

HERA Z20

Empowering women with vision



Learn more



Empowering women with vision

HERA Z20 is inspired by the spirit of hospitality and protection embodied in the Greek word “Zena,” establishing groundbreaking ultrasound equipment for women’s health. Samsung proudly presents this innovation as the new standard in women’s health.

HERA Z20 excels with diverse patient types, offering tailored 2D, 3D, and color imaging to meet individual needs. Its integrated AI and automated features enhance diagnostic accuracy and efficiency, enabling healthcare professionals to focus more on patient care.

Designed with both functionality and aesthetics in mind, HERA Z20 ensures comfortable and efficient operations. It alleviates the workload of busy healthcare professionals, providing a clear and confident ultrasound experience. HERA Z20 is where innovative technology and the spirit of hospitality converge to advance women’s health.

HERA Z20 — where visionary technology blends with the nurturing spirit of hospitality, empowering women’s health for a healthier future.

Key benefits



Crystal-clear, exquisite image quality



Workflow efficiency and diagnostic accuracy with AI



Redefining user’s experience with customized solutions

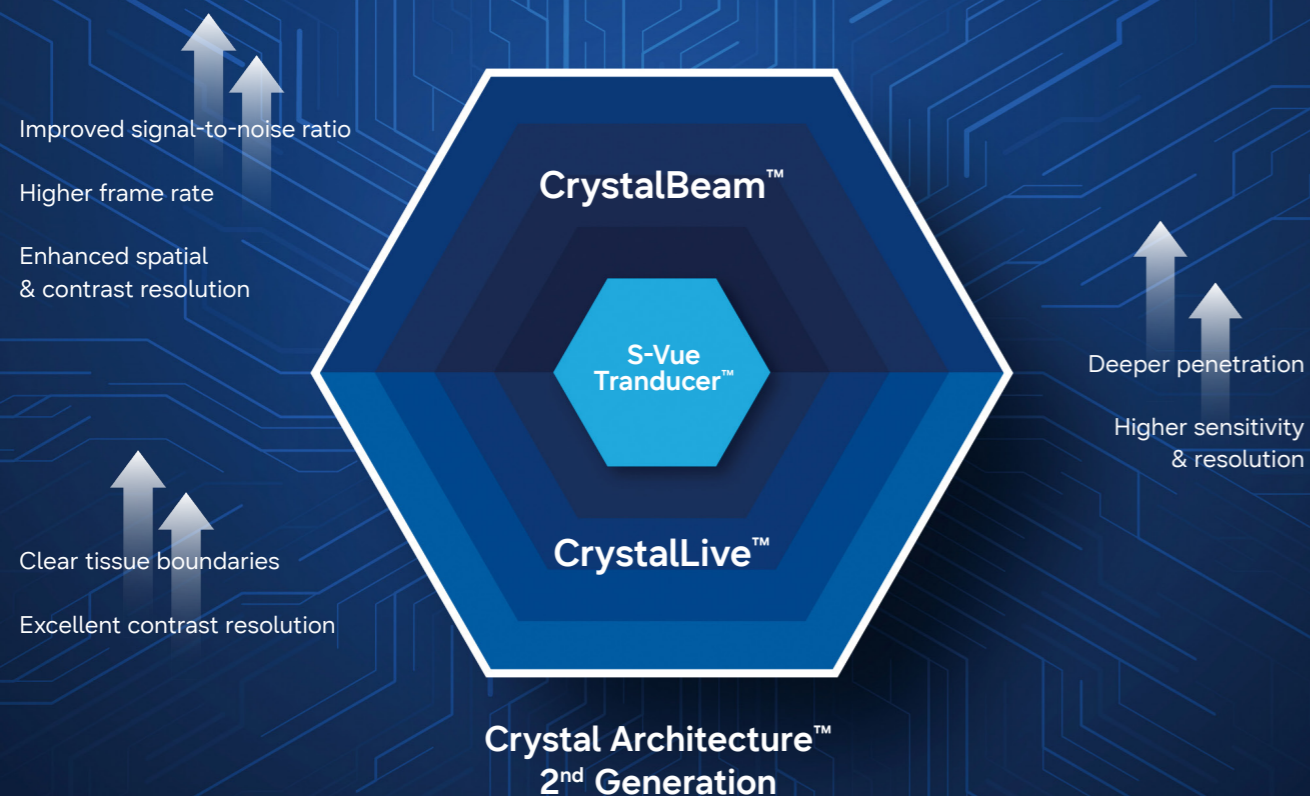


Abundant women’s health solutions for every stage

*HERA Z20 ultrasound system supports Windows 11 operating system. Complying with the latest security standards

Crystal-clear, exquisite image quality

Crystal Architecture™ 2nd Gen, the next-generation imaging architecture combines the strengths of CrystalBeam™ and CrystalLive™ technologies with the latest advancements in S-Vue Transducer™. This enhanced architecture is engineered to deliver crystal-clear images with unprecedented clarity and detail.



