



About GE Healthcare

GE Healthcare is a leading global medical technology and digital solutions innovator. GE Healthcare enables clinicians to make faster, more informed decisions through intelligent devices, data analytics, applications and services, supported by its Edison intelligence platform. With over 100 years of healthcare industry experience and around 50,000 employees globally, the company operates at the center of an ecosystem working toward precision health, digitizing healthcare, helping drive productivity and improve outcomes for patients, providers, health systems and researchers around the world.

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1. Forecasting the Future of Cardiovascular Disease in the United State, AHA Policy Statement, 2011, source: CIR.0b013e31820a55f5
2. Source: Healthcare Infrastructure and Procedural Volume for Ultrasound Imaging, Frost & Sullivan, 2018. Approx. 108.12 million echo exams are performed annually; Calculation based on 26% total global prevalence of CVD cases (422 million) undergoing echo exam; extrapolated from US study indicating roughly 26% of total prevalent CVD cases underwent echo exams percentage value validated from reports. https://www.prb.org/wp-content/uploads/2015/12/2015-world-population-data-sheet_eng.pdf
3. Kurt M, Shaikh K, Peterson L, et al. Impact on contrast echocardiography on evaluation of ventricular function & clinical management in a large prospective cohort. J Am Coll Cardiol. 2009; 53(9):802-810
4. Work Related Musculoskeletal Disorders in Sonography, Society Of Diagnostic Medical Sonography, 2018, Susan Murphey, BS, RDMS, RDCS, CECD <https://www.sdms.org/docs/default-source/Resources/work-related-musculoskeletal-disorders-in-sonography-white-paper.pdf?sfvrsn=8>
5. The Role of AI in Streamlining Echocardiography Quantification White Paper, Kristin McLeod - JB80498XX
6. Based on results of time and motion study conducted by GE "JB49055XX - Cardiac Auto Doppler"; study results indicated time savings related productivity increase up to ~8 on an annual basis for a facility per sonographer
7. European Association of Echocardiography recommendations for standardization of performance, digital storage and reporting of echocardiographic studies (Eur Journal of Echo 2008 - Evangelista, Badano, Monaghan, Zamorano, Lancellotti).
8. Recommendations for Quantification of Doppler Echocardiography: A Report From the Doppler Quantification Task Force of the Nomenclature and Standards Committee of the American Society of Echocardiography (JASE 2002)
9. Centricity Cardio Workflow v7 Intelligent Reporting out-of-the-box configuration compared to 2017 IAC guidelines excluding doppler. CCW Intelligent Reporting Outcome - JB74831XX
10. EchoPAC Suite is a marketing name for EchoPAC Plug-in
11. With the DICOM SR support, Measures & Analysis (M&A) for an exam can be sent at the end of the exam or when exported from local archive. The destination can be either a server on the network (Storage SCP) or a removable media (DICOM Media) depending on the DICOM dataflow selected. Custom measurements supported only for Adult Echo (TID5200) and Pediatric Heart (TID5220).
12. <https://www.ncbi.nlm.nih.gov/pubmed/27689562>
13. Data Breaches Will Cost Healthcare \$4B in 2019, Threats Outpace Tech, healthitsecurity, source: t.ly/xrAA
14. 5 Tips for Controlling Costs in Hospitals and Biomed Shops, source: t.ly/l9n7
15. Errors in Sonography, DOI: 10.1007/978-88-470-2339-0_8. https://www.researchgate.net/publication/279616130_Errors_in_Sonography
16. e. a. M. Mårtensson, «High incidence of defective ultrasound transducers in use in routine clinical practice», European Journal of Echocardiography, vol. 10, no. 3, pp. 389-394, 2009. <https://academic.oup.com/ehjcmimaging/article/10/3/389/2396618> <https://probehunter.com/wp-content/uploads/FULLTEXT01.pdf>
17. A multicentre survey of the condition of ultrasound probes, Ultrasound. 2016 Nov, Published online 2016 Aug 1. doi: 10.1177/1742271X16662301. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5098704/>
18. GE internal data

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DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.

Ultra Edition is not a product name, it refers to the 2020 release of the Vivid portfolio

