifier** even with difficult-to-image patients.

Samsung Ultrasound System HS70A with Prime

S-Shearwave™

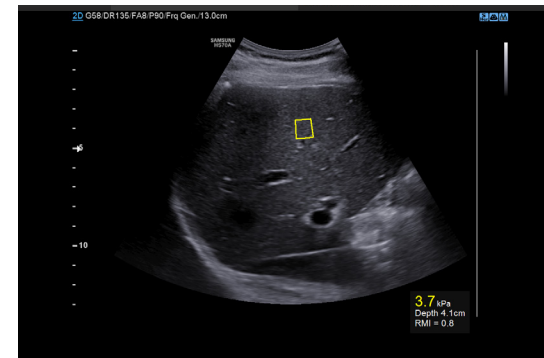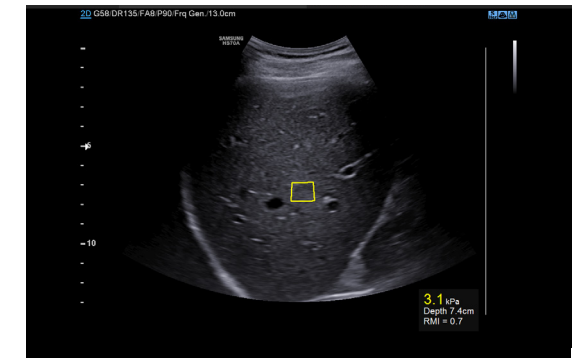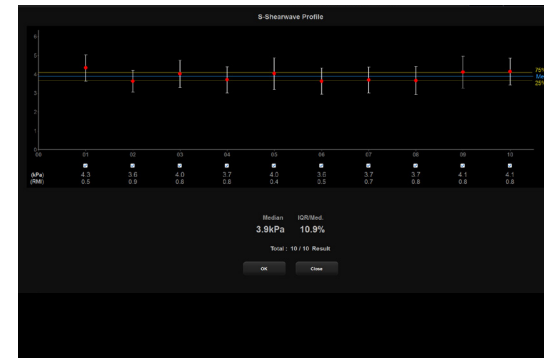S-Shearwave Imaging™ allows for non-invasive assessment of the stiffness of tissue/lesions in various applications such as breast, liver, MSK and prostate. The color-coded elastogram, quantitative measurements, dual or single display option, and user-selectable ROI functions are especially useful for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

Liver (common depth)


Liver (deep depth)

S-Shearwave™ profile

S-Shearwave™ report

* Reliable Measurement Index (RMI) : An indicator that computes the reliability of the calculated stiffness to support the selection of optimal measurements.

CEUS+

CEUS+ is a contrast enhancement imaging technology that utilizes the characteristics of ultrasound contrast agents. The microbubble contrast agent injected into the body through the vein or alike is subjected to perform nonlinear resonance due to stimulation of ultrasound energy. In addition to the nonlinear signal generated by this method, the ultrasound contrast image is implemented by using the harmonic signal and thus utilized for the diagnosis based on the contrast characteristics over time.
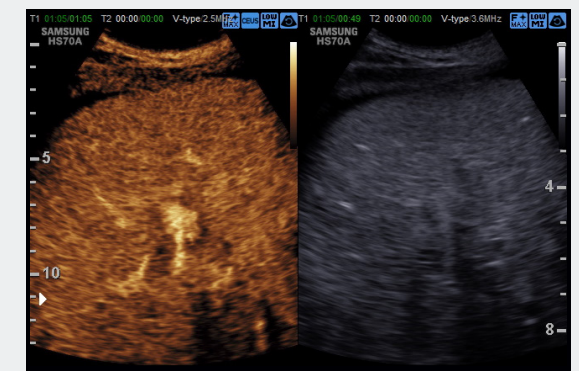
Liver with Ascites

* VesselMax™ : Samsung technology for improved vessel visualization
* FlowMax™ : Samsung technology for improved blood flow visualization

※ VesselMax™ and FlowMax™ are the name of Samsung's ultrasound imaging technology included in CEUS+.

Trustworthy assistance in making the right decision

With its **advanced quantification tools**, the HS70A with Prime supports your knowledge and experience to **help you to make clear, confident decisions**.

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.

* It is a registered trademark of ACR and all rights reserved by ACR.