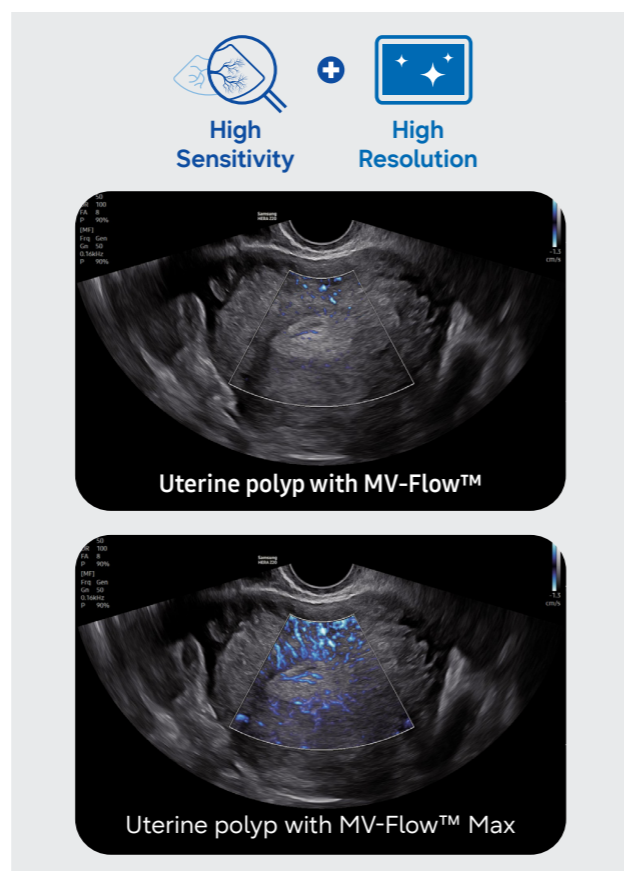
Visualize microvascular structures

MV-Flow™¹ visualizes microcirculatory and slow blood flow to display the intensity of blood flow. It is suitable for observation of microcirculatory blood flow and volume of slow blood flow.

NEW MV-Flow™ Max, as an advancement of MV-Flow™ technology, delivers higher sensitivity for blood flow visualization while preserving its high resolution.

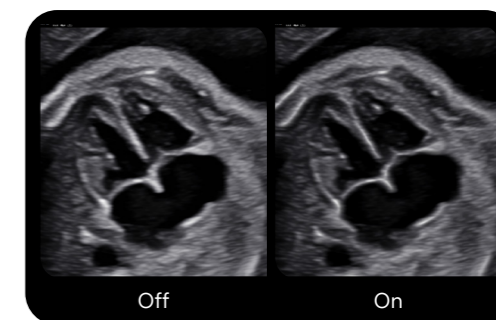
Illustrate blood flow in a 3D-like display

LumiFlow™ is a function that visualizes blood flow in three dimensional-like to help understand the structure of blood flow and small vessels intuitively.



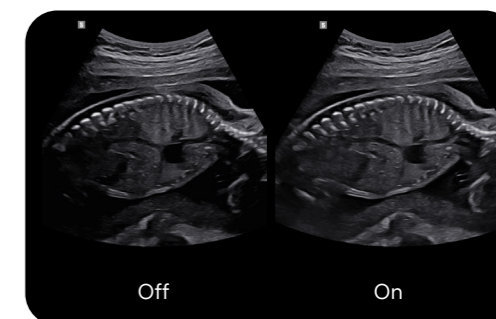
Visualize the boundary in 3D-like display

Luminant™ is a function that visualizes the boundary of a 2D image in three dimensional-like to help understand the boundary of structures such as the fetal heart or brain.



