POWERED BY AI
ELEVATED BY YOU

Vivid™ *iq*
Ultra Edition

Vivid

gehealthcare.com/vivid

90%

of sonographers experience symptoms of Work Related Musculoskeletal Disorders (WRMSD)[1]

$**120**+

billion yearly direct and indirect costs for employers[1]

WORKLOAD IS HIGH.

WHILE ENERGY AND DETERMINATION PERSIST.

Demand for cardiovascular ultrasound exams is high and will continue to increase, with a mix of routine, follow-up and complex cases.

Using advanced clinical capabilities traditionally required extra effort and expertise - often resulting in delays and increased workload.

We strive to maximize efficiency with a system that helps you see more, easily achieve accurate measurements and minimize errors.

By 2030,
40.5%

of the US population is projected to have some form of Cardiovascular Disease (CVD)[2]

~**108**m

annual echo exams performed globally[3]

10-**15**%

of echo exams result in sub-optimal images[4]

Vivid *iq*
Ultra Edition

Powered By **Edison**

You've got places to go.

This sleek, ultra portable system enables you to take exceptional 2D and 4D image quality where you need it. Also on-board are advanced echo quantification tools and automated workflow to streamline scanning. The Vivid iq Ultra Edition is your perfect companion around the hospital, the medical offices or into the community.

Great things do come in small packages.

Extreme Productivity

Intuitive and as easy-to-use as your personal devices, the updated user interface on the Vivid iq Ultra Edition helps make scanning straightforward and fast. Tools that harness the power of AI help reduce exam times and also reduce up to 80% of keystrokes. These reductions not only save time, but help diminish fatigue and inter-observer variability. Clean up time is also minimized due to the sealed operating panel which helps you quickly move onto your next exam.

Best-in-Class Ergonomic Design

The improved ergonomic design is based on extensive user feedback and validation. The combination of the full touch screen control with new trackpad swipe and click gestures allow you to maintain support for your hand as you rest on a new ergonomic wrist rest. Scanning in comfort allows you to focus your attention on the image area.

Additional ergonomic features for your comfort include an adjustable monitor to customize viewing and typing angles, and a height-adjustable cart for comfortable scanning whether seated or standing.

Clinical Versatility

Standard, Premium, 4D, and **Point of Care** versions are available, offering from basic 2D echo imaging to advanced 2D and 4D capabilities for quantifying heart and valve function, as well as ICE imaging and integrated connectivity for EP Lab. At the same time, diverse imaging presets and quantification tools for vascular and lung assessments are included, as well as a wide range of additional applications and presets.

Ultra Portability and Flexibility

Designed to go places, the Vivid iq Ultra Edition is lightweight and has up to 4 hours of battery scan time on the cart.[5]

Even on the go, images can be processed anytime with the GE Healthcare Raw Data technology format. Once your scan is complete, share images quickly and safely between operators and readers with Wi-Fi connectivity and the Streaming Server feature.

15.6" ultra-high-resolution, wide format, color screen

Multi-touch LCD technology allowing double-click, pinch-to-zoom, and swipe to adjust and browse

Ergonomic transport push handle

Multi-probe box (optional) with 3 RS-probe ports and one DLP-probe port to support 6VT-D probe

Assorted cable management hooks

Convenient foot pedal height adjustment control
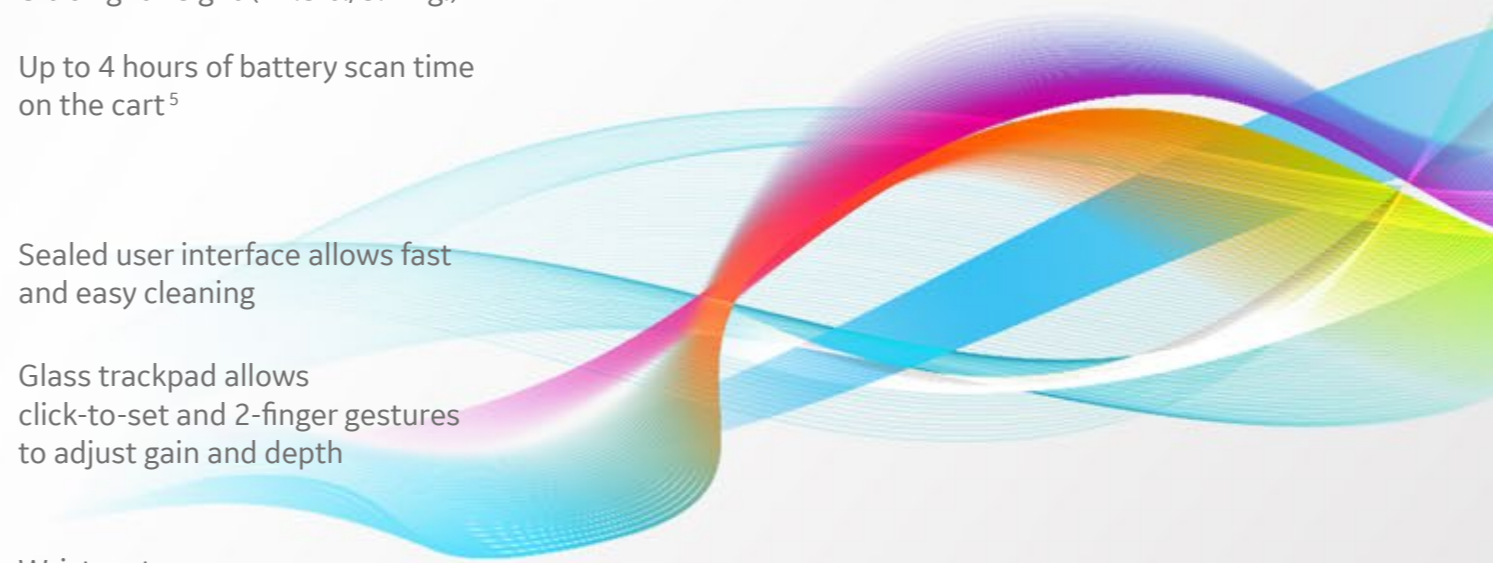
Ultra lightweight (11.5lb./5.2 Kg.)

Up to 4 hours of battery scan time on the cart [5]

Sealed user interface allows fast and easy cleaning

Glass trackpad allows click-to-set and 2-finger gestures to adjust gain and depth

Wrist rest accessory

Removeable and cleanable storage bin

MODERN ERGONOMICS

Sleek design with an intuitive user interface.

90% of sonographers experience symptoms of Work Related Musculoskeletal Disorders (WRMSD)[1]

$**120**+

billion yearly direct and indirect costs for employers[1]

Do more on the trackpad

Minimize cognitive fatigue

USER EXPERIENCE EXCELLENCE

Your well being is our top priority

Prolonged scanning poses a known risk for work related musculoskeletal disorders (WRMSDs). Staff wellness is a key asset to your organization. Shorter exams, an intuitive user interface and adoption of an ergonomic body posture can positively impact your staff wellness. These are all possible with the Vivid *iq* Ultra Edition.

A new level of user experience

The updated touch user interface was designed for convenience and fast scanning, for both left and right-hand users, minimizing muscle strain and helps sustain eye contact with the image area.

The new trackpad functionality and ergonomic wrist-rest accessory enable fast scanning and much needed ergonomic support.

Intuitive and familiar user interface

Your time is precious.
Save it.

AI **AFI LV with 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 *iq* Ultra Edition features the latest AI-based technology to help reduce tedious tasks and improve workflow efficiency. You can 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.[6]

Discover the many innovations brought by the Vivid *iq* 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	LOWER INTER OPERATOR VARIABILITY	ACCELERATED WORKFLOW
⏱ UP TO 93%	REDUCE VARIABILITY ~3x	
Fewer Keystrokes [7]	*Standardized exams with greater reproducibility* [7]	*Productivity improvement*

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.