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JB80431XX



POWERED BY AI ELEVATED BY YOU

Vivid™ S60N Ultra Edition



Vivid

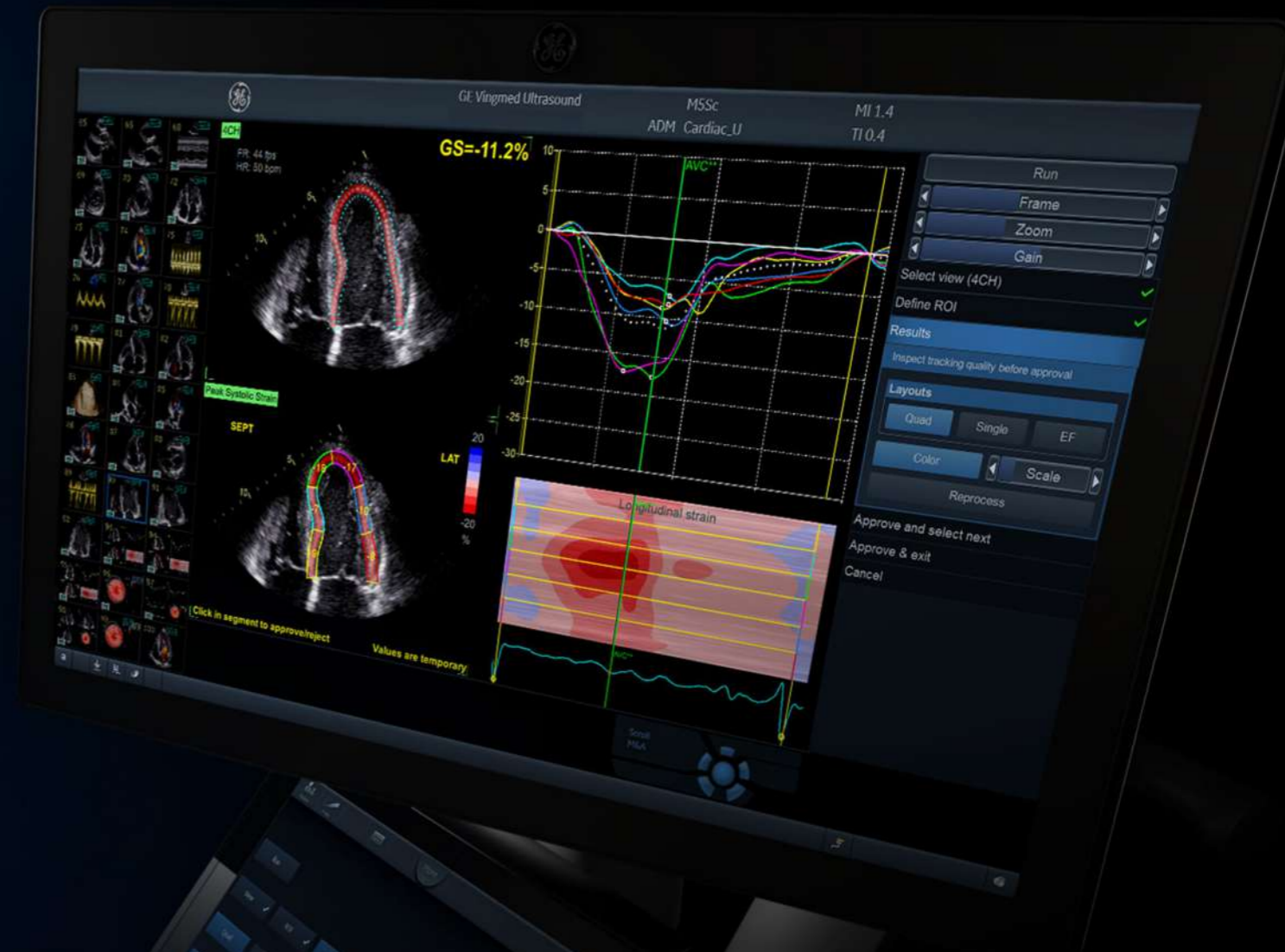
gehealthcare.com/vivid

**Your time is precious.
Save it.**

DETECTABILITY⁵
98%

AI AFI LV with AI View Recognition

Fully automatic recognition of the apical imaging views and measurements of GLS and segmental longitudinal Strain for LV.



POWERED BY AI

Improve diagnostic speed and accuracy

Vivid S60N Ultra Edition introduces the latest AI-based technology to help reduce tedious tasks and improve workflow efficiency. Diagnose more confidently and accelerate exams via automated (AI-driven) Cardiac Doppler and 2D LV measurements.

The results are impressive. Exam time is reduced, and operator fatigue minimized with up to 80% less clicks to get 2D measurements, and inter-observer variability diminished.⁵

Discover the many innovations brought by the Vivid Ultra Edition, and more importantly, how these can contribute to make clinical practice - Elevated by You.

- Ultra Fast.
- Ultra Precise.
- Ultra Efficient.

