

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 confidence diagnosis.

CT-A35 V3.01 OB/GYN-FTW-141203-EN

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



Scan code or visit  
<http://www.samsungmedison.com>  
to learn more

# Leading the new standards

## Ultrasound system **ACCUVIX A35**



**SAMSUNG MEDISON CO., LTD.**

© 2014 Samsung Medison All Rights Reserved.  
Samsung Medison reserves the right to modify the design, packaging,  
specifications, and features shown herein, without prior notice or obligation.

**SAMSUNG**





## Experience outstanding performance

As the pioneer in ultrasound and imaging, Samsung sets global standards in ultrasound systems. We focus on supporting more accurate, easier and faster diagnosis. Our new A35 system establishes new benchmarks in operational convenience with features such as EZ Exam™ and ElastoScan™. Furthermore, the A35 offers 23-inch LED ultrasound monitor, enriched 3D performance, increased detection rates, customizable interface and ergonomic design.

### Hybrid beamforming engine

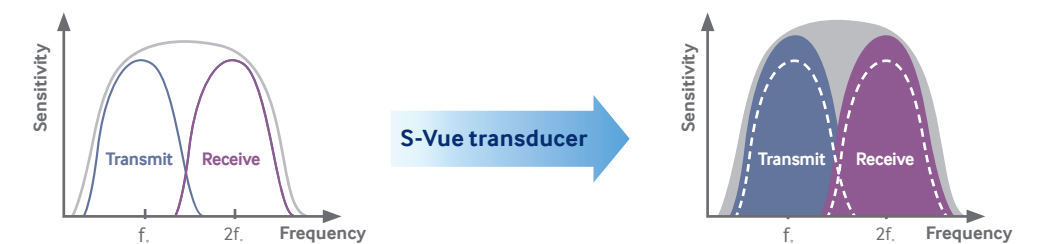
With enhanced H/W and newly added S/W engines, users can process data more accurately through optimized processing. This hybrid beamforming engine enables a more in-depth, more detailed scanning with a higher energy output.



### S-Vue transducer



The S-Vue transducer (CV1-8A, CA1-7A) provides broader bandwidth and higher sensitivity. This allows to deliver high image resolution even with technically challenging patients. In addition, the ergonomically designed and lightweight transducer enables users to experience less fatigue. Especially, CV1-8A is approximately 30% lighter than the conventional Samsung transducer.



\*Compared with the conventional Samsung transducers



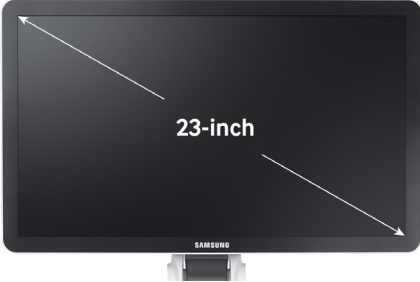
# Uncompromised image quality

Sophisticated image processing technology detailing skin tone and facial features provides outstanding accuracy for users and memorable experiences for mothers. Our recent breakthroughs in lifelike images are displayed on the full HD LED ultrasound monitor, with superior color performance and special filtering that removes unwanted speckle and noise. Images are not only rendered with more life-like details on optimal fetal display, but also processed and stored noticeably easier.



### 23-inch LED monitor

With the release of the 23-inch LED ultrasound monitor, the A35 introduces high-quality color image representation. The new, wider monitor provides superior performance over CRT and LED monitors, delivering higher resolution for more accurate diagnosis.



### DMR+™

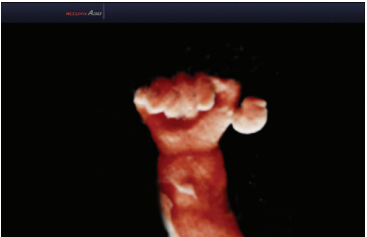
A new engine that integrates Samsung software and enhances image quality, DMR+™ has a noise reduction filter that increases edge enhancement and produces sharper 2D images for improved diagnostic performance.



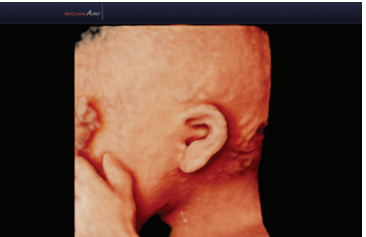
Thyroid colloid cyst with DMR plus™

### FRV™ (Feto Realistic View)

FRV™ is an image rendering technology that gathers much more information of 3D/4D data than previous technology, and enables to express more detailed images of the fetus. FRV™ is also compatible with Samsung's other 3D functions such as HDVI™, SFVI™ or VC.



