

**Relentless Innovation**  
for your diagnostic confidence

**SAMSUNG**



**V8**

**Step up confidence**



Product Inquiry



# Unifying performance and intelligence


The V8 ultrasound system combines exquisite imaging quality powered by Crystal Architecture™ with efficient, streamlined examination enabled by Intelligent Assist tools, and re-engineered workflow to fulfill the needs of today's busy clinical environment. The sophisticated, ergonomic design showcases Samsung's careful craftsmanship and that comfort-in-use is a high priority for your product experience. We constantly seek new ways to help professionals obtain reliable answers with greater image clarity, enhanced accuracy, and improved work efficiency.



Exquisite imaging quality for reliability and confidence



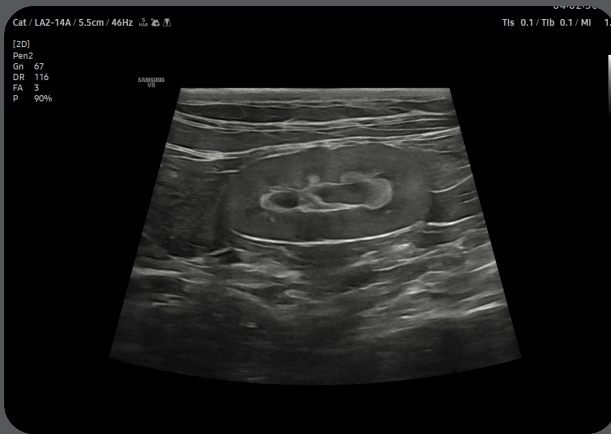
Intelligent Assist tools for efficient examination



Re-engineered workflow for simplified process



# Striking images for confidence



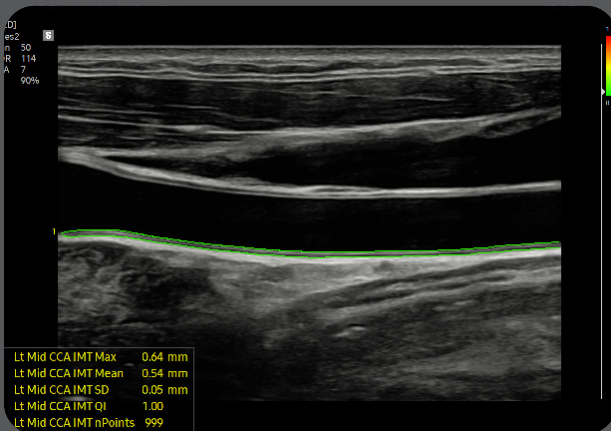
Kidney



Bladder

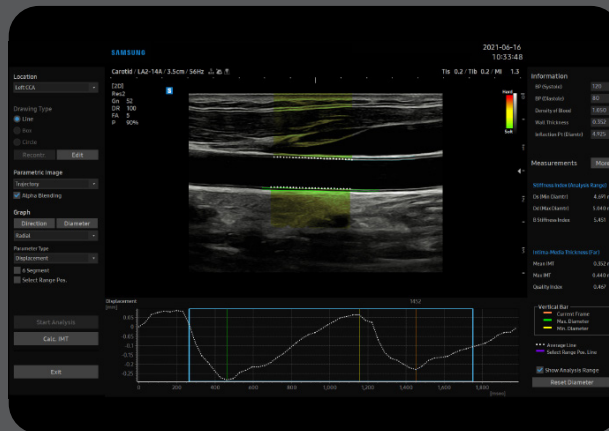


Small intestine

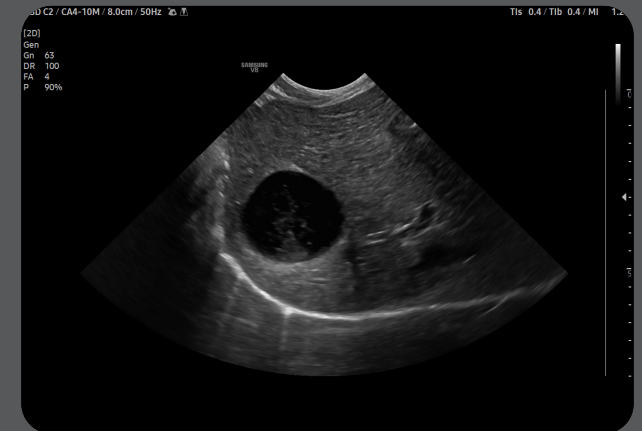


Lt Mid CCA IMT Max 0.64 mm  
 Lt Mid CCA IMT Mean 0.54 mm  
 Lt Mid CCA IMT SD 0.05 mm  
 Lt Mid CCA IMT QI 1.00  
 Lt Mid CCA IMT nPoints 999