S-Detect™ for Breast

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-TIRAD and K-TIRADS guidelines; and helps diagnosis with the streamlined workflow.

* 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
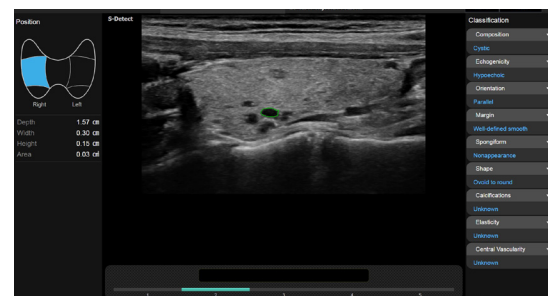
S-Detect™ for Thyroid

ElastoScan™

E-Breast™ (ElastoScan™ for Breast)

E-Breast™ is a technology that calculates the strain ratio between the selected target and surrounding fatty tissues. Especially, it, requires only one ROI to be selected by the user. This simplified process enhances consistency and reduces the chance of error by eliminating the step of manual selection of the surrounding fatty tissue region.
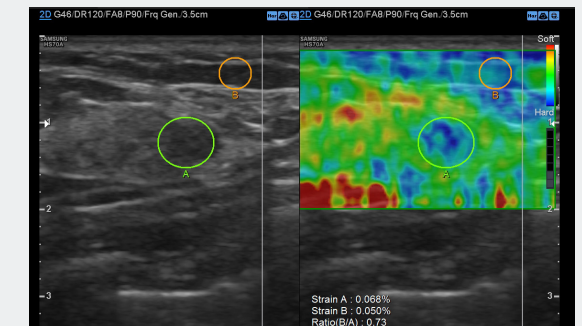
Breast (E-Strain™)

E-Strain™

E-Strain™ is designed to enable quick and easy calculation of the strain ratio between two regions of interest for day-to-day practice. Simply by setting the two targets, you can receive accurate, consistent results and make informed decisions in many types of diagnostic procedures.

E-Thyroid™ (ElastoScan™ for Thyroid)

E-Thyroid™ uses the pulsations of the adjacent common carotid artery (CCA), eliminating the need for manual transducer compression and offering greater consistency in the ElastoScan™ image. E-Thyroid™ provides an elasticity contrast index that is calculated by comparing the elasticity of the lesion and normal tissue within the ROI.
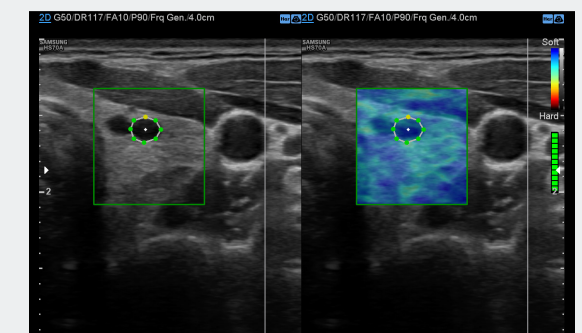
Thyroid

Preventive actions

Built-in and effective functionality allows you to provide **patient-focused preventative care.**

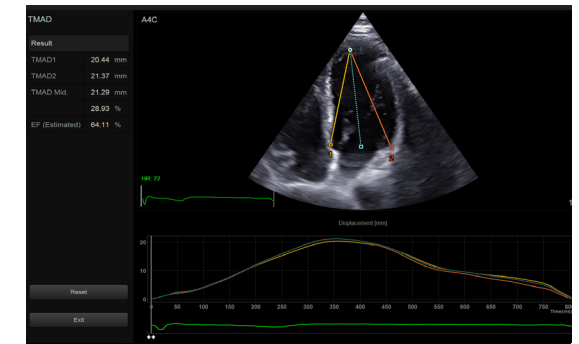Samsung Ultrasound System HS70A with Prime