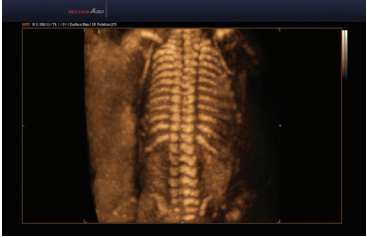
Abnormal hand with FRV™



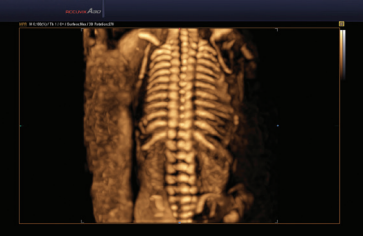
Fetal ear with FRV™

### HD Volume Imaging™

By utilizing special filtering that removes unwanted speckle and noise while simultaneously improving visualization of edges and small structures in volume data, HDVI™ renders clearer and more accurate images.



Fetal spine without HDVI™

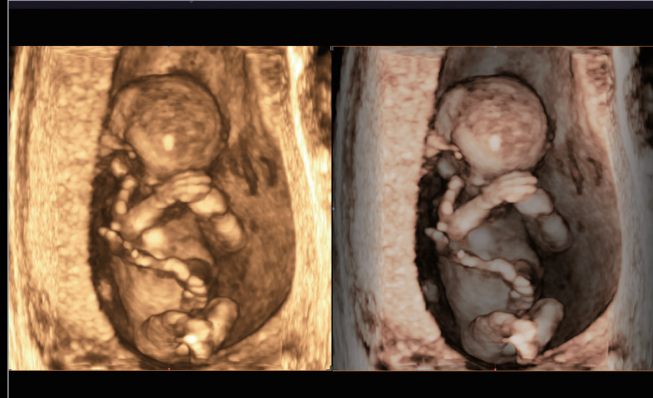


Fetal spine with HDVI™

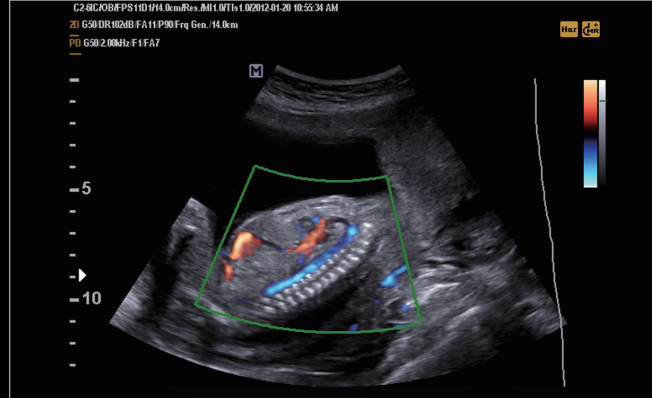


# Achieve enhanced image

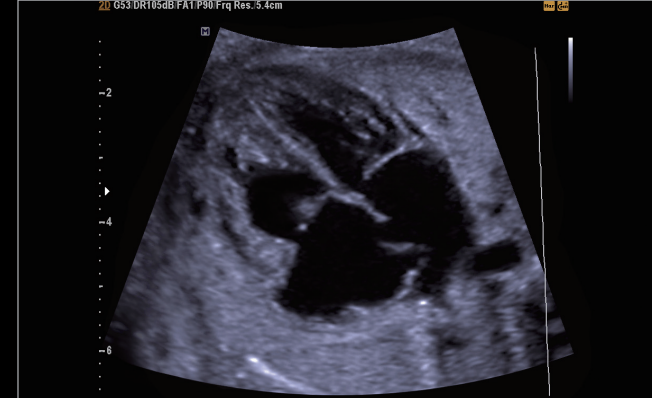
Our outstanding diagnostic systems rely on decent technologies to enhance ultrasound imaging. Thanks to improved and sharper contrast resolution, images are in higher quality making them easier to analyze. With advanced imaging construction, the A35 improves efficiency in imaging under all possible conditions.



