Relentless Innovation
for your diagnostic confidence

V8

Inspirational Cardiovascular Care

SAMSUNG

Scan code or visit
samsunghealthcare.com
to learn more

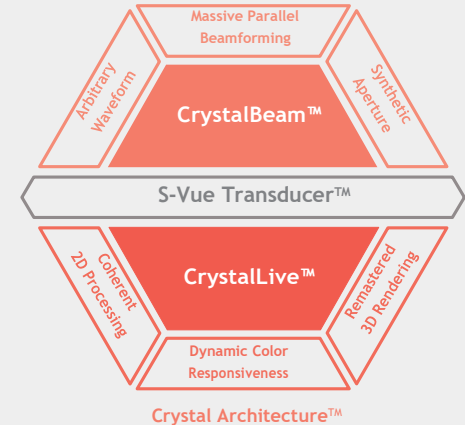# Combining performance and intelligence

Samsung's powerful cardiovascular ultrasound system combines exquisite image quality with a streamlined user interface enabled by the Intelligent Assist tools. Samsung is continuously seeking new ways to elevate diagnostic confidence with greater image clarity, enhanced accuracy, and improved work efficiency.

Extraordinary image quality delivers diagnostic confidence

Gain insight into complex issues with exceptional image quality and resolution by Samsung's core imaging engine, Crystal Architecture™. The proprietary technology combines enhanced 2D image processing and detailed color signal processing to optimize and refine the image.

Crystal Architecture™ empowers healthcare professionals with diagnostic confidence on daily examinations helping to focus on individual patients and not excessive manipulation of the system.

Massive Parallel Beamforming

Arbitrary Waveform

CrystalBeam™

Synthetic Aperture

S-Vue Transducer™

Coherent 2D Processing

CrystalLive™

Remastered 3D Rendering

Dynamic Color Responsiveness

Crystal Architecture™

2D PLAX with Harmonic
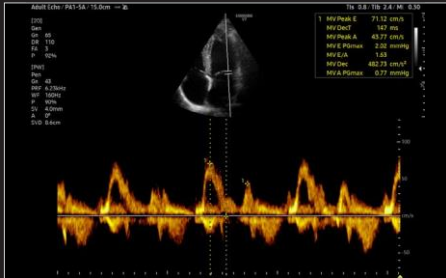

2D PLAX zoom mode with ClearVision

Apical 3 chamber color with LumiFlow™

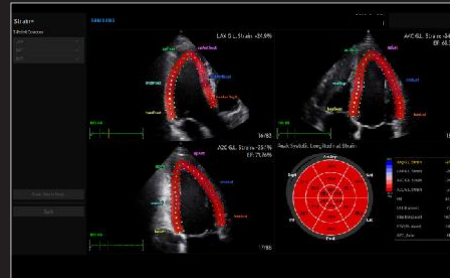# Enriched diagnostic features with accuracy and precision

Samsung ultrasound system for cardiovascular is equipped with a range of tools and semi-automated features that guide the users to an accurate diagnosis with enhanced diagnostic confidence. The intelligent features create a simplified user interface and help improve daily examination experiences.
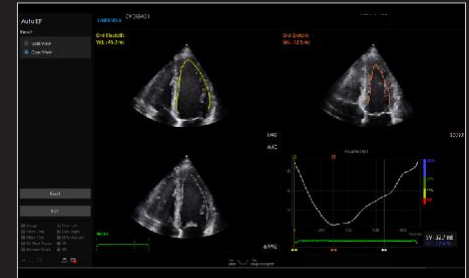
A semi-automated reporting tool for heart diagnosis

HeartAssist™, while based on AI technology and through the measure button classifies views for heart diagnosis, selects measurement items, and provides results.

Quantify wall motion of the left ventricle

Strain+ 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 and quick assessment of the LV function.
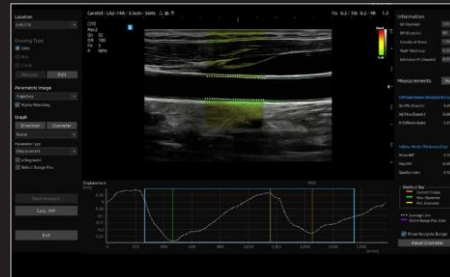

Measure Ejection Fraction of the left ventricle conveniently

AutoEF is a feature which measures and quantifies Ejection Fraction. By selecting the three points of the left ventricle, the volume at the end-systolic and end-diastolic points of the left ventricle is calculated, to assist in quick and efficient assessment.
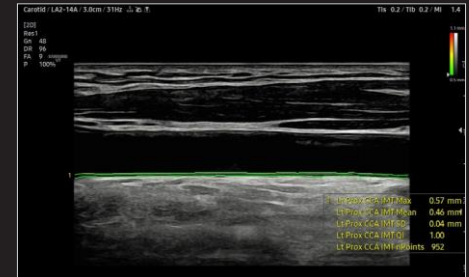

Score and report wall motion

The **StressEcho** package includes wall motion scoring and reporting. It includes exercise StressEcho, pharmacologic StressEcho, diastolic StressEcho and free programmable StressEcho.

Detect functional changes of cardiovascular vessels

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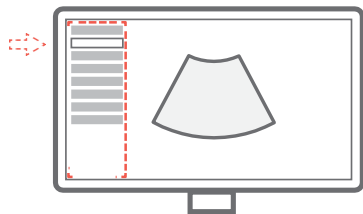

Measure IMT (intima-media thickness) in one click

AutoIMT+ is a screening tool to analyze a patient's potential risk of cardiovascular disease. It allows easy intima-media thickness measurement of both the anterior and posterior wall of the common carotid.
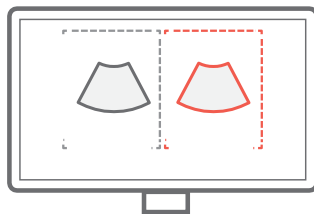
Re-engineered workflow and design for a simplified process

We believe that a truly great system offers customer-centric working conditions. The streamlined workflow supports your daily procedures by reducing keystrokes and by combining multiple actions into one. Users have the option of customizing their diagnostic settings based on personalized protocol, resulting in a more simplified exam process and faster workflow.

