

Mobile excellence

HM70A with Plus



SAMSUNG

Deliver excellence wherever you go

A slim and compact ultrasound system **HM70A with Plus** offers uncompromised image performance and easy-to-use features to let you deliver excellence on the move.



product
design award

2013



Excellent image quality

High-quality images are critical for physicians using ultrasound in any clinical environment and are the key to accurate diagnoses. The HM70A with Plus integrates intelligent imaging technologies to fulfill a wide range of needs with excellent image quality.

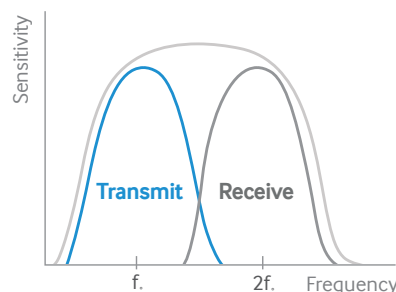
Hybrid beamforming engine

Samsung's innovative hybrid beamforming engine provides more precise transmission and reception of the ultrasound signal, resulting in exceptional image clarity.

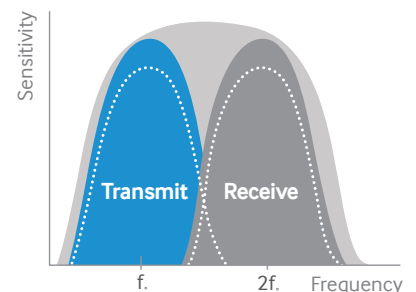


S-Vue transducer

In addition to the advanced beamforming capabilities, the HM70A with Plus incorporates the next generation single crystal probe technology called S-Vue™ transducers. Employing a superior crystal design, S-Vue™ transducers provide more efficient piezoelectric properties, resulting in wider bandwidths for superior penetration and higher quality resolution on even the most challenging of patients.



Transmit/Receive at conventional transducer



Transmit/Receive at S-Vue transducer

Excellent image quality

15-inch LED monitor

The HM70A with Plus features a 15" full HD LED display, delivering excellent contrast resolution, image clarity and vibrant color in any lighting condition.

ClearVision™

ClearVision™ is an advanced multi-filtering technology designed to decrease speckle, enhance border detection and display exceptional contrast resolution. ClearVision™ significantly enhances image clarity, providing more confident assessment of fetal anatomy.

S-Flow™

S-Flow™ is a highly sensitive Doppler technology utilizing both phase (directional) and amplitude data to ensure confident vascular documentation on even the smallest peripheral vessels.

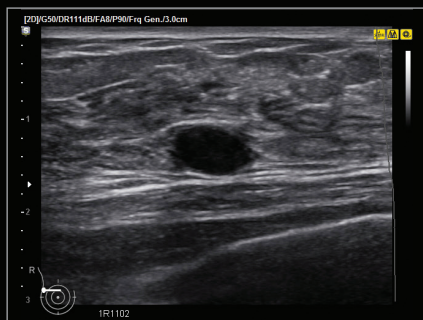
HDVI™ Option

HDVI™ improves contrast resolution and reduces speckle noise in 3D reconstructed planes and rendered volume images. HDVI™ (high definition volume imaging) quickly renders outstanding images at the touch of a button.

