

Relentless Innovation
for your diagnostic confidence

SAMSUNG

R20

Deep Insight,
Confident Decision



Visit website

The R20 is more than just an ultrasound system – it is a comprehensive solution, meticulously designed to support healthcare professionals at every stage of patient care, from initial screening and diagnosis to intervention and beyond. With leading image quality, AI-enhanced clinical tools, effortless workflow, and intuitive, user-centric design, the R20 empowers healthcare professionals to focus on what matters most: delivering accurate and confident care. Additionally, the R20 offers tailored configurations that align with your specific operational needs. This advanced ultrasound system not only enhances the user experience but also sets a new standard of excellence in patient care, ensuring consistent quality from start to finish.

Key highlights

Leading-edge imaging for every care stage, all patients, everywhere

Equipped with a next-generation imaging engine, advanced GPU, and a wide OLED monitor, the R20 delivers outstanding performance and high-resolution images.

Strengthens every decision with intelligent clinical tools

Empowered by AI solutions and advanced tools, the R20 enhances clinicians' confidence across various diagnostic scenarios.

Effortless workflow, focus more on patients

Automated functions drastically reduce exam time, while an intuitive, radiology-optimized UX/UI improves daily workflow and operational ease.

Designed for you, perfected for full-body imaging

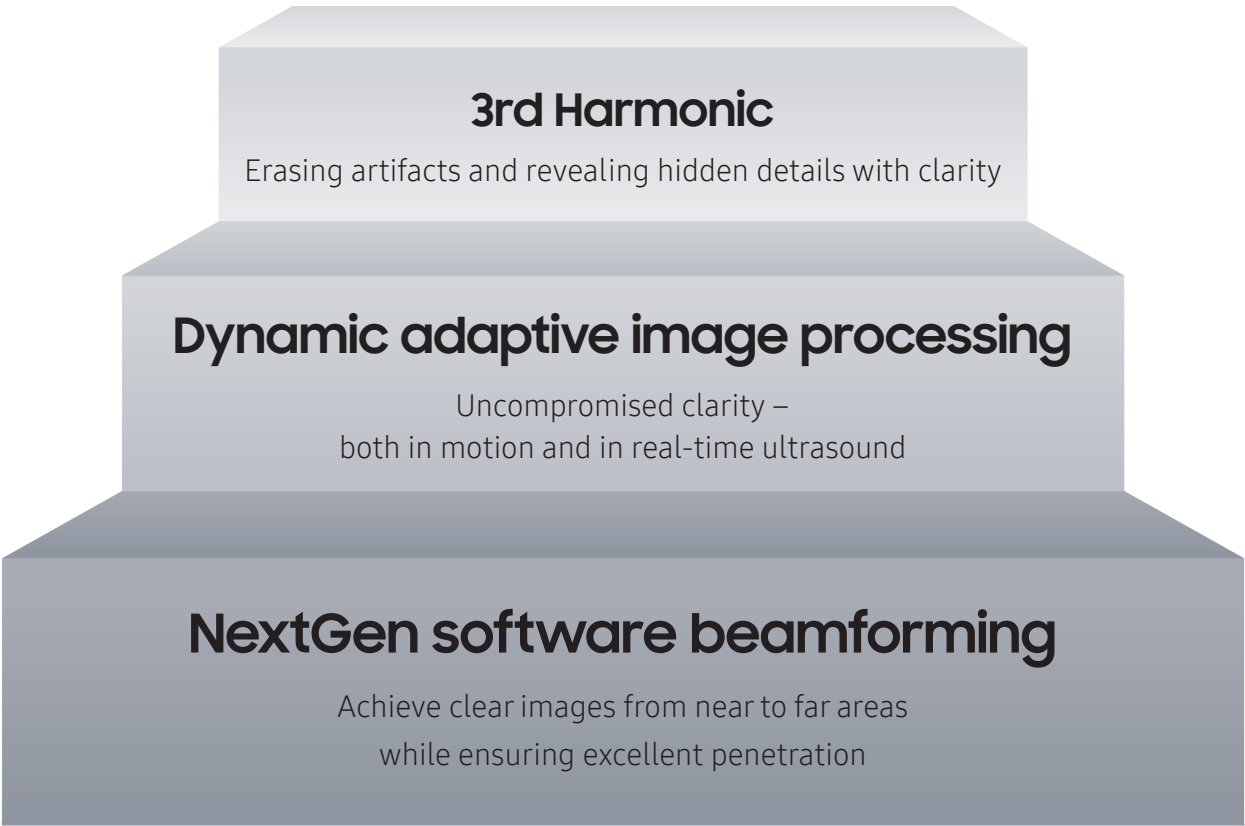
With its intuitive layout, user-friendly interface, and refined design, the R20 is built to support clinicians across all applications and body types — enabling flexible scanning with confidence and comfort.



Leading-edge imaging for every care stage, all patients, everywhere

The R20 delivers exceptional image clarity—even in technically challenging cases and across diverse patient types. With optimized contrast, sharpness, and uniformity, it helps ensure reliable, high-resolution imaging for confident clinical decisions.