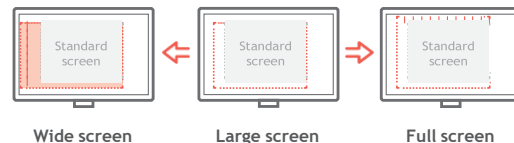Wide screen   Large screen   Full screen

Build predefined protocols for streamlined process

EzExam+™ assigns protocols for examinations that are regularly performed in the hospital in order to reduce the number of steps that you have to go through.
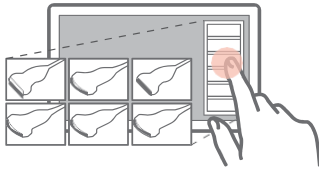
Compare previous and current exam in a side-by-side display

EzCompare™ automatically matches the image settings, annotations, and bodymarkers from the prior study.
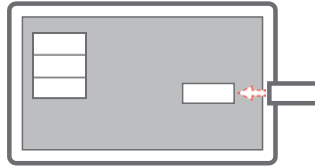
See images in expanded view

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.
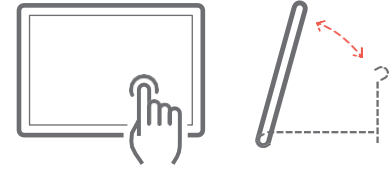
Select transducer and preset combinations in one click

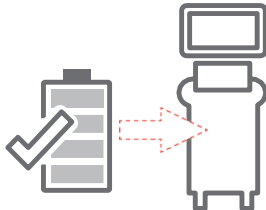**QuickPreset** allows the user to select the most common transducer and preset combinations in one click.

Customize frequently used functions on the touchscreen

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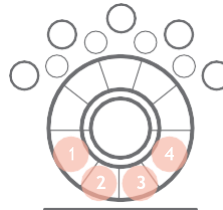

Tilt touchscreen to accommodate user preference

Tilting Touch Screen can be adjusted to accommodate user's viewing preferences in any scanning environment.
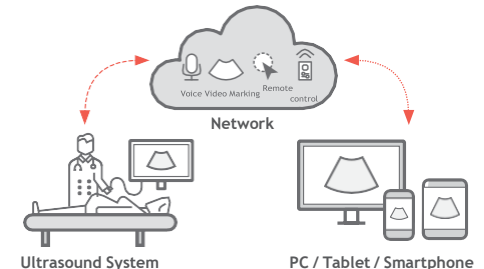

Use the system when AC power is temporarily unavailable

BatteryAssist™ provides battery power to the system, enabling users to perform scans when AC power is temporarily unavailable.

Assign functions to the buttons near the trackball

Contextual Button, the buttons around the trackball can be customized for easy selection of commonly used functions.

Voice Video Marking Remote control

Network

Ultrasound System   PC / Tablet / Smartphone

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

SonoSync™ is a real-time ultrasound image sharing solution that allows voice communication and remote controllability for effective collaboration between physicians and sonographers at different locations.

* The availability may vary by product and country.

V8
Step Up Confidence

The V8 ultrasound system combines exquisite image quality with a streamlined user interface enabled by Intelligent Assist tools. The re-engineered workflow fulfills the needs of today's busy clinical environment. Samsung is continuously seeking new ways to elevate diagnostic confidence with greater image clarity, enhanced accuracy, and improved work efficiency.

Redefined Imaging Technologies
Powered by Crystal Architecture™ (CrystalBeam™, CrystalLive™)

Sophisticated 2D Image Processing & Detailed Color Expression
ClearVision, S-Flow™, LumiFlow™ [1], MV-Flow™ [1]

Enriched Diagnostic Features
HeartAssist™ [1], Strain+ [1], StressEcho [1], AutoEF [1], ArterialAnalysis™ [1], AutoIMT+ [1]

Re-engineered Workflow and Enhanced Customization
EzExam+ [1], TouchEdit, QuickPreset, Expanded View, EzCompare™, Full Screen, Sonosync™ [1, 2],

Comfort Design
14-inch Tilting Touchscreen, 23.8-inch LED Monitor, Contextual Button, Direct Save to USB, BatteryAssist™[1], Cooling System, Adjustable Control Panel, Transducer Cable Hook, Gel Warmer

Dedicated transducers for cardiovascular

Phased array transducers

PA1-5A

PA3-8B

PA4-12B

TEE transducer

MMPT3-7

CW transducers

CW6.0

DP2B

Linear array transducers

LA2-14A

LA2-9A

LA2-9S

Secure Your Care
Samsung Healthcare Cybersecurity

Bringing peace of mind to your hospital and patients

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

Tools for protecting against cyber threats from external attacks

* Security tools
  (Anti-virus & Firewall)
* Secured operating system

Access Control

Strengthened surveillance for tracking the access of patient information

* Account management
* Audit trail

Data Protection

Encryption functions for safeguarding data whether at-rest or in-transit

* Data encryption
* Transmission security

Samsung Healthcare Cybersecurity

Intrusion Prevention

Access Control

Integrity   Confidentiality   Availability

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.

SAMSUNG MEDISON CO., LTD.

CE 0123