Secure your care
Samsung Healthcare Cybersecurity

Bringing peace of mind to your hospital and patients

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. 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
Tools for protecting against cyber threats from external attacks
· Security tools include Anti-virus & Firewall
· Secured operating system

Access control
Strengthened surveillance for tracking the access of patient information
· Account management
· Enhanced audit trail

Data protection
Encryption functions for safeguarding data whether at-rest or in-transit
· Data protection
· Transmission security

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.

*This product, along with its various features, options and transducers, is not currently available in all countries.
 Due to regulatory reasons, its 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.
*S-Vue Transducer™ is the name of Samsung's advanced transducer technology.
*Crystal Clear Cycle™ is not the name of a function, but is Samsung's marketing terminology.
* Optical Disk Drive is not available for this product.

CT-HS50 V2.02-OB-FT-200113-EN

Simple yet powerful

Ultrasound system
HS50 Powered by CrystalLive™

Scan code or visit
www.samsunghealthcare.com
to learn more

EXPERIENCE
A New Healthcare
Solution

SAMSUNG

Samsung's commitment to life-long healthcare for Women

Crystal Clear Cycle™, an integrated solution for women's health issues, categorizes the most signification health events for women into six stages, and provides diagnostic solutions tailored to each stage.

Samsung's HS50 ultrasound system adopts the integrated solution, combining high-quality imaging with advanced features to support healthcare professionals in making fast and accurate decisions.

CRYSTAL CLEAR CYCLE™

Powered by CrystalLive™

Powered by CrystalLive™

CrystalLive™ is Samsung's up-to-date 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.

Samsung
Ultrasound System **HS50**

Family Planning

Healthy Pregnancy: Biometry

Healthy Pregnancy: Diagnosis

Healthy Pregnancy: Visualization

Healthy Birth

Gynecology & Breast Health

Focusing on diagnostic solutions for women's health

The HS50 provides a versatile range of obstetric and gynecological capabilities for efficient and effective care. With its efficient diagnostic solutions, the HS50 supports your knowledge and experience to help you make clear, confident decisions.

Family Planning

2D Follicle™ ※

2D Follicle™ is a function to measure the size of follicles based on 2D image and to provide information about the status during controlled ovarian simulation.
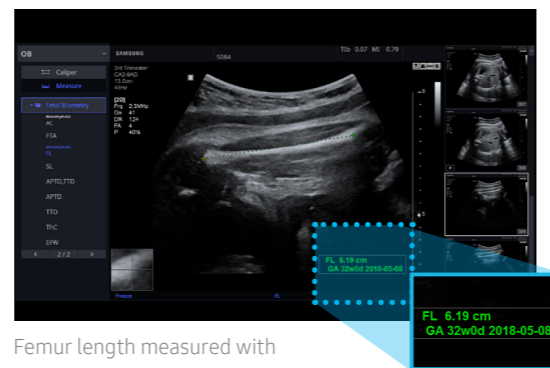
5D Follicle™ ※

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

Healthy Pregnancy Biometry

BiometryAssist™

A semi-automatic technology for biometric measurement, BiometryAssist™, enables users to measure the fetal growth parameters such as BPD, HC, AC and FL with one click while maintaining exam consistency.
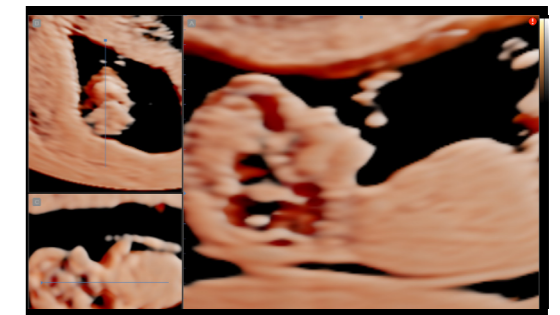

Femur length measured with BiometryAssist™*

Healthy Pregnancy Diagnosis

5D NT™ ※

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.

Nuchal translucency*

Healthy Pregnancy Visualization

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.