Powered By
Edison

CLINICAL EXCELLENCE
for the Echo Lab
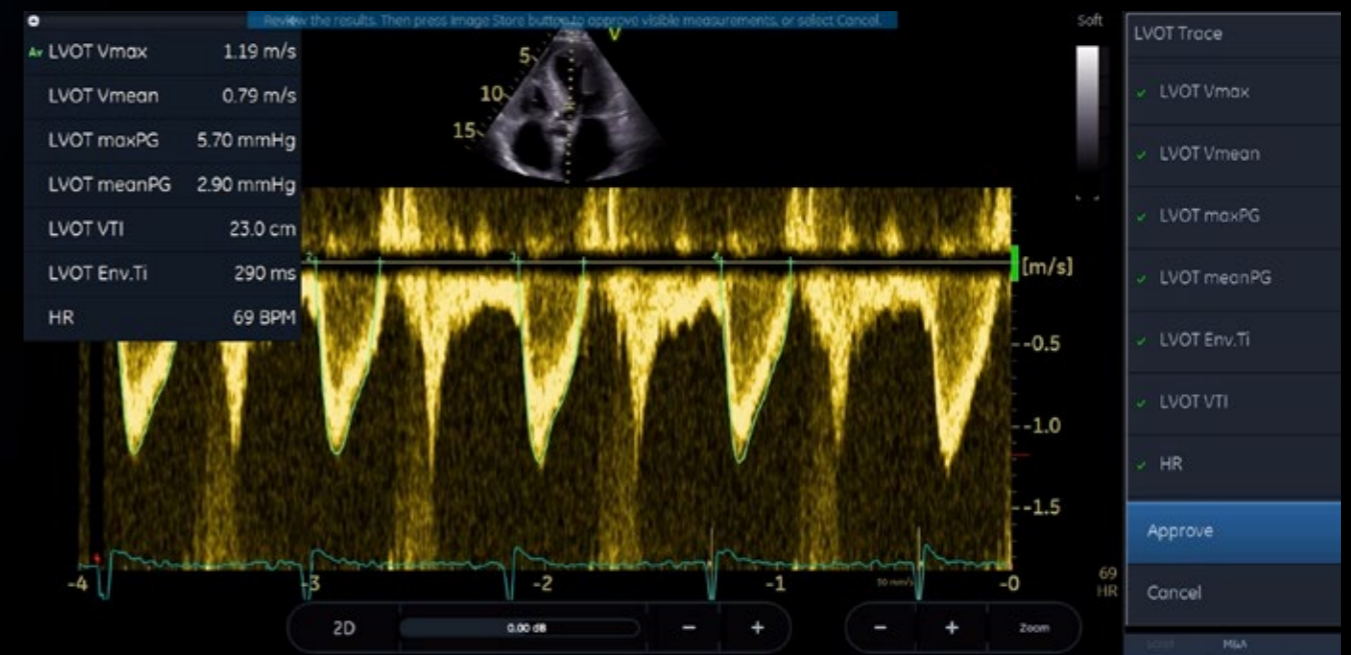
LESS CLICKS, UP TO [6]

-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.

ACCURACY [6]

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.

Ar LVOT Vmax	1.19 m/s
LVOT Vmean	0.79 m/s
LVOT maxPG	5.70 mmHg
LVOT meanPG	2.90 mmHg
LVOT VTI	23.0 cm
LVOT Env.Ti	290 ms
HR	69 BPM

Review the results. Then press Image Store button to approve visible measurements, or select Cancel.

LVOT Trace
- LVOT Vmax
- LVOT Vmean
- LVOT maxPG
- LVOT meanPG
- LVOT Env.Ti
- LVOT VTI
- HR

Approve

Cancel

Pediatric imaging

Visualize small anatomies with speed, clarity and confidence thanks to Vivid *iq* Ultra Edition's superb high-resolution imaging and dedicated pediatric probes.
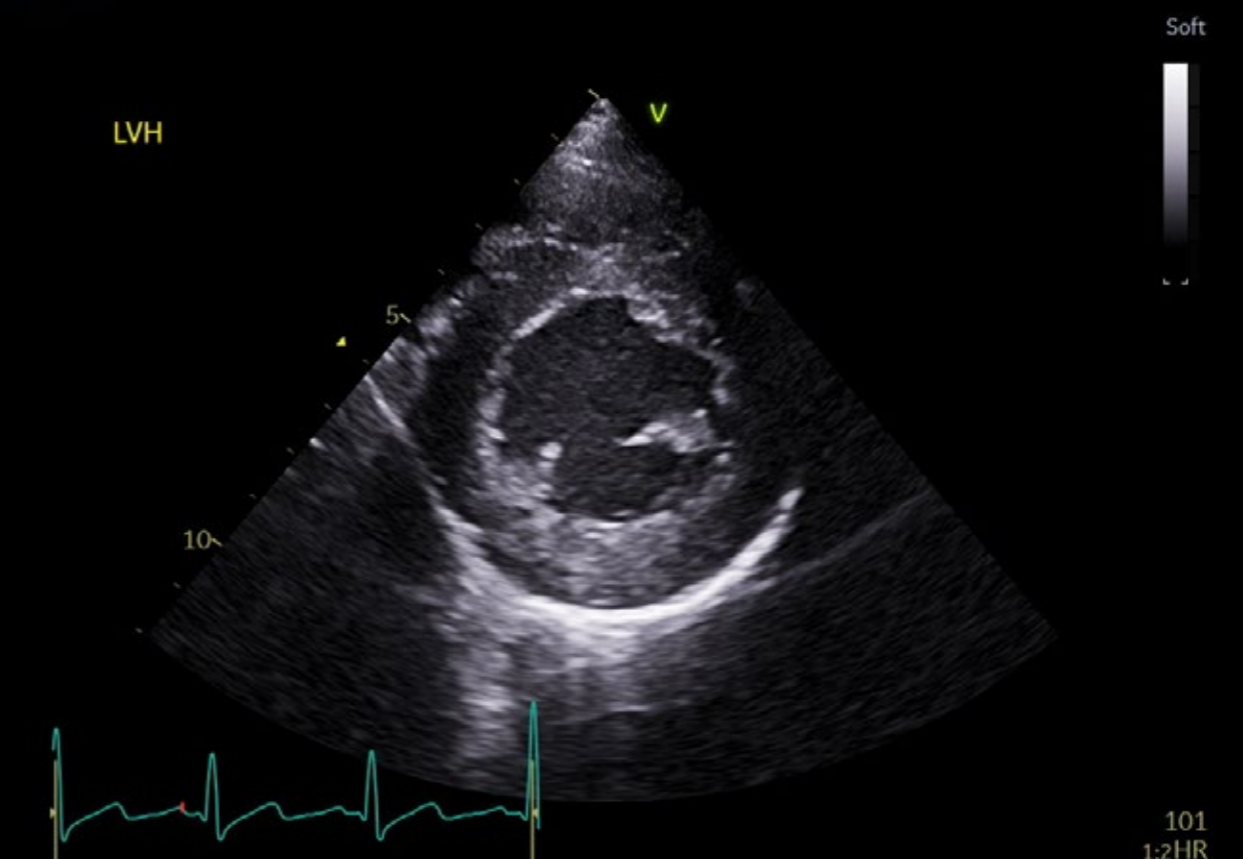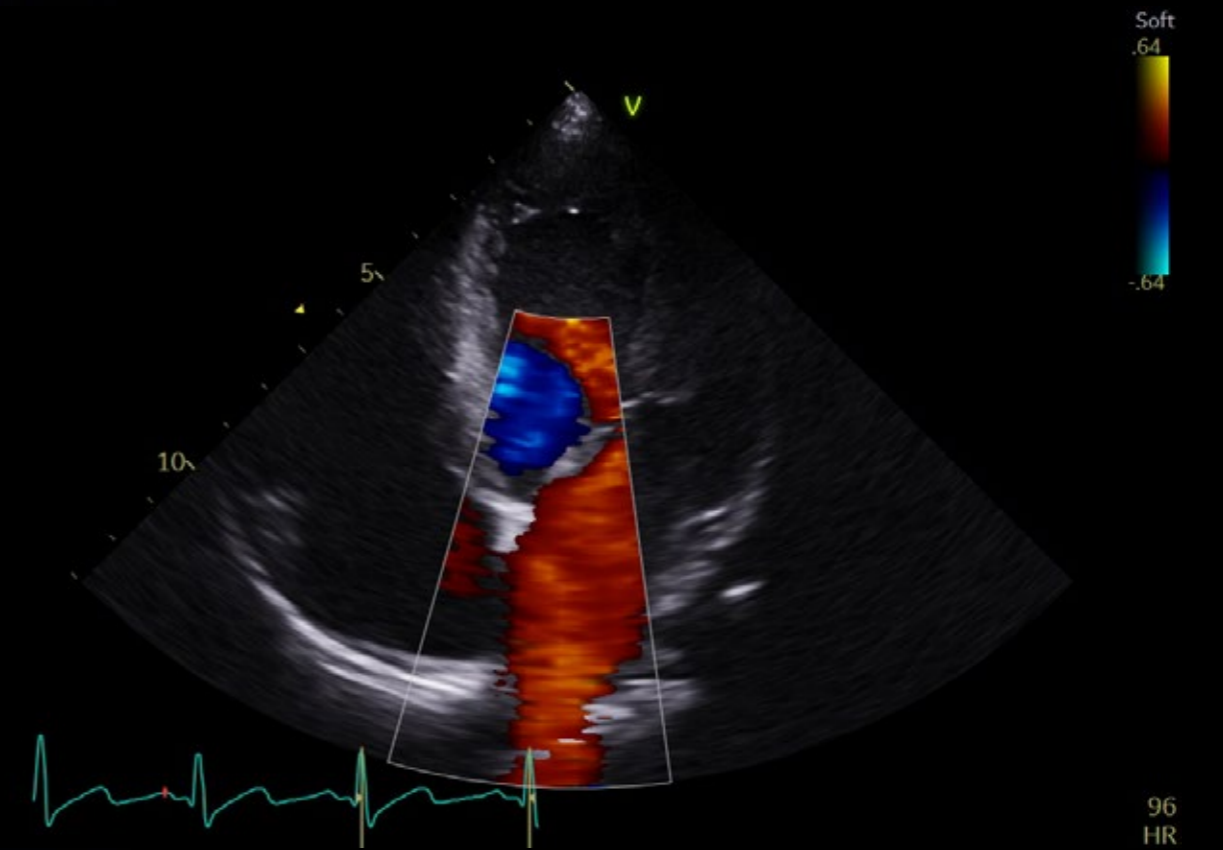
SPEED AND VERSATILITY
for Pediatrics

