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CT-HM70A V1.01 OB/GYN-FTW-141203-EN

S-Vue stands for Samsung transducer technology which supports broader bandwidth and higher sensitivity.



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# Samsung Ultrasound HM70A

## Excellence on the move



**SAMSUNG**





## Deliver excellence wherever you go

Featuring the advanced imaging technology incorporated in a compact hardware, the new HM70A is the smart choice for physicians and sonographers who want to deliver excellence in clinical efficiency and patient care wherever they go. The HM70A assists greatly in making ultrasound exams and ultrasound-guided procedures more accurate and simple with its image performance and efficient, easy-to-use features. Furthermore, the HM70A offers versatile portability through its slim and compact design, thus reinforcing the productivity of the users' clinical environments.

### Hybrid imaging engine

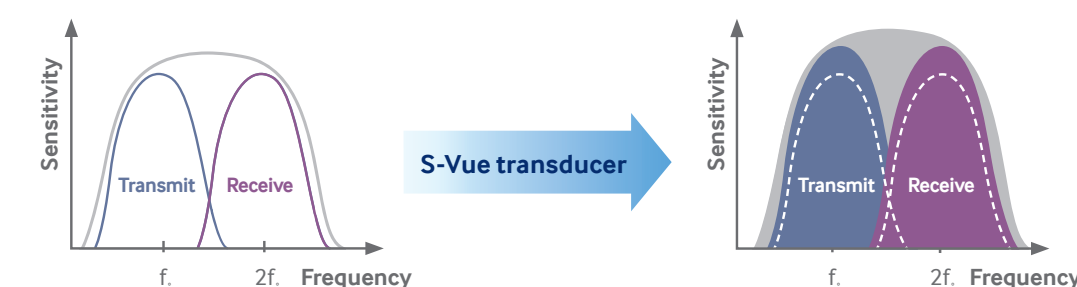
With this advanced technology, data is processed more quickly and accurately through optimized processing, thereby enabling more in-depth, detailed scanning with a higher energy output.



### S-Vue transducer



The S-Vue transducer provides broader bandwidth and higher sensitivity. This allows to deliver high image resolution even with the technically challenging patients. In addition, the ergonomically designed and lightweight transducer enables users to experience less fatigue.



\*Compared with the conventional Samsung transducers



# Uncompromised image quality

High quality image is the key to accurate diagnosis and of importance for physicians using ultrasound in any clinical environment. Integrating intelligent imaging technologies that enable users to achieve accurate diagnosis, the HM70A fulfills a wide scope of imaging needs with its superb image quality.

## 15-inch LED monitor

The monitor provides superior performance, delivering exquisite detail resolution for more accurate diagnosis.

## SDMR™

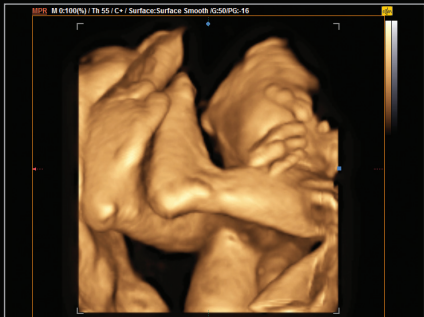
SDMR™ virtually eliminates unwanted speckle noise, providing excellent contrast resolution with enhanced edge definition for unsurpassed image clarity.

## S-Flow™

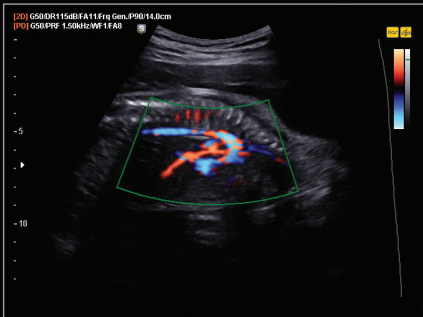
S-Flow™, a sophisticated color Doppler technology with greater sensitivity, can help to detect even the small peripheral blood vessels. It enables accurate diagnosis when blood flow examination is especially difficult.

## HDVI™

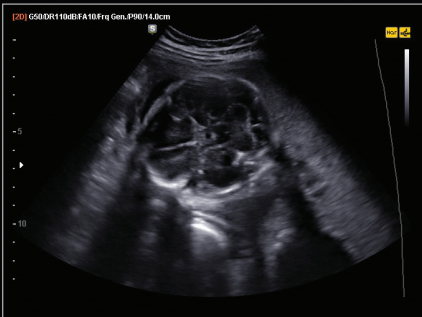
HDVI™ improves the visualization of edges and small structures in 3D reconstructed planes. HDVI (High Definition Volume Imaging)™ quickly renders outstanding images at the touch of a button.



Fetal feet in 3D/4D mode



Aortic arch view with S-Flow™



Fetal brain with SDMR™





## Exams made simpler and easier

The HM70A's various functions simplify the exam workflow for users by enabling them to easily execute measuring processes with a simple touch without going through multiple, complex steps. The HM70A's multitude of effective tools will help to raise efficiency and improve quality of care.

### 4D and 3D XI™

Equipped with 4D and 3D XI™, the HM70A can be used for diagnostic 3D/4D imaging. 3D XI™ allows for easy manipulation of 3D/4D volume data to increase diagnostic accuracy.

