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# Комбинированная ультразвуковая система со встроенным креслом HERA I10



**EXPERIENCE**  
A New Healthcare  
Solution

# Ultrasound Reimagined

HERA, an acronym stands for Hyper-aperture and Enhanced Reconstruction Architecture, is Samsung's new preeminent ultrasound platform committed to delivering astonishing images and state-of-the-art ergonomics with simple yet ingenious look for the satisfaction in medical care.

With the introduction of the HERA I10, ultrasound hasn't just been redesigned, it has been reimagined. With input from clinicians and patients, HERA I10 transforms and elevates the ultrasound experience from each user's perspective. A new form factor, a combination ultrasound system with built-in exam chair, allows for a more comfortable environment with refined imaging technologies for increased diagnostic confidence.

**Excellent Image Quality**  
for accurate diagnosis

**Relaxing Atmosphere**  
for the patients

**Ergonomic Comfort**  
for healthcare professionals



**ESK**

## Ergonomic Design Award

Samsung's elite team of designers and certified healthcare professionals collaborated to develop ergonomic and human-friendly ultrasound system, winning the Ergonomic Design Award.

## REDEFINED IMAGING TECHNOLOGIES POWERED BY Crystal Architecture™

Crystal Architecture™, an imaging architecture combining CrystalBeam™ and CrystalLive™, while based upon S-Vue Transducer™, produces crystal clear and uniform images. CrystalBeam™ is a new beamforming technology beneficial in delivering high-quality image resolution and increased uniformity of images. CrystalLive™ is Samsung's sophisticated ultrasound imaging engine with enhanced 2D image processing, 3D rendering and color signal processing, to offer outstanding image performance and efficient workflow during complex cases.



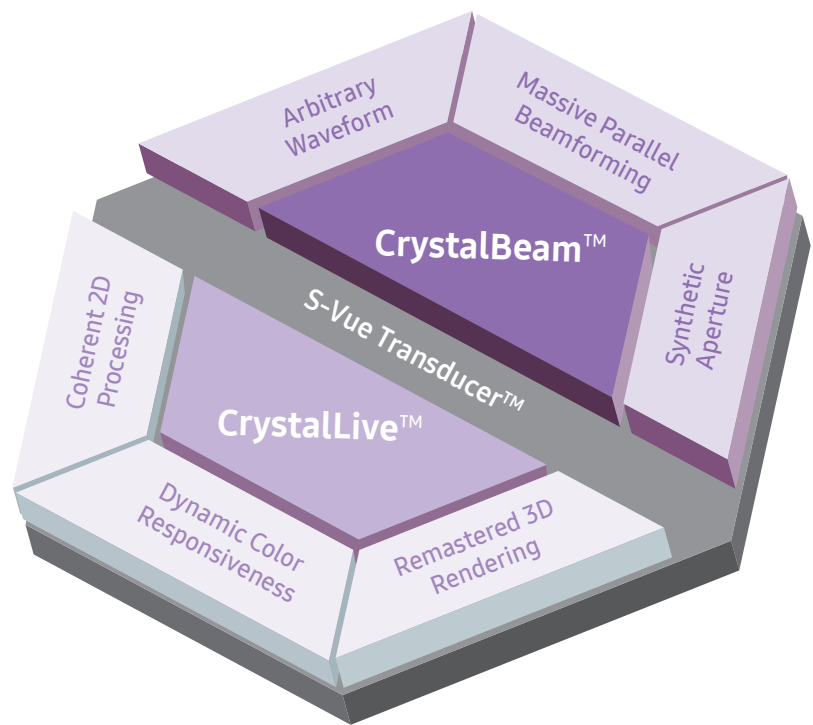
**X10** Data Transfer Rate \*  
for fast frame rates



**X11** Processing Power \*  
for high-quality images



**X3** GPU Memory \*  
for fast rendering



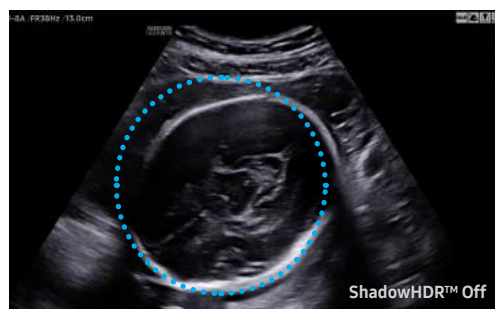
**Crystal Architecture™**

\* Compared to the Samsung WS80A

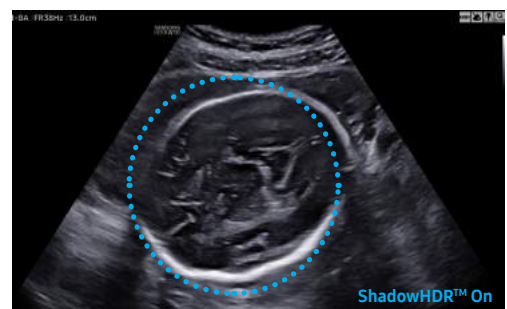
# Sophisticated 2D Images Processed by CrystalLive™