Speed and versatility are needed for your pediatric echo exams. The Vivid *iq* Ultra Edition delivers high image quality with dedicated presets and advanced quantification tools, enabling precise measurements for your patients – big or small.

Lung Assessment

Bedside lung assessment is made easier with dedicated FAST and lung presets that help to quickly optimize images.
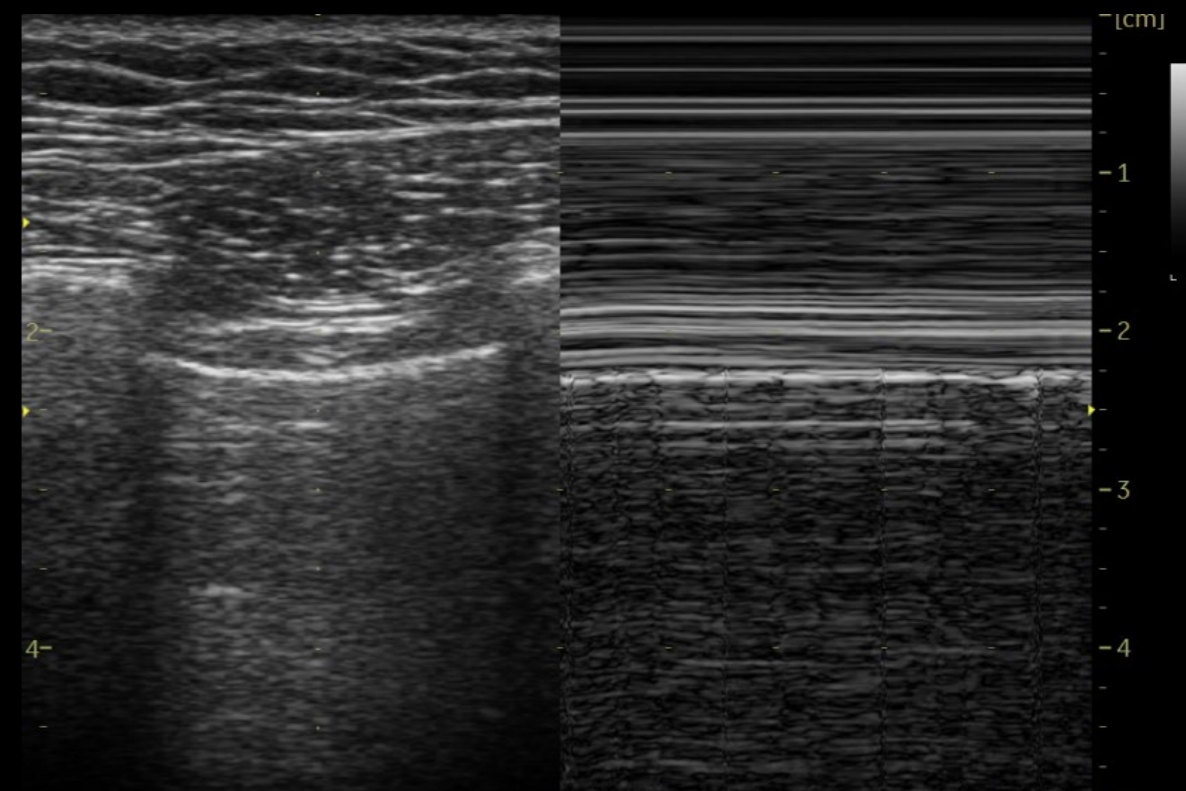
AFI RV

Right Ventricle Global Strain (RVGLS) is an objective and accurate marker that is strongly correlated with RV ejection fraction. It has good prognostic power in many clinical studies.[8]

Designed for
BEDSIDE ASSESSMENT

Use the Vivid *iq* Ultra Edition to assess heart and lung functionality in COVID-19 patients.

There are times when the best decision is to scan at the bedside to minimize risks. In addition to needing a portable system that is lightweight, battery powered, Wi-Fi enabled and easily cleanable, your demand for advanced imaging remains the same as in the Echo Lab. High-end performance for portable cardiac assessments is truly possible with the Vivid *iq* Ultra Edition.

With uncompromised heart visualization and excellent quantification tools, you'll save precious time with the GE Healthcare Vivid AFI LV with AI-based View Recognition, and Auto EF for rapid LV Strain assessment. AI-powered measurements and tracing tools are easy to use, even by non-specialized users.