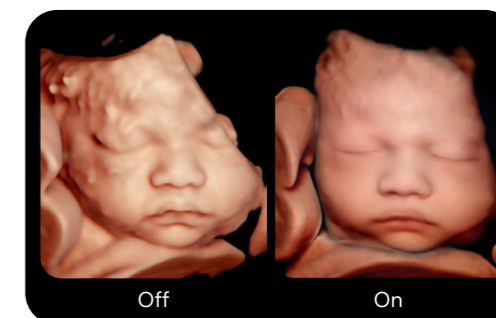
Enhance hidden structures in shadowed regions

ShadowHDR™ selectively applies high-frequency and low-frequency of the ultrasound to identify shadow areas such as fetal head or spine where attenuation occurs.



Restore blurry or obscured parts of the fetus's face

PortraitVue™ is a feature that analyzes 3D ultrasound images to predict the fetal face and virtually restores blurry or obscured parts of the fetus's face.



* This feature is not a diagnostic function, but rather for an entertaining purpose to the mother.

Express 3D anatomy in detail and realistic view

RealisticVue™¹ 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.



Visualize internal and external structures using volume rendering

CrystalVue™¹ is an advanced volume rendering technology that enhances visualization of both internal and external structures in a single rendered image using a combination of intensity, gradient and position.





Workflow efficiency and diagnostic accuracy with AI



Experience the future of healthcare with our state-of-the-art AI tools, designed to automate real-time classification and measurement tasks, enhancing diagnostic precision and confidence. With a single press of a button, HERA Z20 streamlines repetitive tasks, empowering healthcare professionals to deliver unparalleled patient care and optimize overall workflow efficiency.

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

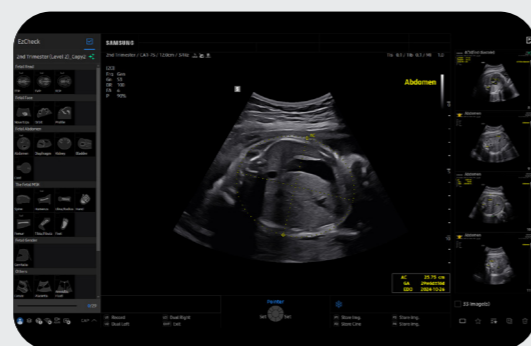
Live ViewAssist™ is a feature based on Deep Learning technology, that automatically classifies ultrasound images in real-time and provides annotation of structures and measurement results.



Reduced Scan Time

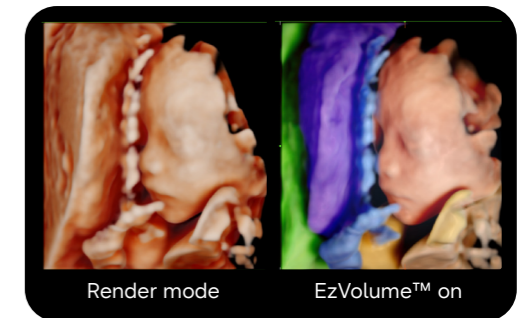


Minimize user dependency



Automatic structure segmentation for your desired view instantly

EzVolume™ is a feature based on AI technology that automatically segments the structures of the fetus in the acquired 3D image and allows the user to selectively view the structures they want. In addition, the user can intuitively view the desired 3D image by changing the color of each structure and adjusting transparency.



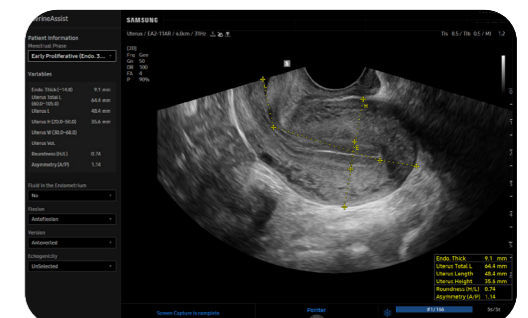
An automated fetal biometry measurement with AI technology

BiometryAssist™, a feature based on Deep Learning technology, is an automatic technology for biometric measurement. It enables users to measure the fetal growth parameters with one click while maintaining exam consistency.



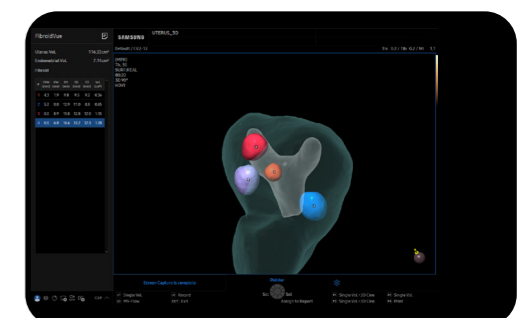
Measure the size and shape of the uterus with AI technology

UterineAssist™, a feature based on Deep Learning technology, automatically measures the size and shape of the uterus, which helps in finding signs of uterine-related abnormalities, and also reduces scan time.