AI Cardiac Auto Doppler with AI

**REDUCED TIME
PER MEASUREMENT**

**UP TO
93%**

Fewer Keystrokes⁶

**LOWER INTER
OPERATOR VARIABILITY**

**REDUCE
VARIABILITY**

~3x

Standardized exams with
greater reproducibility⁶

**ACCELERATED
WORKFLOW**



Productivity improvement

CLINICAL EXCELLENCE for the Echo Lab

POWERED BY AI ELEVATED BY YOU

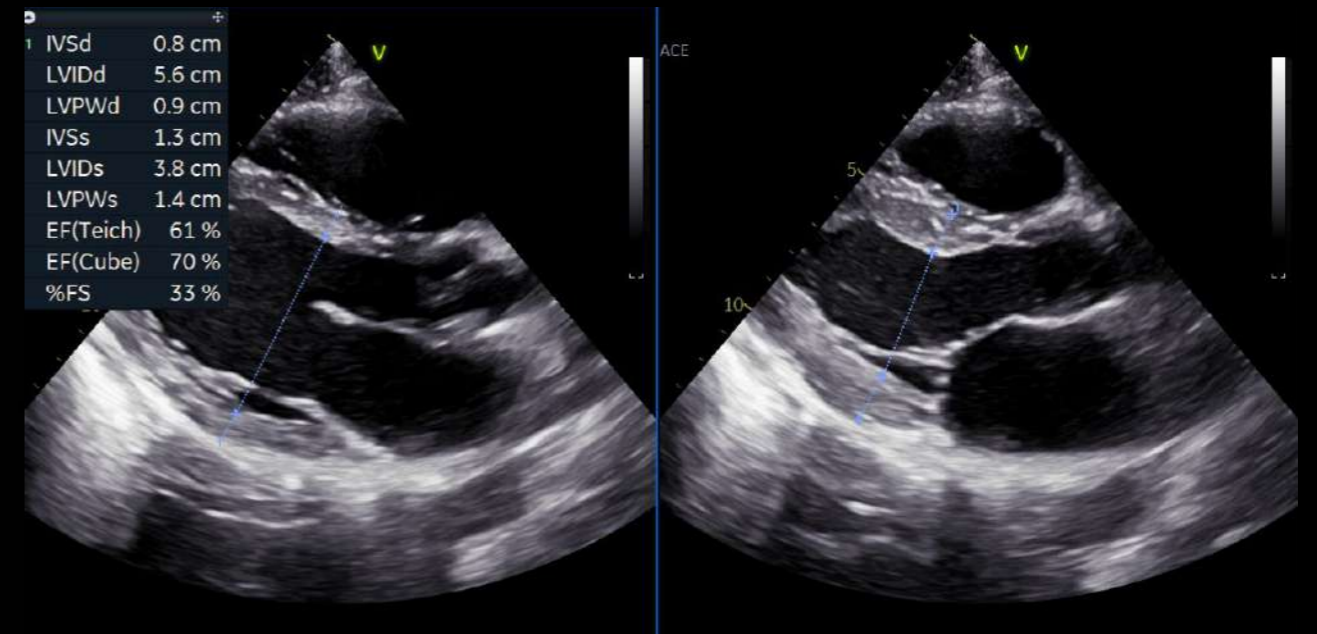
At GE Healthcare we strive to empower you by reducing wasted time and effort. We aim to remove tedious tasks and help make every moment count for your patients – seeing problems clearly and quickly, performing procedures with great precision... and providing quality of care for all.



LESS CLICKS, UP TO⁵
-80%

AI AI Auto Measure 2D

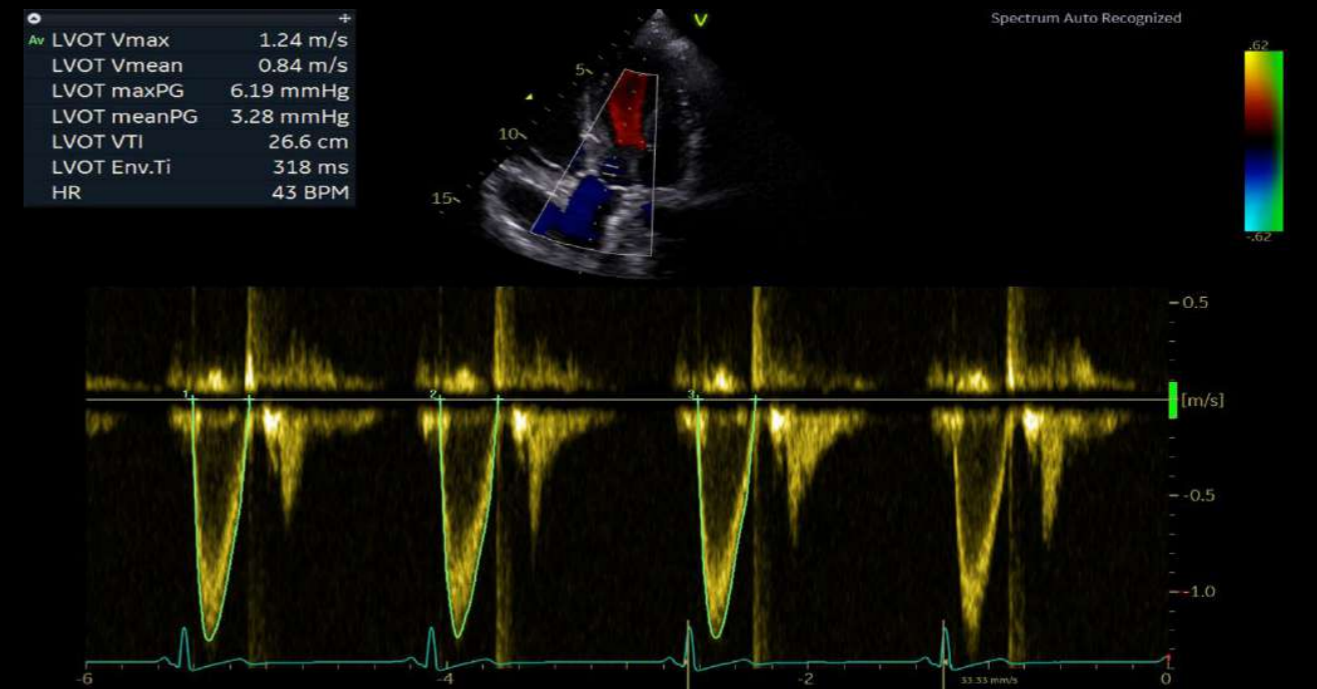
With the power of AI, the manual caliper measurements can be completed with 3 clicks: **Freeze - Measure - Auto**. A full set of reproducible measurements will instantly appear on the screen.