Advancing core imaging to new frontiers



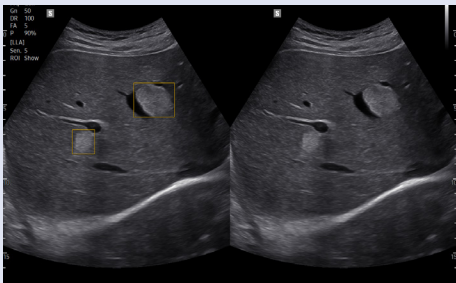
Noise reduction with edge enhancement ClearVision provides clear tissue boundaries using the noise reduction filter and generates sharp 2D images. It reduces halo artifact that occurs when the tissue contour is enhanced, and removes noises on the tissue boundaries.	ClearVision Off ClearVision On
Auto optimization of B-mode image in real-time Live Q-Scan during the scan, the brightness and uniformity of the B-mode image are automatically adjusted in real time to provide optimal image quality for each organ and region, helping to improve diagnosis and workflow.	Live Q-Scan Off Live Q-Scan On
Unparalleled shadow suppression ShadowHDR™ selectively applies high-frequency and low-frequency of the ultrasound to identify shadow areas such as intercostal space where attenuation occurs.	ShadowHDR™ Off ShadowHDR™ On
3D-like edge visualization for unmatched clarity Luminant™ is a function that visualizes the boundary of a 2D image in three dimensional-like to help understand the boundary of structures.	Luminant™ Off Luminant™ On
Blurry areas cleaned up instantly HQ-Vision™ provides clear images by mitigating the characteristics of ultrasound images that are slightly blurred than the actual vision.	HQ-Vision™ Off HQ-Vision™ On
Visualization of slow flow in 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.	Thyroid nodule in MV-Flow™ with LumiFlow™

Strengthens every decision with intelligent clinical tools

Abdomen

Real-time AI. Smart detection of liver regions of interest

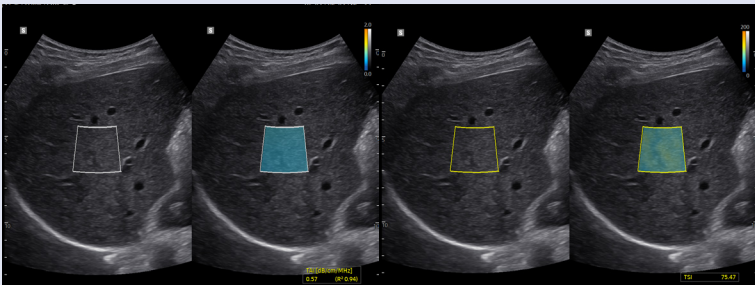
Live LiverAssist™¹, a feature based on Deep Learning technology, detects interested areas in real-time during liver scanning and displays the location of lesions to assist healthcare professionals in diagnosis.



Quantitative measurement of liver fat

TAI™¹ (Tissue Attenuation Imaging) provides quantitative tissue attenuation measurement to assess steatotic liver changes.

TSI™¹ (Tissue Scatter distribution Imaging) provides quantitative tissue scatter distribution measurement to assess steatotic liver changes.

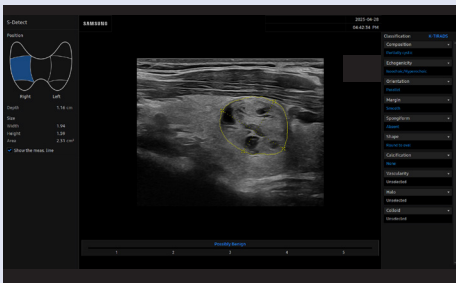


Thyroid

Precise thyroid assessment tool

S-Detect™¹ for thyroid, the feature, which analyzes selected lesions in the thyroid ultrasound study and shows the analysis data, provides standardized reporting based on the ATA, BTA, EU-TIRADS, K-TIRADS, and ACR TI-RADS guidelines; and helps diagnosis with the streamlined workflow

- . ATA: American Thyroid Association
- . BTA: British Thyroid Association
- . EU-TIRADS: European Thyroid Imaging Reporting and Data System
- . K-TIRADS: Korean Thyroid Imaging Reporting and Data System
- . ACR TI-RADS: American College of Radiology, Thyroid Imaging



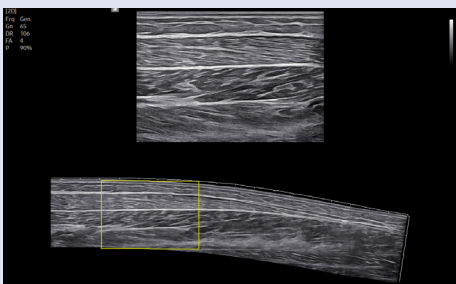
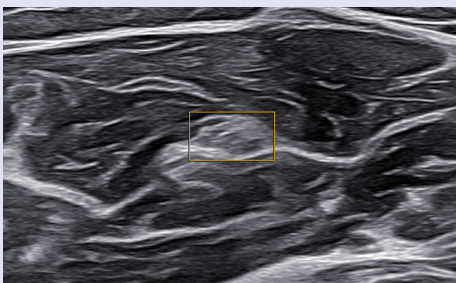
Musculoskeletal

Real-time AI. Smart detection of nerve regions of interest

NerveTrack™¹, a feature based on Deep Learning technology, detects and provides information of the location of the nerve area in real-time during ultrasound scanning.