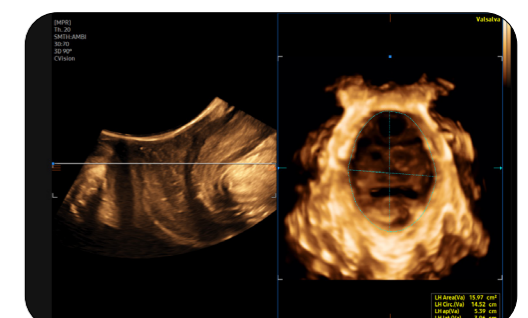
Define fibroid boundaries with AI technology

NEW FibroidVue™ is a feature based on AI technology that rapidly segments and visualizes the uterus, endometrium, and fibroids. It assists the user in effortlessly tracing the boundary lines of the region of interest, even for complex fibroids, and provides a report for diagnosis and procedure planning.



Automatic analysis of pelvic floor with AI technology

PelvicAssist™, a feature based on AI technology, helps identify anatomical structures and dysfunction of the Pelvic floor through structural analysis and automatic measurement, and it is provided with a streamlined workflow.



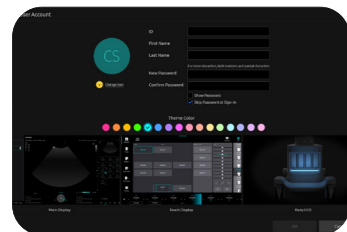


Redefining user's experience with customized solutions

HERA Z20 offers user-centric features that significantly enhance workflow and maximize ease of use. Customizable settings provide a tailored experience for each user, ensuring efficiency at every step. With the convenience of a single button touch, users can obtain optimal images across various modes, simplifying procedures and consolidating multiple actions into one seamless process.

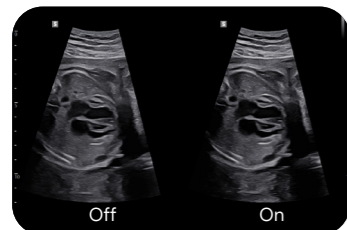
Abundant women's health solutions for every stage

HERA 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, and breast & gynecological care. Our tech-savvy features are designed to empower you to care with confidence, facilitating informed and comforting decisions.



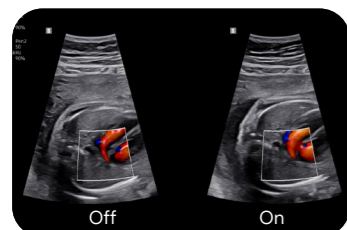
Ultrasound made personal with user account

MyHERA™ offers a customized user experience, including user environment settings and individual system settings, supporting to maximize ease of use.



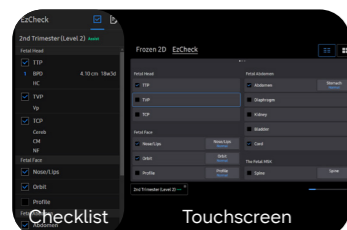
One-button solution for optimal 2D image settings

EzStructure™ quickly provides optimal 2D images of specific areas of the fetus by simply clicking one button.



One-button solution for optimal color and PW Image settings

EzFlow™ streamlines Color and PW image optimization by fine-tuning imaging parameters, with one click of a button. This enables the quick acquisition of optimal images for especially vascular structures, enhancing workflow for routine inspections.



Flag missing items

EzCheck™ helps to check whether the views and appearance check items that are recommended by the ISUOG guidelines have been acquired. This helps the users to track the not acquired items in real time.



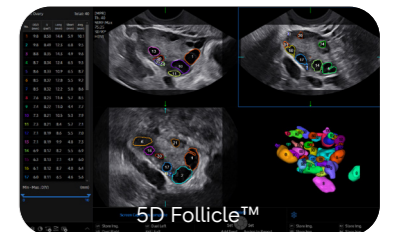
Ensuring clinical standards with AI

QualityCheck is a feature based on AI technology to assess whether the views acquired during prenatal ultrasound examinations meet clinical standards. It provides Quality Criteria to assist users in detecting with appropriate criteria and maintaining image quality consistency. This feature applies not only to Live ViewAssist™ but also to manually acquired views, thus enhancing its utility across various clinical situations.