ACCURACY⁵
98%

AI AI Auto Measure Spectrum Recognition

With the power of AI, a wide range of Doppler measurements can be completed with 2 clicks: **Freeze - Measure**. A Doppler trace and full set of associated measurements will instantly appear on the screen.





CLINICAL EXCELLENCE

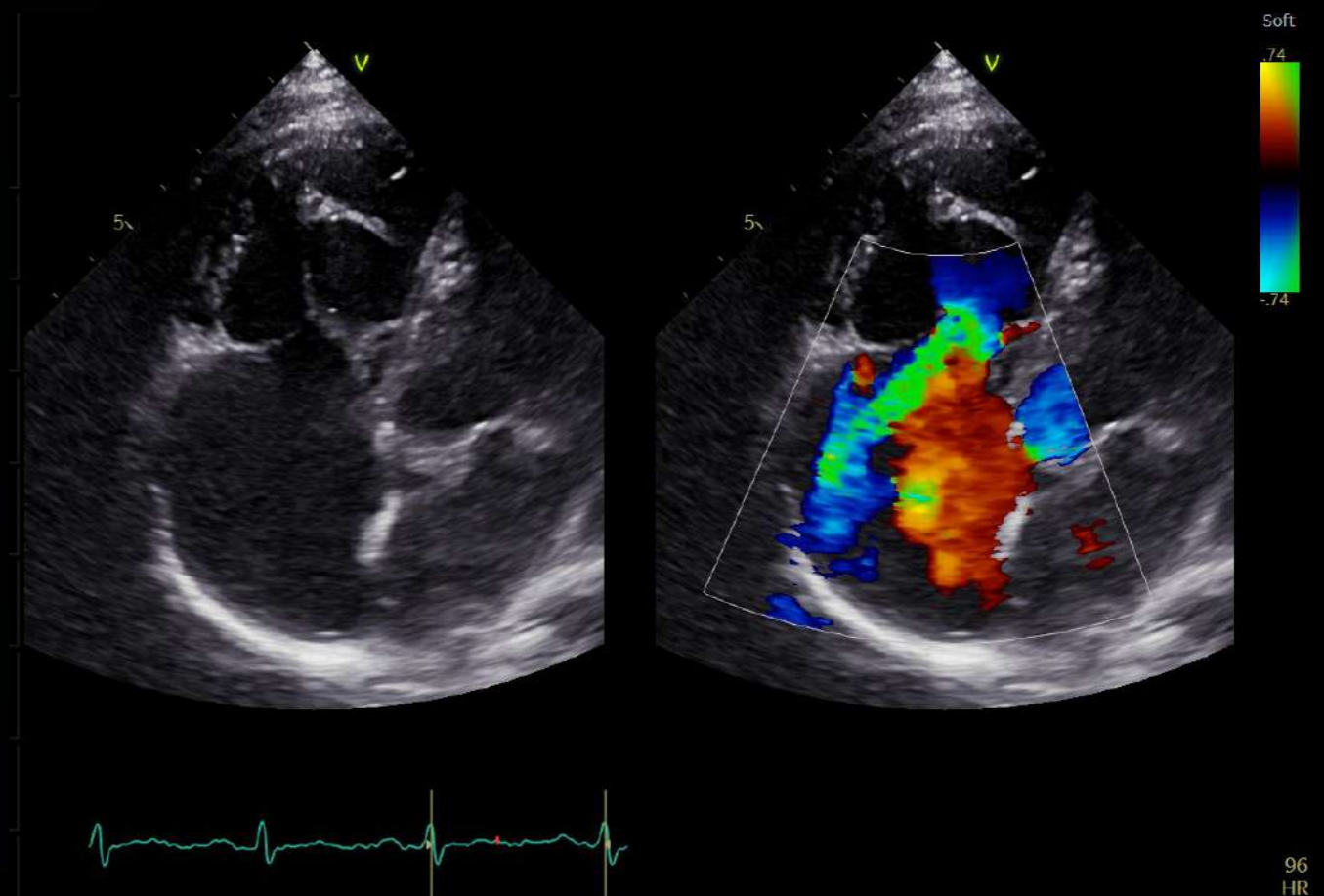
for Pediatrics

The smallest cardiac patients can pose the biggest care challenges with difficult to diagnose, severe conditions.

That's why GE Healthcare designed the high-end Vivid S60N Ultra Edition with the extraordinary processing power of cSound to help you evaluate and navigate the complexities of pediatric hearts with speed, clarity and confidence.

Pediatric imaging

Visualize small anatomies with speed, clarity and confidence thanks to Vivid S60N Ultra Edition's superb high-resolution imaging and dedicated pediatric probes.



CLINICAL EXCELLENCE

beyond Cardiology

The demand for multi-purpose, cost efficient ultrasound systems with uncompromised image quality is growing. Your Vivid S60N Ultra Edition will exceed your expectations across a wide range of applications.

While Vivid S60N Ultra Edition has been designed to address your needs for cardiac imaging, it proves very versatile as well, capable of providing you with superbe images thanks to cSound technology, and diagnostic capabilities for a wide range of applications beyond the heart.

