

**About Samsung Medison CO., LTD.**

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 confident diagnosis.

\* Prime is a package of technologies for upgraded systems.

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

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

\* In Canada and USA, a recommendation for whether the result is benign or malignant is not applied.

\* In Canada and USA, strain value for ElastoScan is not applied.

\* Availability of some products, features, options and transducers mentioned in this catalog may vary from country to country and is subject to varying regulatory requirements.

\* This product, features, options and transducers are not commercially available in all countries.

Due to regulatory reasons their future availability cannot be guaranteed. Please contact your local sales network for further details.

\* This product is a medical device, please read the user manual carefully before use.

# Daily inspiration

## Ultrasound system HS70A with Prime



CT-HS70A with Prime VZ.01-0B-FT-200123-EN

Scan code or visit  
[www.samsunghealthcare.com](http://www.samsunghealthcare.com)  
to learn more



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CE 0123

**EXPERIENCE**  
A New Healthcare  
Solution

**SAMSUNG**

# Daily inspiration

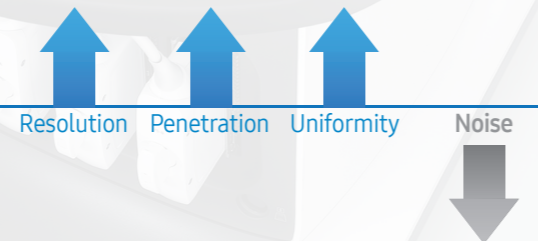
We, Samsung, aim to continually improve the image quality of our ultrasound systems and develop clinically proven tools designed for your needs. The HS70A with Prime is built upon these principles. Its superior imaging performance, specialized features, and accurate quantification tools enable you to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

Discover new innovations every day that give you an inspiration.



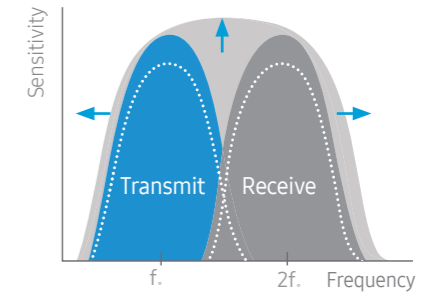
## S-Vision™ imaging engine

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 ultrasound imaging.



## S-Vue Transducer™ (CA2-9A, CV1-8A, CA1-7A, CA3-10A)

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



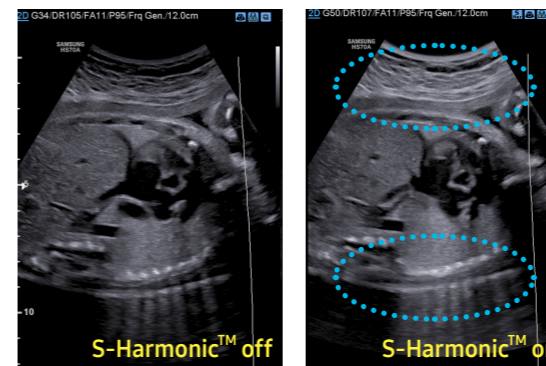
Fetal face



Fetal heart

## S-Harmonic™

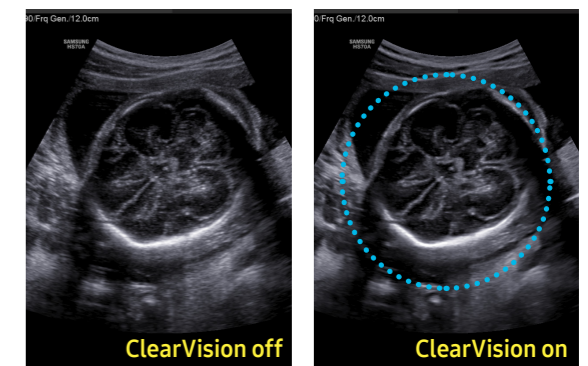
S-Harmonic™ mitigates the signal noise, enhances contrast, and provides uniform image performance of overall image area from near-to-far.