Strain+

Strain+ is a quantitative tool for measuring global and segmental wall motion of the left ventricle (LV). In Strain+, three standard LV views and a Bull's Eye are displayed in a quad screen for easy and quick assessment of the LV function.
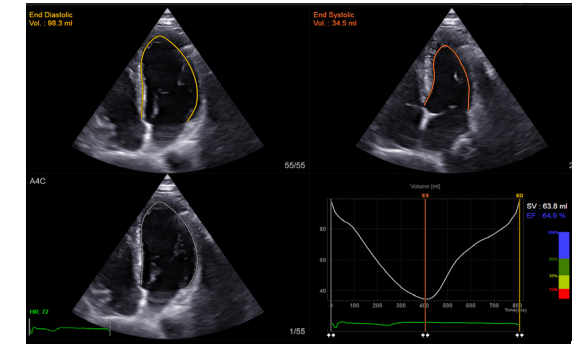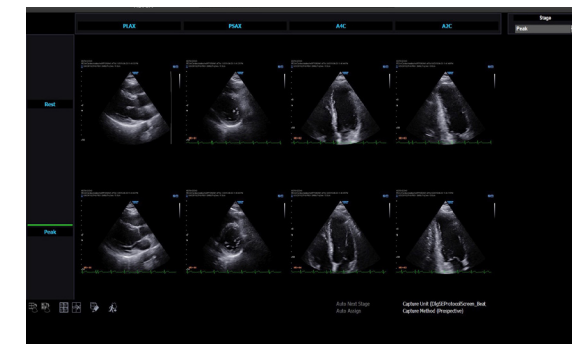

Auto EF

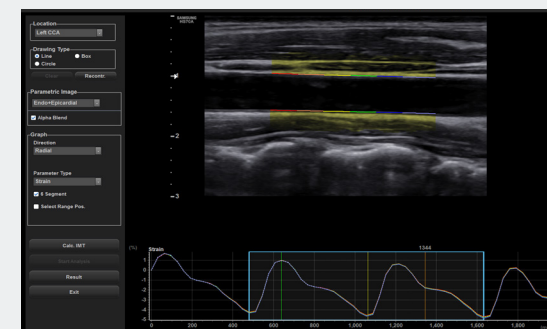Contour edit

TMAD

StressEcho

The StressEcho package includes wall motion scoring and reporting. It includes exercise StressEcho, pharmacologic StressEcho, diastolic StressEcho and free programmable StressEcho.
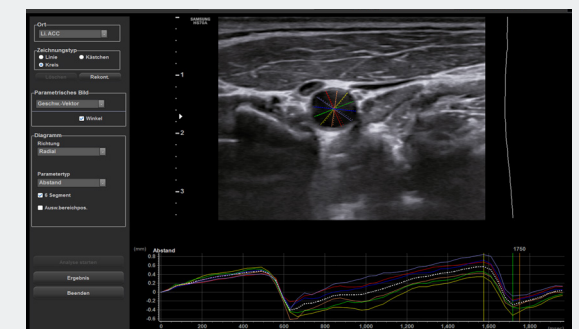

Protocol template *

ArterialAnalysis™

ArterialAnalysis™ detects functional changes of vessels, providing measurement values such as the stiffness, intima-media thickness and pulse wave velocity of the common carotid artery. Since the functional changes occur before morphological changes, this technology supports the early detection of cardiovascular disease.
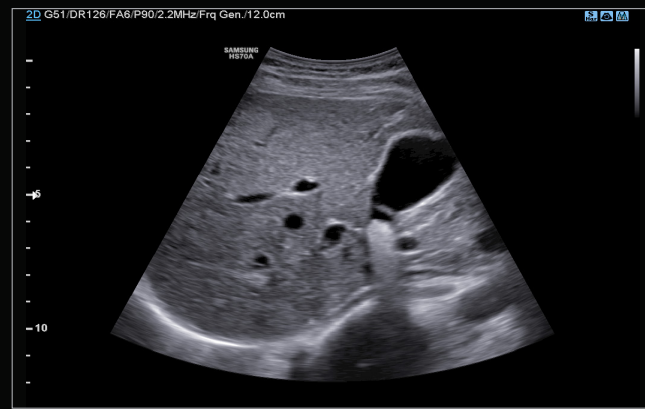