CrystalLive™ helps you to make more confident diagnoses with fundamental 2D images. Some major advantages of 2D images include shadow-suppressed images, lessened halo artifacts, and mitigated blurred area. ShadowHDR™ is a key feature that shows shadowy areas, making it especially applicable for use in highly attenuated regions, such as fetal head or spine.

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



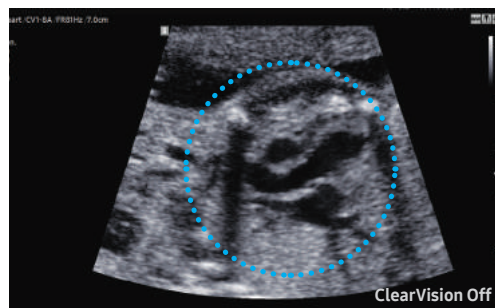
Fetal brain



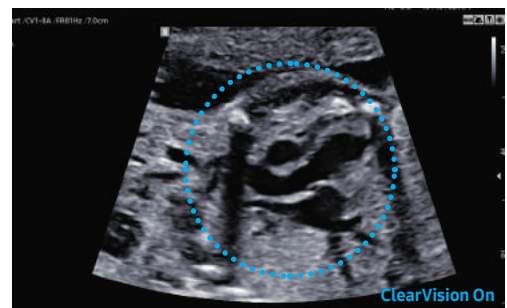
## ClearVision



ClearVision provides clearer tissue boundaries using the noise reduction filter and generates sharp 2D images. It reduces halo artifact that occurs when the tissue contour is enhanced, and removes noises on the tissue boundaries.



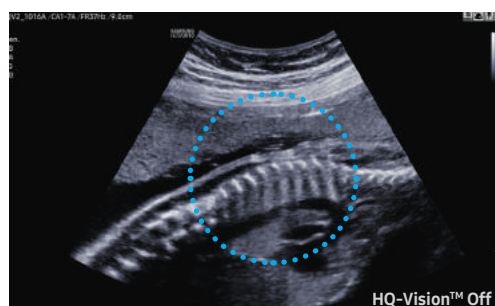
Fetal heart



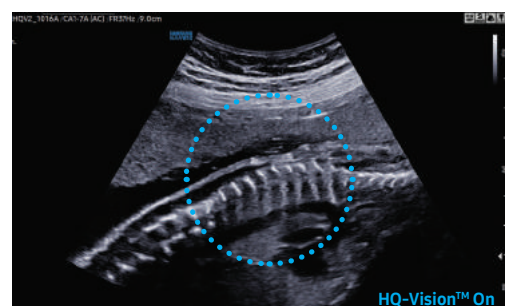
## HQ-Vision™



HQ-Vision™ provides clearer images by mitigating the characteristics of ultrasound images that are slightly blurred than the actual vision.



Fetal spine





# Realistic Description of 3D/4D Performance

CrystalLive™ in 3D/4D provides users with more realistic and high-resolution images. It outdoes conventional 3D imaging technologies in terms of viewing small parts and lighting effects. In addition, you are able to see 3D anatomy with more realistic depth perception, and can visualize the internal and external structures at once.

## HDVI™ 2.0



HDVI™ is a volume rendering technology that improves visualization of edges and small structures in volume data. Upgraded marginal expression and image saturation expresses the very details from angle to shadow of the fetus.