AutoIMT+



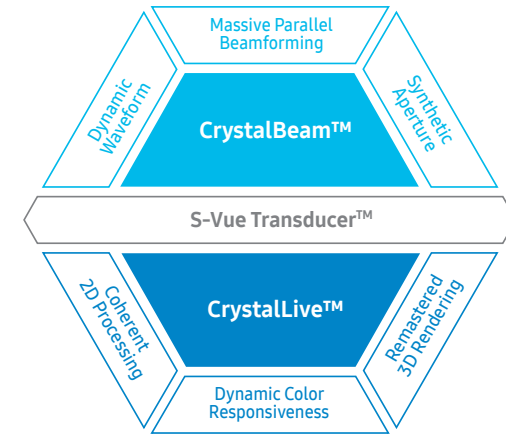
ArterialAnalysis™



Liver

# Exquisite imaging quality for reliability and confidence

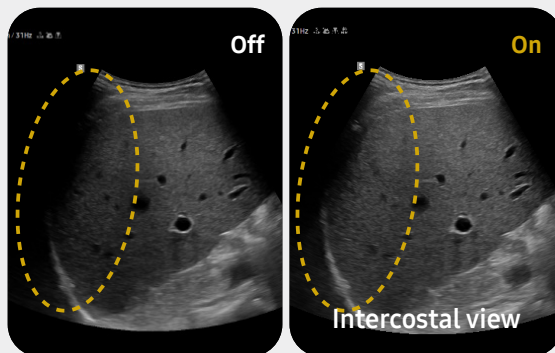
Gain insight into the problem based on exceptional image performance powered by Samsung's core imaging engine, Crystal Architecture™. The premium imaging engine combines the benefits of enhanced 2D image processing and detailed expression of color signal processing.



Crystal Architecture™

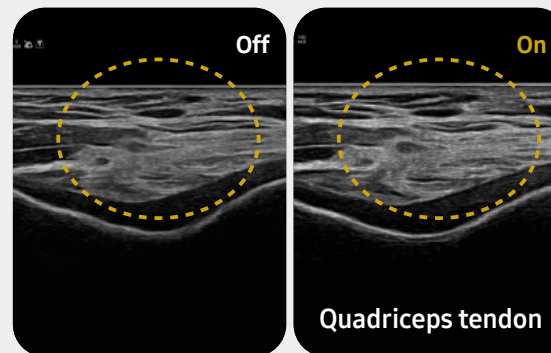
## Enhance hidden structures in shadowed regions

**ShadowHDR™** selectively applies high-frequency and low-frequency of ultrasound to identify shadow areas where attenuation occurs.



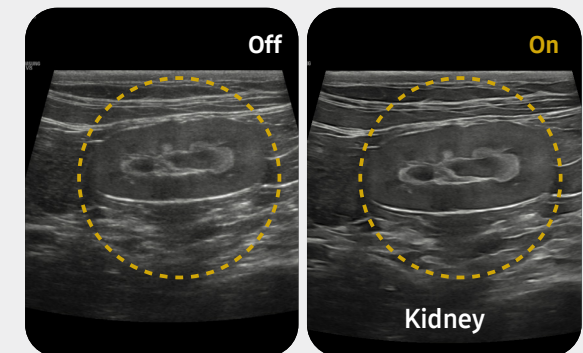
## Clean up blurry areas in the image

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



## Reduce noise to improve 2D image quality

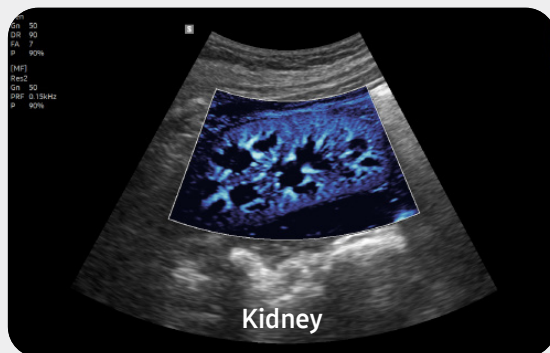
**ClearVision** enhances the edge contrast and creates sharp 2D images for optimal diagnostic performance.





