

SAMSUNG



Z^{2Q}

PREMIUM ULTRASOUND

Capture every detail,
deliver every moment.



reddot winner 2025
medical devices and technology design



Click or Scan
to Learn More

Capture every detail, deliver every moment.

Experience the future of Women's Health Ultrasound with the all-new Z20 ultrasound system. Designed to empower you in every exam, from routine to complex. Deliver the exceptional imaging you need, even in the most challenging scans. Discover a new level of comfort and efficiency with a personalized user experience. With the Z20, you're empowered to provide every patient with the care they deserve.

| Key benefits



Effortless Image Clarity



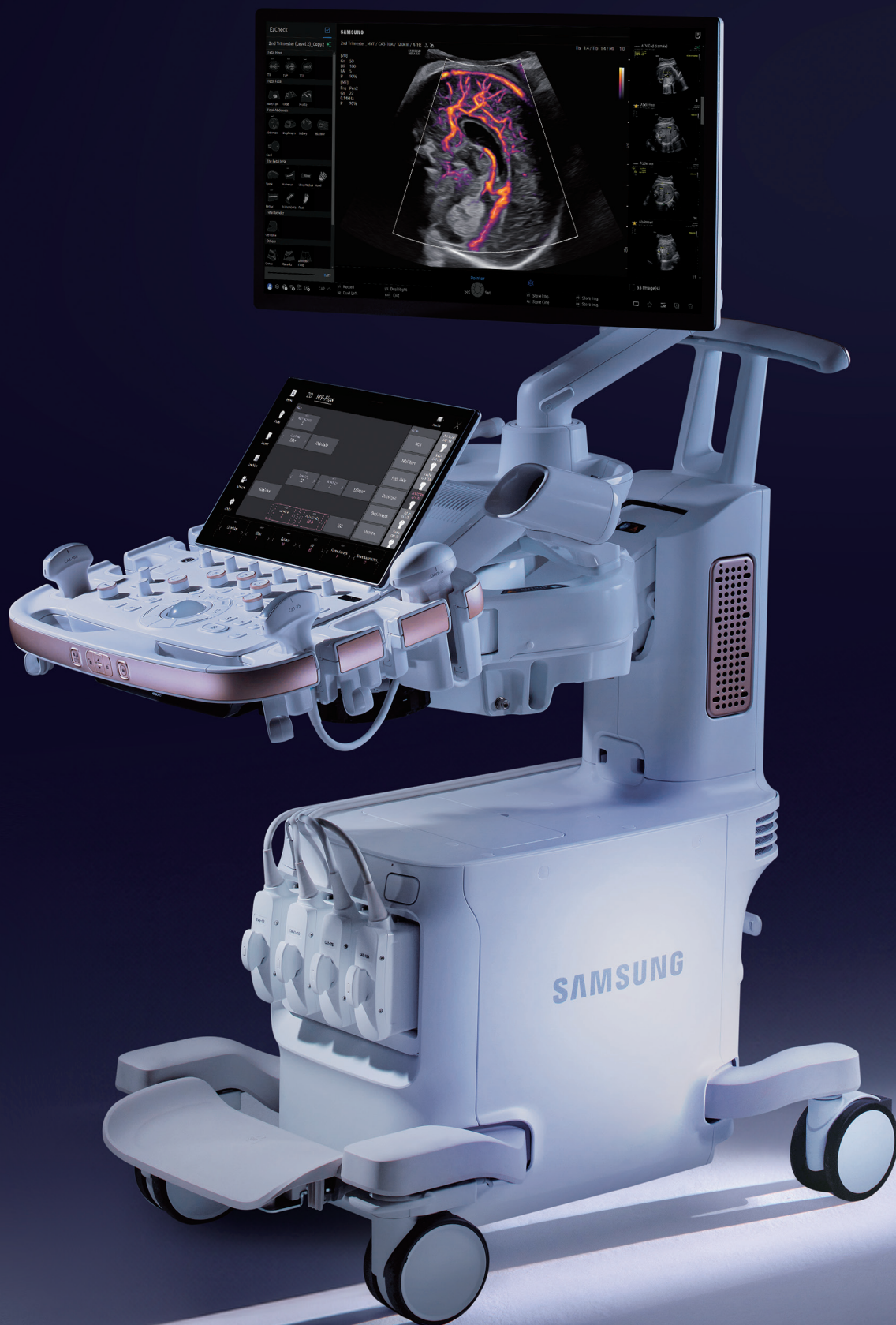
Reliable AI Assistance



Personalized User Experience

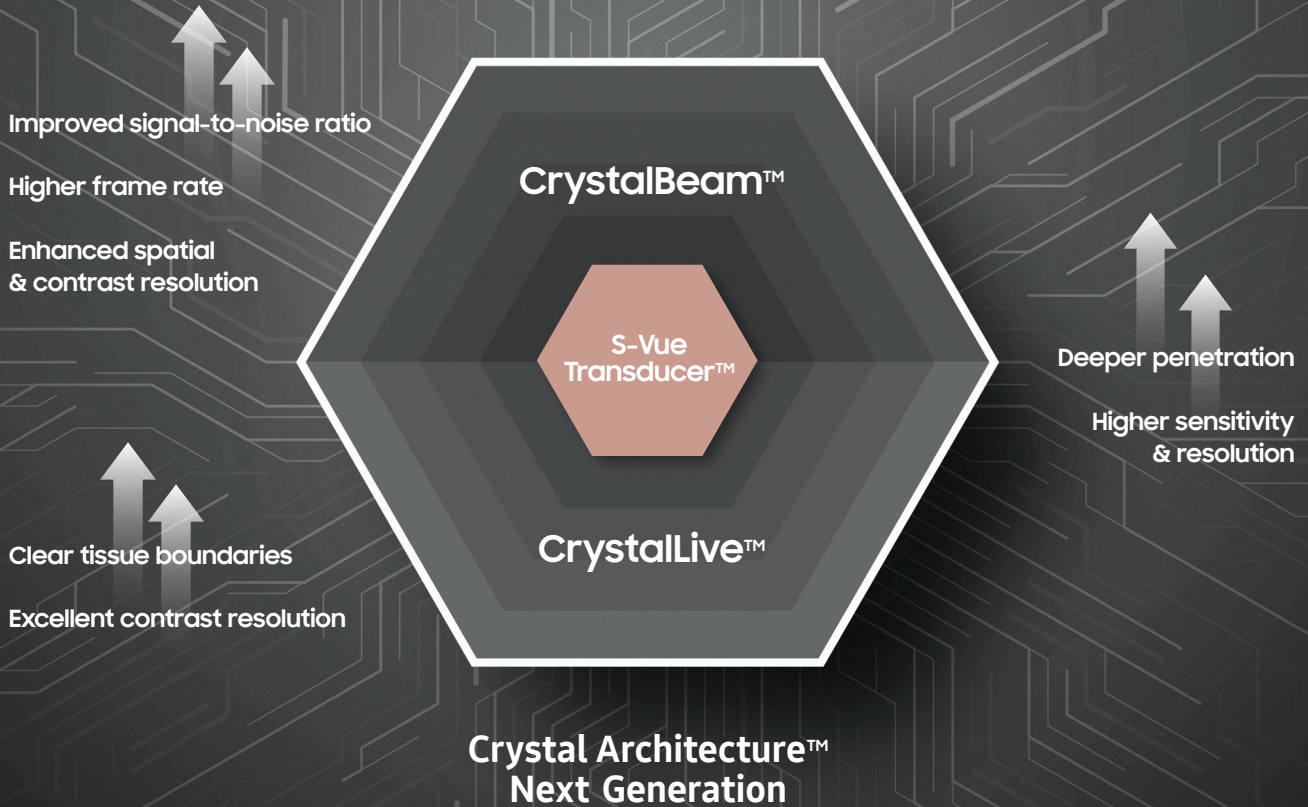


**Women's Health Solutions
for Every Milestone**



Effortless Image Clarity