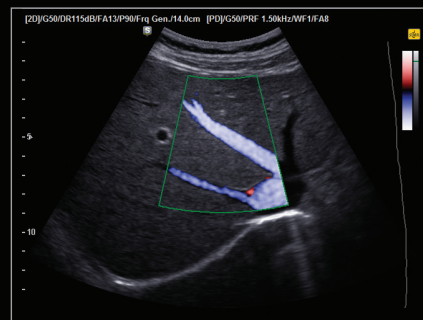




Thyroid with ClearVision™

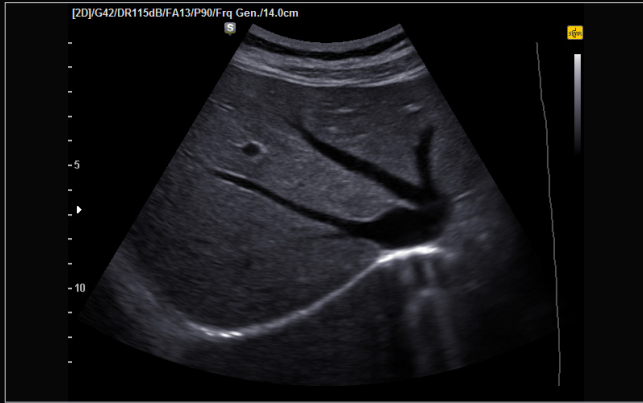


Breast lesion with ClearVision™

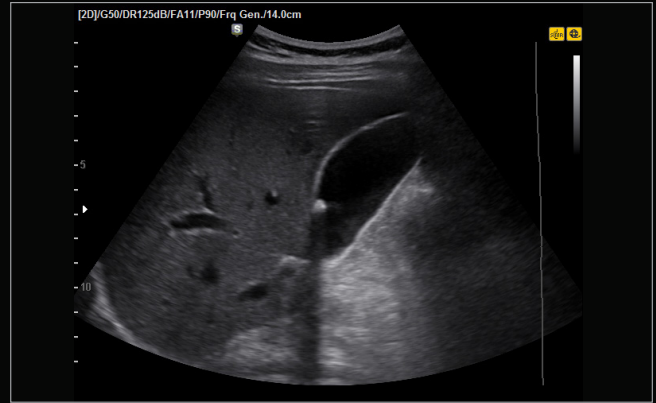


Abdomen with S-Flow™

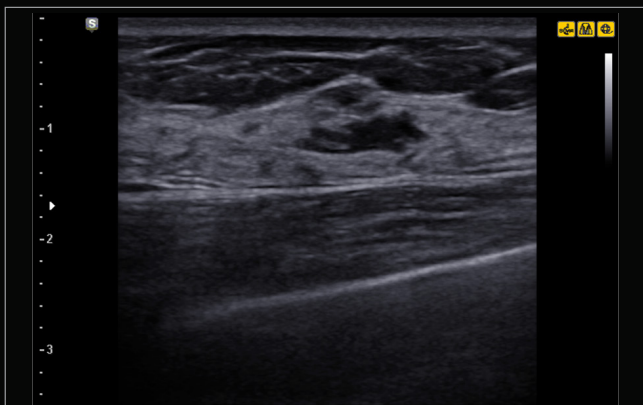
Image gallery



Liver



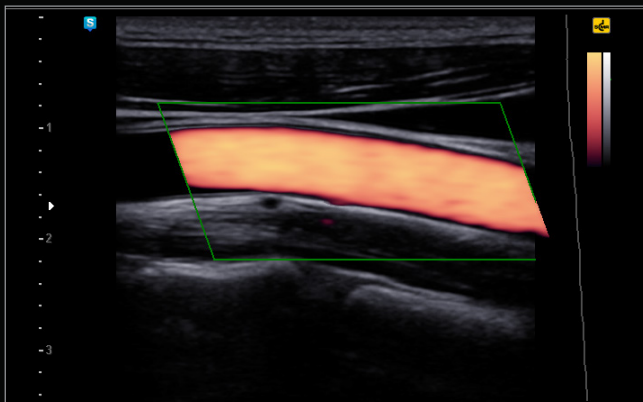
GB stone



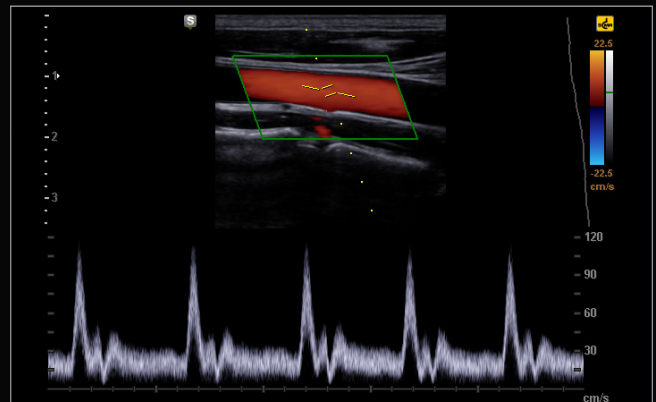
Breast



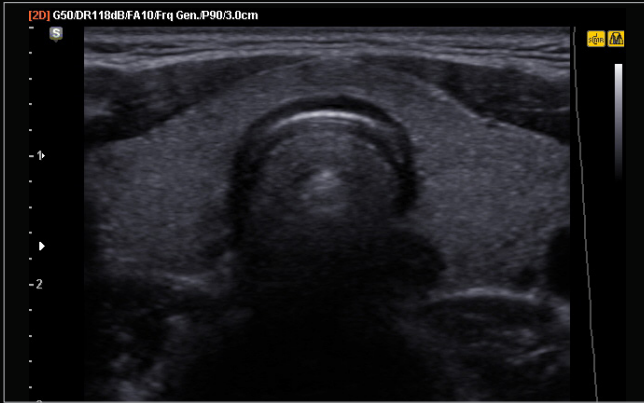
Carotid artery



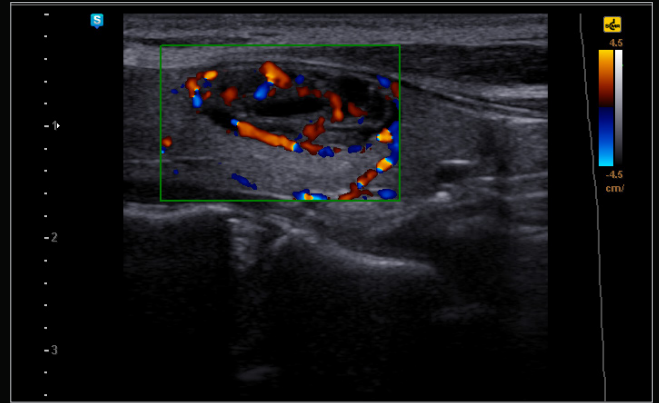
Carotid artery with power Doppler



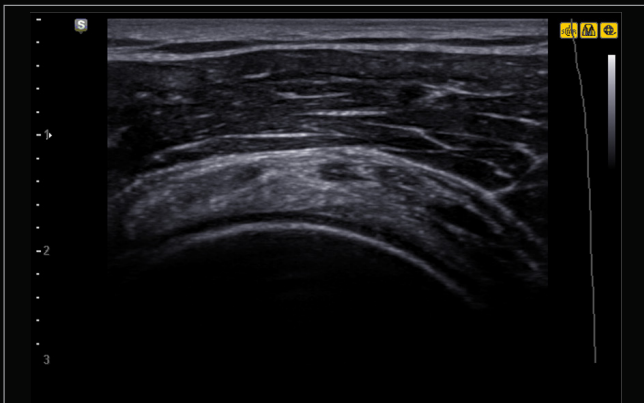
Carotid artery with pulsed wave



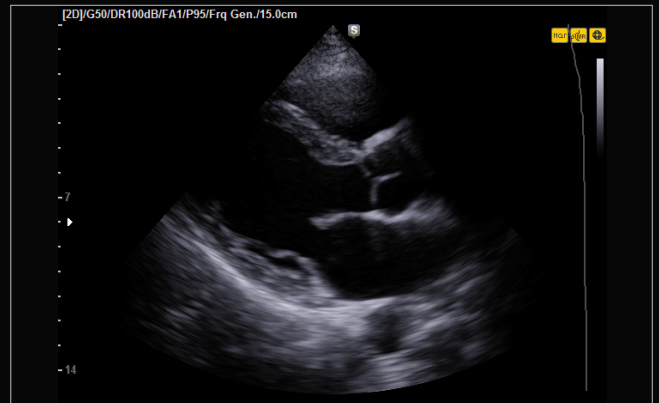
Thyroid



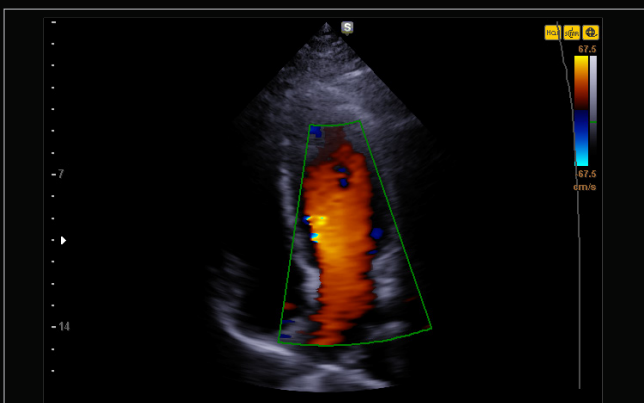
Thyroid nodule with color



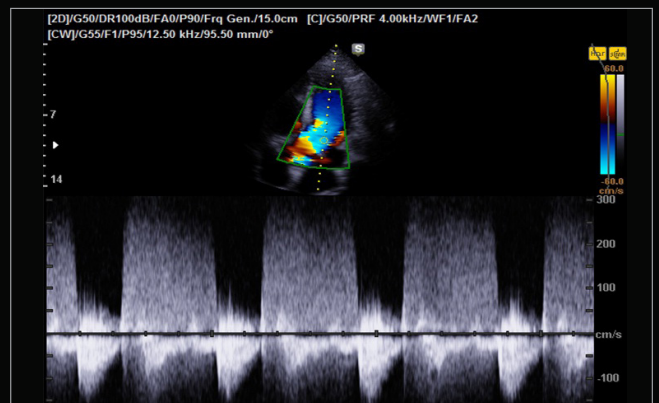
Shoulder



Cardiac



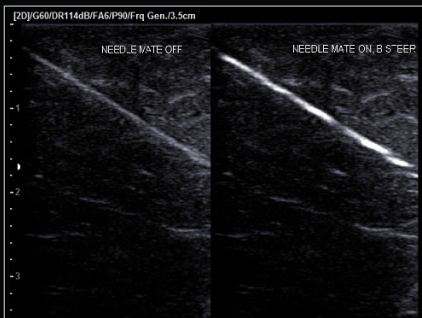
Mitral valve with color



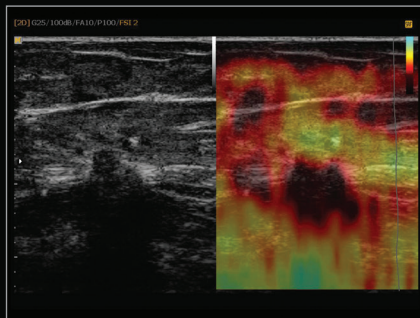
Mitral valve with continuous wave