Vivid S60N Ultra Edition's efficient workflow, wide probe range and quantification tools ensure the confidence you need for speedy and accurate diagnosis also under challenging conditions.

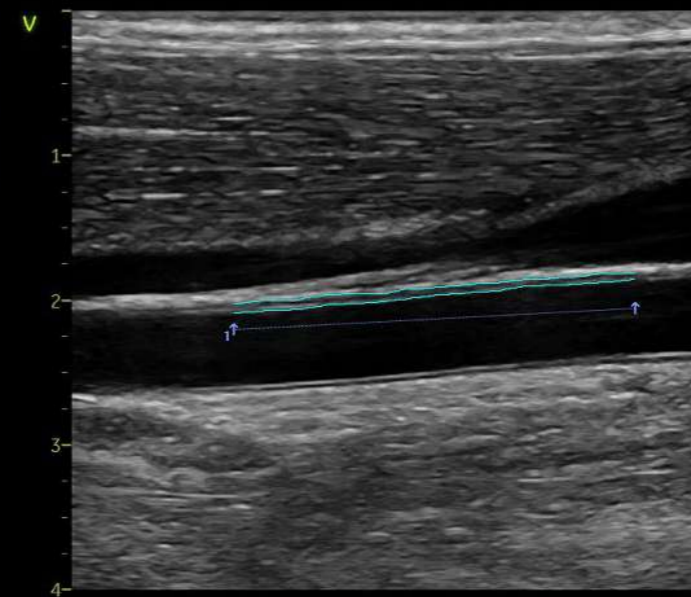
Lightweight and slim, the Vivid S60N Ultra Edition is easy to maneuver. This facilitates your movements as you walk in the corridors from one department to another, and if need be, gives access to scanning at patient bedside.

Accurate diagnostics and precise measurements are achievable with premium image quality, dedicated presets and tools on your Vivid system.

Vascular quantification

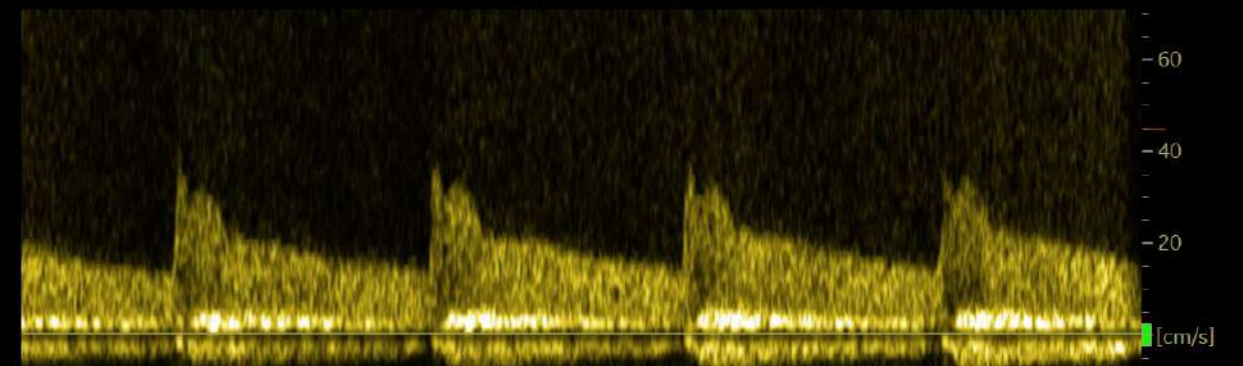
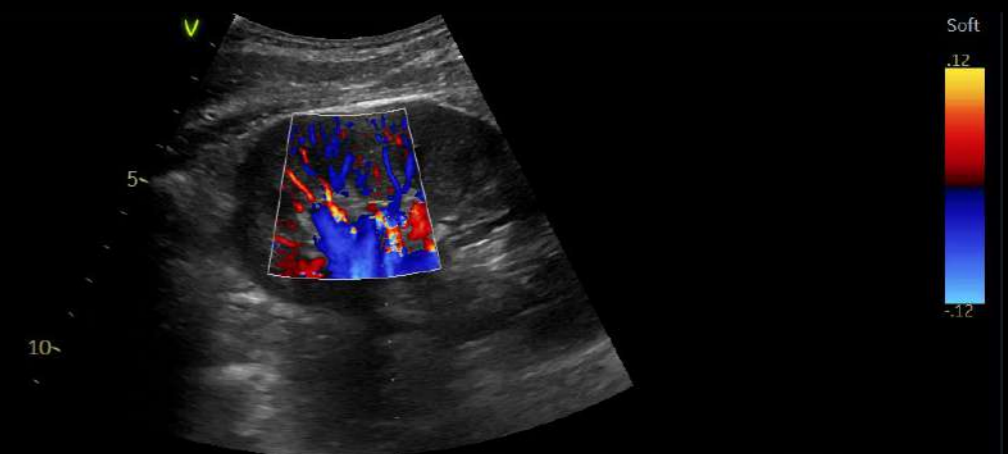
Develop fast and complete quantitative assessment of vascular anatomies, such as the Intima Media Thickness, with dedicated vascular measurement tools.