Fetal thorax \*

## 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.



Fetal brain

# 5D advanced solutions

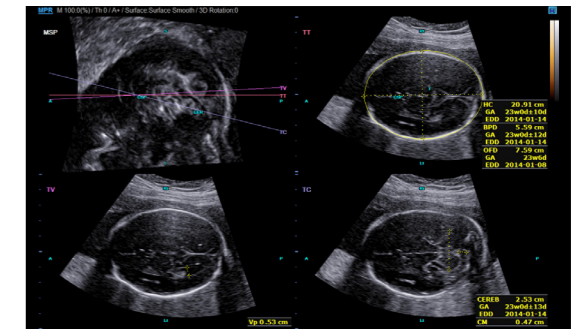
The semi-automated functions included in 5D advanced solutions mean **less operator dependency and more efficient work**, which allows **higher patient throughput**. In addition, these solutions provide **reliable, high-quality exams** which enable you to make quick, accurate decisions.



## 5D CNS™

(Fetal brain measurement)

5D CNS™ offers 6 measurements (BPD, HC, OFD, Vp, TCD, CM) from 3 transverse planes of a fetal brain which are the key indicators for intuitive fetal brain visualization. It improves throughput with only a 2 click operation.

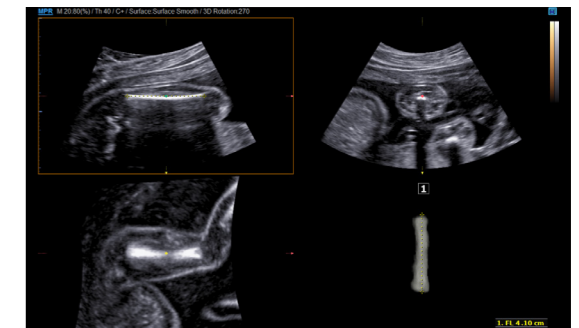


5D CNS™

## 5D LB™

(Fetal long bone detection)

5D LB™ allows easy detection and measurement of fetal long bones from volume data, with intuitive visualization of the fetal structures. Evaluation of fetal condition becomes more efficient as 5D LB™ improves measurement accuracy while reducing exam time.

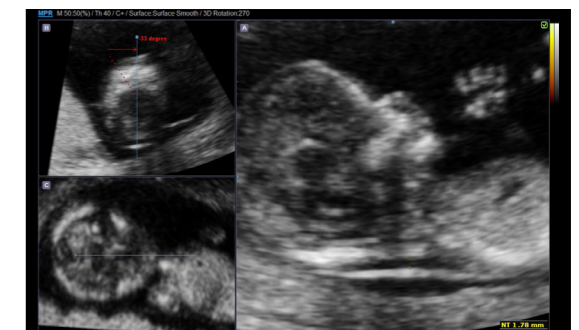


5D LB™

## 5D NT™

(Nuchal translucency measurement)

5D NT™ provides the midsagittal plane view automatically by rotating and magnifying the images when measuring the nuchal translucency (NT) of the fetus in early weeks.

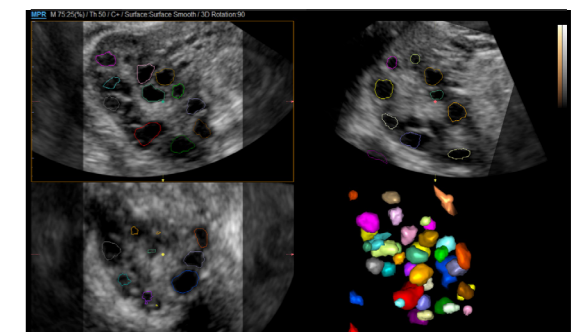


5D NT™

## 5D Follicle™

(Follicle measurement)

5D Follicle™ identifies and measures multiple ovarian follicles in one scan for rapid assessment of follicular size and status during controlled ovarian stimulation. This feature uses 3D volume data to help acquire accurate measurement and reduces user variation.



Follicle measurement with 5D Follicle™ \*

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

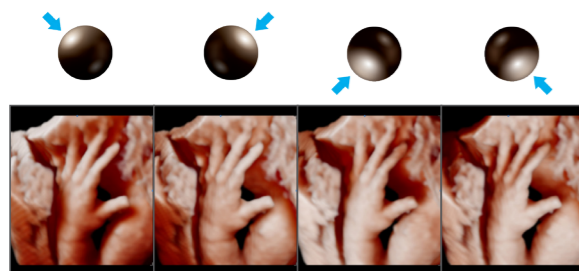
# Quality 3D/4D rendering

With Samsung's advanced rendering technology, HS70A with Prime delivers **realistic images that contain valuable anatomical information** for precise obstetric evaluation.