Experience the power of Samsung's next generation of Crystal Architecture™. By seamlessly integrating the cutting-edge CrystalBeam™ and CrystalLive™ technologies with the latest S-Vue Transducer™ advancements, Crystal Architecture improves your diagnostic accuracy with exceptional imaging on any patient. You scan, and we'll bring the image clarity that you and your patients deserve; with ease.



Visualize microvascular structures in 3D-like display

MV-Flow™ accurately detects tiny, slow-flow vessels with a high frame rate while minimizing flashing artifacts. Its advanced clutter filter technology ensures clear visualization of microcirculatory blood flow while reducing typical blooming effects.

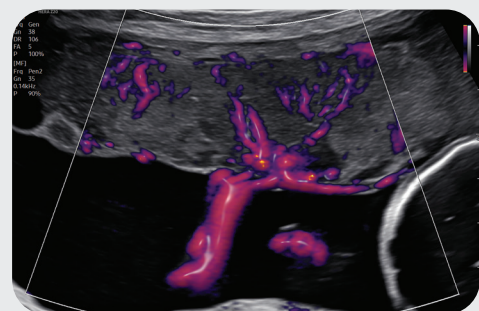
LumiFlow™ enhances the visibility of blood flow in tiny vessels by presenting it in a 3D-like display, making it easier for users to visualize and understand the structural flow in 2D.