Display in extended field-of-view

Panoramic+ imaging displays as an extended field-of-view so users can examine wide areas that do not fit into one image as a single image. Panoramic+ imaging also supports angular scanning from linear transducer data acquisition.



Breast

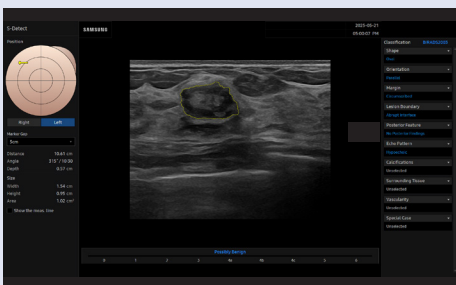
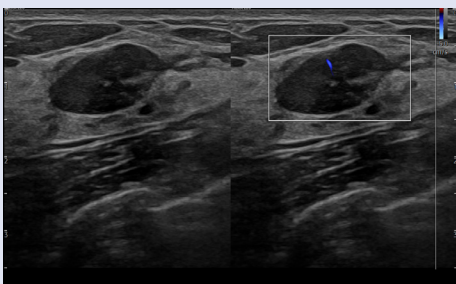
Real-time AI. Smart detection of breast regions of interest

Live BreastAssist™¹, a feature based on Deep Learning technology, detects interested areas in real-time during breast scanning and displays the location of lesions to assist healthcare professionals in diagnosis.

Precise breast assessment tool

S-Detect™¹ for breast, the feature, which analyzes selected lesions in the breast ultrasound study and shows the analysis data, applies BI-RADS ATLAS* (Breast Imaging-Reporting and Data System, Atlas) to provide standardized reporting; and helps diagnosis with the streamlined workflow.

* It is a registered trademark of ACR and all rights reserved by ACR.



Pediatrics

Pediatrics dedicated, 3rd generation single crystal new transducer, CA2-13M

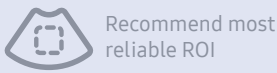
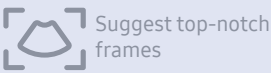
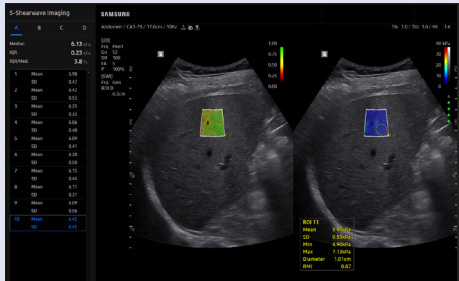


Effortless workflow, focus more on patients

Reliable quantification of tissue stiffness

S-Shearwave Imaging™¹ allows for non-invasive assessment of the stiffness of tissue/lesions in various applications such as breast, liver and MSK. The color-coded elastogram, quantitative measurements, dual or single display option, and user-selectable ROI functions are especially useful for the accurate diagnosis of breast and liver diseases. Also, S-Shearwave Imaging™ enhances workflow(EzSWI™) by recommending elastic imaging frames and ROI locations during shear wave imaging.

* EzSWI™ reduces keystrokes by approximately 70% compared to manual input.



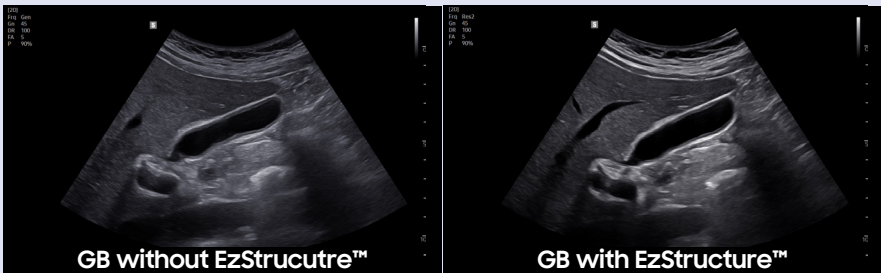
Ultrasound made personal with your user account

MyTune™ 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 the region of interest by simply clicking one button.



Predefined protocols ensure steps are followed consistently

EzExam+™ enables you to build or use a predefined protocol, and assign protocols for examinations that are regularly performed in the hospital in order to reduce the number of steps that you have to go through. For diagnosis, in particular, you can arrange the examination order according to the application using the touchscreen, and automatically apply the BodyMarker, Annotation, Measurement, etc.

Customization of frequently used functions

Touch Customization, a customizable touchscreen interface that allows the user to select a layout for each mode, and the users can freely place necessary functions to make up the layout. Users can keep focusing on the patient instead of the system.

One-button access to preset and transducer combinations

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.

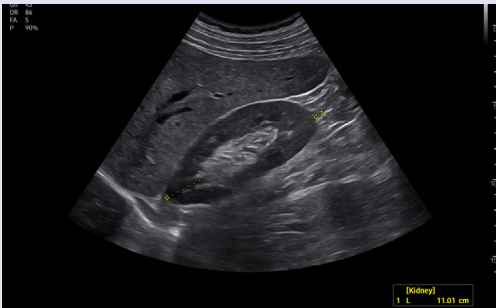
Equipped with AI-powered automation, the R20 significantly enhances workflow speed and clinical efficiency. By minimizing keystrokes and delivering deep insights at the touch of a button, it allows clinicians to spend less time on the system — and more time focused on patient care.