Fetal face with 3D



Fetal spine with 3D

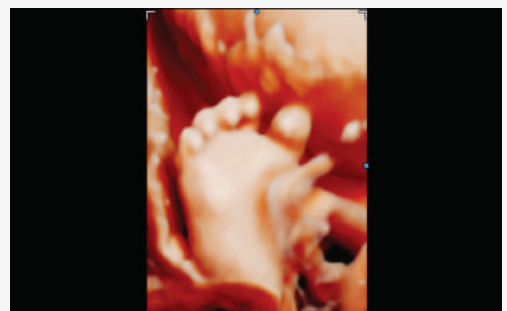
## RealisticVue™



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

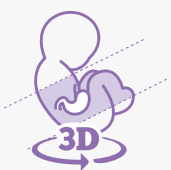


Fetal face with RealisticVue™

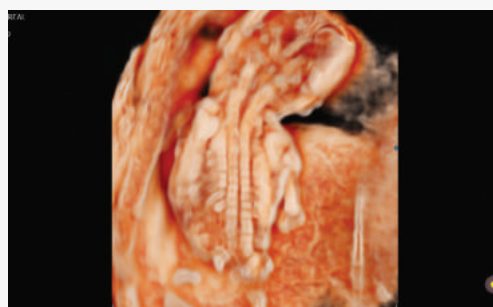


Fetal foot with RealisticVue™

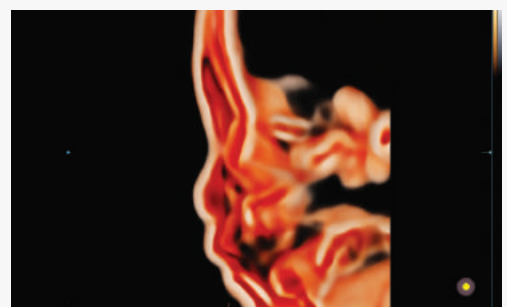
## CrystalVue™



CrystalVue™ 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.



Fetal spine with CrystalVue™



Fetal profile with CrystalVue™

# Detailed Expression of Blood Flow Dynamics

With the addition of CrystalLive, color performance and sensitivity have been improved to help clinicians more clearly visualize blood flow hemodynamics. New color signal processing allows for precise detection of peripheral blood vessels, microcirculatory blood flows, and volumes of slow blood flows.

## S-Flow™



S-Flow™ is a directional power Doppler technology, which helps in diagnosis of complex forms of blood flow.



Umbilical cord with S-Flow™



Fetal circulation with S-Flow™

## MV-Flow™



MV-Flow™ offers a novel alternative to power Doppler for visualizing slow flow of microvascularized structures. High frame rates and advanced filtering enable MV-Flow™ to provide a detailed view of blood flow in relation to surrounding tissue or pathology with enhanced spatial resolution.



Placenta with MV-Flow™



BPD with MV-Flow™

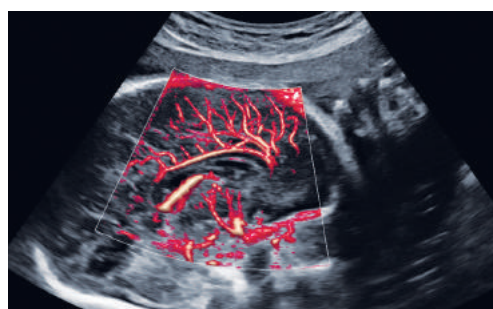
## LumiFlow™



LumiFlow™ is a 3D effect on Color Doppler, which helps to understand the structure of blood flow and small vessels intuitively.



S-Flow™ with LumiFlow™ (Color cord)

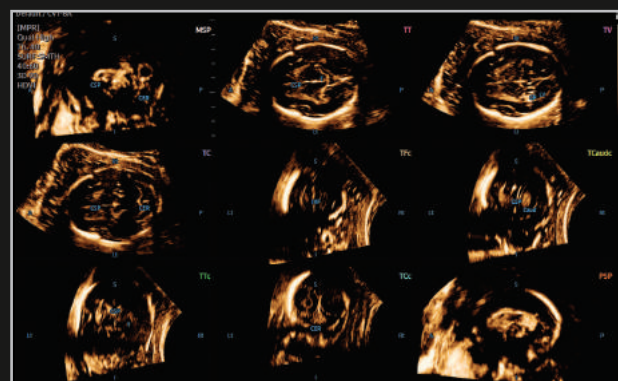


MV-Flow™ with LumiFlow™ (Fetal brain)



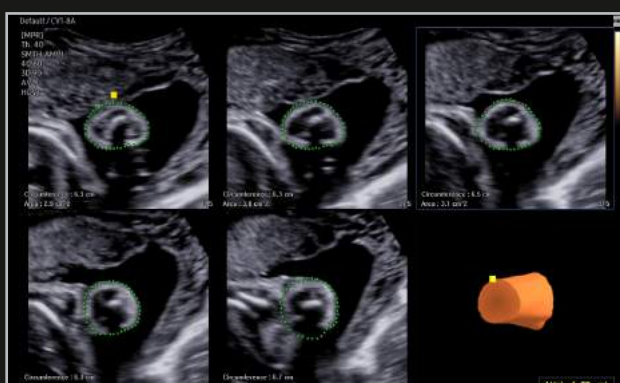
### Fetal biometry estimation with BiometryAssist™

A semi-automatic technology for biometric measurement, BiometryAssist™, enables users to measure the growth of the fetus quickly while maintaining exam consistency.