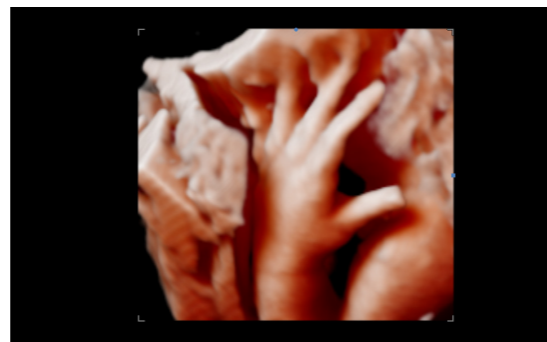


## RealisticVue™

RealisticVue™ displays high resolution 3D anatomy with detailed expression and realistic depth perception. User selectable light source direction creates intricately graduated shadows for better defined anatomical structures.



Realistic Vue™ with different light source directions



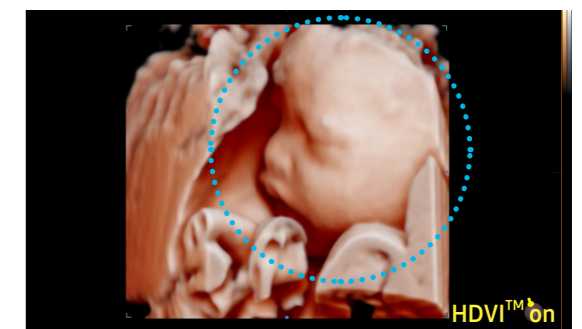
Fetal hand

## HDVI™

HDVI™ is a volume rendering technology that improves visualization of edges and small structures in volume data.



Fetal face



HDVI™ on

# 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.

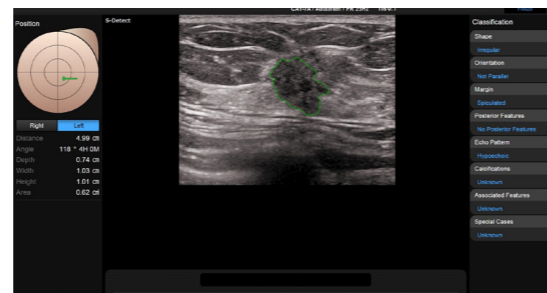


## S-Detect™

### 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.

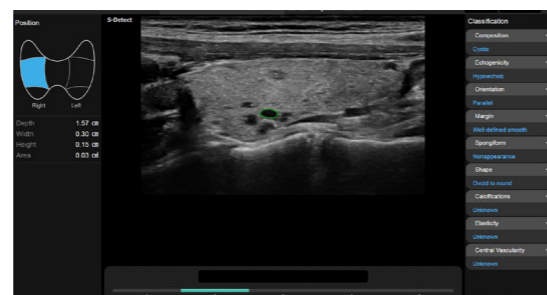


S-Detect™ for Breast

### 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-TIRADS 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

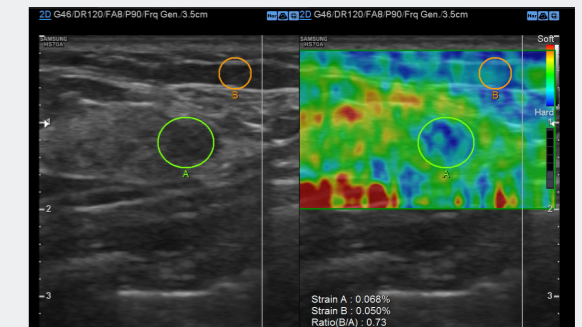


S-Detect™ for Thyroid

## 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.



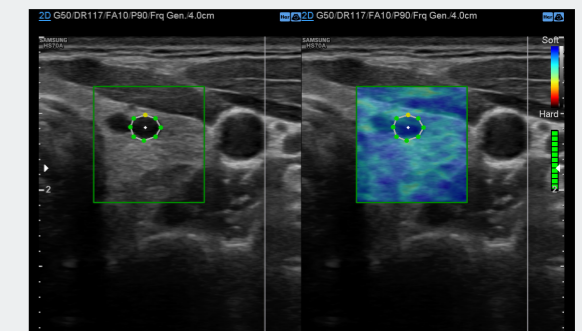
Breast (E-Strain™)