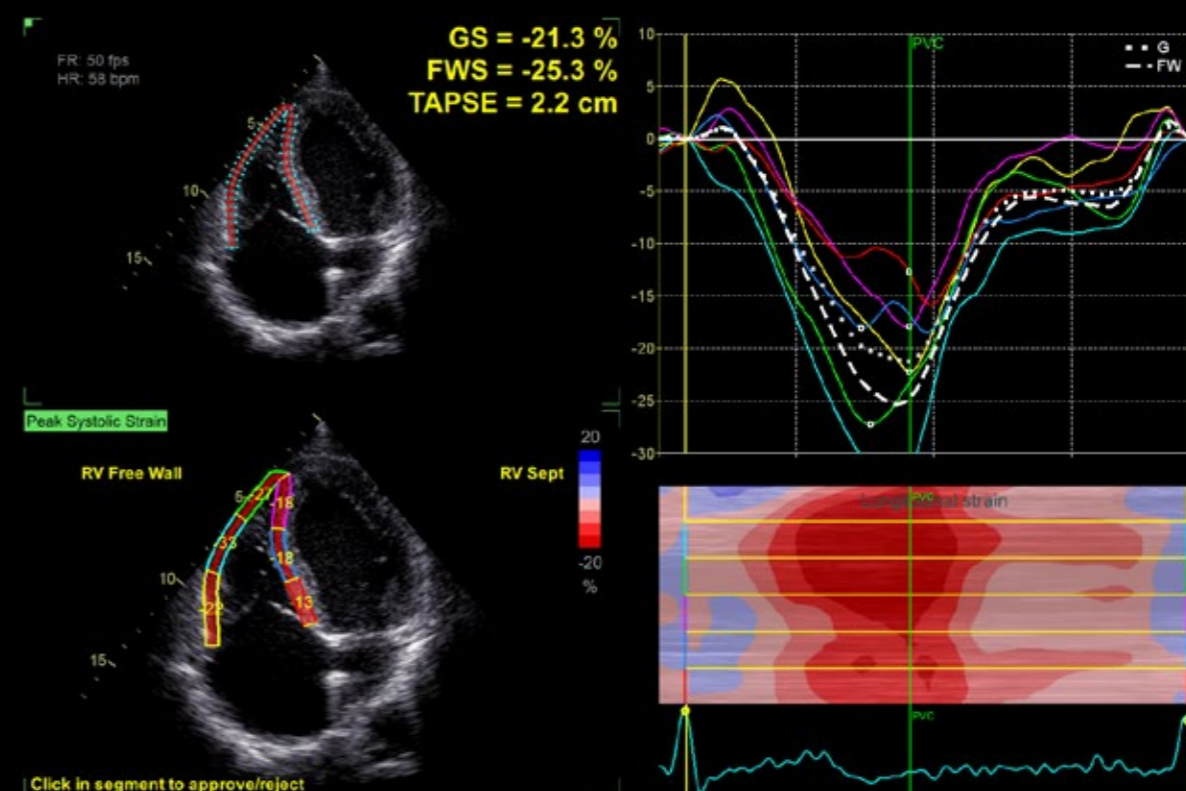Use the new AFI RV tool to assess RV systolic function and estimate disease prognosis.
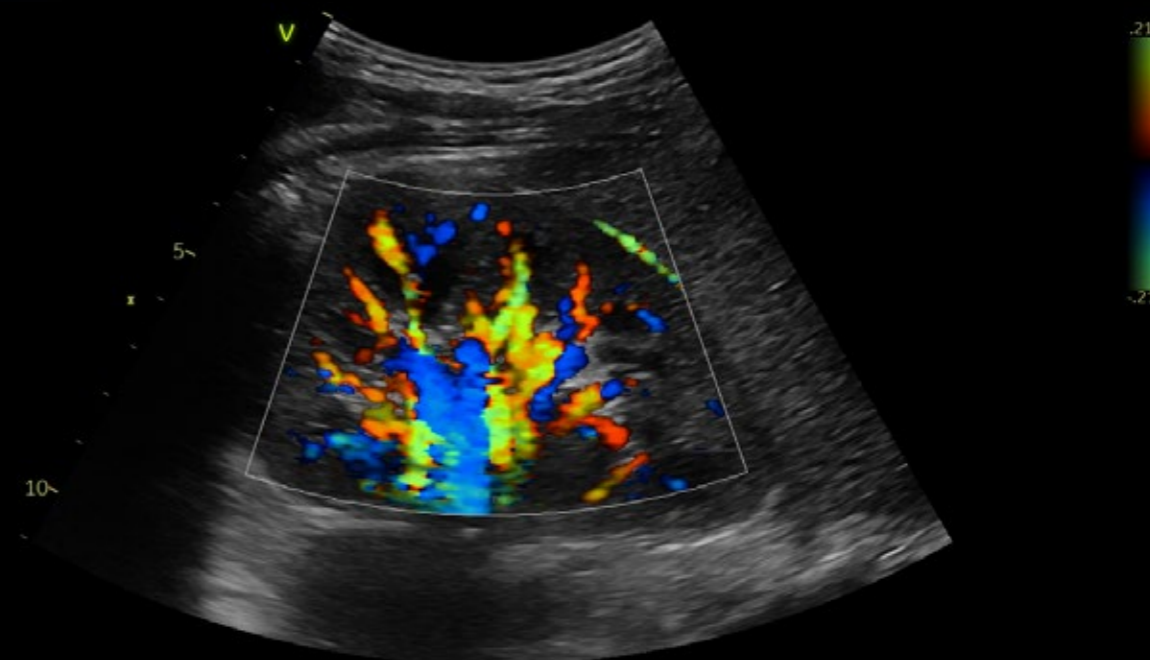
Vascular quantification

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

d	0.12 cm
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
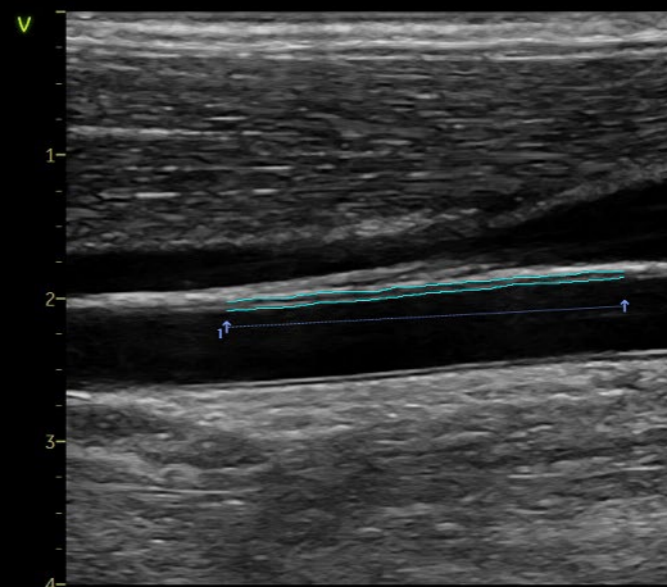
Abdomen diagnosis

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

CLINICAL EXCELLENCE
beyond Cardiology

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

With the aging population, vascular and abdominal exams are increasingly challenging. Vivid *iq* Ultra Edition provides you exceptional 2D and color flow imaging across applications including vascular, abdominal, fetal/obstetrics, and other applications beyond cardiology.

Efficient workflow, flexible touch screen display options (up/down, left/right), wide probe range and quantification tools ensure the confidence you need for speedy and accurate diagnosis also under challenging conditions.

HD Color

4D color flow rendering technique for semi-transparent visualization of origin and size of high velocity jets.

CLINICAL EXCELLENCE

for Interventional Procedures

When minimal footprint and infection control are critical, your heart team will appreciate a portable solution.

While intracardiac echo (ICE) is a dynamic and growing space, procedure rooms may be small and overcrowded, and infection control a constant struggle.

With the Vivid *iq* Ultra Edition minimal footprint, you can overcome your space constraints, while easily navigating imaging via the trackpad and touch screen, with your gloves on.

HD Color adds precision and insight to your everyday 4D TEE pre-operative screening and diagnostic procedures.