Fertility care

Family planning

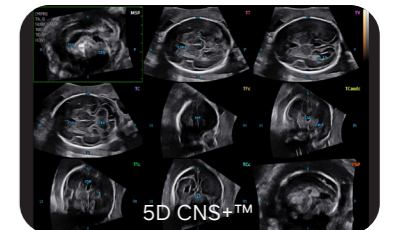
- 2D Follicle™¹
- 5D Follicle™¹
- UterineAssist™
- UterineContour™



Fetal diagnosis

Healthy pregnancy

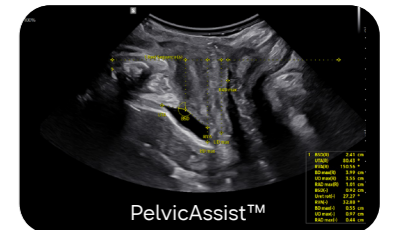
- 5D CNS+™¹
- 5D Heart Color™¹
- Live ViewAssist™¹
- HeartAssist™
- BiometryAssist™
- 5D Limb Vol.™¹
- 5D NT™¹
- MPI+
- QualityCheck
- **NEW** AutoFHR™



Labor & Delivery

Healthy birth

- E-Cervix™¹
- LaborAssist™¹



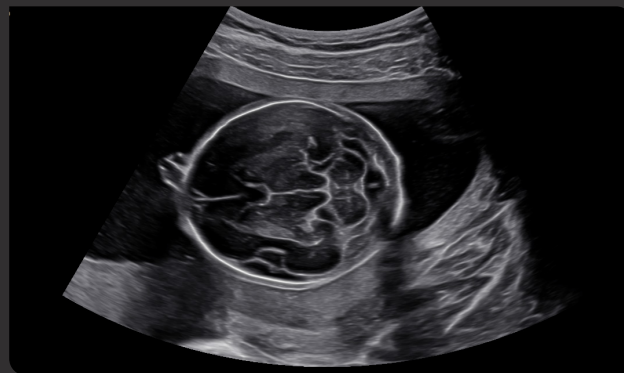
Breast & Gynecology

Gynecologic health

- S-Detect™ for Breast¹
- E-Strain™
- E-Breast™
- IOTA-ADNEX¹
- IOTA-SRrisk¹
- IDEA (International Deep Endometriosis Analysis)
- IETA (International Endometrial Tumor Analysis)
- EzPictogram™
- PelvicAssist™¹
- S-Shearwave Imaging™
- **NEW** FibroidVue™
- **NEW** MUSA
- **NEW** #Enzian