ArterialAnalysis™ *

2D ArterialAnalysis™ radial *

* The asterisks on this page are the clinical images acquired by the HS70A V1.00 ultrasound system.
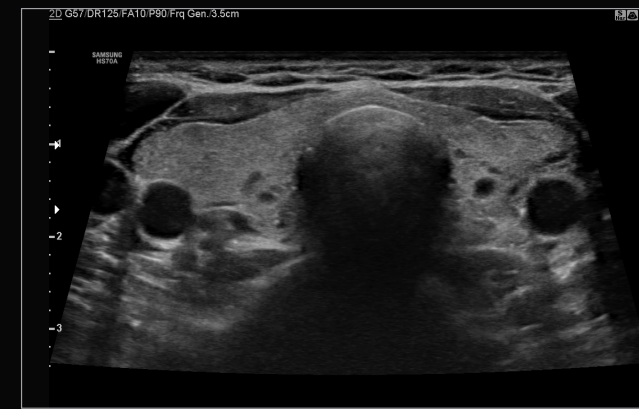
Image gallery
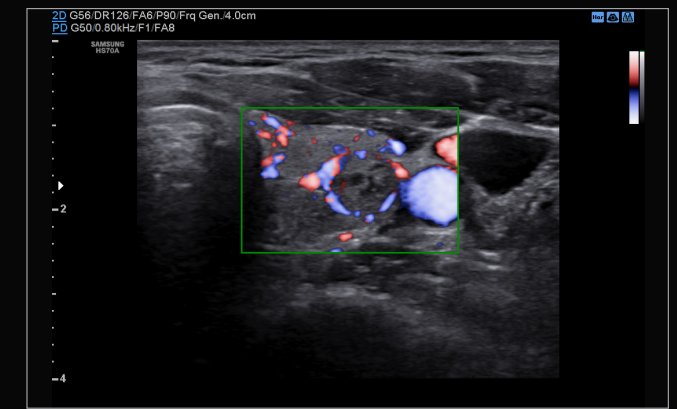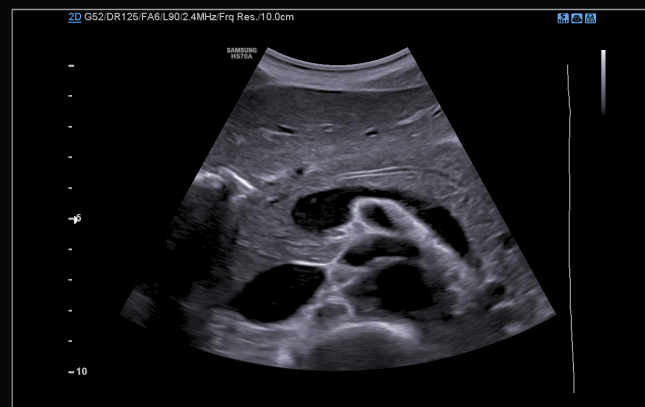

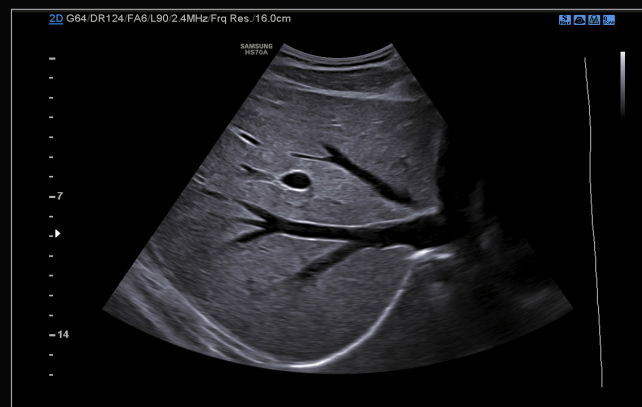GB stones *
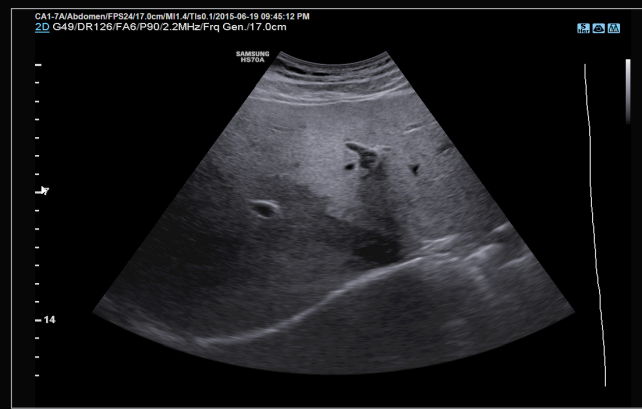
Focal fatty liver *