**High
Sensitivity**



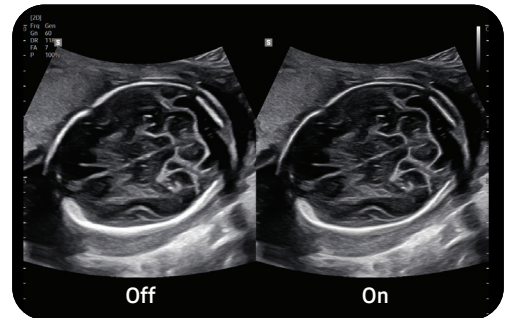
**High
Resolution**



Placental vasculature with MV-Flow & LumiFlow

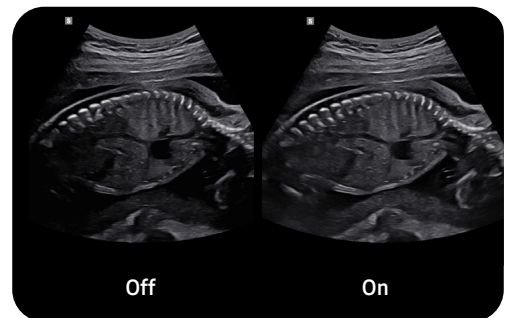
Enhance boundary visualization with a 3D-like view

Luminant™ enhances 2D image boundaries and reduces blurring by presenting them in a 3D-like display. This is especially useful for evaluating and measuring small, complex structures such as the fetal heart, brain, nuchal translucency, or nasal bone.



Reveal obscured structures in shadowed areas

ShadowHDR™ uses a proprietary filter to selectively enhance details hidden in shadows caused by attenuation. It optimizes the balance between lower frequency penetration and higher frequency resolution, improving visualization in areas affected by shadowing.



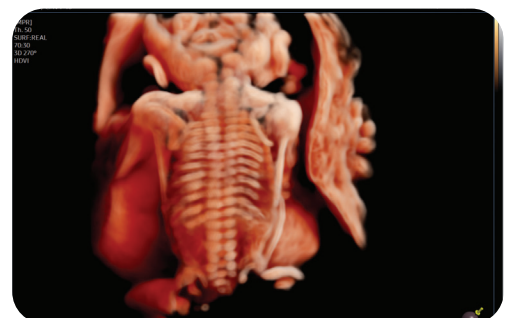
Display 3D anatomy with detail and realism

RealisticVue™ displays high-resolution 3D anatomy with remarkable detail and lifelike depth perception. The user-selectable light source direction casts finely graduated shadows for improved definition of anatomical structures.



Simultaneously visualize rendering of internal and external structures

CrystalVue™ is an advanced volume rendering technology that enhances the visualization of both internal and external structures in a single rendered image by combining intensity, gradient, and position.





Reliable AI Assistance



Experience the future of healthcare with our state-of-the-art AI tools, designed to provide you with reliable assistance in every exam. From routine scans, to complex 3D, the Z20 empowers you to deliver accurate results with speed and simplicity.

Automatic classification, annotation, and measurement of structures in real-time

Live ViewAssist™¹ is an AI-driven feature powered by Deep Learning technology that automatically identifies and captures the required views during live scanning with minimal user input. It also provides real-time annotations of structures and measurement results.



Up to **94%**
Reduction in
Keystrokes²



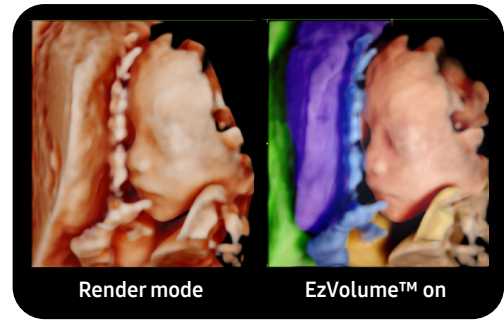
**Reduced
Scan Time**



**Minimize User
Dependency**

Automated Segmentation and Color Coding for Anatomy Visualization

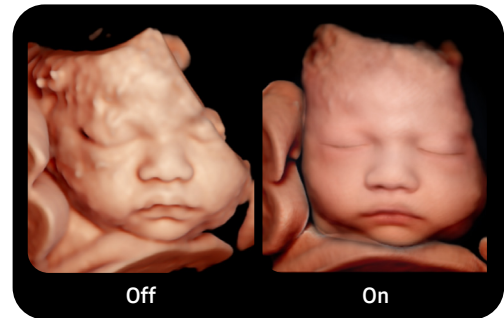
EzVolume™¹ is an AI-driven 3D feature that automatically segments fetal structures to enhance anatomical spatial relationship comprehension. It allows users to customize the appearance of selected structures by individually adjusting their color and transparency.