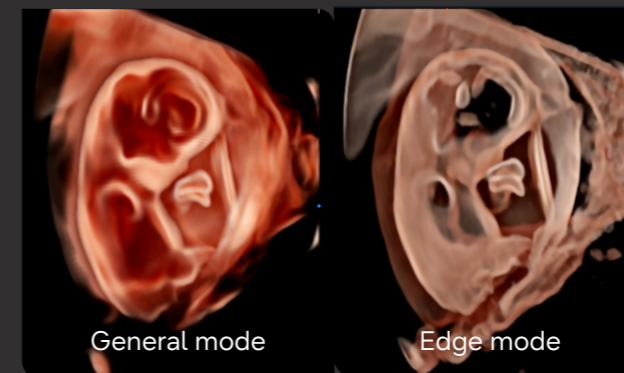
Image gallery



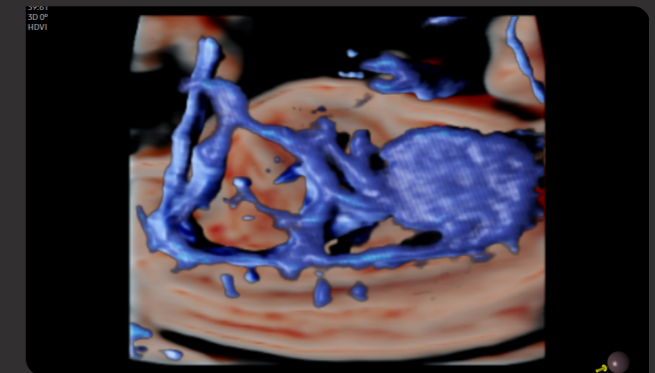
Fetal brain TCP view



Fetal abdomen



1st trimester in CrystalVue™¹



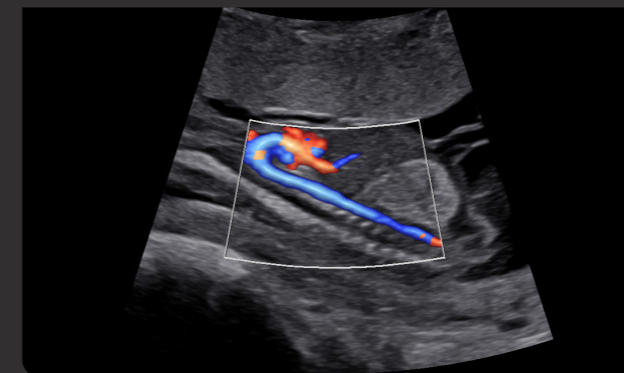
Fetal circulation with MV-Flow™¹ 3D



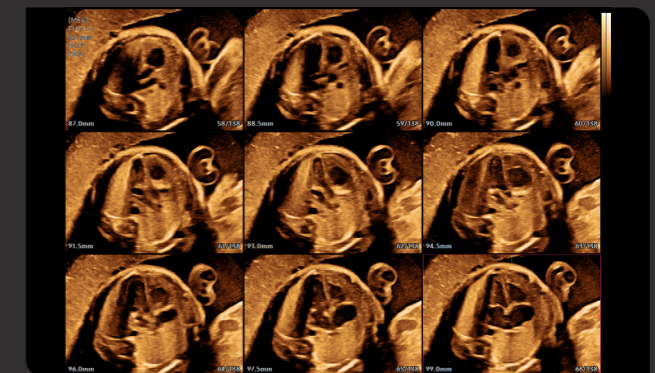
Complexed fetal heart anomaly



Fetal heart with Luminant™



1st fetal heart aortic arch view with S-Flow™



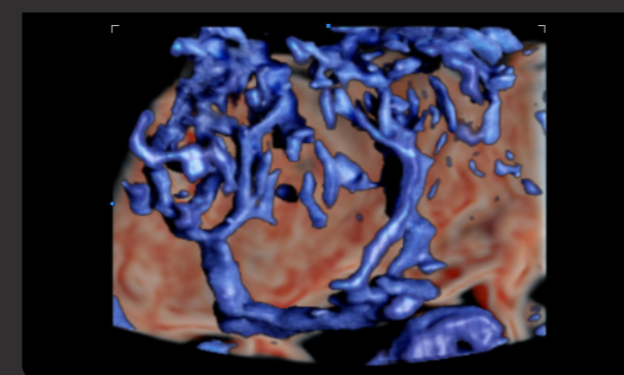
Fetal heart in MSV



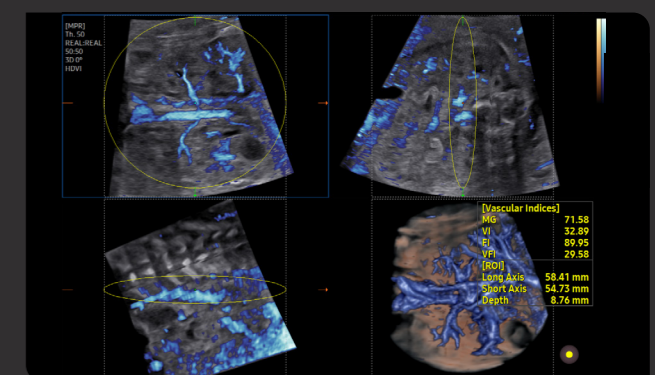
1st trimester fetus with 3rd Harmonic



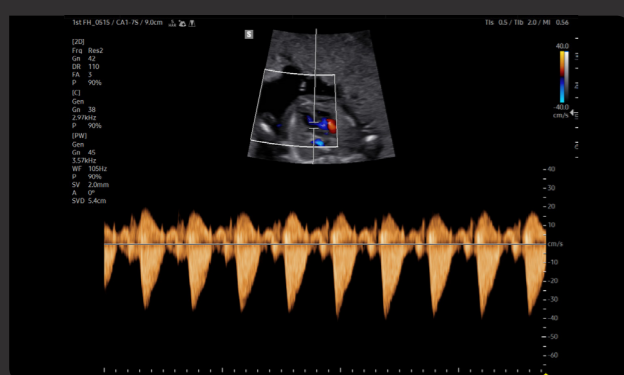
Fetal heart with MV-Flow™¹



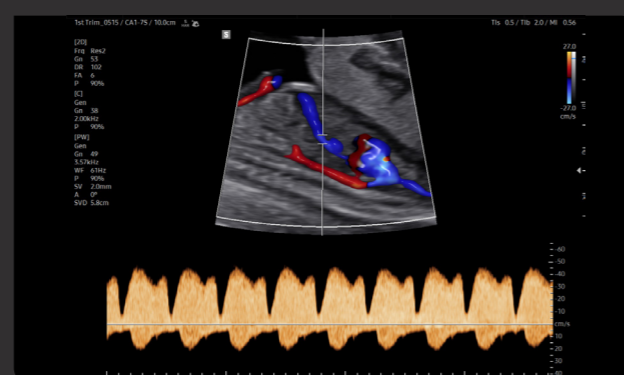
Placental villous tree with MV-Flow™¹ 3D



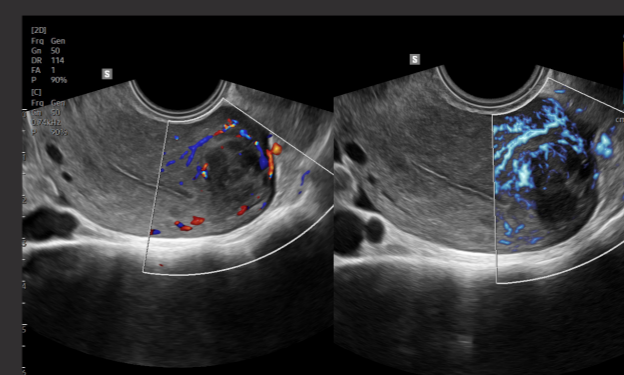
Renal arteries and abdominal aorta in coronal plane with MV-Flow™¹ 3D with quantification



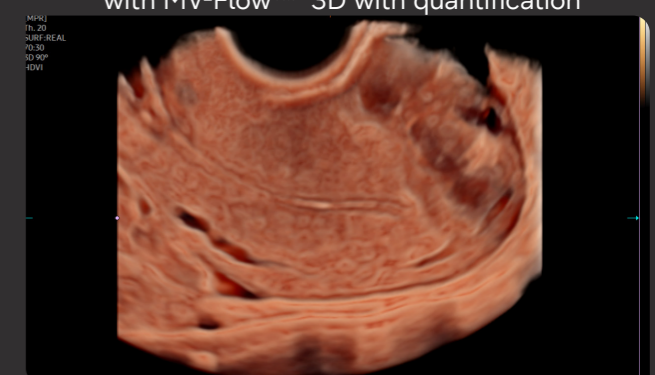
Fetal heart LVOT Doppler



Ductus venosus Doppler



Myoma with Color and MV-Flow™¹



Uterine myoma with CrystalVue™¹

Pursuing professional grace in the ultrasound system