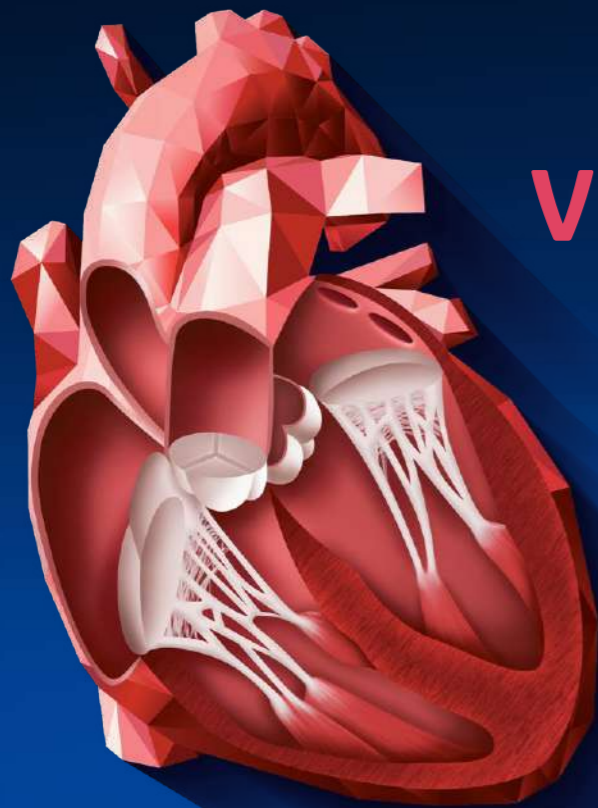
d	0.12 cm
1 IMT A Avg	0.59 mm
IMT A Max	0.76 mm
IMT A Min	0.40 mm
IMT A SD	0.08 mm
IMT A Pts	694



Abdomen diagnosis

Visualize tissues and flow patterns with greater details thanks to Vivid S60N Ultra Edition's high-resolution imaging.





VIVID HEART APPLICATIONS

A wide range of clinical applications for use in Core Echo Lab, Interventional and Pediatrics.



FLOW QUANTIFICATION

Ultra Edition

Cardiac Auto Doppler

AI

AI Auto Measure Spectrum Recognition

AI

VALVES AND CHAMBERS QUANTIFICATION

Ultra Edition

AI Auto Measure 2D

AI

Auto EF

AI

AFI FUNCTIONAL IMAGING

Ultra Edition

AFI LV with AI View Recognition

AI

AFI RV

AFI LA

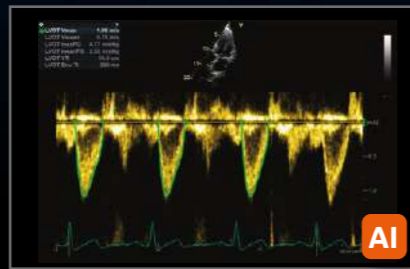


VIVID HEART APPLICATIONS

FLOW QUANTIFICATION

Your time is precious. Save it.