Tailored precision. Automated measurement tool

AbdomenAssist™¹, a feature based on Deep Learning technology, measures the size of the interested organ, thereby reducing user variability and simplifying workflow.

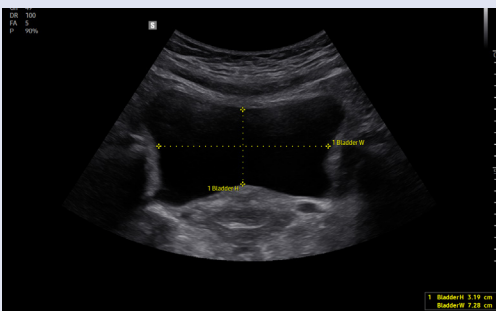
* Target : Kidney, Spleen

* Reduced keystrokes by approximately 33% compared to manual input.



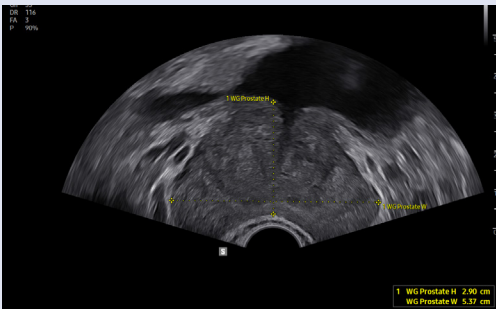
BladderAssist™¹, a feature based on Deep Learning technology, measures the size of the bladder, thereby reducing user variability and simplifying workflow.

* Reduced keystrokes by approximately 50% compared to manual input.



ProstateAssist™¹, a feature based on Deep Learning technology, measures the size of the prostate, thereby reducing user variability and simplifying workflow.

* Reduced keystrokes by approximately 50% compared to manual input.

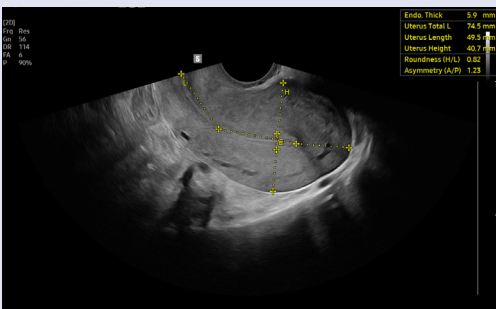


BowelAssist™¹, a feature based on Deep Learning technology, measures the thickness of the bowel in real-time during bowel scanning, thereby reducing user variability and simplifying workflow.

* Reduced keystrokes by approximately 80% compared to manual input.

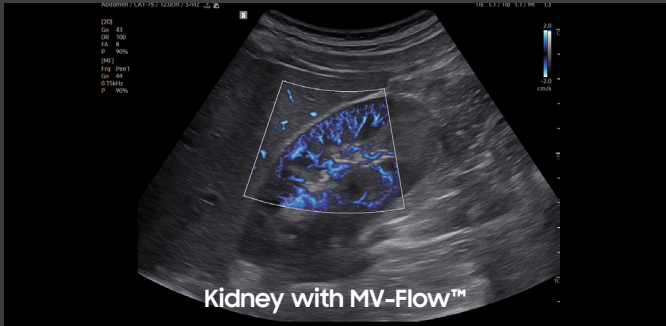
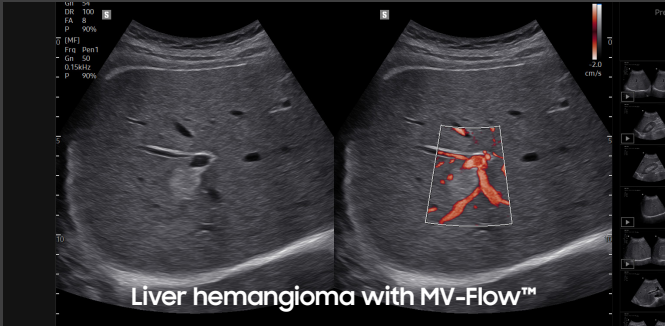


UterineAssist™¹, a feature based on Deep Learning technology, automatically measures the size and shape of the uterus, which helps in finding signs of uterine-related abnormalities, and also reduces scan time.