### 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.

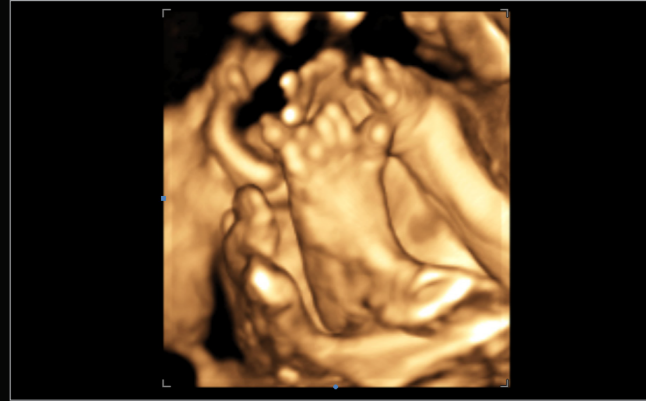
### E-Thyroid™ (ElastoScan™ for thyroid)

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

# Image gallery



Fetal foot at 24 weeks



Fetal face with RealisticVue™



Fetal heart in 4 chamber view



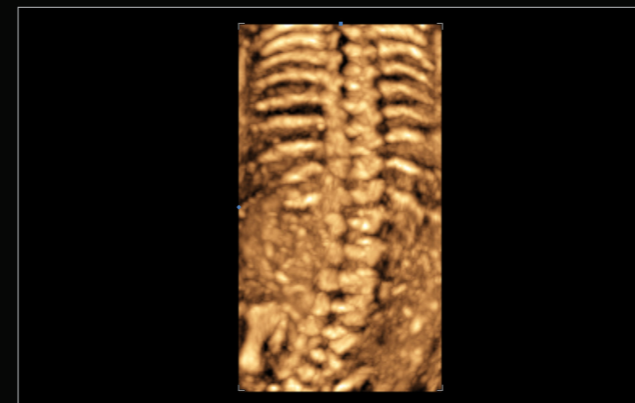
Fetal heart in aortic arch view \*



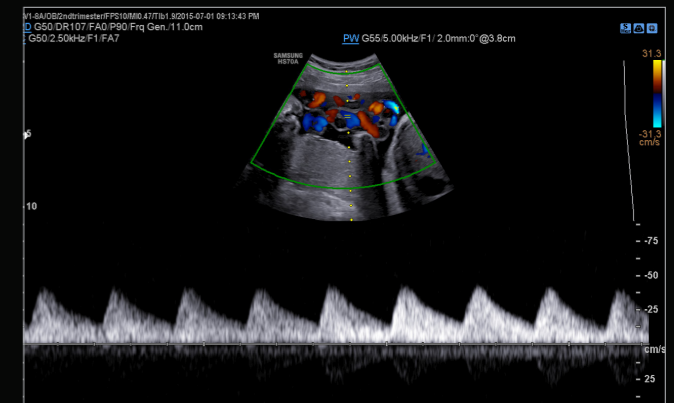
NT at 12 weeks



Fetal abdomen at 30 weeks \*



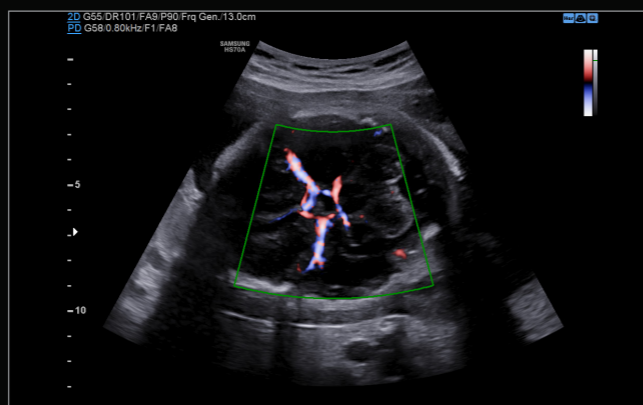
Fetal spine at 24 weeks



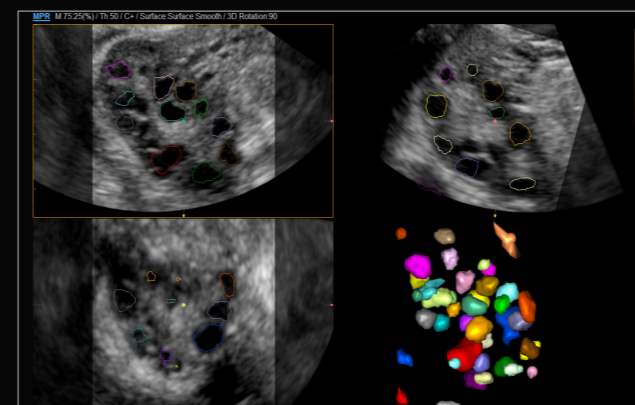
Umbilical artery with PW \*



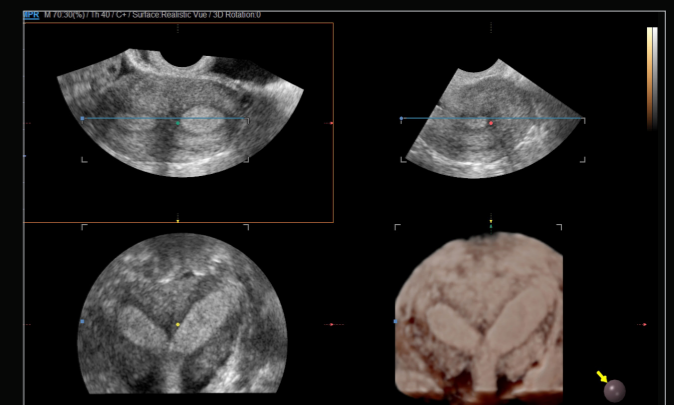
Fetal brain at 26 weeks



Fetal brain with S-Flow™



5D Follicle™ \*



Bicornate uterus \*

# Intuitive, streamlined workflow

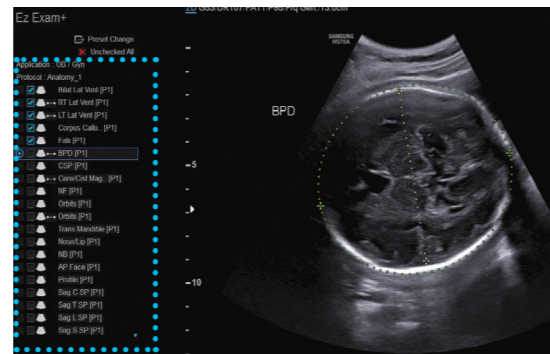
## QuickPreset

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.



## EzExam+™

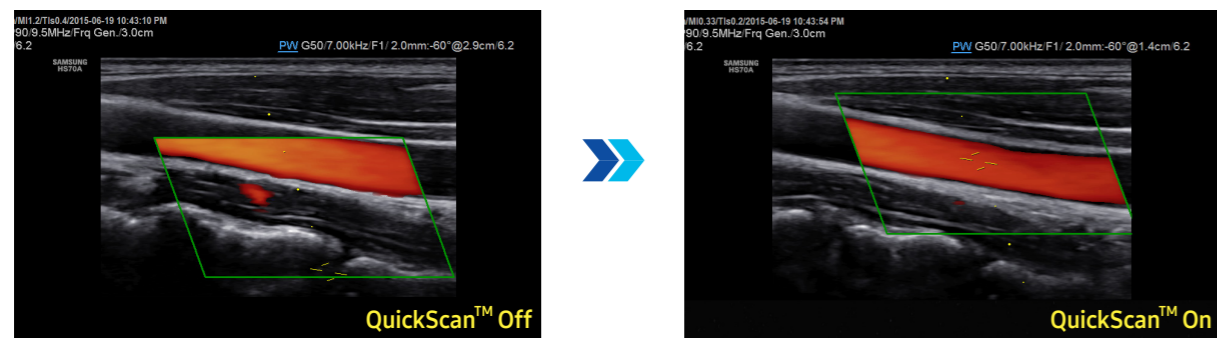
EzExam+™ enables you to build or use a predefined protocol, and assign protocols for examinations that are regularly performed in the hospital in order to reduce the number of steps that you have to go through. For fetus diagnosis, in particular, you can arrange the examination order according to the 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.



CCA \*

## 23" 23-inch Full HD LED monitor

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" 10.1-inch touch screen

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.



# Comprehensive selection of transducers

## Curved array transducers



- CA1-7A**  
• Application : abdomen, obstetrics, gynecology
- CA2-8A**  
• Application : abdomen, obstetrics, gynecology
- CA2-9A**  
• Application : abdomen, obstetrics, gynecology
- CA3-10A**  
• Application : abdomen, obstetrics, gynecology
- CF4-9**  
• Application : pediatric, vascular

## Volume transducers



- CV1-8A**  
• 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

## CW transducers



- 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