New in Ultra Edition

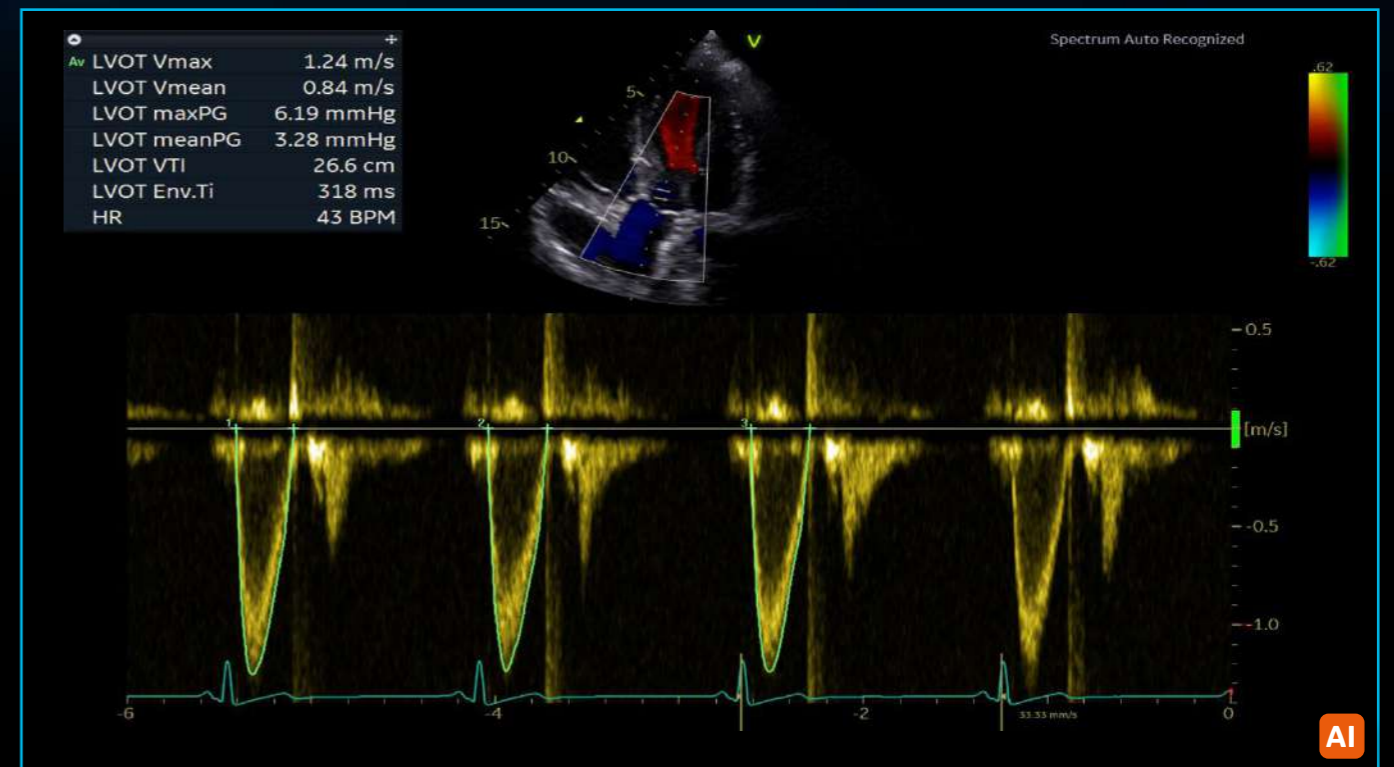


Cardiac Auto Doppler

Semi-automatic Cardiac Doppler measurements.

Benefits:

- Enhances reproducibility of follow-up studies when used in automated mode⁶
- Offers Doppler measurement in multiple cardiac cycles as recommended by guidelines for irregular heart rhythms^{7,8}
- Supports less experienced users with advanced automation



Ultra Edition

AI Auto Measure - Spectrum Recognition

Semi-automatic selection of appropriate spectral Doppler measurement tool.

Benefits:

- Enables fewer manual interactions by automatically opening the appropriate measurement tool⁵
- Works seamlessly with Cardiac Auto Doppler
- Enhances reproducibility of follow-up studies when used in automated mode⁵
- Supports less experienced users with advanced automation



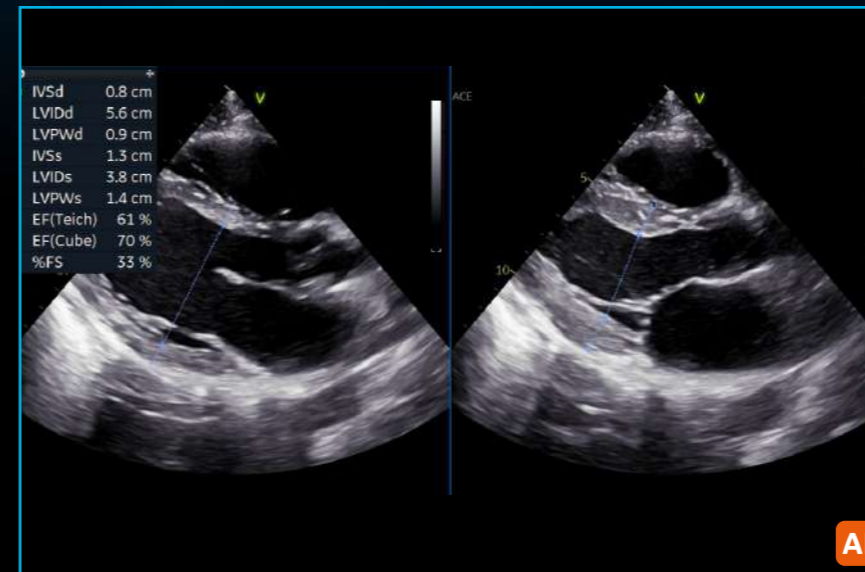
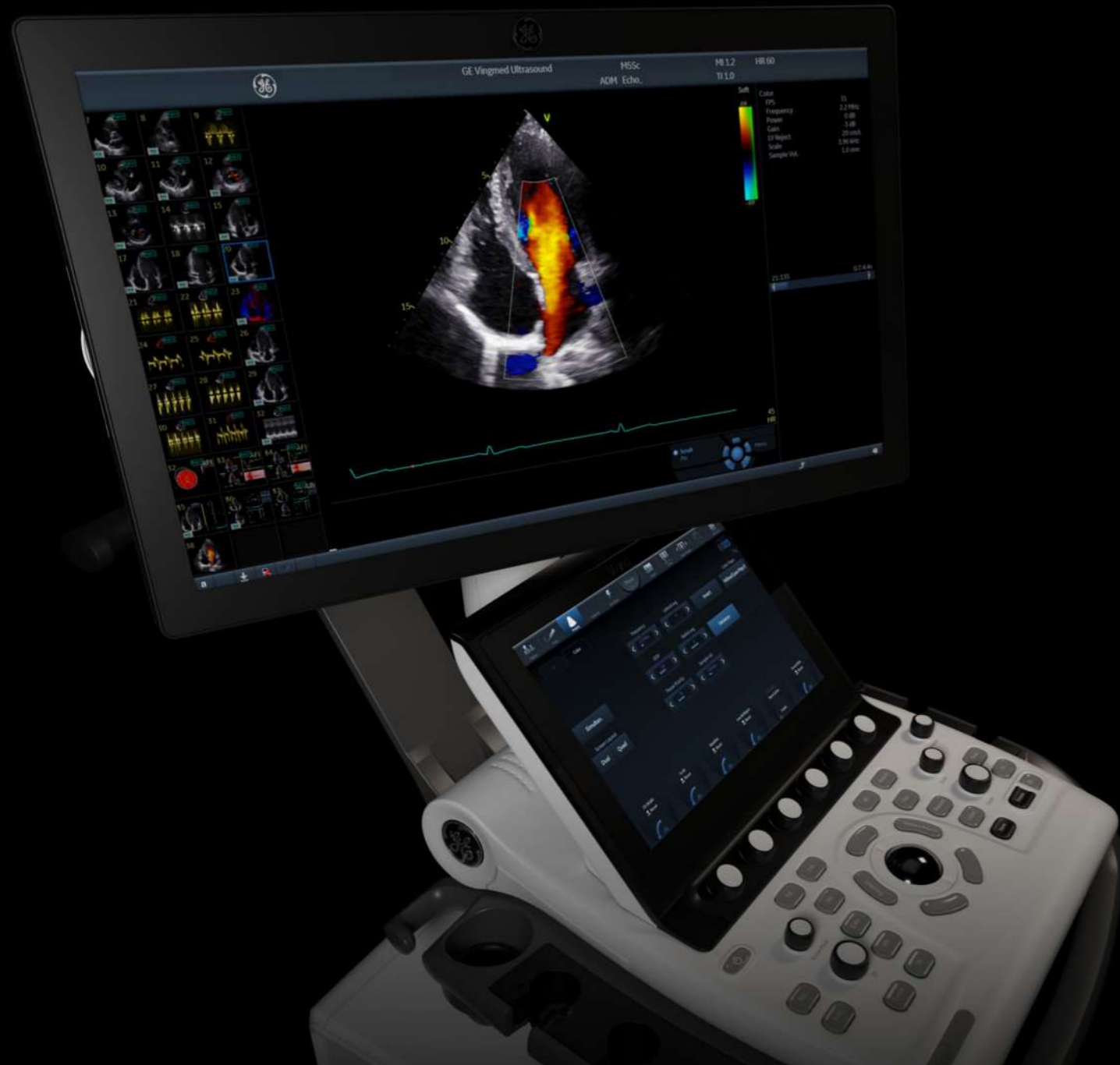


