

# Samsung premium ultrasound system enhances fetal heart imaging and diagnosis

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Samsung Electronics America today introduced the Samsung WS80A with Elite performance package, its flagship ultrasound product for women's healthcare designed to streamline exam workflows and deliver exceptional image clarity. This high resolution premium system offers enhanced diagnostic capabilities and expanded 5D features – including a new 5D Heart application – building on Samsung's WS80A platform.

"The launch of Samsung's flagship ultrasound product for the women's

health market emphasizes Samsung is ready for the next big thing in ultrasound," said Doug Ryan, Group Vice President for Health and Medical Equipment at Samsung Electronics America. "The Samsung WS80A with Elite performance package incorporates Samsung's latest innovations, including an expanded set of 5D workflow applications, to continue our promise of delivering fast, easy and accurate diagnosis for healthcare providers and their patients."

The screening and diagnosis of congenital heart disease – the leading organ-specific birth defect – remains an important challenge for sonographers and physicians.<sup>1</sup> The Samsung WS80A with Elite's 5D Heart tool generates nine standard fetal cardiac views simultaneously in a single template, offering an intuitive workflow that can simplify examination of the fetal heart and improve reproducibility.

"Utilizing Fetal Intelligent Navigation Echocardiography (FINE), 5D Heart can help improve the performance of fetal echocardiography by shortening the examination time, providing the nine standard cardiac planes which are necessary to examine the fetal heart thoroughly," said Dr. Lami Yeo, Associate Professor and Director of Fetal Cardiology at the Department of Obstetrics and Gynecology of Wayne State University's School of Medicine in Detroit, Michigan.

## **Expanded 5D Workflow**

5D workflow refers to semi-automated identification of specific diagnostic image planes and measurements from a volume data set. Expanding on the 5D LB (fetal long-bone) and 5D NT(nuchal translucency) features previously introduced on the Samsung WS80A, the WS80A with Elite performance package integrates:

- 5D Heart – An innovative application designed to simultaneously display nine standard fetal cardiac views by applying intelligent

- navigation technology to volume datasets of the [fetal heart](#).
- 5D CNS (Central Nervous System) – Displays six measurements (BPD, HC, OFD, Cerebellum, Posterior Fossa, Atria lateral ventricle) from three transverse views generated from a single volume of the fetal brain to enhance measurement reproducibility and streamline workflow.
  - 5D Follicle – Identifies and measures multiple ovarian follicles for rapid assessment of follicular size and status during gynecology examinations.

The Samsung WS80A with Elite performance package also features improved image quality through S-Vue Transducer technology offering broader bandwidth and higher sensitivity. The convex 3D S-Vue transducer offers higher performance, in a smaller, lighter and more comfortable design for imaging sonologists. Further supporting accurate diagnosis, the new system incorporates a 23-inch wide LED screen to provide vibrant color representation and enhanced viewing of ultrasound images.

The Samsung WS80A with Elite performance package system has received 510(k) clearance and is now available in the market.

The Samsung WS80A with Elite performance package is among a number of innovative medical imaging products Samsung will be showcasing at the Society for Maternal Fetal Medicine (SMFM) 35th Annual Meeting from February 4-6 at the Hilton San Diego Bayfront, Booth # 306. To learn more about Samsung Electronics America's health and medical equipment portfolio, please visit [samsung.com/ultrasound](http://samsung.com/ultrasound).

Provided by Samsung

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