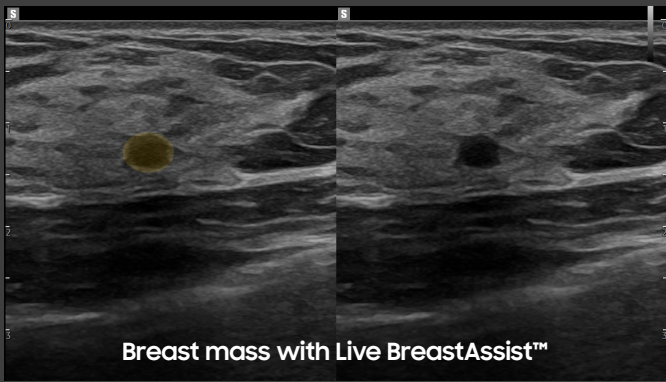
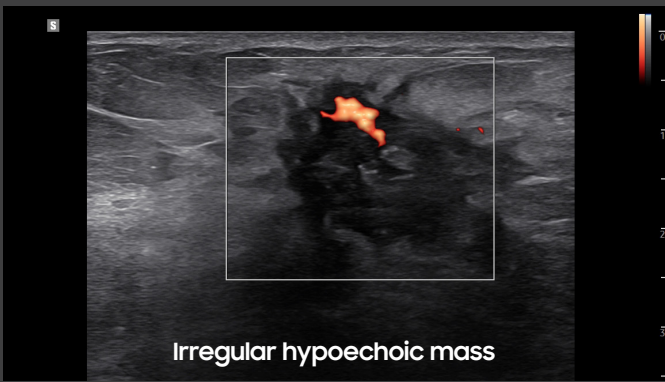


Striking images for confidence

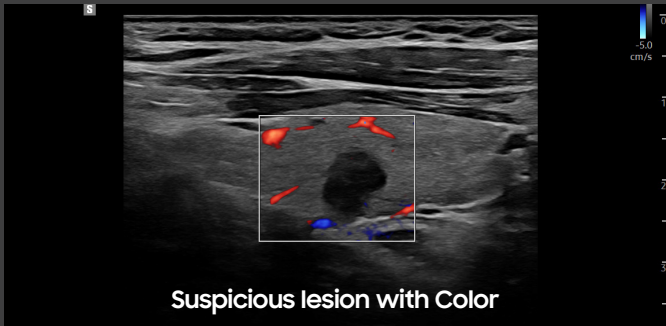
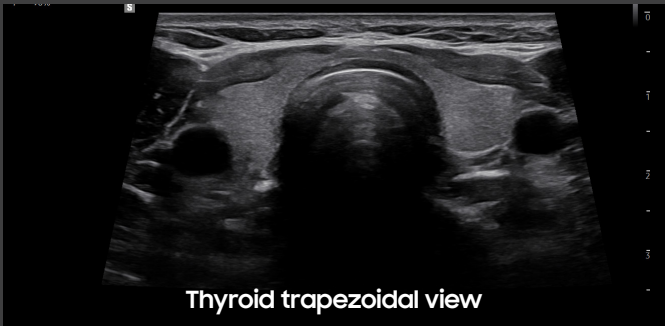
Abdomen



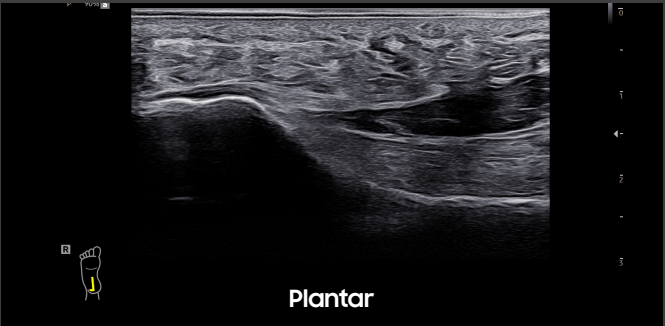
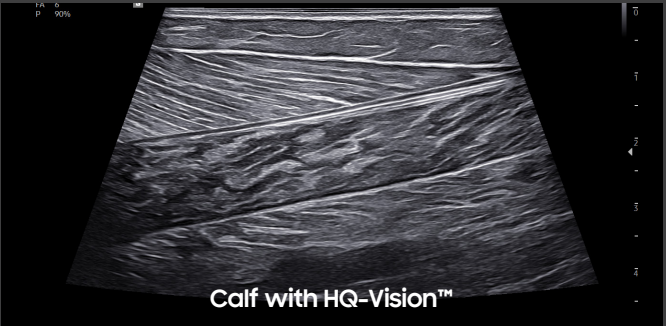
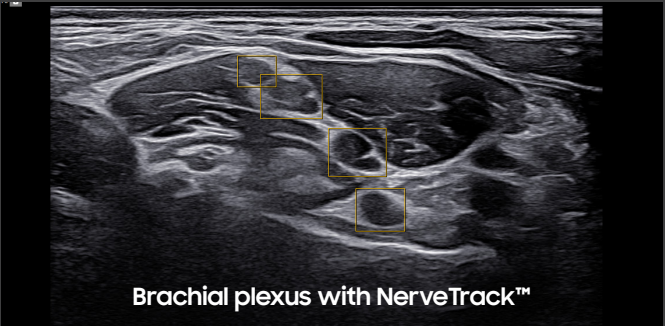
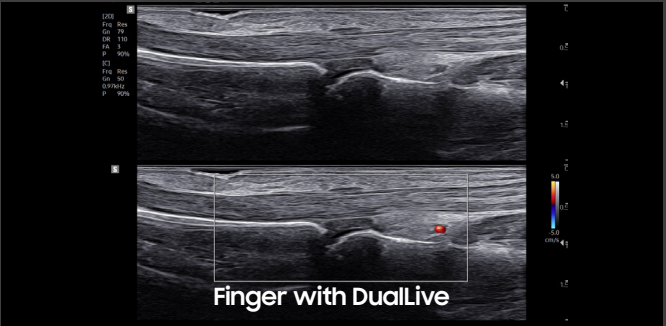
Breast