Early Fetus 3D with VSI™



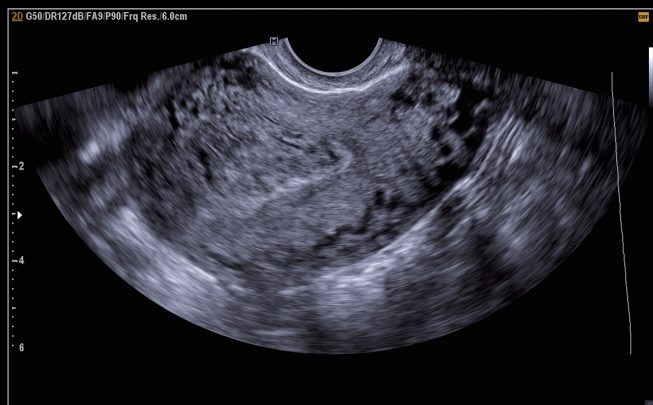
Aortic arch view



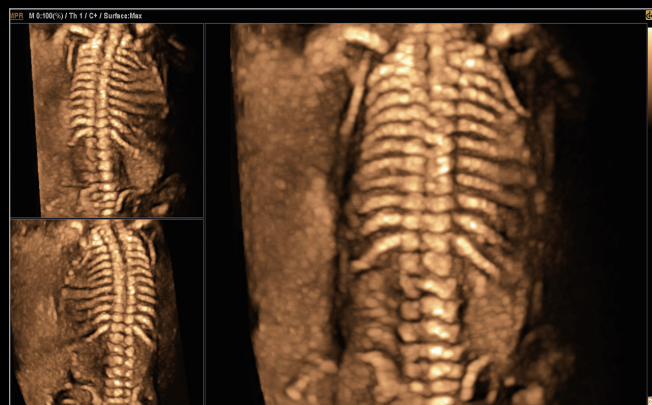
Zoom image of fetal heart 4 chamber



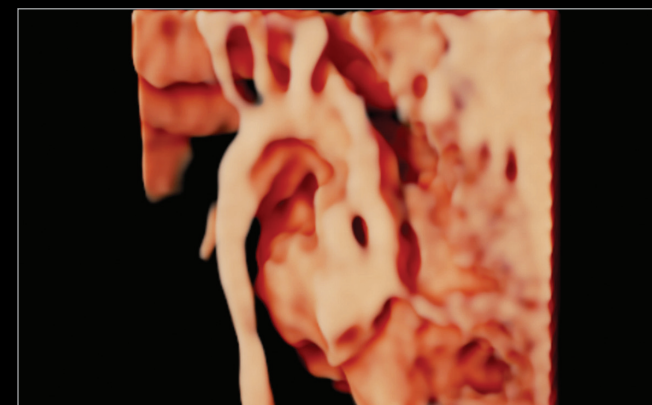
9 weeks fetus with FRV™



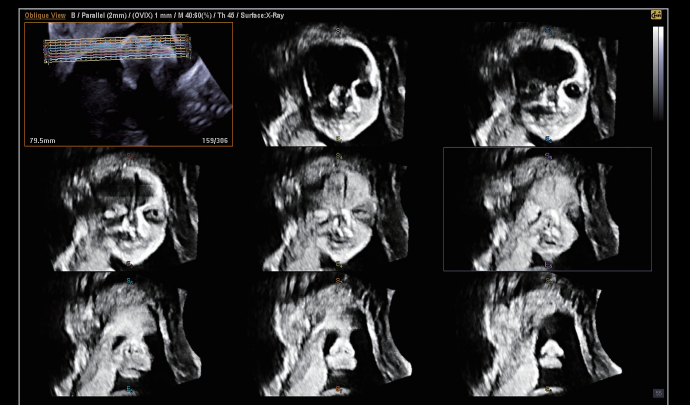
Uterus Adenomyosis



Fetal spine with HDVI™



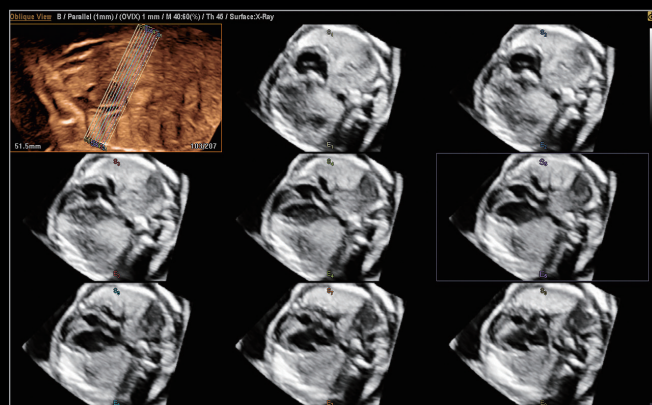
Fetal heart with FRV™



Fetal face with multi OVIX™



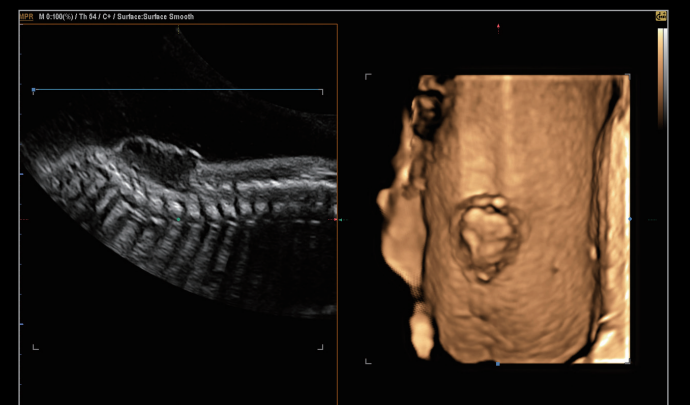
Corpus Colosum with MSV OH™



Fetal heart with multi OVIX™



Fetal heart aortic arch



Spina bipida with SFVI™



## Easier exams than ever

Our user-friendly technology has been developed to ease tasks and operations. Our Volume NT & IT™ improves diagnostic views and allows easy measurements while EZ Exam™ transforms multiple steps into a streamlined process at the touch of a button. Such advanced technology reduces repetitive tasks, and quickly stores volume data, simplifying both review and reassessment of images.

### All-new user interface

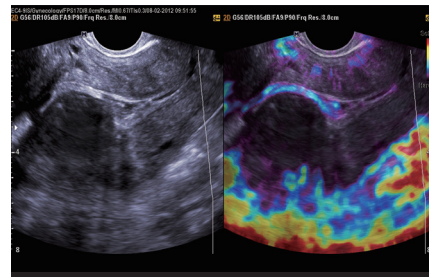
Improved preset menus and modes make testing easier by reducing multiple tasks. Independent settings for user preset and basic preset also support simple operation.



New preset menu of transducer dialog

### ElastoScan™

Helping to identify early detection of lesions and various other diseases, ElastoScan™ provides clinical information that conventional studies typically cannot detect.



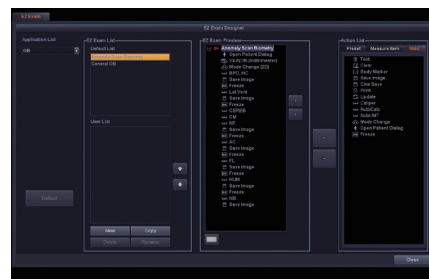
Cervix ElastoScan™