EZ Exam™

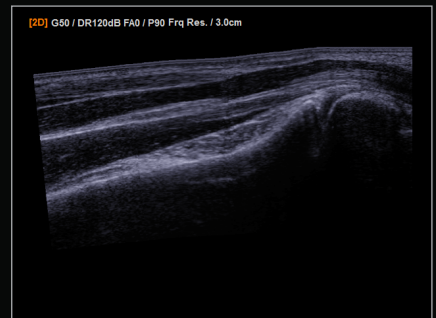
EZ-Exam+ transforms the ultrasound examination into a well-organized streamlined process. EZ-Exam+ enables the user to create an efficient diagnostic environment storing optimized and preferred protocols within the EZ-Exam+ function control.



Needle Mate™



Breast lesion with ElastoScan™



Panoramic view of wrist



Samsung innovative technologies

Samsung is devoted to developing ultrasound technologies for thorough patient care. These advanced technologies are in the HM70A with Plus, a compact and smart system.

Needle Mate™

With pinpoint precision, Needle Mate™ delineates needle location when performing interventions such as nerve blocks. Improved accuracy and efficiency in diagnosis are possible with beam steering added to Needle Mate™.

ElastoScan™ Option

ElastoScan™ technology facilitates an effective method for assessment and documentation of tissue stiffness. ElastoScan™ may prove an effective adjunct to conventional grayscale imaging, often providing more defined visualization of tumor margins.

Panoramic Option

Panoramic imaging displays as an extended field-of-view so users can examine wide areas that do not fit into one image as a single image. Panoramic imaging also supports angular scanning from linear transducer data acquisition.

QuickScan™

Provides intuitive optimization of gray scale and Doppler parameters. One click adjusts color gain and color box location for improved efficiency and workflow.

Samsung innovative technologies

With cardiac imaging performance and reporting tools, the HM70A with Plus helps physicians better focus on finding solutions to challenging cases while also maintaining optimal productivity.

Strain+ Option

Strain+ quantitatively displays a Bull's Eye which depicts left ventricular motion and dyssynchrony at a glance.