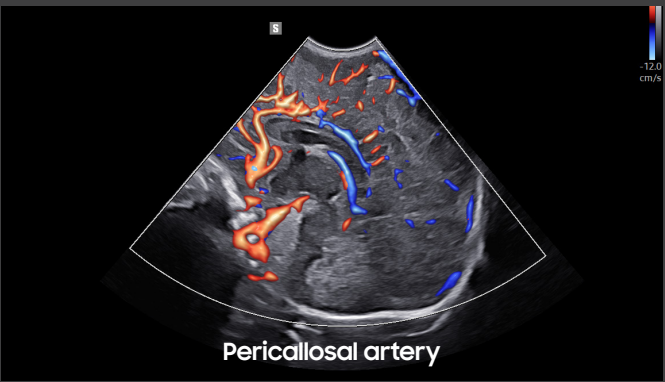
Thyroid



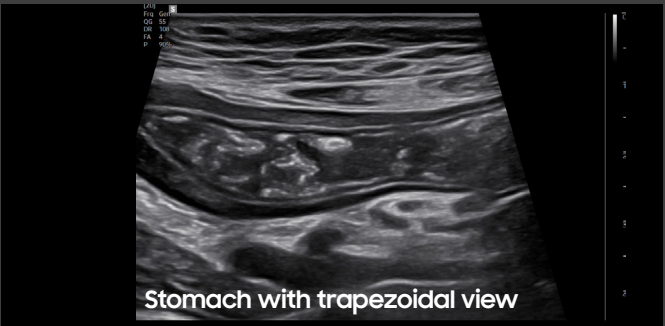
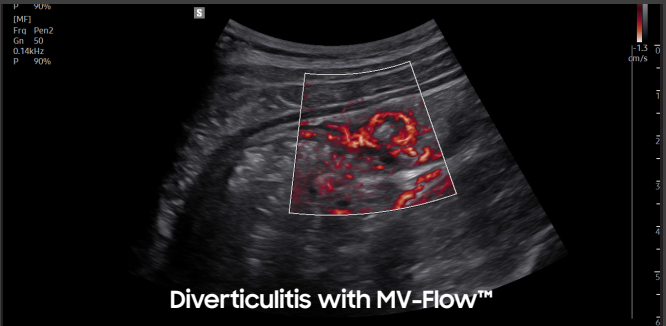
Musculoskeletal