Early Fetus*

Healthy Birth

LaborAssist™ ※

LaborAssist™ is a function that provides information of the progress of delivery by the automatic measurement of AoP (Angle of Progress) and the direction of the fetal head. This not only helps in effective communication between the healthcare professionals and mothers, but also assists in making delivery decision for the healthcare professionals.

* AoP complies with the metrics specified in the ISUOG Guideline.

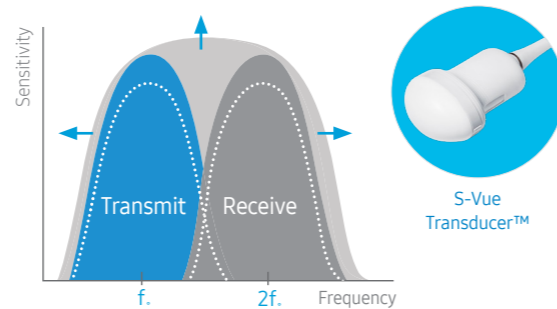# Highly detailed images through innovation

Samsung's innovative imaging technologies and S-Vue Transducer™ provide highly detailed images to increase diagnostic confidence.

S-Vue Transducer™
(CA1-7AD, CA2-9AD, CV1-8AD, PA1-5A)

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

* The image is for illustrational purposes only and might differ from the actual performance of the device

Sensitivity

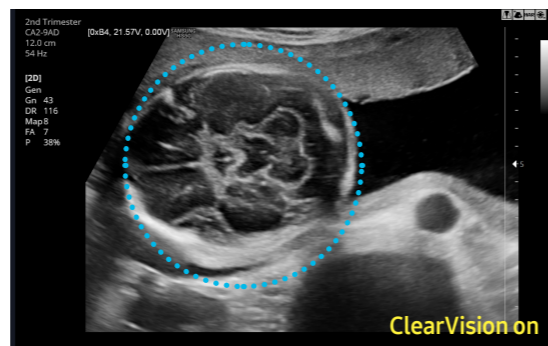Transmit | Receive

f. | 2f. | Frequency

S-Vue Transducer™

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.
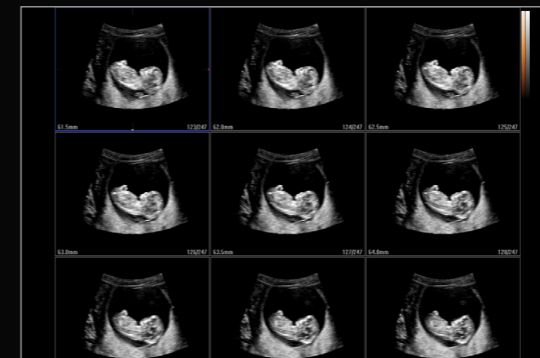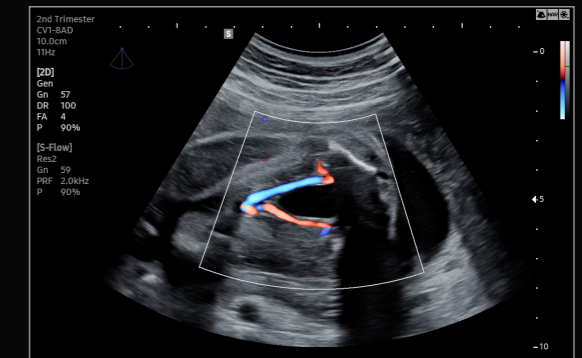

ClearVision off

ClearVision on

Fetal brain*

* The asterisk on this page is the clinical images acquired by the HS50 V1.00 ultrasound system.
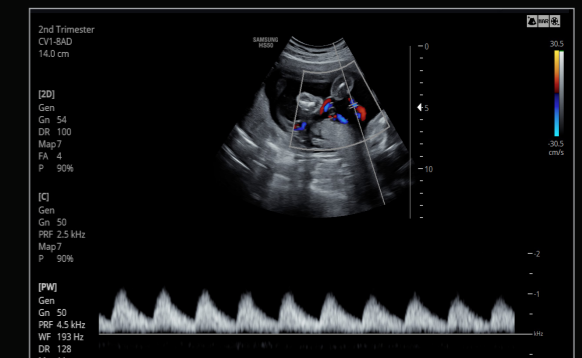
Image gallery