Thyroid trapezoid

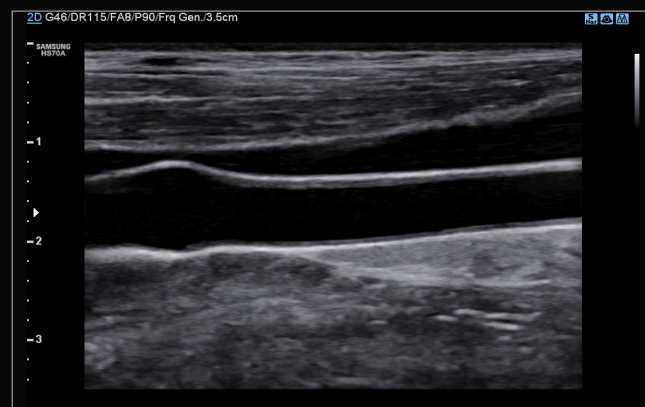Thyroid nodule with S-Flow™ *

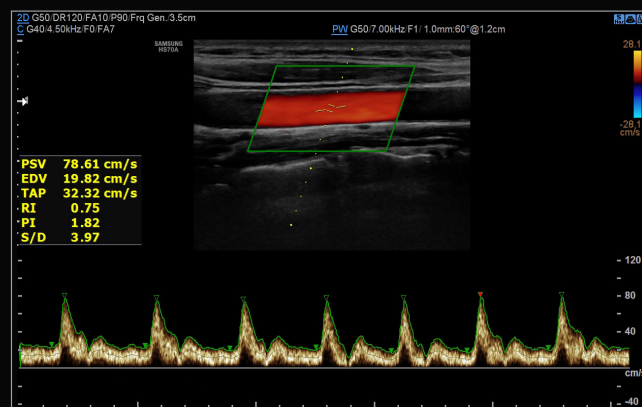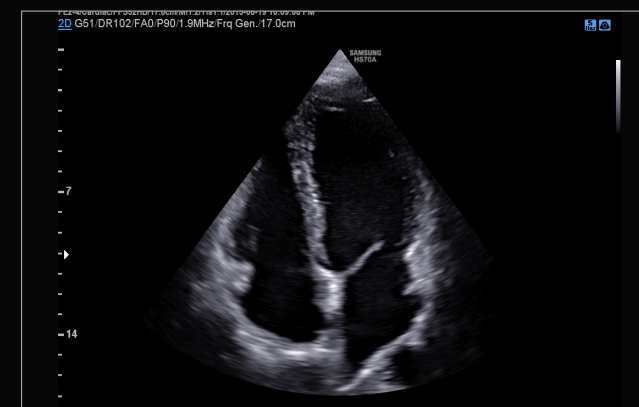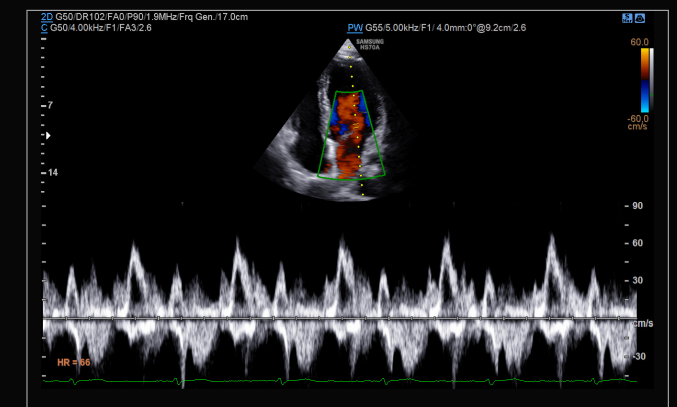Pancreas *

Liver *

Wrist

Spine

CCA *

CCA with PW

4 chamber view *

MV inflow *

Intuitive, streamlined workflow

QuickPreset

With one touch, the user can **select the most common transducer and preset combinations**. QuickPreset increases efficiency to make a full day of scanning simple and easy.