Pediatrics



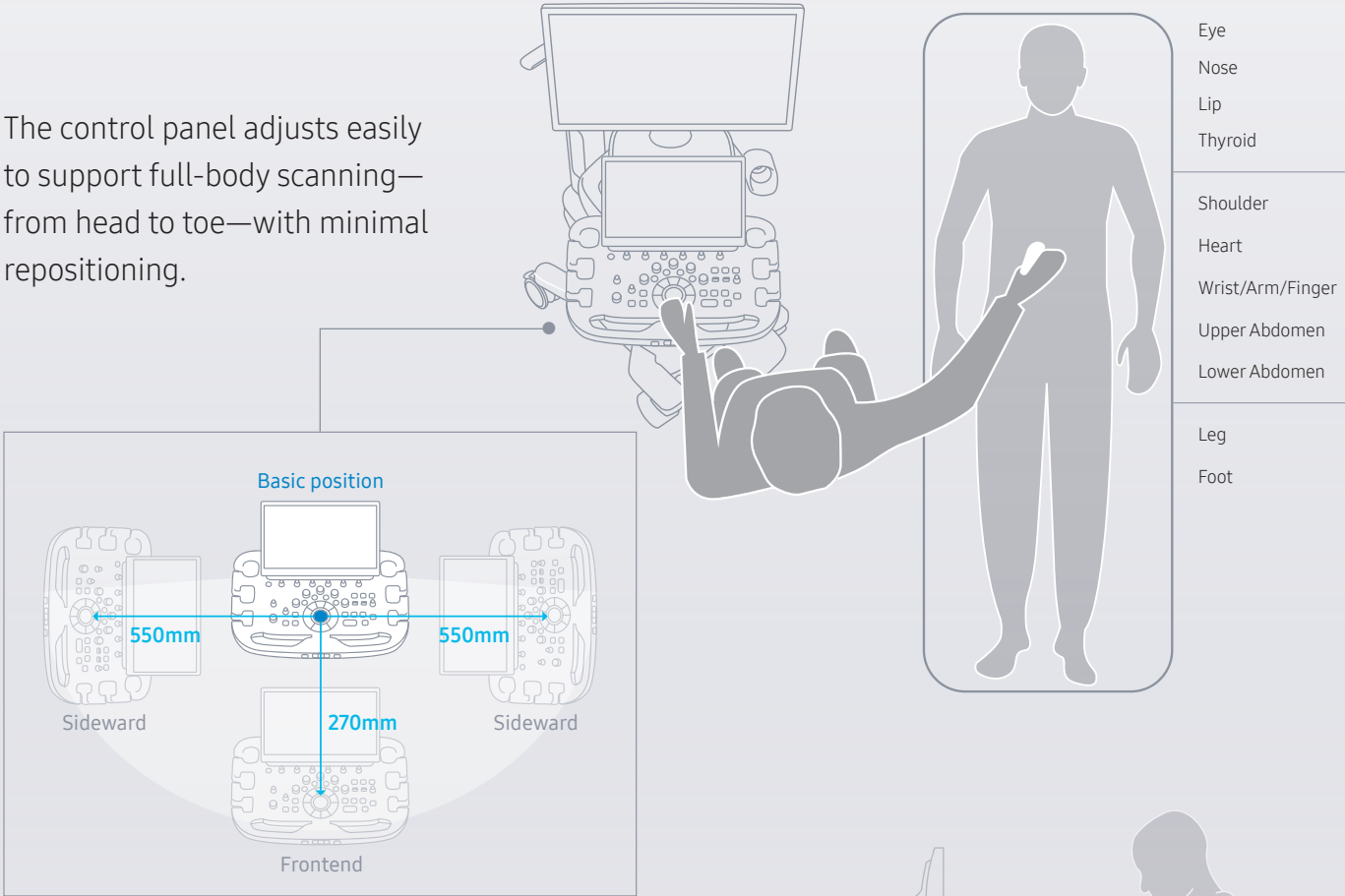
Bowel



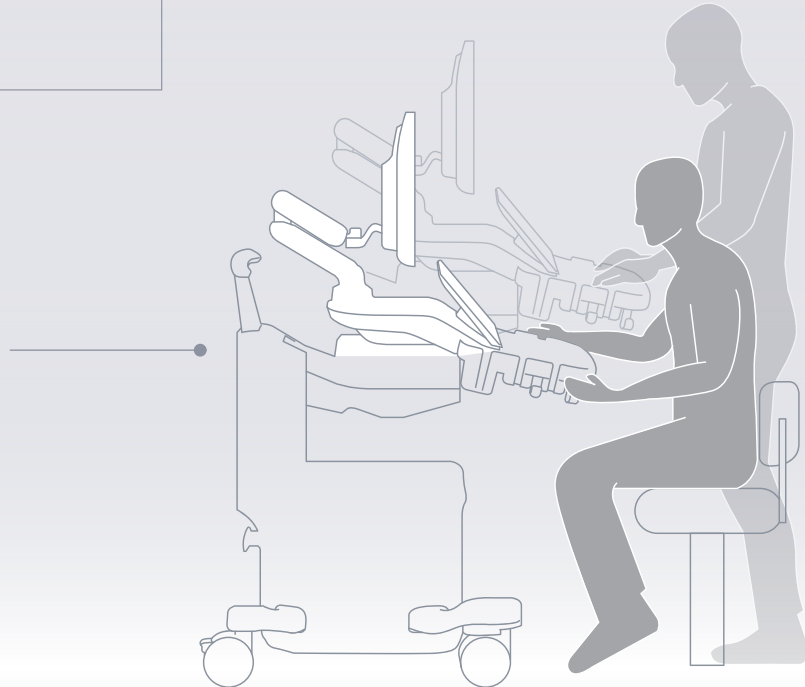
Designed for you, perfected for full-body imaging

Every curve, every control—crafted with clinicians in mind. The R20 combines elegant design with intuitive usability, offering full-body coverage and seamless maneuverability. Because great design isn't just about how it looks, but how effortlessly it works for you.

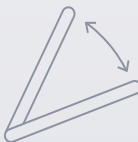
The control panel adjusts easily to support full-body scanning—from head to toe—with minimal repositioning.



Easily adjustable height range enables comfortable ultrasound operation while standing or sitting.



Wider view, true black color, deeper contrast with 27" OLED monitor



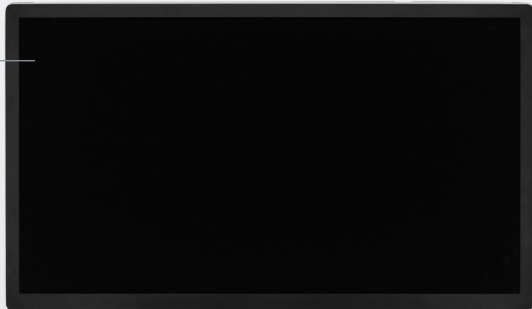
Tilts to your ideal angle while minimizing glare with the 15.6" touchscreen



One-touch system lock/unlock, no need for individual wheel locking



The emotional LED lighting aids transducer mounting in dim settings.



The new gel warmer prevents collisions and can be mounted on either side.