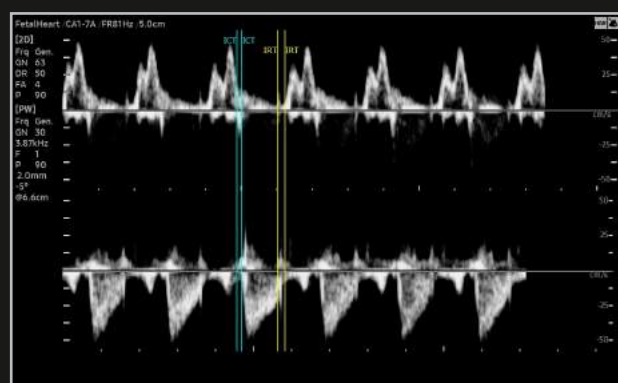
### Fetal brain measurement with 5D CNS+™

5D CNS+™ uses intelligent navigation to provide 6 measurements from 3 transverse views of the fetal brain to enhance measurement reproducibility and streamlined workflow.



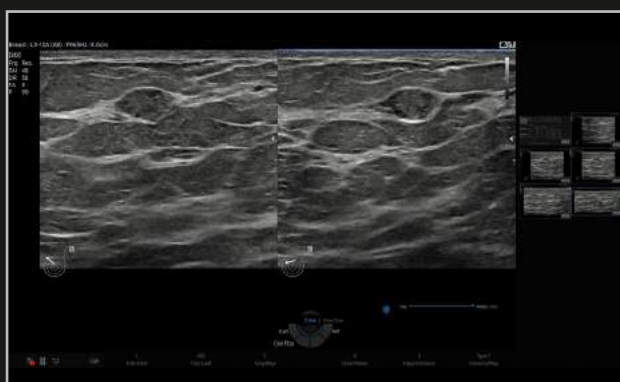
### Fetal weight estimation with 5D Limb Vol.™

5D Limb Vol.™ is a semi-automated tool to quickly and accurately measure upper arm or thigh volumes from 3 simple seed points on a single volume data set.



### MPI+

MPI+ is able to semi-automatically measure LV MPI and RV MPI, providing a high reproducibility. After acquiring Inflow/Outflow doppler, RV MPI proceeds alignment by utilizing synchronized signals of the heart rate and valve movement.



### Breast with WideScreen

WideScreen provides approximately 23% more lateral viewing information compared to the standard view on HERA I10, allowing ultrasonic examination with wider view at a glance.



### Fetal hand with AmbientLight

Creating intricately graduated shades, AmbientLight improves depth expression of the surface. This 3D rendering feature is especially useful to see fetal face or hands in detail.



# Relaxing Atmosphere for the patients

HERA I10 delivers differentiated user experience for the satisfaction of the patients. Effortless usability and the clean system is the key of relaxing ultrasound examination for the patients



## Safe & Comfortable Position Change

When your patients walk into the exam room, they will see a warm and inviting environment with HERA I10. Help your patients gently ease into the ultrasound exam in a relaxing and comforting way. The powered, adjustable Exam Chair has four programmable positions to help patients safely and comfortably move into the optimal position needed to capture the necessary images to provide a confident diagnosis. Take your patient satisfaction to a new level by elevating your ultrasound experience with HERA I10.



Hand Remote



Foot Controller\*



Start Position



Abdomen Position



Full Flat Position



Lithotomy Position



# Relaxing Atmosphere for the patients

HERA I10 delivers differentiated user experience for the satisfaction of the patients. Effortless usability and the clean system is the key of relaxing ultrasound examination for the patients



## Clean & Clutter-free Environment

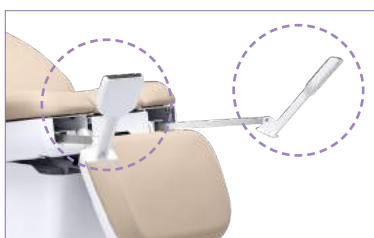
The Exam Chair Paper Roll provides a convenient and easy way to maintain a clean and safe environment. The Transducer Station sustains the cable to not reach the patient's body. The ergonomic structure satisfies the patients to experience ultrasound exams in a clean and relaxing atmosphere.