Early fetus with MSV*

Umbilical artery**

Fetal heart*

Umbilical cord with PW*

1st trimester*

Fetal abdomen*

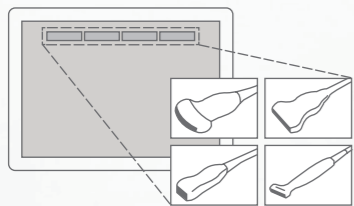Fetal heart with PW*

Fetal brain*

* The asterisks on this page are the clinical images acquired by the HS50 V1.00 ultrasound system.
** Two asterisks on this page are the clinical images acquired by the HS50 V2.00 ultrasound system.

User-oriented features that streamline your workflow

A busy practice needs user-oriented features to manage routine obstetric and gynecological exams. Accurate and easy-to-use, HS50's comprehensive features enable greater throughput.

INTERNATIONAL DESIGN EXCELLENCE AWARDS '17 FINALIST

iF DESIGN AWARD 2017

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.
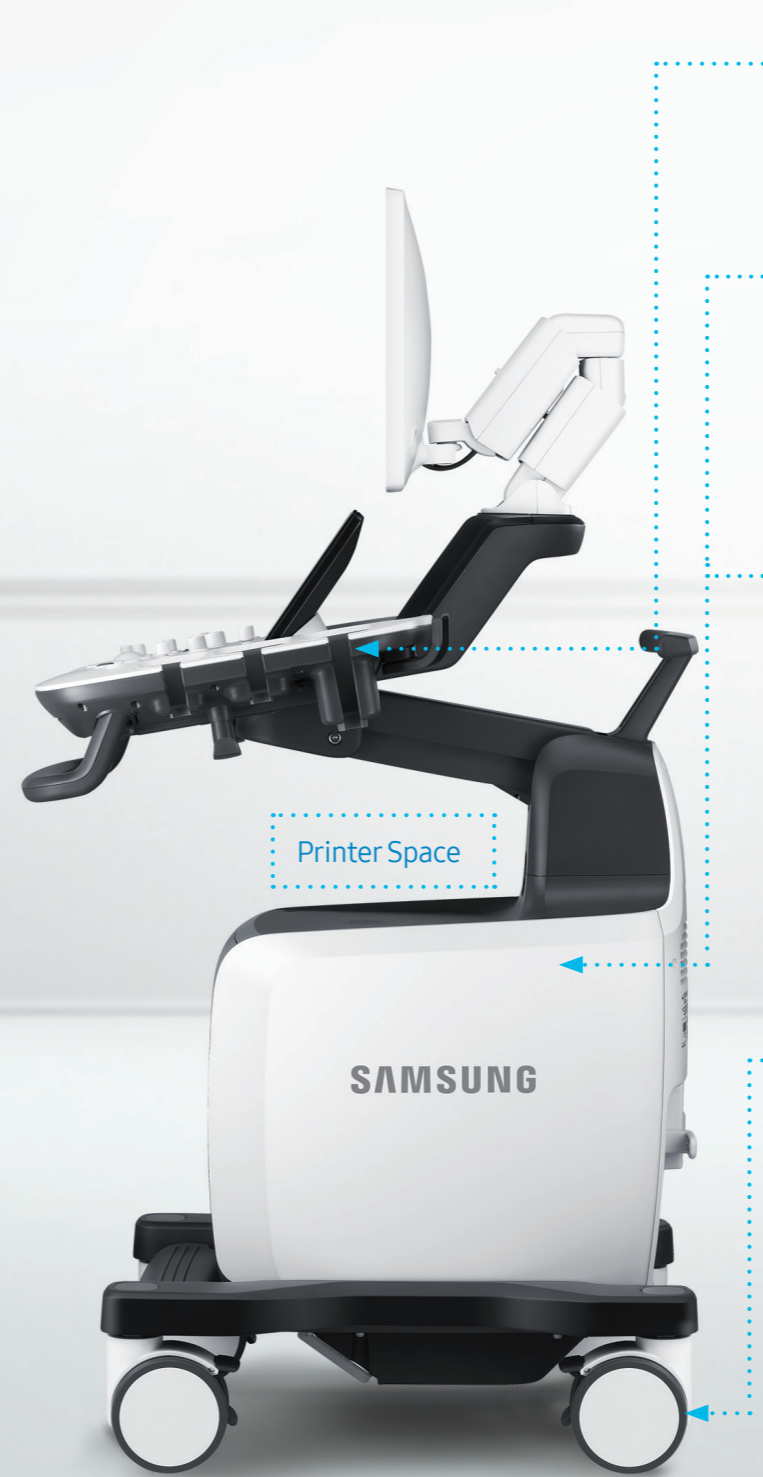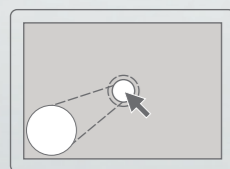
EzCompare™