Restore unclear or obscured parts of the fetus's face

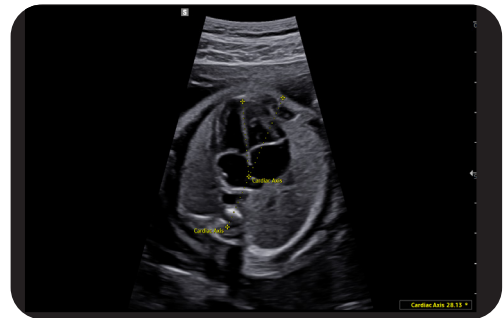
PortraitVue™ is a feature that analyzes 3D ultrasound images to predict the fetal face and digitally enhance unclear or obscured areas.

* This feature is for entertainment purposes only and is not intended for diagnostic use.



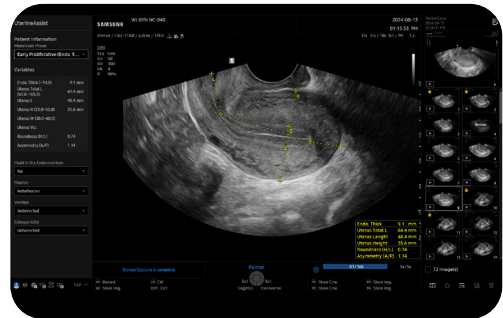
Streamlined Precision with Automated Assistance

HeartAssist™ uses Deep Learning technology to automatically recognize ultrasound images and measurement results for heart diagnosis. This automation aids in providing consistent measurements and a streamlined workflow due to fewer keystrokes.



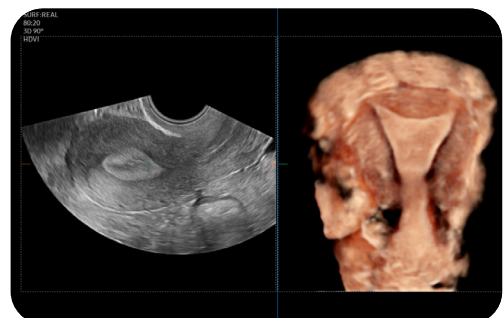
Measure the size and shape of the uterus with AI technology

UterineAssist™¹ is an AI feature utilizing Deep Learning technology that automatically measures the size, shape, and other quantitative parameters of the uterus. This helps in detecting signs of uterine-related abnormalities and reduces scan time.



A feature to display the 3D uterine coronal plane with one click

UterineContour™ is an AI powered feature based on Deep Learning technology to help in identifying uterine malformations. It automatically extracts the centerline and thickness of the curved endometrium to provide a 3D coronal view. Uterine malformation classifications are provided according to the ESHRE/ESGE or ASRM guideline selection.

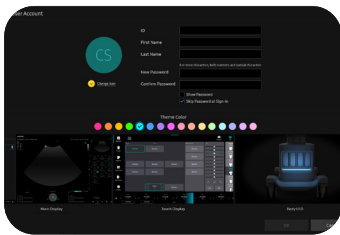


* ESHRE/ESGE: The European Society of Human Reproduction and Embryology/The European Society for Gynaecological Endoscopy
ASRM: The American Society for Reproductive Medicine



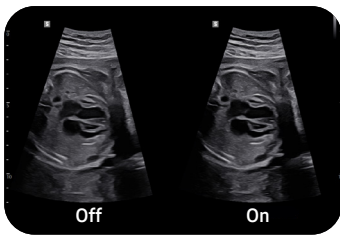
Personalized User Experience

The Z20 provides a fully customizable user experience. The innovative ergonomic design enhances your scanning comfort and efficiency. MyHera™ allows each user to restore their imaging preferences and personalized settings when logging into any Z20. The leading edge, AI-driven features, eliminate many of the physical and repetitive motions used during traditional scanning.



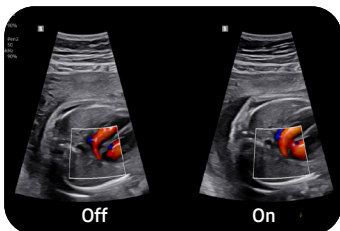
Ultrasound made personal

MyHERA™ personalized experience allows users to log in to their customized touch screen layout, personalized imaging presets, and individual system settings. Users can also select their preferred system backlighting to enhance comfort, workflow, and the overall experience, while reflecting their personality through the ultrasound system.



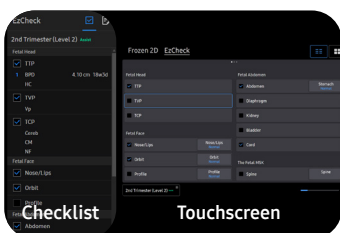
One-button solution for optimal 2D image settings

EzStructure™ provides rapid adjustment of 2D settings for specific anatomical areas. With a single touch, multiple complex 2D image parameters are optimized based on the selected anatomical structure.



One-button solution for optimal color and PW image settings

EzFlow™ provides 6 customizable, anatomy-specific settings within the Doppler presets to optimize Color and PW images to optimal hemodynamic flow settings with a single click. This allows for rapid Doppler optimization of vascular structures, improving workflow during routine examinations.