Spacious compartments for trays, printers, and tools



Foot-operated rear caster lock

Broad diagnostic coverage with versatile transducer support

Linear Array Transducers



LM2-18

Abdomen, MSK, OB, Pediatric, Small Parts, Thoracic, Vascular



LA2-14A

Abdomen, MSK, Pediatric, Small Parts, Vascular



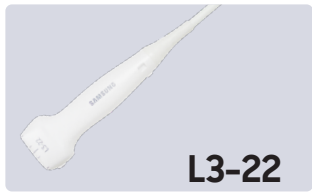
LA2-16S

Abdomen, MSK, Pediatric, Small Parts, Vascular



LA2-9S

Abdomen, MSK, Pediatric, Small Parts, Vascular, OB, Thoracic



L3-22

MSK, Pediatric, Small Parts, Vascular



LA3-22AI

Intraoperative, MSK, Pediatric, Small Parts, Vascular

Curved Array Transducers



CA1-7S

Abdomen, GYN, MSK, OB, Pediatric, Thoracic, Urology, Vascular



CA1-7Sn

Abdomen, GYN, MSK, OB, Pediatric, Thoracic, Urology, Vascular
* Sensor implemented



CA3-10A

Abdomen, GYN, MSK, OB, Pediatric, Thoracic, Urology, Vascular



CA2-13M

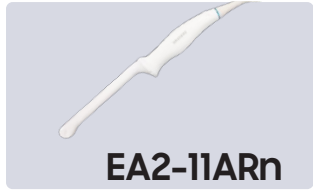
Abdomen, Pediatric, TCD, Vascular

Endocavity Transducers



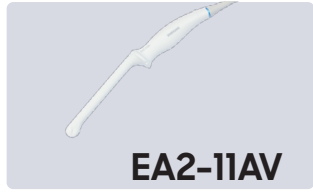
EA2-11AR

GYN, OB, Urology



EA2-11ARn

GYN, OB, Urology
* Sensor implemented



EA2-11AV

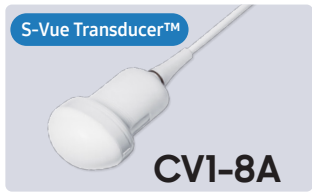
GYN, OB, Urology



miniER7

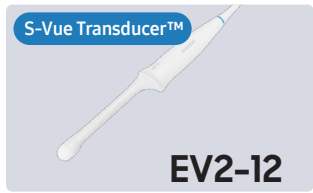
GYN, OB, Urology

Volume Transducers



CV1-8A

Abdomen, GYN, OB, Urology



EV2-12

GYN, OB, Urology

Phased Array Transducer

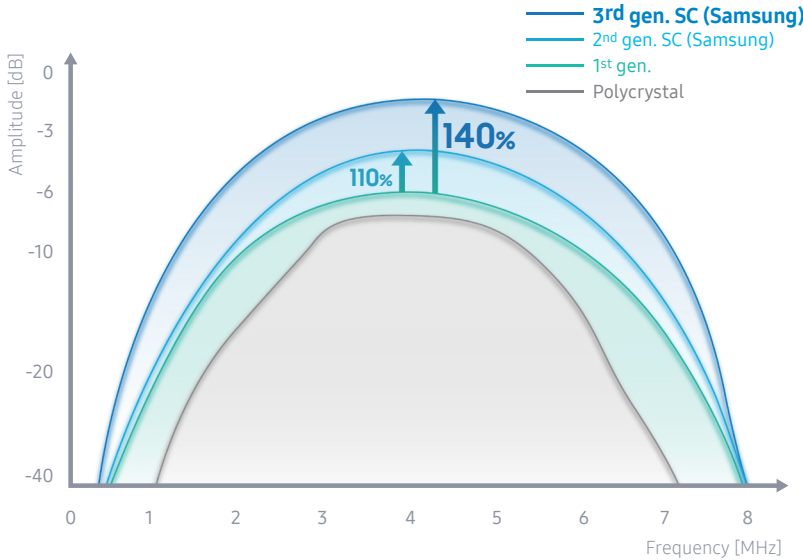


PA1-5A

Abdomen, Cardiac, Pediatric, TCD, Thoracic, Vascular

Applied 3rd generation single crystal transducer²

Deeper penetration
Enhanced spatial resolution

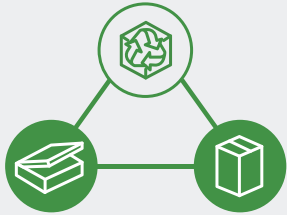


Sustainable by design

50%
Recycled resin
on system
body



**Eco-conscious
paper packaging**



**Energy
saving
features**

- * Real-time power consumption dashboard
- * Auto on/off control & usage alerts
- * Battery life optimization mode

Integrated IT solutions for ultrasound ecosystems

Real-time image sharing solution

SonoSync™ 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.

Centralized management system

S-Hub is a solution for comprehensive ultrasound system management, enhancing the operational efficiency of sonographers, Biomed/service engineers, and hospital administrators. Sonographers can save time by reducing repetitive tasks, engineers no longer require manual data backup one by one, and hospital staff can obtain real-time asset status monitoring via the dashboard.

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

theSUITE Samsung Ultrasound Institute of Technology and Education

Learn without limits!
Explore our diverse ultrasound
training and educational contents
tailored just for you.



Visit theSUITE

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

1. Optional feature which may require additional purchase.
2. The acoustic amplitude may increase by up to 40%, potentially leading to an equivalent 40% improvement in the signal-to-noise (SNR). Additionally, the amplitude has been optimized with consideration for human safety. The 3rd generation single crystal is applied exclusively to the CA2-13M transducer.

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