EzCompare™ allows easy access to previously taken exams to evaluate corresponding views in a side-by-side display. For greater efficiency, EzCompare™ automatically matches the image settings, annotations, and bodymarkers from the prior study.

Measure Navigation

When placing a caliper, Measure Navigation automatically magnifies the area of interest using a picture-in-picture window to allow more precise placement of the calipers. This is especially useful when measuring small structures or when accuracy is critical.

21.5 inch

10.1 inch

Printer Space

Gel warmer   ※ Optional Extra

Two-level adjustable gel warmer maintains ultrasound gel at a comfortable temperature.

Solid State Drive (SSD)

The HS50 uses advanced solid state drives. These stable and dependable drives allow faster bootup, better frame rates, and fast processing speeds.
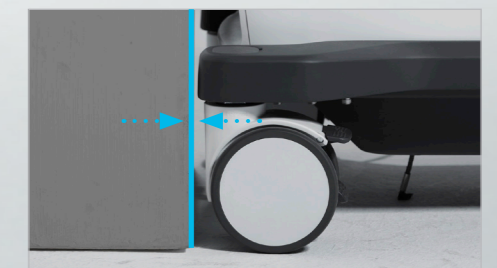
BatteryAssist™

BatteryAssist™ provides the system with battery power. This serves two important purposes. It enables users to perform scans and transport the ultrasound system to other locations in environments where AC power may not be available temporarily.

Clever use of space

With its reduced weight and compact size, the HS50 takes up minimal space and can move freely. In addition, its streamlined rear profile allows you to park the HS50 in small spaces.

Comprehensive selection of transducers

Curved array transducers

CA1-7AD
S-Vue Transducer™
- Application : abdomen, obstetrics, gynecology

CA2-9AD
S-Vue Transducer™
- Application : abdomen, obstetrics, gynecology

CF4-9
- Application : pediatric, vascular

Linear array transducers

LA3-14AD
- Application : small parts, vascular, musculoskeletal

LA3-16A
- Application : small parts, vascular, musculoskeletal

Endo-cavity transducers

EA2-11AV
- Application : obstetrics, gynecology, urology

EVN4-9
- Application : obstetrics, gynecology, urology

EA2-11AR
- Application : obstetrics, gynecology, urology

ER4-9
- Application : obstetrics, gynecology, urology

Phased array transducers

PA1-5A
S-Vue Transducer™
- Application : abdomen, cardiac, vascular

PE2-4
- Application : abdomen, cardiac, vascular

PA3-8B
- Application : abdomen, cardiac, pediatric

PA4-12B
- Application : cardiac, pediatric

Volume transducers

CV1-8AD
S-Vue Transducer™
- Application : abdomen, obstetrics, gynecology

V5-9
- Application : obstetrics, gynecology, urology

CW transducers

CW6.0
- Application : cardiac

DP2B
- Application : cardiac

TEE transducer

MMPT3-7
- Application : cardiac

* Some of the transducers may not be available in some countries.