Exam Chair Paper Roll



Cable Support Arms



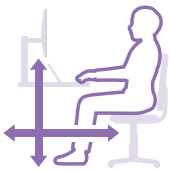
Stirrups for Foot Placement  
(Lithotomy Position)



Transducer Cable Management

# Ergonomic Comfort for healthcare professionals

With the Hera I10, healthcare professionals may experience less muscle strain and increased user satisfaction while scanning. Each component of the Hera I10 implements our philosophy: deliver ergonomic comfort and help users stay healthy.



## Ample Leg Room & Relieved Muscle Strain

The conventional location of the system electronics is located at the backside of the Exam Chair to offer plenty of leg room for the examiner. The Transducer Cable helps decrease muscle strain, reduces peak pulling force and wrist burden. The cable is coming from a higher position instead of a lower position like in conventional system, thus making the transducer feel lighter in operation.



↓ **13.2%**

Decreased Muscle Activity \*\*  
for ultrasound scan task



↓ **82.3%**

Less Peak Pulling Force \*\*  
for vaginal scan setting



↓ **52.5%**

Reduced Wrist Burden \*\*  
for using transducer

## HERA I10 Dimensional Information

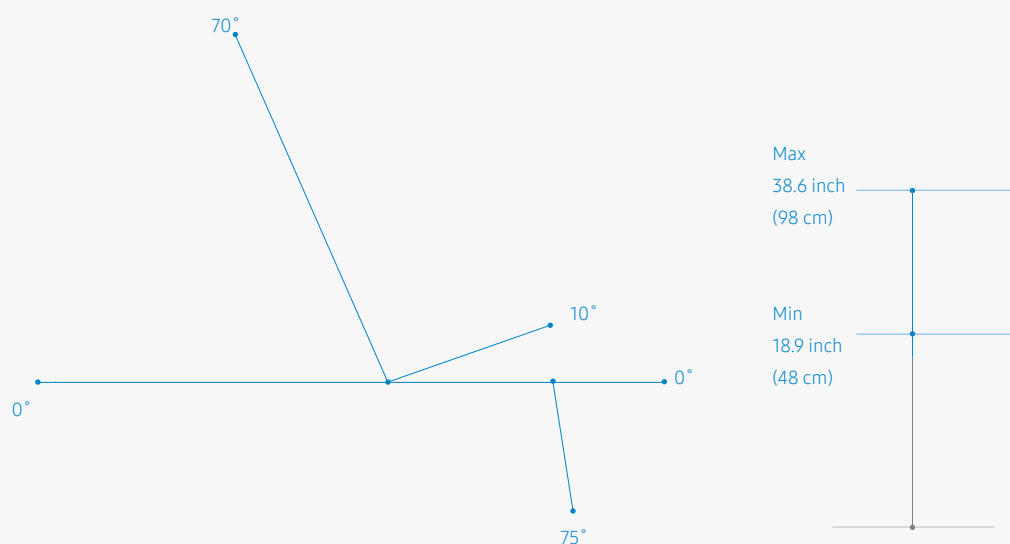
Maximum Size : Length 7.5ft (230cm) x Width 6ft (183cm) x Height 5.7ft (175cm)



**Room Layout 1** 11.8 ft x 11.8 ft

**Room Layout 2** 11.8 ft x 10.2 ft

Fully automatic chair movement, wheel chair accessible seat height



## Samsung Healthcare Cybersecurity

To address this 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.



Intrusion Prevention



Access Control



Data Protection

# COMPREHENSIVE SELECTION OF TRANSDUCERS

## Volume Transducers



### CV1-8A

Abdomen, obstetrics,  
gynecology



### EV3-10B

Obstetrics, gynecology,  
urology



### L3-12A

Small parts, vascular,  
musculoskeletal



### LA2-9A

Small parts, vascular,  
musculoskeletal

## Convex Array Transducers



### CA1-7A

Abdomen, obstetrics,  
gynecology, contrast



### CA3-10A

Abdomen, obstetrics,  
gynecology



### CA2-9A

Abdomen, obstetrics,  
gynecology



### CF4-9

Pediatric, vascular

## Endocavity Transducers



### EA2-11B

Obstetrics, gynecology,  
urology



### VR5-9

Obstetrics, gynecology,  
urology



### E3-12A

Obstetrics, gynecology,  
urology

## Phased Array Transducers



### PA4-12B

Cardiac, pediatric



### PM1-6A

Cardiac, TCD, abdomen



### PA3-8B

Cardiac, pediatric,  
abdomen

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