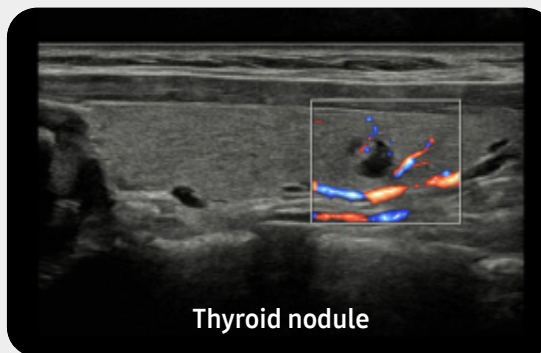
### Visualize slow flow in microvascular structures

MV-Flow™ 1 visualizes microcirculatory and slow blood flow to display the intensity of blood flow in color.



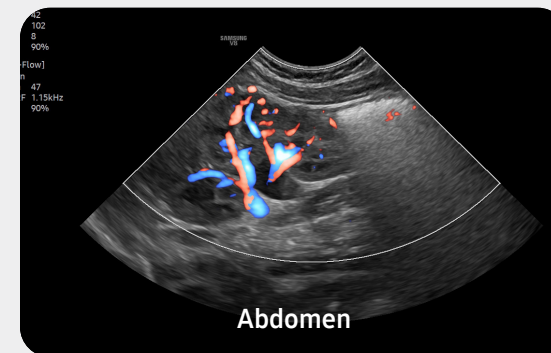
### Show blood flow in vessels in a 3D like display

LumiFlow™ 1 is a function that visualizes blood flow in 3 dimensional-like to help understand the structure of blood flow and small vessels intuitively.



### Examine peripheral vessels with directional power Doppler

S-Flow™, a directional power Doppler imaging technology, can help to detect even the peripheral blood vessels. It enables accurate diagnosis when the blood flow examination is especially difficult.

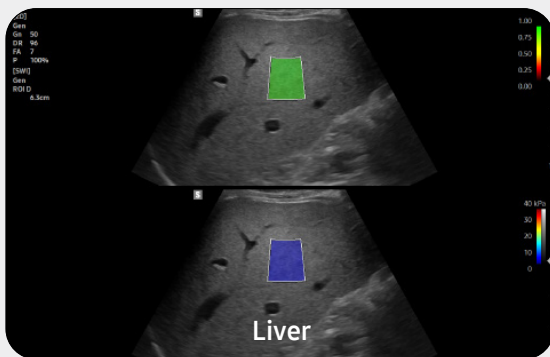


# Intelligent Assist tools for efficient examination

Simplify operation and enhance diagnostic confidence with built-in Intelligent Assist features. V8 supports healthcare professionals with automated features they need to help make decisions. The system is equipped with a range of tools that help accurately diagnose issues and achieve greater throughput. For instance, EzHRI™, TAI™, and TSI™ are advanced abdominal dedicated diagnostic features, that help make accurate clinical assessments by quantifying fatty liver in real time.

## Display and quantify tissue stiffness in a non-invasive method

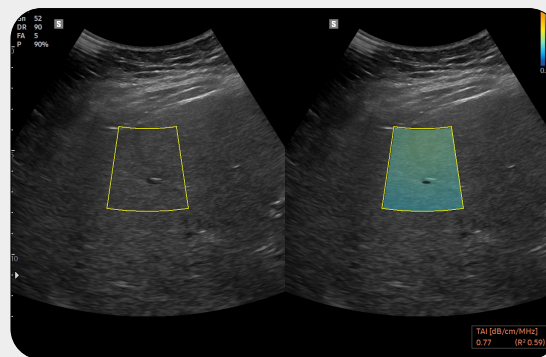
**S-Shearwave Imaging™** <sup>1</sup> allows the non-invasive assessment of stiff tissues in various applications. The color-coded elastogram, quantitative measurements, display options, and user-selectable ROI functions are useful for accurate diagnosis.



## Quantitative measurement of liver fat with ultrasound signal

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

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



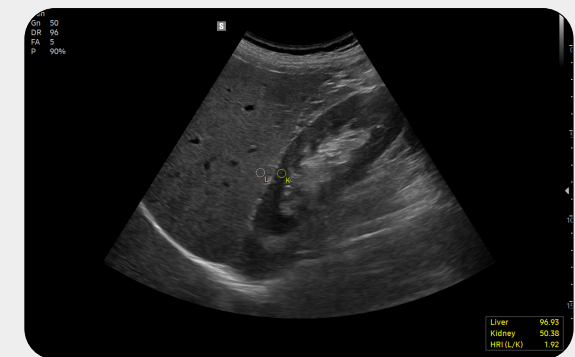
## Perform multi-modality fusion biopsies with high precision

**S-Fusion™** <sup>1</sup> enables simultaneous localization of a lesion using real-time ultrasound with other volumetric imaging modalities, enabling accurate targeting during interventional and other advanced clinical procedures.