### Cervix ElastoScan™

Highly sensitive, Cervix ElastoScan™ easily reveals changes in the uterine cervix often missed by palpation, enabling more accurate assessment.

### EZ Exam™

EZ Exam™ transforms frequently used step-by-step exams into a single, streamlined procedure.



EZ Exam™ Designer mode

### Volume NT & IT™

User-friendly Volume NT & IT™ allows improved mid-sagittal views and easier measurements. Stored volume data makes reviews and reassessments simpler.



### 3D Stereo Cine

The A35 provides 3D stereo images through Samsung 3D Smart TV. Mothers can enjoy these realistic images at home.





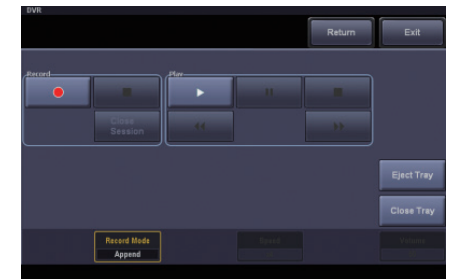


## Focused on time-saving

The A35 relies on cutting-edge technology and streamlined imaging procedures in order to allow users to become more time-efficient. For instance, real-time USB/DVD recording is a thoughtful function that enables simultaneous scanning and recording. The A35 also has upgraded color technology, customizable preset ranges, and advanced imaging parameters that further improve workflow efficiency.

### ADVR™

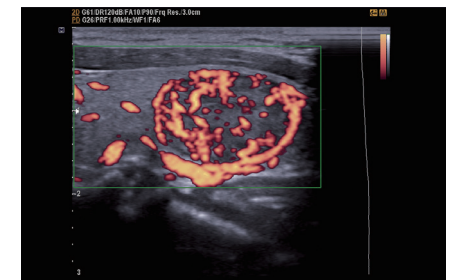
ADVR™, integrated DVD (720x480) and USB (Full HD 1920 x 1080), permits simultaneous scanning and recording, creating an environment that allows users to revisit recorded areas.



Touch-screen menu of ADVR™

### Color Opt Flow™

The exclusive color technology supports quick color image representations of blood flow. Upgraded capabilities include changing slow, moderate or fast color speeds. The preset ranges allow faster evaluation of optimized blood flow images, depending on the application.