Expect more from your portable ultrasound and benefit from the Vivid family advanced multi-plane and 4D visualization and navigation tools.
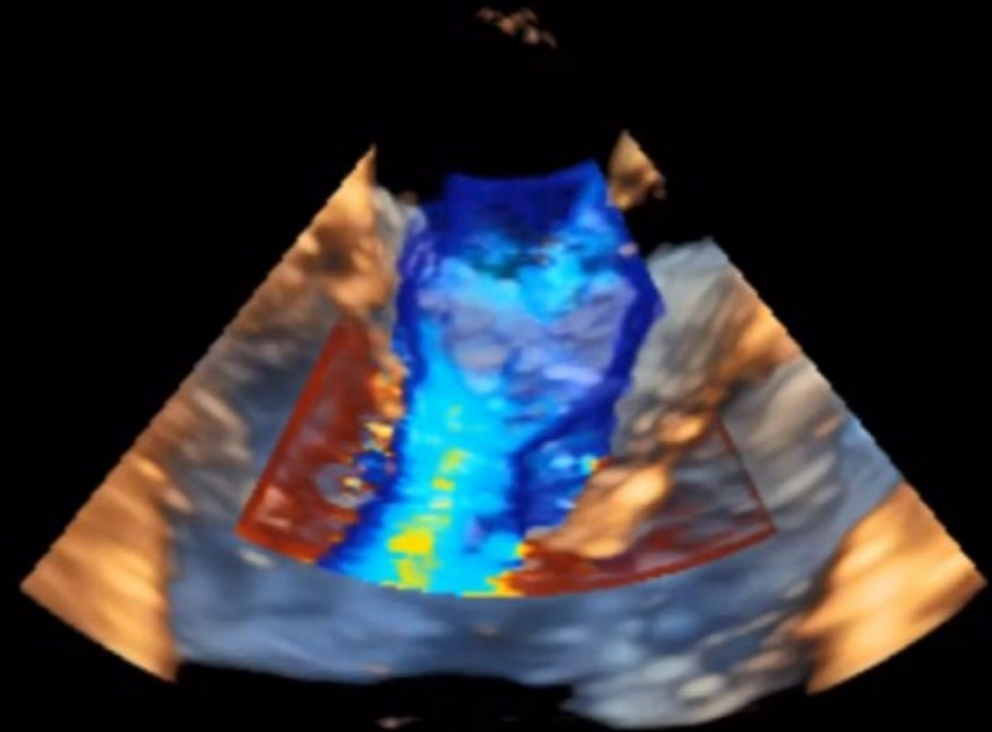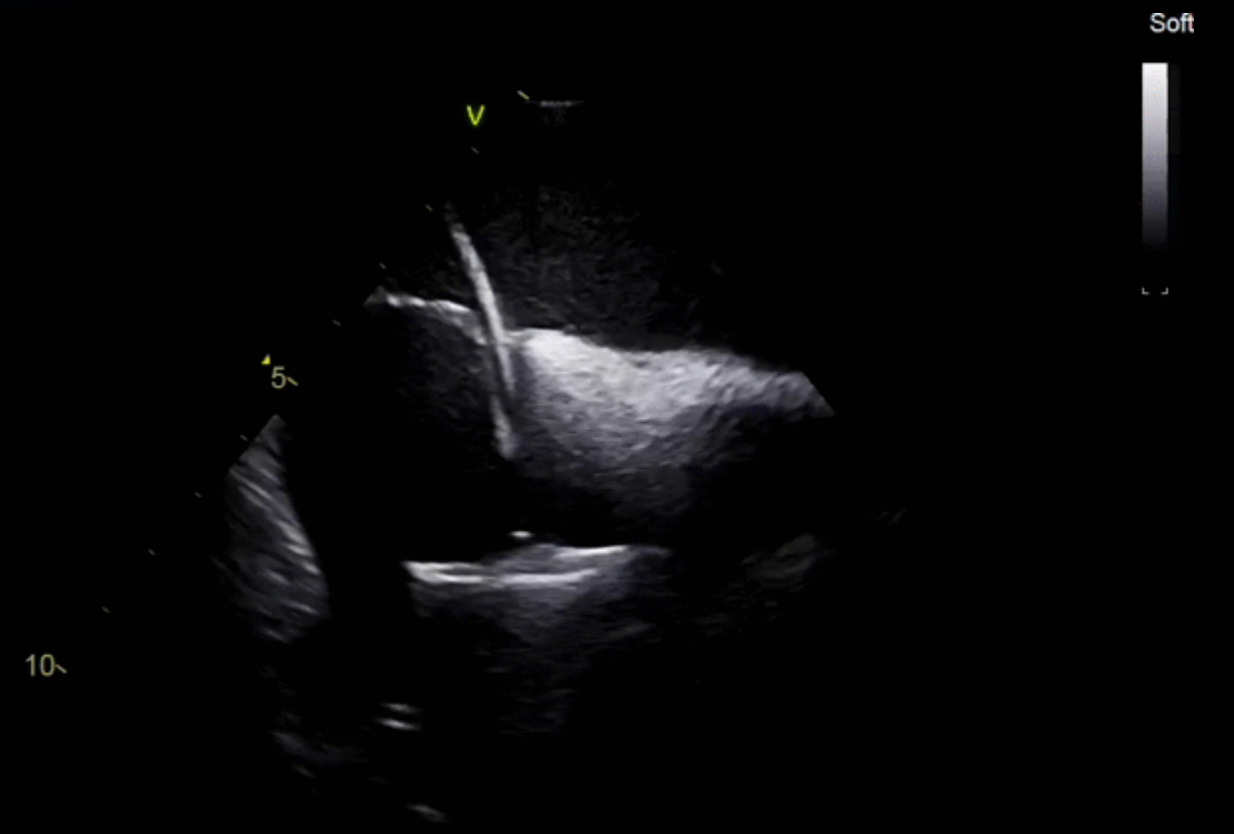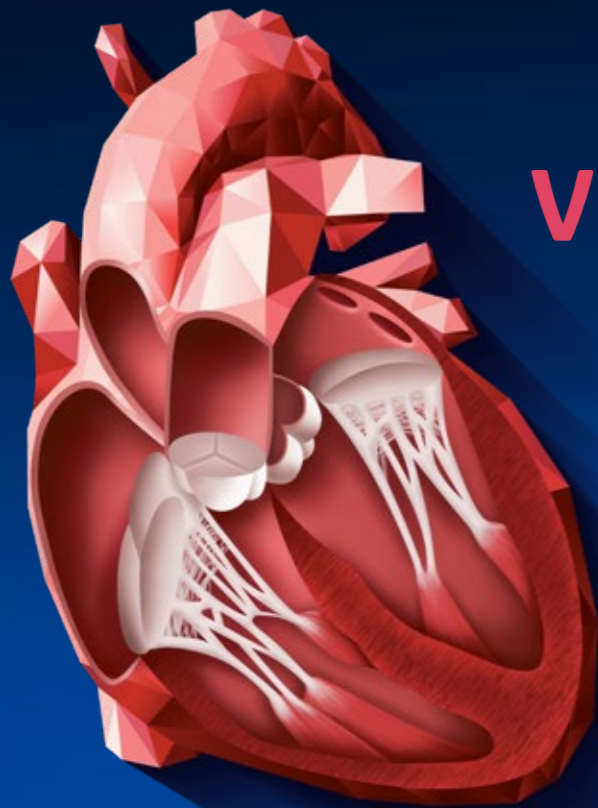
2D ICE

Great image quality, with easy and intuitive Intracardiac echo (ICE) touch user interface for your 2D ultrasound-guided ablation and structural heart procedures.

Vivid *iq* Ultra Edition

VIVID HEART
APPLICATIONS

A wide range of clinical applications for use in Echo Lab, in the ICU and NICU, in the EP Lab and Cath Lab, and in Cardiovascular practices.

VISUALIZATION AND NAVIGATION

Ultra Edition

| 4D Markers | FlexiSlice | HD Color |
| FlexiViews | View-X | Scan Coach |

FLOW QUANTIFICATION

Ultra Edition

Cardiac Auto Doppler

AI Auto Measure Spectrum Recognition **AI**

VALVES AND CHAMBERS QUANTIFICATION

Ultra Edition

4D Auto AVQ

4D Auto MVQ

4D Auto LVQ

Auto Measure 2D with View Recognition **AI**

Auto EF **AI**

AFI FUNCTIONAL IMAGING

Ultra Edition

AFI LV with View Recognition **AI**

AFI RV

AFI LA

APPLICATIONS POWERED BY **AI**

VIVID **HEART**
APPLICATIONS

VISUALIZATION AND NAVIGATION

Why guess? When you can see.

