

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 OB 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.



Scan code or visit
www.samsungmedison.com/ultrasound/ob-gyn/hm70a/
to learn more

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Mobile excellence

Ultrasound system HM70A with Plus



SAMSUNG

Deliver excellence wherever you go

Featuring advanced imaging technology incorporated in compact hardware, the HM70A with Plus is the right choice for physicians and sonographers who want to deliver excellence in patient care and clinical efficiency wherever they go. The HM70A with Plus helps make ultrasound exams and ultrasound-guided procedures more accurate and streamlined with its image performance and efficient, easy-to-use features. The HM70A with Plus' slim and compact design offers versatile portability and increases productivity.

Aug 2015



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.

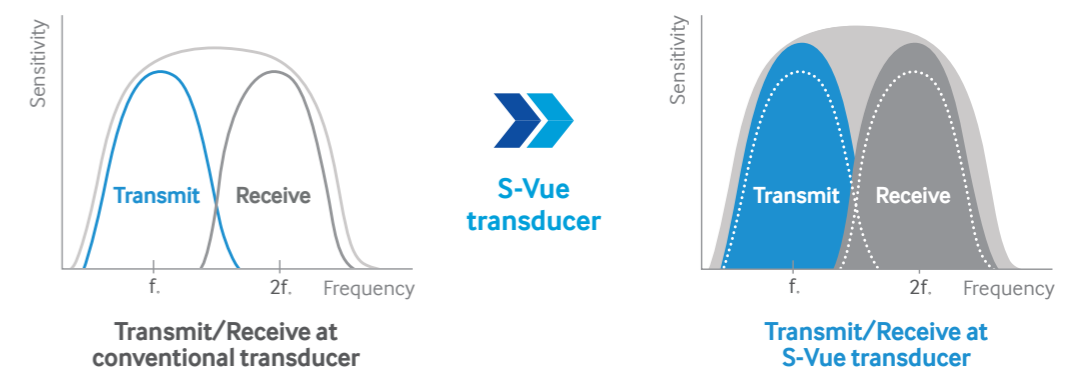
Hybrid beamforming engine

A combination software and hardware imaging engine offers faster and more accurate data processing, which means more in-depth and detailed scanning.



S-Vue transducer (CA1-7AD, CV1-8AD)

The S-Vue transducer offers a larger bandwidth and higher sensitivity both in transmit and receive capabilities. The combination of the Hybrid beamforming engine with the S-Vue transducer allows easier visualization of difficult-to-image pathologies. Also, the ergonomically designed S-Vue transducer is easy to hold and manipulate.



Excellent image quality

15-inch LED monitor

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

ClearVision™

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

S-Flow™

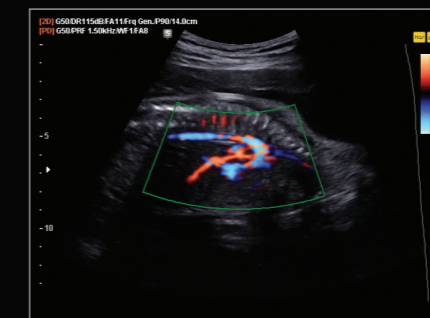
S-Flow™ is a sensitive color Doppler that can reveal peripheral blood vessels even when blood flow detection is difficult.

HDVI™

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.