CA1-7A Abdomen

L3-12A Carotid

PE2-4 Adult echo

VR5-9 Adnexa

EzExam+™

EzExam+™ enables you to build or use a predefined protocol, and assign protocols for examinations that are regularly performed in the hospital in order to reduce the number of steps that you have to go through. For fetus diagnosis, in particular, you can arrange the examination order according to the fetus position using the touchscreen, and automatically apply the BodyMarker, Annotation, Measurement, etc.
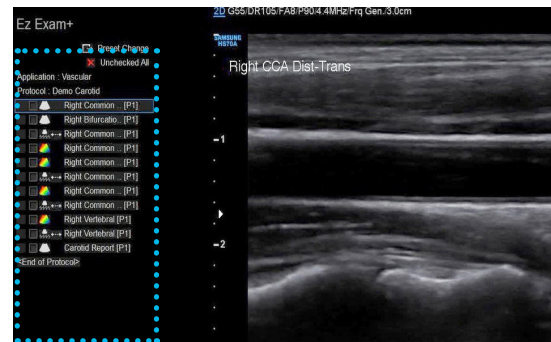
Set up display of EzExam+™ *

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 *

23-inch Full HD LED monitor

23"
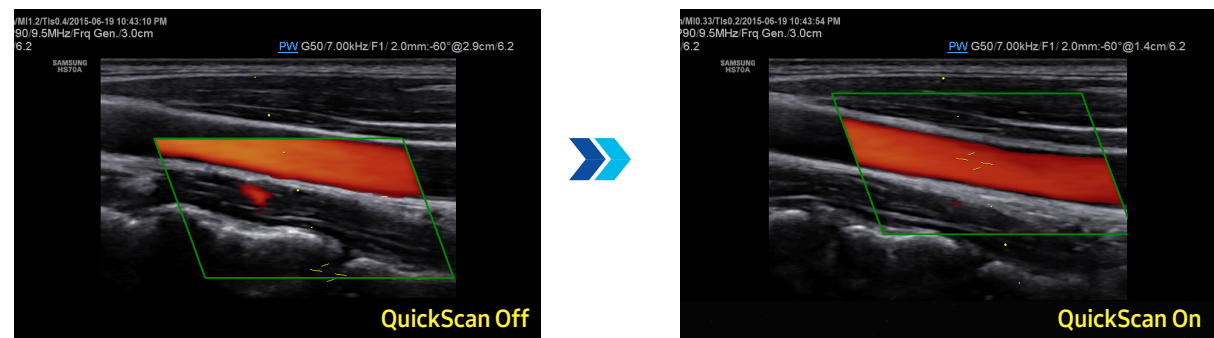
The HS70A with Prime features a 23-inch full HD LED monitor, delivering **excellent contrast resolution, image clarity and vibrant color** in any lighting condition.

10.1-inch touch screen

10.1"

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

Gel warmer

Two-level adjustable gel warmer maintains ultrasound gel at a comfortable temperature.

Silent operation

This exceptionally quiet device allows physical exams to be performed, including auscultation, while the ultrasound system is turned on.

Samsung Ultrasound System HS70A with Prime

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Comprehensive selection of transducers

Curved array transducers

CA1-7A
S-Vue Transducer™
- Application : abdomen, obstetrics, gynecology

CA2-8A
- Application : abdomen, obstetrics, gynecology

CA2-9A
S-Vue Transducer™
- Application : abdomen, obstetrics, gynecology

CA3-10A
S-Vue Transducer™
- Application : abdomen, obstetrics, gynecology

CF4-9
- Application : pediatric, vascular

Volume transducers

CV1-8A
S-Vue Transducer™
- Application : abdomen, obstetrics, gynecology

V5-9
- Application : obstetrics, gynecology, urology

LV3-14A
- Application : small parts, vascular, musculoskeletal

Linear array transducers

LA4-18B
- Application : small parts, vascular, musculoskeletal

L3-12A
- Application : small parts, vascular, musculoskeletal

LA3-16A
- Application : small parts, vascular, musculoskeletal

LA2-9A
- Application : abdomen, small parts, vascular, musculoskeletal

LA3-16AI
- Application : musculoskeletal

Endocavity transducers

EA2-11B
- Application : obstetrics, gynecology, urology

VR5-9
- Application : obstetrics, gynecology, urology

LM4-15B
- Application : small parts, vascular, musculoskeletal, abdomen

CW transducers

DP2B
- Application : cardiac

DP8B
- Application : cardiac, vascular

TEE transducer

MMPT3-7
- Application : cardiac

Phased array transducers

PA4-12B
- Application : cardiac, pediatric

PE2-4
- Application : abdomen, cardiac, TCD

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