Real-time monitoring of exam progress with alerts for missing items

EzCheck™ provides live access to exam progress. A checklist of all ISUOG-required views monitors image acquisitions and alerts user of any unacquired items in real time.



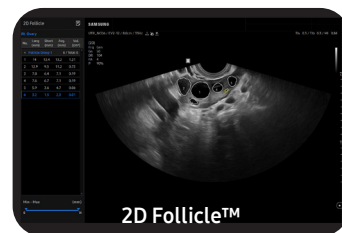
Women's health solutions for every milestone

The Z20 offers comprehensive analysis tools that provide quick and accurate insights across every stage of women's health, including fertility care, fetal diagnosis, labor & delivery, breast, and gynecological care. Our tech-savvy features are designed to empower you to care with confidence, facilitating informed and comforting decisions.

Fertility care

Family planning

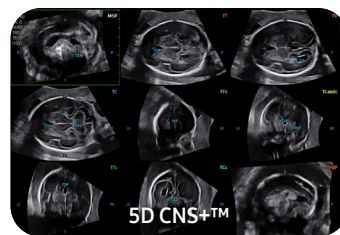
- 2D Follicle™¹
- 5D Follicle™¹
- UterineAssist™¹
- UterineContour™



Fetal diagnosis

Healthy pregnancy

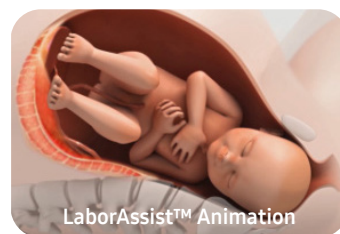
- 5D CNS+™¹
- 5D Heart Color™¹
- Live ViewAssist™¹
- HeartAssist™
- 5D Limb Vol.™¹
- MPI+¹
- BiometryAssist™