- Comprehensive LV presentation
- Simultaneous chamber view with its segmental information
- Intuitive segmental strain values and time to peak

Stress Echo Option

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

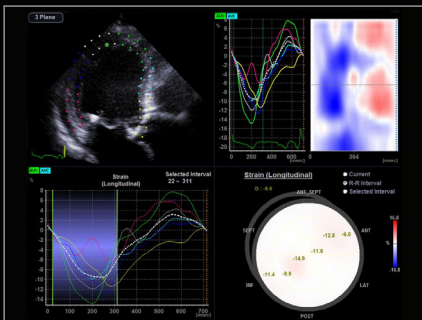
Auto IMT™ Option

Auto IMT+ is a screening tool to analyze a patient's potential risk of stroke and heart disease. Auto IMT+ provides easy intra-media thickness measurements of both anterior and posterior walls of the common carotid artery with the click of a button. This simple procedure enhances exam productivity and may offer additional diagnostic value.

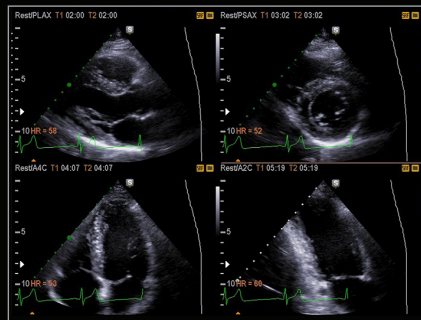


Fast & Ergonomic

An SSD delivers extremely fast resume-from-sleep times in fast booting mode. Enter scan mode in as little as 10 seconds—perfectly suited for emergency environments.



Strain



Stress Echo



IMT measured with Auto IMT™

Designed for your convenience

The HM70A with Plus is exceptionally comfortable for users because it adapts to the varying needs of physicians and sonographers with outstanding ergonomics, mobility, and time-efficiency. In addition, Samsung's design principles give it a clean, slim appearance in the office environment.

Full screen mode

Backlit keyboard and control panel

Front and rear handles

Compact and lightweight





Features of the optional cart and battery:

1 Gas lift

Users can adjust the height of the system on the cart without straining their arms.

2 On-cart power outlets

Users can utilize the power outlets on the cart without having to look for multiple outlets in the exam room.

3 Extended transducer ports

Users can connect up to three transducers with the optional extended transducer ports on the optional cart, saving the time and labor spent on switching transducers. The three connected transducers can be used even during battery mode.

4 Extended battery

Users can use the optional rechargeable battery for long-term operation. The extended battery supports approximately 2.5 hours of system operation when it is fully charged.

* The battery time is based on internal tests, it could be changed based on user pattern.

Comprehensive collection of transducer

Curved array transducers



CA1-7AD

- Application : abdomen, obstetrics, gynecology, musculoskeletal
- Field of view : 70°

C2-6

- Application : abdomen, obstetrics, gynecology
- Field of view : 57.5°

SC1-6

- Application : abdomen, obstetrics, gynecology
- Field of view : 60.61°

CF4-9

- Application : vascular, pediatric
- Field of view : 92°

Linear array transducers



L4-7

- Application : abdomen, musculoskeletal, small parts, vascular
- Field of view : 44.16mm

LA3-16AD

- Application : small parts, vascular, musculoskeletal
- Field of view : 38.4mm

L5-13

- Application : musculoskeletal, small parts, vascular
- Field of view : 38.4mm

L7-16

- Application : musculoskeletal, small parts, vascular
- Field of view : 38.4mm

LS6-15

- Application : musculoskeletal, intraoperative
- Field of view : 25.6mm

Volume transducers



V5-9

- Application : obstetrics, gynecology, urology
- Field of view : 150.6°

VN4-8

- Application : abdomen, obstetrics, gynecology
- Field of view : 76°

Endocavity transducer



EVN4-9

- Application : obstetrics, gynecology, urology
- Field of view : 148°

Phased array transducers



PE2-4

- Application : abdomen, cardiac, TCD
- Field of view : 90°



P3-8

- Application : abdomen, cardiac
- Field of view : 90°

CW transducers



DP2B

- Application : cardiac



CW2.0

- Application : cardiac



CW4.0

- Application : cardiac



MMPT3-7

- 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 commercialized the Live 3D technology in 2001 and since becoming 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-HM70A GI V2.0-FTW-150813-EN

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

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

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