New in Ultra Edition

FlexiSlice

With a distance gauge and two viewing layouts, this interactive tool for obtaining 2D or render views in live or replay mode may provide enhanced insight as well as save time.
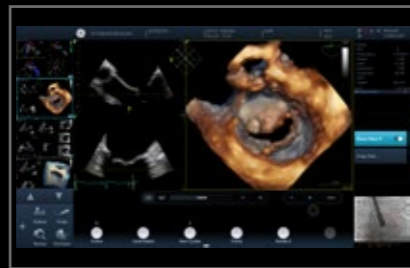
FlexiViews

Gain quick access to predefined 4D/multiplane views during live mode, potentially reducing scan time during complex interventional procedures.
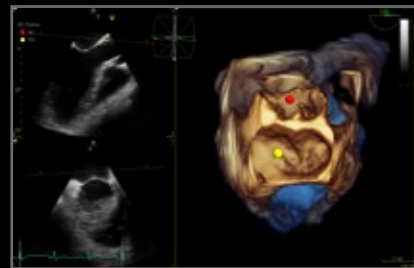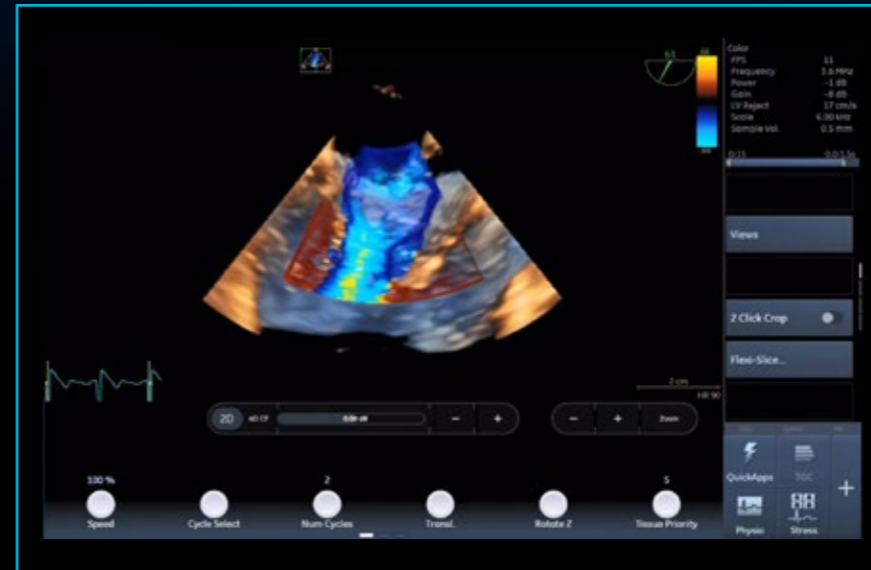
4D Markers

Make annotations that are viewable from all angles on 4D ultrasound volume data sets and their 2D views, facilitating communication in the echo lab, cath lab and OR.

View-X

See X-ray from fluoroscopy in real time right on your Vivid *iq* Ultra Edition screen as a picture in picture, facilitating communication between team members.

Ultra Edition   ### HD Color

4D color flow rendering technique for semi-transparent visualization of origin and size of high velocity jets.

Benefits:
• Enhance spatial relationships between flow and the surrounding structures
• Suppress non-diagnostic low flow information
• Work seamlessly with other visualization techniques such as 4D markers
• Supports 4D color flow data also from previous releases
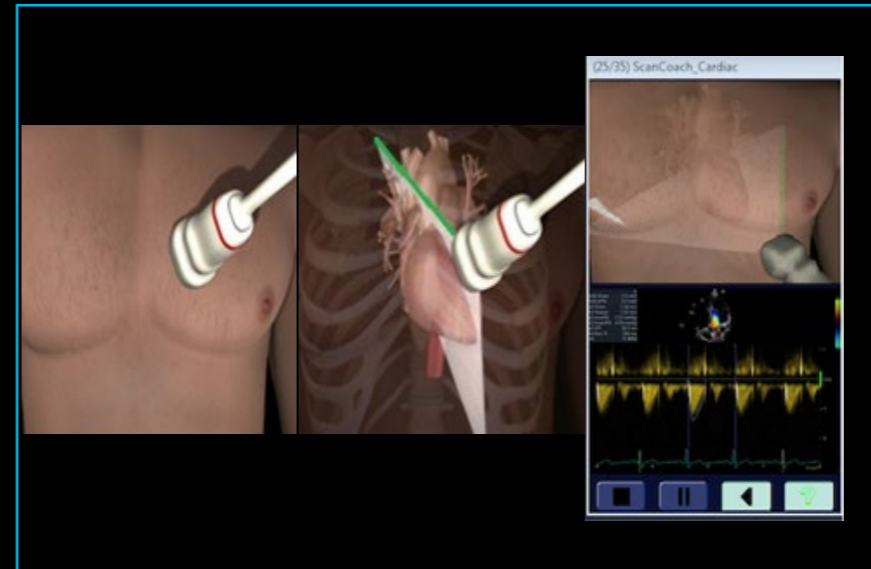
Ultra Edition   ### Scan Coach

A reference and education tool that provides modules depicting basic scanning techniques with animated graphics of probe position, schematic of anatomy and reference clinical image.

Benefits:
Guided scanning:
• Conveniently located onboard the console within the Scan Assist Pro feature
• Provides guidance to obtain different views and measurements
• Helps inexperienced users performing echo scans

Education and reference tool:
• Assists in positioning the probe and probe orientation
• Anatomical reference helps visualize where the scan plane is located inside the heart
• Scan Assist Pro exam protocols can be customized per local guidelines and help ensure exam completeness
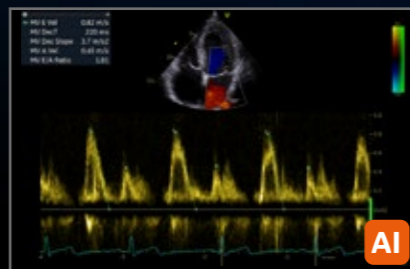
FLOW QUANTIFICATION

Your time is precious. Save it.
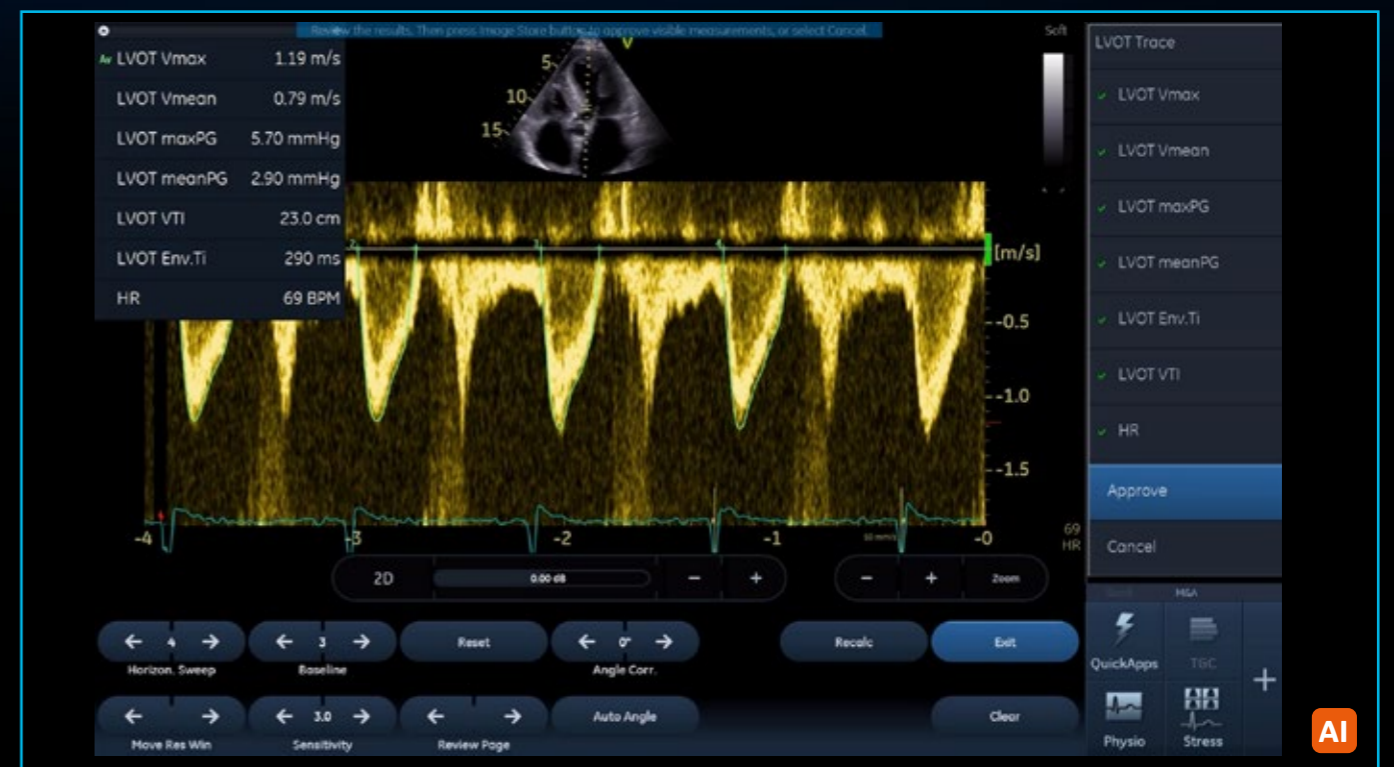
New in Ultra Edition

Cardiac Auto Doppler

Semi-automatic Cardiac Doppler measurements.