Samsung dedicated extensive thought to engineering for healthcare professionals. How can we integrate professional grace into the workflow setup? How can we infuse the machine with a patient-caring tone? HERA Z20 was created with these considerations in mind, respecting the virtues upheld by healthcare professionals.



27" OLED Monitor with deep black color rendition



15.6" tilting touchscreen for optimal viewing



Lock the wheels easily with the button, allowing you to move the equipment conveniently



Wide moving range of control panel for flexible movement and posture



Effective design reduces heat and fan noise



Emotional LED lighting for visibility in dark environment



Ample knee space for comfortable position

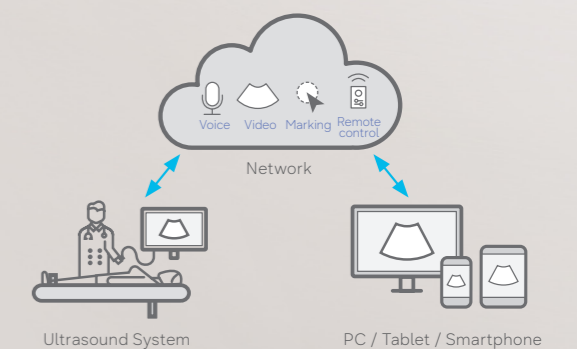


Two-level adjustable new gel warmer to warm the gel

Real-time image sharing solution

SonoSync™¹ is a real-time ultrasound live-streaming solution with remote controllability from a smart device. The remote control gives access of the control panel and touch screen from a smart device, which enables care guide and training between the healthcare professionals. In addition, voice chatting, text chatting, video conference, and real-time marking are provided for efficient communication.