Labor & Delivery

Healthy birth

- E-Cervix™¹
- LaborAssist™¹



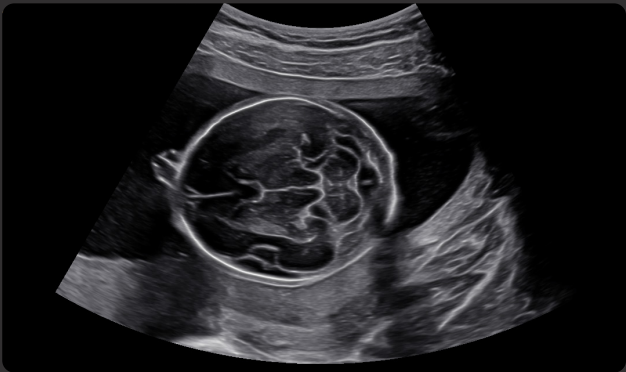
Breast & Gynecology

Gynecologic health

- S-Detect™ for Breast¹
- IOTA-ADNEX¹
- IOTA-SRrisk¹



Image gallery



Fetal Brain with ClearVision



Fetal Abdomen



Fetal Heart with Luminant™



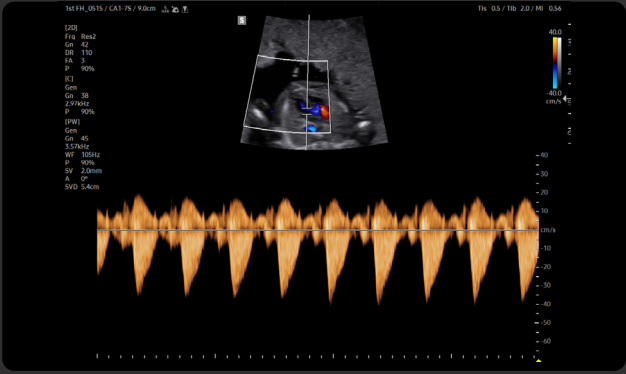
Fetal heart with Luminant™



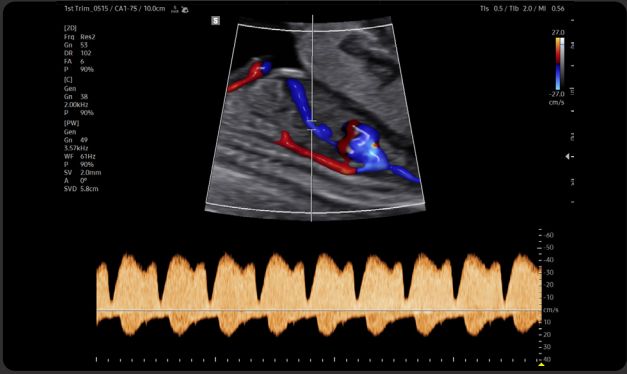
Fetal Heart with MV-Flow™



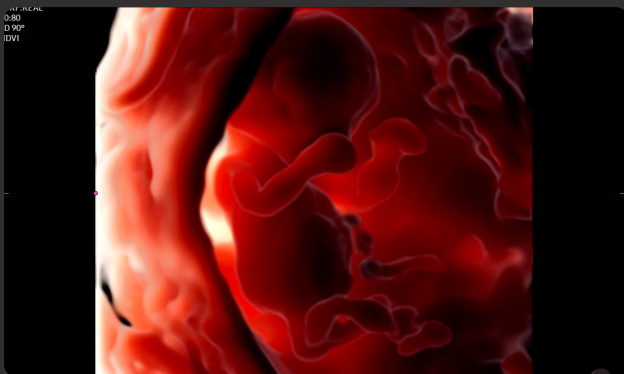
Fetal Heart in MV-Flow™



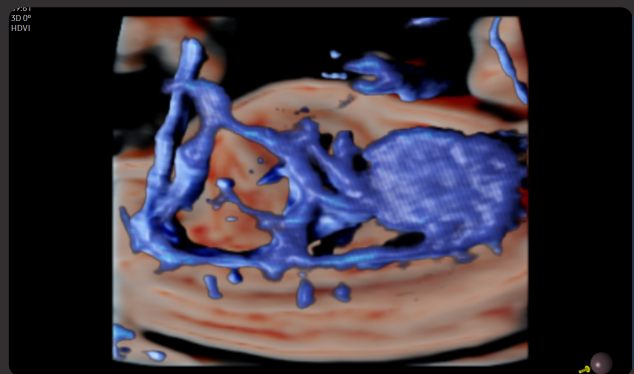
Fetal Heart LVOT PW Doppler



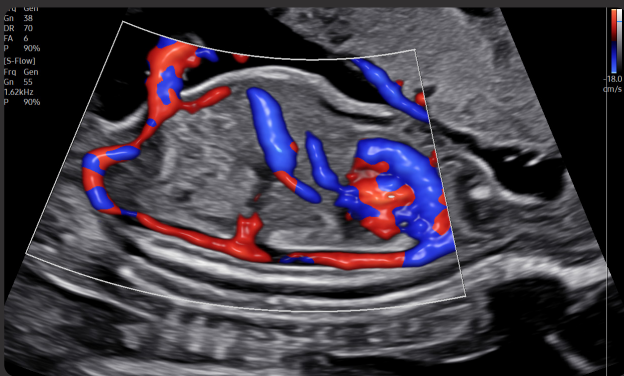
Ductus Venosus PW Doppler



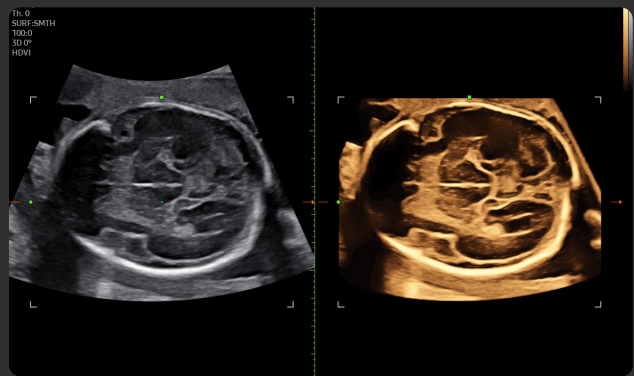
1st Trimester in RealisticVue™



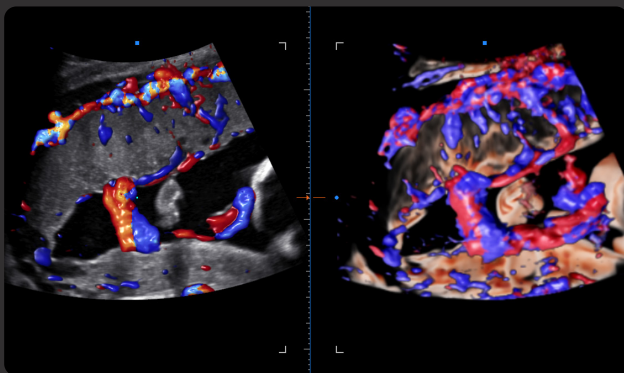
Fetal Circulation with MV-Flow™ 3D



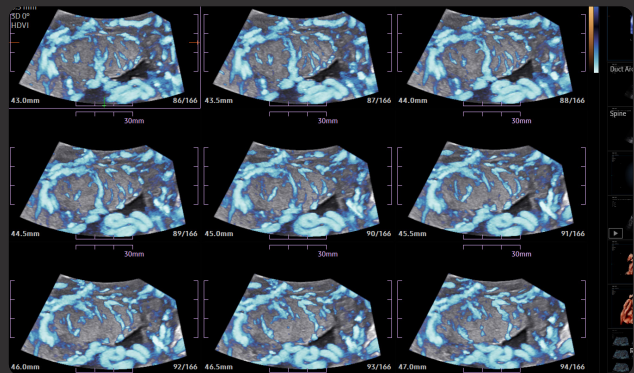
Fetal Circulatory System with S-Flow™



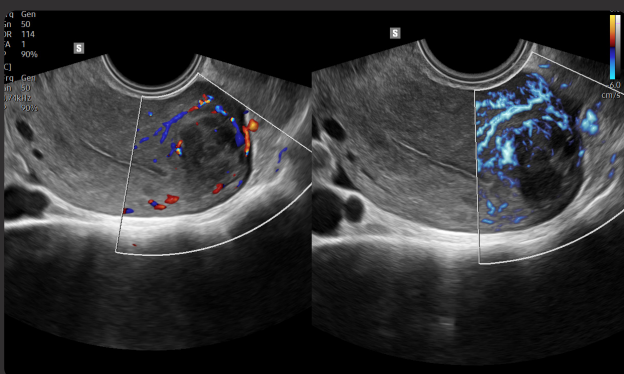
Fetal CNS with Slice A



3D Placenta with CrystalVue Flow™



Placenta with MV-Flow™ 3D in MSV mode



Myoma with Color and MV-Flow™



Fetus, Placenta, Cord segmentation by EzVolume™¹

Meets or Exceeds 100% of Ergonomic Guidelines*

The Z20's ergonomic control panel, monitor adjustability, and transducer designs facilitate neutral wrist positioning, while the AI-driven software reduces keystrokes by 72%. Transports with ease, safety, and flexibility accomodating a broad spectrum of sizes (from the 5th percentile female to the 95th percentile male).



*Samsung's Z20 met or exceeded 100% of the Industry Standards for the Prevention of Work-Related Musculoskeletal Disorders in Sonography (ISPWRMSDS) guidelines for ergonomics**