Benefits:
- Enhances reproducibility of follow-up studies when used in automated mode [7]
- Offers Doppler measurement in multiple cardiac cycles as recommended by guidelines for irregular heart rhythms [8,9]
- 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 tool [6]
- Works seamlessly with Cardiac Auto Doppler
- Enhances reproducibility of follow-up studies when used in automated mode [6]
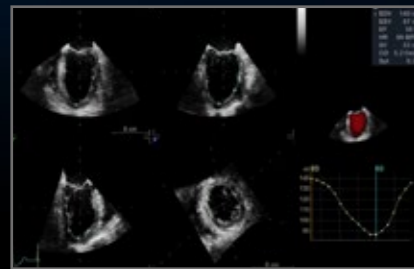- Supports less experienced users with advanced automation

APPLICATIONS POWERED BY AI

VALVES AND CHAMBERS QUANTIFICATION

New in Ultra Edition

Precision at the heart of quantification.

4D Auto LVQ

Adapted to work with full volume data sets acquired with the 4D TEE transducer, 4D Auto LVQ for TEE brings you a fast, easy, two-click method of placing points to define the initial endocardial border.
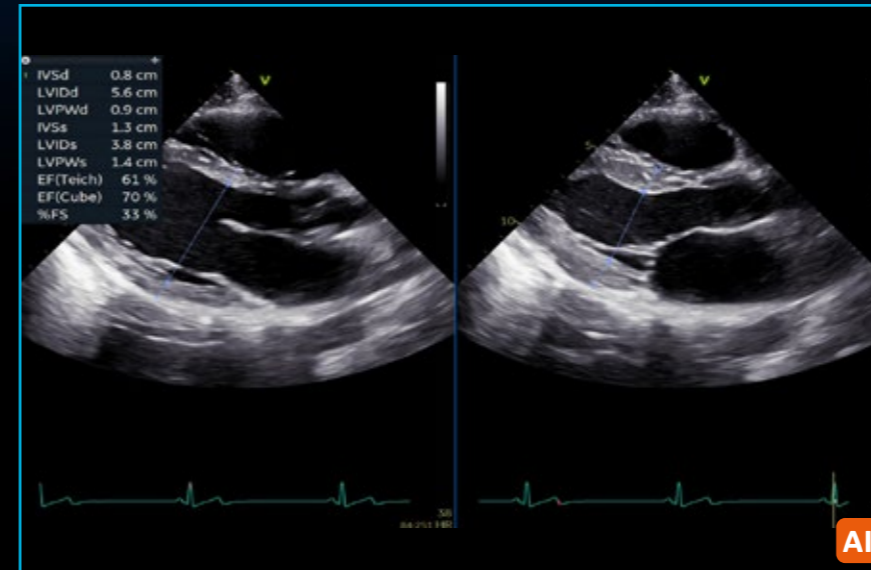

4D Auto AVQ

Automatically segment, align and quantify the aortic outflow tract – vital to device sizing and orientation for TAVI/TAVR procedures.

4D Auto MVQ

Supporting TEE images, this integrated package helps visualize and quantify the mitral valve via a semi-automatic, surface-detecting algorithm.
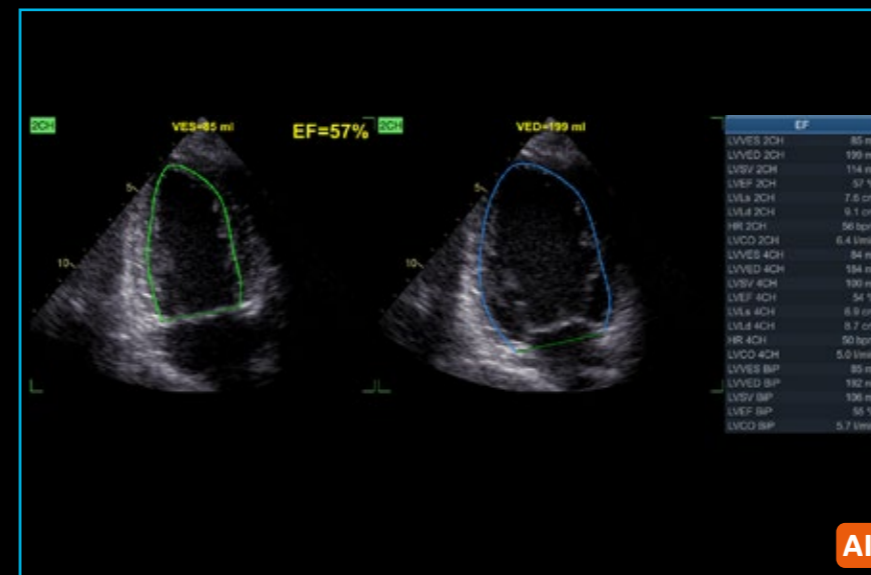

Ultra Edition

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 clicks [6]
  - 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
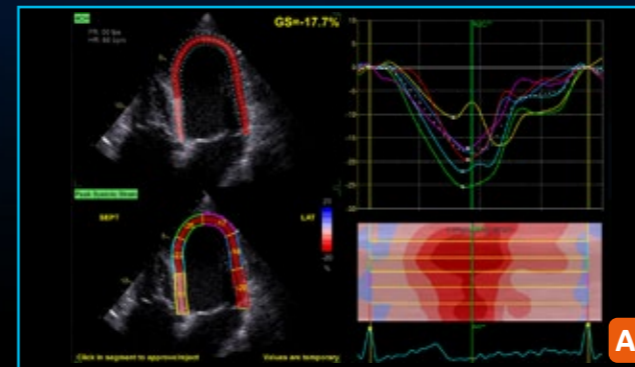
VIVID HEART APPLICATIONS

AFI FUNCTIONAL IMAGING

From diagnosis to prognosis.
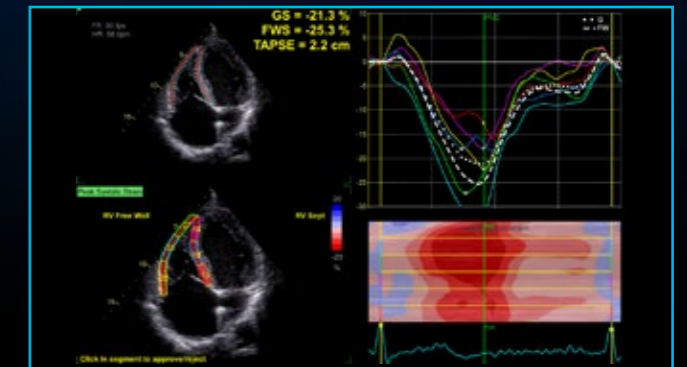
New in Ultra Edition

Ultra Edition **AFI LV with View Recognition***

Powered by AI-based View Recognition, AFI LV provides semi-automated quantification of left ventricular global and segmental strain.

Benefits:

• Offers advanced industry pioneered speckle tracking algorithm for quantifying myocardial deformation

• Works seamlessly - integrated ejection fraction calculation

• Supports Adult and Pediatric TTE and Adult TEE images

• Provides time savings via automatic selection of the appropriate 4-chamber, 2-chamber and APLAX images for analysis

• DICOM support. Assessment of the left ventricle ejection fraction also on data sets acquired on other vendors' systems
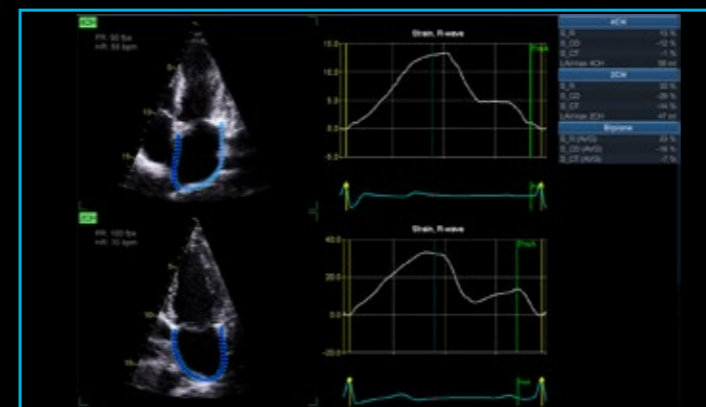

Ultra Edition **AFI RV**

AFI RV is a novel tool to assess the right ventricular function by advanced speckle tracking echocardiography.