## Hepato-renal index with automated ROI recommendation



HRI (Hepato Renal Index) is an index to quantify steatosis of a liver by comparing echogenicity between liver parenchyma and renal cortex. **EzHRI™** places 2 ROIs on the liver parenchyma and renal cortex and provides HRI ratio.



### Quantify wall motion of the left ventricle

**Strain+**<sup>1</sup> is a quantitative tool for measuring global and segmental wall motion of the left ventricle (LV). Three standard LV views and a Bull's Eye are displayed in a quad screen for easy assessment of the LV function.

### Contrast Enhanced Ultrasound

**CEUS+**<sup>1</sup> is a contrast enhancement imaging technology that utilizes the characteristics of ultrasound contrast agents. The microbubble contrast agent injected into the body through the vein or alike is subjected to perform nonlinear resonance due to stimulation of ultrasound energy. In addition to the nonlinear signal generated by this method, the ultrasound contrast image is implemented by using the harmonic signal and thus utilized for the diagnosis based on the contrast characteristics over time.

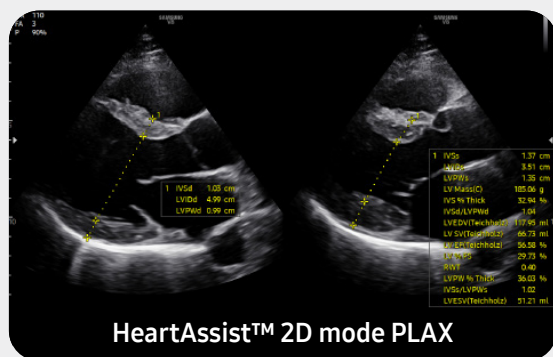
### Display in extended field-of-view

**Panoramic+**<sup>1</sup> 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.

### An automated reporting tool for heart diagnosis



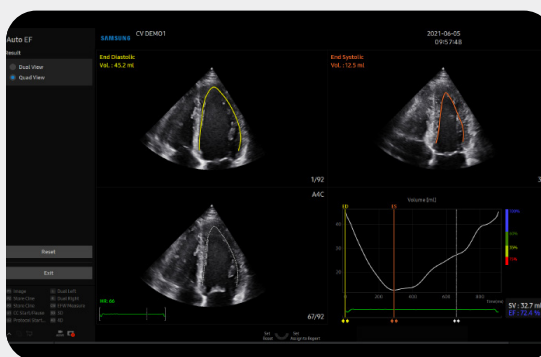
**HeartAssist™**<sup>1</sup>, a feature based on Deep Learning technology, provides automatic classification of ultrasound image into measurement views required for heart diagnosis and provides measurement results.



HeartAssist™ 2D mode PLAX

### Measure Ejection Fraction of the left ventricle

**AutoEF**<sup>1</sup> is a feature which conveniently measures and quantifies Ejection Fraction. The volume at the end-systolic and end-diastolic points of the left ventricle is calculated, to assist in quick and efficient assessment of the heart function.



### Detect functional changes of cardiovascular vessels

**ArterialAnalysis™**<sup>1</sup> detects functional changes of vessels, providing measurement values such as the stiffness, intima-media thickness, and pulse wave velocity of the common carotid artery.

### Display needle tip clearly

**NeedleMate+™**<sup>1</sup> delineates needle location when performing interventions such as nerve blocks. Improved accuracy and efficiency in procedure are possible with beam steering added to NeedleMate+™.

**Other features** ElastoScan+™<sup>1</sup>, StressEcho<sup>1</sup>, AutoIMT+<sup>1</sup>

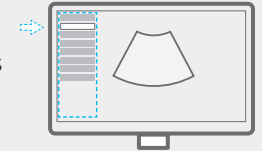


# Re-engineered workflow and design for a simplified process

Ease your day by streamlining workflow with V8's convenient features that reduce multiple tasks into just a few steps and keystrokes. How we display the scan data more easily and precisely is an important focus for the user experience. The ergonomic design makes effective use of the user's working environment to assure utility.

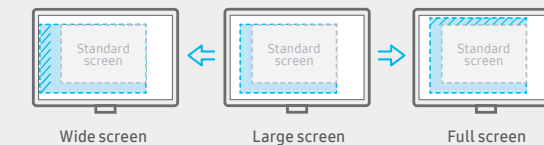
## Build predefined protocols to ensure every step is followed every time

EzExam+™<sup>1</sup> 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.