Scan QR code or Click
HERE to read the full Z20
Ergonomic White Paper

**Results from 3rd party ergonomics evaluation from Sound Ergonomics.*



15.6" LCD touch screen with 30 degrees of tilt for easy viewing standing or sitting



Effortlessly control wheel locks electronically from front or back for smooth mobility



27"OLED Monitor with 360 degree rotation to reduce eye strain



11 customizable buttons within 3.5 inches of the trackball



Designed to minimize heat and reduce fan noise for a more comfortable, quiet experience



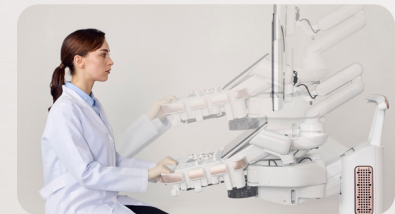
Ambient LED lighting for visibility in dark environments



Ample knee space surpasses industry standards by up to 17% for comfort and ergonomics



Angled gel warmer with two adjustable heat settings for optimal gel temperature



System adjustments to accommodate a full spectrum of user heights



Depth adjustability exceeds OSHA's eye-to-monitor distance by 10%, with adjustable font size and color for proper viewing



Control panel swivels 180 degrees for flexible movement and user-centric ergonomics

NEW CMV1-10 matrix transducer

Utilizing cutting-edge matrix array technology, this 3D S-Vue technology transducer offers high resolution and deep penetration, designed to provide healthcare professionals with detailed and accurate assessments. The CMV1-10 enhances imaging performance across a wide variety of clinical applications. The CMV1-10 transducer's subtle pebbled texture surface helps support a palmar grip and decreased finger strain.