### Volume NT & IT™

Volume NT & IT™ can determine the mid-sagittal plane and measure the fetal NT (nuchal translucency) and IT (intracranial translucency) thicknesses from volume data. It helps to improve exam consistency by reducing user dependency of the measurements.

### EZ Exam™

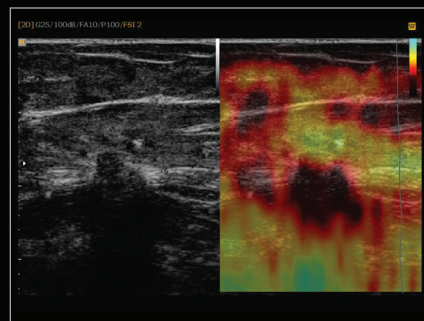
EZ Exam™ transforms multiple steps into a streamlined process at the touch of a button, reducing repetition.

### ElastoScan™

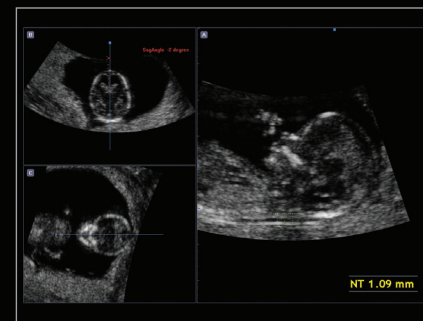
A diagnostic ultrasound technique for imaging elasticity, ElastoScan™ detects the presence of a solid mass in tissues and converts the stiffness into color images. It verifies the presence of lesions reducing the burden of further cervical palpation.



Fetal hand in 3D/4D mode



Breast ElastoScan™



Fetal NT thickness measured with Volume NT & IT™



# Clinical efficiency boosted

Reducing patient exam time is critical to increasing clinical efficiency. With various time-saving tools, the HM70A helps to increase patient throughput so that physicians can better focus on finding solutions to challenging cases while also maintaining optimal productivity.

## MagiCut™

With MagiCut™, users can digitally erase any object that hides the desired 3D image. This simple, user-controlled feature quickly eliminates a specific target within the volume and can also easily recover the erased information by reversing the action.

## SFVI™

SFVI ( Filter Volume Imaging)™, a notable digital signal filtering technology, improves 3D image quality to a high level at the touch of a button.

- Clear SFVI™ removes unwanted noise, resulting in clear images.
- Detailed SFVI™ sharpens border definition on 3D images.

## ADVR™

ADVR™ technology permits simultaneous scanning and recording of an ultrasound study. The simultaneous recording can be done on an external USB device in HD format (1024x768) or on the integrated DVD drive (720x480).

## Full screen mode

With one touch, users can expand the image area to fit the entire screen, optimizing the view for image analysis. Users also can control various imaging parameters when in full screen mode.

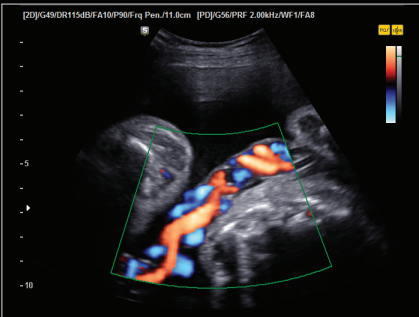


## Fast booting

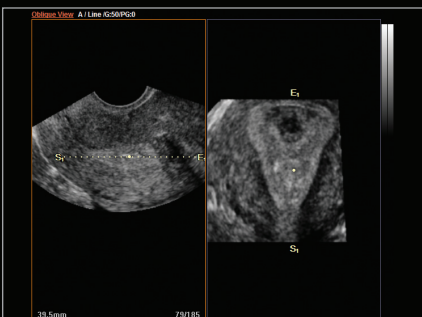
SSD technology enables powering on in 60 seconds from the powered off state, and 10 ~ 20 seconds from the sleep mode. With the setup utility, users can program the system to wake upon opening the lid or pressing the power button.



19 weeks fetus with SFVI™



Umbilical cord



Coronal plane of the uterus with Oblique View™



# Unparalleled comfort in use

The HM70A is designed for users' comfort by adapting to the varied needs of physicians and sonographers, including exceptional ergonomics, mobility, and expandability. In addition, it reflects Samsung's streamlined design principles for a clean, slim appearance within the clinical environment.

## Backlit keyboard and control panel

Users can operate the HM70A even in low-lit areas.

## Front and rear handles

Users can transport the system on the optional cart or carry it by hand for easy mobility and effortless maneuverability.

## Compact and lightweight

The functional laptop-sized ultrasound system is slim and lightweight, at 6.1 kg (13.67 lb). Users can easily take the system to patient locations.



## 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. Furthermore, 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 battery supports 150 minutes of system operation when it is fully charged.

\*Above options may not be available for use in some countries.



# Versatile selection of transducers

The comprehensive selection of transducers ensures a proper fit for user's specific needs.

## Curved array transducers



### CA1-7AD

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



### C2-6

- Application : abdomen, obstetrics, gynecology
- Field of view : 58.12°



### SC1-6

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



### CF4-9

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

## Phased array transducers



### PE2-4

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



### P3-8

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

## 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

## CW transducers



### DP2B

- Application : cardiac



### CW2.0

- Application : cardiac



### CW4.0

- Application : cardiac

## Volume transducer



### VN4-8

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

## Endocavity transducer



### EVN4-9

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