VIVID HEART APPLICATIONS

VALVES AND CHAMBERS QUANTIFICATION

Precision at the heart of quantification.

New in Ultra Edition



IVSd	0.8 cm
LVIDd	5.6 cm
LVPWd	0.9 cm
IVSs	1.3 cm
LVIDs	3.8 cm
LVPWs	1.4 cm
EF(Teich)	61 %
EF(Cube)	70 %
%FS	33 %

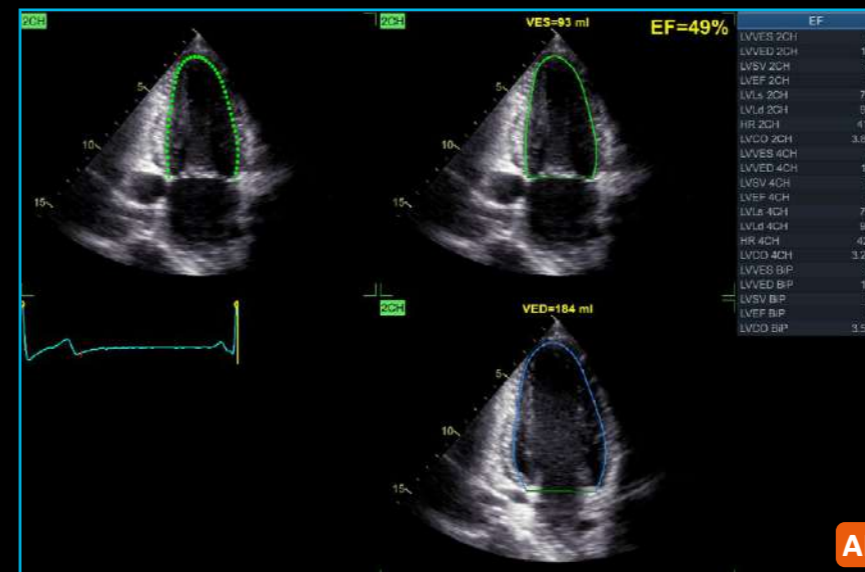
Ultra Edition

AI Auto Measure 2D

Semi-automated LV dimension measurements (2D calipers) in the parasternal long axis view, reducing manual interactions.

Benefits:

- Achieves fast measurements of left ventricle dimensions:
 - Up to 80% less clicks⁵
 - No need to scroll to look for ED and ES frames
 - Reduce manual workflow during analysis of cardiac images
- Improves reliability and repeatability of measurements – potentially increasing reproducibility for follow-up studies



Ultra Edition

Auto EF

Powered by AI-based View Recognition, Auto EF provides semi-automated quantification of left ventricular volumes and ejection fraction.

Benefits:

- Achieves fast measurements of ejection fraction
- DICOM support. Assessment of the left ventricle ejection fraction also on data sets acquired on other vendors' systems