* SonoSync™ is a function for image sharing, not for diagnosis.



Comprehensive selection of transducers

Volume transducers



Abdomen, Obstetrics, Gynecology, Urology



Abdomen, Obstetrics, Gynecology, Urology



Obstetrics, Gynecology, Urology

Curved array transducers



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



Abdomen, Obstetrics, Gynecology, Musculoskeletal, Pediatric, Vascular, Urology
* Sensor implemented

Linear array transducers



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



Abdomen, Pediatric, Vascular, TCD



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



Abdomen, Small Parts, Pediatric, Vascular, Musculoskeletal



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

Endocavity transducers



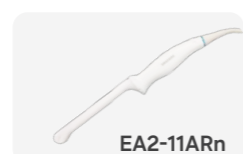
Small Parts, Musculoskeletal, Vascular, Pediatric



Small Parts, Musculoskeletal, Vascular, Pediatric, Intraoperative



Obstetrics, Gynecology, Urology



Obstetrics, Gynecology, Urology
* Sensor implemented



Obstetrics, Gynecology, Urology

Phased array transducers



Obstetrics, Gynecology, Urology



Abdomen, Cardiac, Pediatric, Vascular, TCD, Thoracic



Abdomen, Cardiac, Pediatric, Vascular, TCD

CMV1-10 matrix transducer

Exceptional image quality starts with cutting-edge transducer technology. Utilizing advanced matrix array technology, CMV1-10 helps healthcare professionals with high-resolution and penetration imaging. Samsung transducer enhances performance across 2D, 3D, and color imaging, ensuring precise diagnoses.



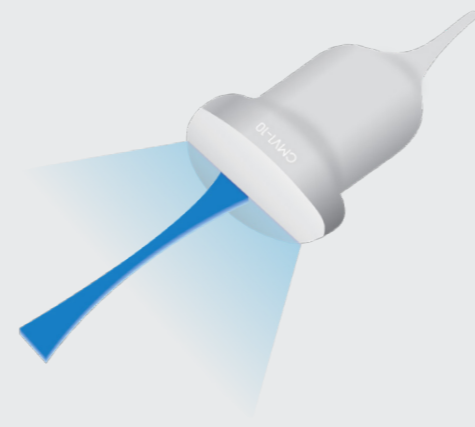
Higher resolution



Deeper penetration



Light weight



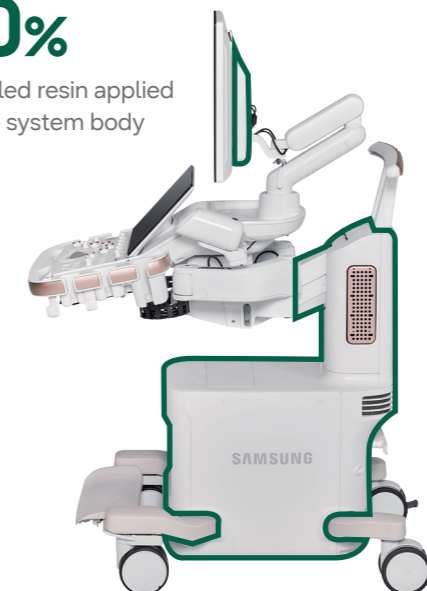
Changes Start from Small Steps



HERA 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. HERA Z20 not only cares for you and your patients but also for the planet we all share.

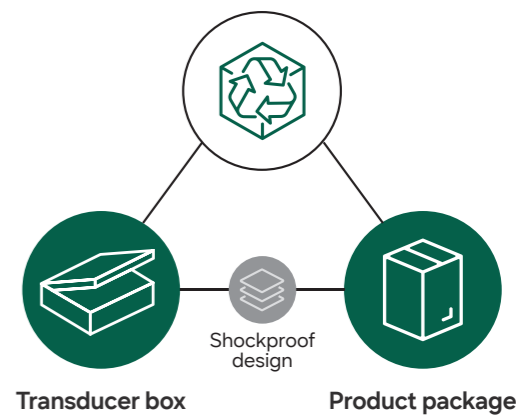
50%

Recycled resin applied on the system body



100%

Eco-conscious paper packaging with specially engineered shockproof design



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

*HERA Z20 ultrasound system supports Windows 11 operating system.

Complying with the latest security standards



Intrusion prevention



Access control



Data protection



Learn more

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.

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

1. Optional feature which may require additional purchase.

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