## Select transducer and preset combinations in one click

QuickPreset allows the user to select the most common transducer and preset combinations in one click.

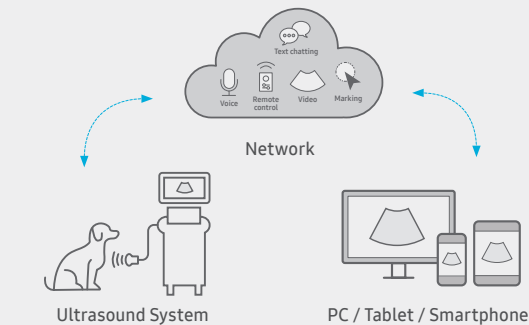


## See images in expanded view

The ultrasound examination can be performed while viewing the images and cines that are expanded at various ratios according to the user preference.

## Compare previous and current exam in a side-by-side display

EzCompare™ automatically matches the image settings, annotations, and bodymarkers from the prior study.



## Real-time image sharing, discussion, and remote control of ultrasound system

SonoSync™<sup>1,2</sup> is available in PC and smartphone, etc. as a real-time image share solution that allows communication for care guide and training between doctors and sonographers. In addition, voice chatting, text chatting and real-time marking functions are provided for better communication; and the MultiVue function is included that allows monitoring multiple ultrasound images on a single screen.



Learn more

## Customize frequently used functions on the touchscreen

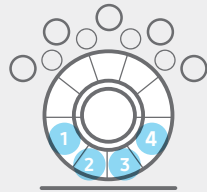
TouchEdit, a customizable touchscreen, allows the user to move frequently used functions to the first page.





### Assign functions to the buttons near the trackball

The buttons around the trackball can be customized for easy selection of commonly used functions.



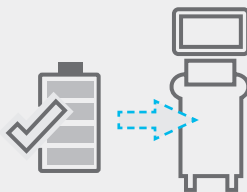
### Save image data directly to USB memory

User can directly export image/cine with a USB device.



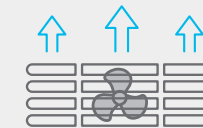
### Continue working even when AC power is temporarily unavailable

BatteryAssist™ provides battery power to the system, enabling users to perform scans when AC power is temporarily unavailable. It also allows the system to be moved to another location without having to turn the power off and then back on.



### 14 inch tilting touch screen

Samsung's tilting touch screen can be adjusted to accommodate user's viewing preferences in any scanning environment.



### Effective cooling system

An effective airflow system cools down the ultrasound system by constantly letting heat out and reducing fan noise.

### Recycled Material

Eco-conscious resin is applied to the air vent exterior cover.

# Comprehensive selection of transducers

## Curved array transducers



### CA1-7S \*

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



### CA3-10A

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



### CA4-10M \*

Abdomen, Cardiac, Pediatric, Vascular, Vet Cardiac, Vet Abdomen



### PA1-5A \*

Cardiac, Vascular, Abdomen, Pediatric, TCD, Thoracic, Vet Cardiac, Vet Abdomen



### PA3-8B

Cardiac, Pediatric, Abdomen, Vascular, TCD, Vet Cardiac, Vet Abdomen



### PA4-12B

Cardiac, Pediatric, Abdomen, Vascular, TCD, Vet Cardiac, Vet Abdomen

## Phased array transducers

## Linear array transducers



### LA2-14A

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



### LA4-18A \*

Small Parts, Vascular, Abdomen, Pediatric, Musculoskeletal, Vet Abdomen



### LA2-9S \*

Small Parts, Vascular, Abdomen, Pediatric, Musculoskeletal



### LA2-9A

Small Parts, Vascular, Abdomen, Pediatric, Musculoskeletal



### LA3-22AI

Musculoskeletal, Intraoperative

### \* Ergonomic transducers

The new transducer supports natural grip by moving the max-width point to a more forward position and also increasing the length of the grip to allow balanced weight distribution.



Cleaning and disinfection guide

## 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 data and ultimately degrade the quality of care.



Learn more



Intrusion prevention



Access control



Data protection



### 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, 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.

\* Some of the ultrasound images in this catalog are acquired with the human body.

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

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

1. Optional feature which may require additional purchase.

2. SonoSync™ is an image sharing solution.

### Eco Packaging

Eco-conscious recycled paper is included in the product packaging.



Learn more

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