Thyroid adenoma with Color Opt Flow™

### Advanced 3D Technology

New 3D imaging tools have resulted in more realistic images, and more accurate scans and diagnoses.

- Face Auto Detection (FAD™)

With one-touch operation, Face Auto Detection (FAD) removes unwanted volume data that can obscure details of the fetal face.

- Smart Filter Volume Imaging (SFVI™)

Touch-activated, Smart Filter Volume Imaging™ provides sophisticated tools for optimizing 3D imaging to reduce unwanted noise, resulting in immediate clarity and more lifelike images.

- Volume Shade Imaging (VSI™)

Volume Shade Imaging displays 3D images of skin tones and shading and improves visualization.

- Smooth Cut™

User-controlled Smooth Cut™ erases objects that hide desired 3D images, reducing unnecessary steps in the exam. Erased information is easily recovered by reversing the action.



## Employ ergonomic design

With mobility and easy access in mind, we made the A35 to be easily transported, whether at bedside, private clinics or medical labs. The intuitive control panel can be adjusted easily to user's preference, and the monitor arm can move front to back as well as side-to-side. Our advanced ergonomic design lets medical experts focus on patients.

### Flexible control panel

Panel can be adjusted side-to-side and up-and-down for user comfort.

- Height: adjustable +180mm
- Rotation: 60°, adjustable +/- 30°



### Articulated monitor arm

The monitor's controls provide unprecedented flexibility and user comfort, adjusting both up and down and side to side for personalized performance.

- Height: adjustable +260mm (1415~1760 mm)
- Rotation: adjustable +/- 50° from center, others +/- 130° from center
- Tilt: adjustable +45°/ -15° from center
- Front/Back: adjustable +339.4 mm



### Swivel lock

A single pedal controls a swivel lock mechanism to conveniently secure console in place and accommodates efficient movement during a variety of scanning procedures.





# Optimized transducer set configuration

## Curved array transducers



- CA1-7A**
  - Application : abdomen, obstetrics, gynecology, contrast
  - Field of view : 70°
- CA2-8A**
  - Application : abdomen, obstetrics, gynecology
  - Field of view : 58°
- SC1-6**
  - Application : abdomen, obstetrics, gynecology, Contrast
  - Field of view : 60.61°
- C2-61C**
  - Application : abdomen, obstetrics, gynecology
  - Field of view : 57.5°
- CF4-9**
  - Application : vascular, pediatric
  - Field of view : 92°

## Volume transducers



- CV1-8A**
  - Application : abdomen, obstetrics, gynecology,
  - Field of view : 72°
- V2-6**
  - Application : abdomen, obstetrics, gynecology
  - Field of view : 87°
- V4-8**
  - Application : abdomen, obstetrics, gynecology
  - Field of view : 76°
- V5-9**
  - Application : obstetrics, gynecology, urology
  - Field of view : 150.6°

## Linear array transducers



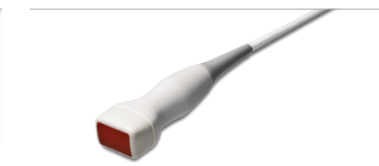
- LA3-16A**
  - Application : small parts, vascular, musculoskeletal
  - Field of view : 38.4mm
- LA3-14A**
  - Application : small parts, vascular, musculoskeletal
  - Field of view : 50mm
- L5-13/50**
  - Application : musculoskeletal, small parts, vascular
  - Field of view : 50mm
- L4-7**
  - Application : abdomen, Musculoskeletal, small parts, vascular
  - Field of view : 44.16mm
- L5-13IS**
  - Application : musculoskeletal, small parts, vascular
  - Field of view : 38.4mm

## Endocavity transducers



- EC4-9IS**
  - Application : obstetrics, gynecology, urology
  - Field of view : 148.9°
- VR5-9**
  - Application : obstetrics, gynecology, urology
  - Field of view : 150.3°
- EA2-11B**
  - Application : obstetrics, gynecology, urology
  - Field of view : 150.3°

## Phased array transducer



- P2-4BA**
  - Application : abdomen, cardiac, TCD
  - Field of view : 90°



- L7-16IS**
  - Application : musculoskeletal, small parts, vascular
  - Field of View : 38.4mm
- LS6-15**
  - Application : Musculoskeletal
  - Field of View : 25.6mm

## CW transducers



- DP2B**
  - Application : cardiac
- CW2.0**
  - Application : cardiac
- CW4.0**
  - Application : cardiac
- CW6.0**
  - Application : cardiac