Fetal feet in 3D mode



Aortic arch view with S-Flow™

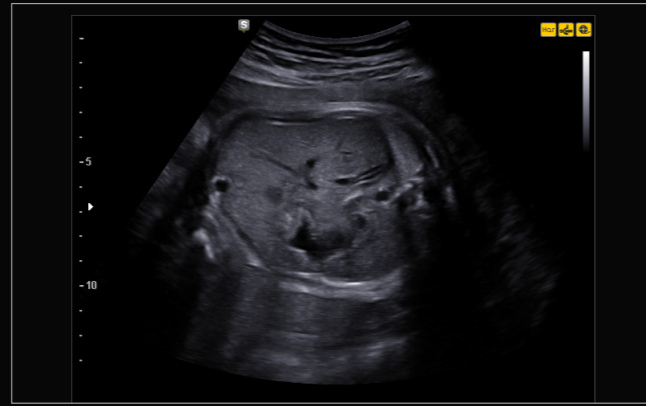


Fetal brain with ClearVision™

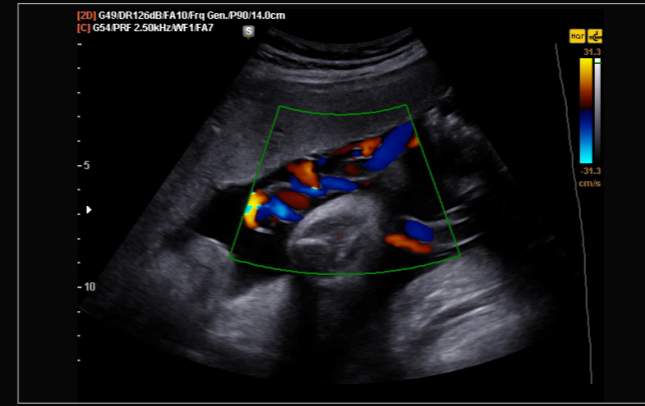
Images rich in detail



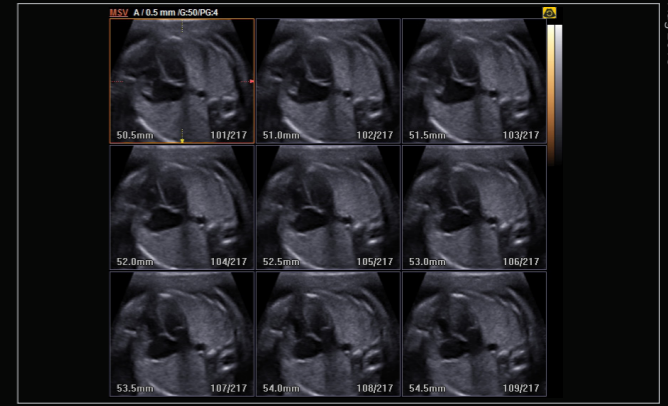
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Fetal abdomen

Fetal abdomen

Umbilical cord

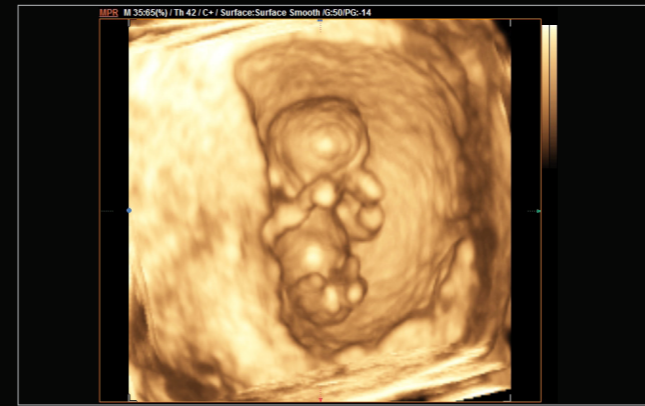
Fetal heart with MSV



Aug 2015



Aug 2015



Aug 2015



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Fetal heart

Fetal spine

1st trimester fetal 3D

2nd trimester fetal face 3D



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Fetal brain

Fetal gender

2nd trimester fetal face 3D

3rd trimester fetal hand 3D



Excellent 3D imaging solutions

Samsung is devoted to developing 3D/4D ultrasound technologies for thorough patient care. These advanced technologies are in the HM70A with Plus, a compact and smart system.

3D XI™

Equipped with 3D XI™, the HM70A with Plus can be used for diagnostic 3D imaging. 3D XI™ allows for easy manipulation of 3D volume data for diagnostic accuracy.

Volume NT™

Volume NT can determine the mid-sagittal plane and measure the fetal NT (nuchal translucency) and IT (intracranial translucency) thicknesses from volume data. This makes exams more consistent by reducing dependency on measurements.

MagiCut™

With MagiCut™, users can digitally erase any object that hides the desired 3D image. This easy-to-use, user-controlled feature quickly eliminates a specific target within the volume; the erased information can be easily recovered by reversing the action.

SFVI™

SFVI™ (smart filter volume imaging), a digital signal filtering technology, improves 3D image quality with the touch of a button.

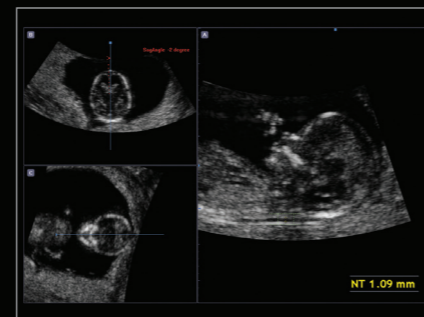
- Clear SFVI™ removes unwanted noise, resulting in clear images
- Detailed SFVI™ sharpens border definition on 3D images



Fetal face in 3D mode



Fetal face in 3D mode



Fetal NT thickness measured with Volume NT & IT™

Uncompromised comfort in use

Reducing patient exam time is critical to increasing clinical efficiency. The HM70A with Plus' time-saving tools help increase patient throughput so physicians can maintain optimal productivity while finding solutions to challenging cases.

Fast booting

SSD technology enables powering on in 60 seconds from the powered off state, and in approximately 14 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.

EZ Exam™

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

QuickScan™

Important imaging parameters can be optimized with the touch of a button, increasing workflow efficiency. In 2D imaging, QuickScan™ quickly optimizes brightness levels by adjusting the gain and TGC controls. In PW Spectral Doppler Mode, QuickScan™ easily optimizes the spectrum by adjusting the scale and baseline.

ADVR™

ADVR™ technology permits the simultaneous scanning and recording of an ultrasound study. The simultaneous recording can be done on an external USB device.



19 week fetus with SFVI™



Fetal abdomen with QuickScan™



Fetal brain with QuickScan™

Uncompromised comfort in use

The HM70A with Plus is exceptionally comfortable for users adapting 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 clinic.

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.

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 fully 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. 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 3.5 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.

Versatile selection of transducers

Curved array transducers



S-Vue transducer

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°

Endocavity transducer



EVN4-9

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

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

Phased array transducers



PE2-4

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

P3-8

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

Volume transducers



S-Vue transducer

CV1-8AD

- Application : abdomen, obstetrics, gynecology
- Field of view : 72°

V5-9

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

VN4-8

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

CW transducers



DP2B

- Application : cardiac

CW2.0

- Application : cardiac

CW4.0

- Application : cardiac

MMPT3-7

- Application : cardiac