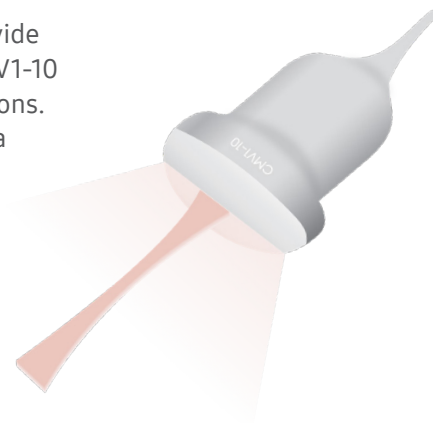
**Higher
resolution**



**Deeper
penetration**



**Light
weight**



Volume transducers



Abdomen, Obstetrics,
Gynecology, Urology



Abdomen, Obstetrics,
Gynecology, Urology



Obstetrics, Gynecology,
Urology



Abdomen, Musculoskeletal,
Small Parts, Vascular,
Obstetrics, Pediatric

Curved array transducers



Abdomen, Obstetrics,
Gynecology, Musculoskeletal,
Pediatric, Vascular, Urology



Abdomen, Obstetrics,
Gynecology, Musculoskeletal,
Pediatric, Vascular, Urology

Endocavity transducers



Obstetrics, Gynecology,
Urology



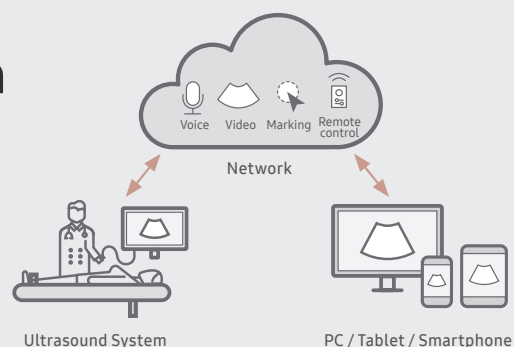
Obstetrics, Gynecology,
Urology

The EV2-12 and the EA2-11AR transducers weigh **24%** and **56% lighter**, respectively, than the recommended limit for one-handed precision tools.^{3,4}

Real-time image sharing solution

SonoSync™ is a real-time image streaming solution that allows collaborative communication via voice, text, video conferencing, and real time image marking. Remote controllability is also available for effective guidance or training among physicians and sonographers. Multiple users and multiple ultrasound systems can be connected concurrently for centralized support.

* Use SonoSync under healthcare professionals' judgement for the image quality at the remote client.



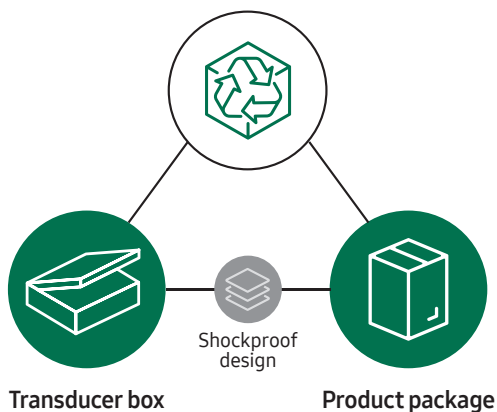
Changes Start from Small Steps



The Z20, meticulously crafted from eco-conscious components, exemplifies our unwavering commitment to environmental sustainability and healthcare. By incorporating recycled resin and eco-conscious paper packaging, we are proud to reduce carbon footprints, revealing our dedication to healthcare innovation and ecological responsibility. The Z20 not only cares for you and your patients but also for the planet we all share.

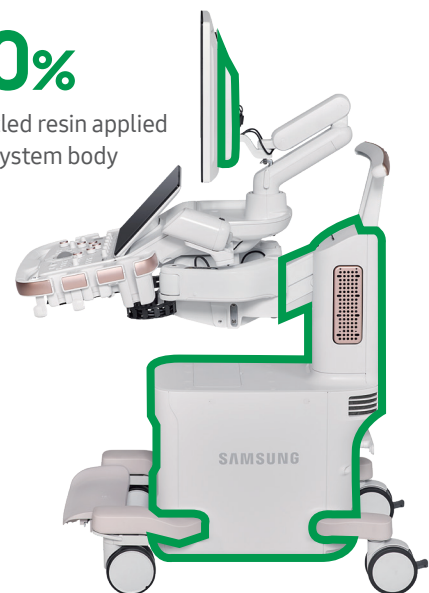
100%

Eco-conscious paper packaging with specially engineered shockproof design



50%

Recycled resin applied the system body



Samsung healthcare cybersecurity

To address the emerging need for cybersecurity, Samsung provides a solution to support our customers by offering the tools to protect against cyberthreats that may compromise invaluable patient data and ultimately degrade the quality of care. Samsung's Cybersecurity Solution strives to abide by the CIA triad (Confidentiality, Integrity, and Availability) and takes a comprehensive approach to providing impeccable protection with the following pillars:

Intrusion prevention, Access control, and Data protection



Intrusion prevention



Access control



Data protection



Learn more

* This product, features, options, and transducers may not be commercially available in some countries.

* Sales and shipments are effective only after the approval by the regulatory affairs.

Please contact your local sales representative for further details.

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

* S-Vue Transducer™ is the name of Samsung's advanced transducer technology.

* Z20 is the commercial brand name in the United States of America for the HERA Z20 product and is U.S. FDA 510(k) cleared - K241971

1. Optional feature which may require additional purchase.

2. Data on file. Based on clinical analysis of 2nd trimester detailed exams; results may vary by user, system settings, and scanning conditions.

3. Canadian Centre for Occupational Health and Safety. (2023). *Hand Tool Ergonomics*. CCOHS.

4. Society of Diagnostic Medical Sonographers. (2016).

Industry Standards for the Prevention of Work-Related Musculoskeletal Disorders in Sonography. (ISPWRMSDMS). SDMS.

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