Benefits:

• Offers renown Vivid AFI user interface and workflow to allow current and new users easy adoption

• Supports right ventricle free wall strain, global strain and Tricuspid Annular Plane Systolic Excursion (TAPSE)

• Follows the 2018 EACVI-ASE Strain Standardized Task Force guidelines

• Supports right ventricle images also from previous releases

Ultra Edition **AFI LA**

AFI LA Strain is a novel method to assess the left atrial function allowing global strain to be measured using speckle tracking echocardiography.

Benefits:

• Offers Vivid renown AFI user interface and workflow allowing users to easily adopt

• Supports left atrium strain, volumes and emptying fraction measurements

• Follows the 2018 EACVI-ASE Strain Standardized Task Force guidelines

• Supports left atrium images also from previous releases

*View Recognition is only applicable to images acquired with TTE probe on GE systems

APPLICATIONS POWERED BY AI

SEAMLESS WORKFLOW INTEGRATION

POST PROCESSING & REVIEW | OPEN STANDARDS | INTEGRATION WITH YOUR WORKFLOW

EchoPAC Software Only and EchoPAC Plug-in:

- Analyze and review data from GE Healthcare Vivid family of scanners, as well as DICOM images from other ultrasound systems.

- Access all Vivid measurement and review tools utilizing GE Healthcare Raw Data or industry standard DICOM data

- DICOM Image transfer with optional GE Healthcare Raw Data transfers images easily in your existing workflow

- DICOM SR Measurement Transfer including standard and custom measurement allows seamless integration with GE Healthcare and other industry reporting systems and EMRs [12]

EchoPAC Plug-in is available for:

- GE Healthcare Centricity™ Cardio Enterprise with Intelligent Reporting (IR).

- GE Healthcare ViewPoint™ 6 with EchoPAC Suite [11]

- As a plug-in to third party PACS

With Centricity Cardio Enterprise IR, routine adult echo reports are

83% **complete before the physician opens the exam to review.** [10]

SonoDefense
ADVANCED CYBERSECURITY AND DATA PRIVACY PROTECTION

Healthcare institutions are under growing threats of cyberattacks – and the implications for data security, patient privacy, and the quality and cost of care are staggering.

FACILITY ECHOSYSTEM

NETWORK FIREWALL

WINDOWS 10 HARDENING

MALWARE PROTECTION

LOCAL/REMOTE ACCESS MANAGEMENT

PHI ENCRYPTION

The SonoDefense strategy consists of SIX LAYERS, with each layer enhancing the overall security of the system and help protect patient data.

Protecting against these threats and safeguarding your patients and your institution requires more than anti-virus protection. SonoDefense is GE Healthcare's multi-layer strategic approach to cybersecurity and patient data privacy for ultrasound.

SonoDefense is designed to:

- Keep the ultrasound machine safe and functional in the face of cyberthreats
- Protect patient data on the machine from unauthorized access
- Enable you to successfully implement patient data and security policies, while still managing product daily workflows

SonoDefense strategy applies to Vivid portfolio:

- Windows® 10 IoT Secure Operating System provides multi-layered security
- Application whitelisting prevents malware execution
- Configurable user security provides user authentication and access control
- Data encryption protects stored data and during transmission
- Network firewall disables unneeded operating system services
- Integrates with existing facility security infrastructure

Healthcare is a soft-target for hacking and ransomware.[13]
$4B cost added in 2019 [14]

Ultrasound is especially vulnerable to operator-dependence leading to **VARIABILITY** between exams [16]

Constrained budgets increase pressure to **DO MORE** with less [15] and to optimize assets

Probe mishandling can lead to damage which can cause faulty data and may lead to incorrect medical decisions [17, 18]

[POP]
PERFORMANCE OPTIMIZATION PARTNERSHIPS

Purchasing a GE Healthcare ultrasound is not only getting access to a high-technology or remarkable clinical applications. It's about enjoying a new user experience, at every step of ownership. We help you to outperform today, while preparing your department for tomorrow's challenges.

STAFF EXCELLENCE
A comprehensive portfolio of training for clinical and technical users.
Helping you and your team build customized development plans to foster excellence and increased confidence.

ASSET OPTIMIZATION
Customizable dashboards for asset utilization and consulting services to provide actionable insights.
Achieving more with your assets to improve patient care and realize department strategic plans.

PROACTIVE MANAGEMENT
Use digital technology and tools to minimize expensive and disruptive unplanned downtime.
Proactive monitoring to help reduce cost and revenue loss from unplanned failures and automated updates for peace of mind.

IMPROVED UPTIME
Best-in-class repair services to drive uptime. Fully scalable from full coverage to shared maintenance.
Thoroughly aligned with your own in-house capabilities, providing the right balance between staff autonomy and our expertise.

DEVICE PROTECTION
Keep your device state-of-the-art with software upgrades, new applications and security patches.
Optimizing your device to drive clinical and operational benefits and help you stay ahead of the game, without changing your equipment.

PROBE PERFORMANCE
Customizable portfolio of solutions for probe lifecycle needs to improve availability and performance.
Proactive probe care that may help you increase diagnostic quality, decrease cross-contamination risk and expand the life span of the transducers.

Ready to make your Vivid **POP**?

Complete lifecycle solution for clinical, operational & financial outcomes.
You take care of your patients, we'll take care of you.

PARTNERSHIPS DRIVE RESULTS
GE Healthcare is by your side to overcome these risks, helping you to:

- ✓ Keep your systems up and running, safe from breaches and cyberattacks
- ✓ Achieve more with your existing systems, without changing your investment plan
- ✓ Improve your activity, exam flow and staff planning, based on comprehensive data and reports
- ✓ Create comfort zone for your teams, reaching operational efficiency and clinical excellence
- ✓ Achieve high standard in probe-related cross-contamination and diagnostic errors

UNLEASH THE POWER OF **CONNECTED** DEVICES

Your Vivid system has been designed to provide you with an optimal user experience. Connectivity is the key element to enjoy it fully, whenever and wherever you need it, regardless of site access restriction and planning constraints.
Discover a new world of services, included in every package:

REMOTE TECHNICAL SUPPORT
Access to experts anytime, anywhere

InSite™ connectivity enables OnDemand and real-time access to remote GE Healthcare experts
- Reduce disruptions
- Decrease system downtime
- Improve asset usage and staff productivity

It provides secure remote connectivity without requiring any open inbound ports or VPN connection.

REMOTE FIX

UP TO 40%

issues fixed remotely with InSite [19]

NEW REMOTE SUPPORT
Real-time and interactive applications support

Digital Expert [20] provides an interactive, real-time, flexible & convenient way to get education and support.
- May help improve training outcomes
- Increase capacity and efficiency
- Train staff on a short timeline

PREDICTIVE MAINTENANCE
Know the failure before it occurs

Transform unplanned downtime into planned service events with **OnWatch** technology. It provides automated, 24/7 system monitoring, capable of detecting a system failure before it occurs. Any deviation alerts our GE Healthcare engineers, who proactively work to keep your operations running smoothly.

NEW AUTOMATED UPDATES
No need to worry about your system safety

Get automated software updates with **eDelivery** along with safety patches enabled by remote software download. **SonoDefense** provides the highest level of cybersecurity to keep your systems up-to-date, with no impact on your operations. No on-site intervention needed.

DATA DRIVEN INSIGHTS
All the insights you need to decide, at your fingertips

Better decisions start with better data **iCenter™** is a secure, cloud-based asset management tool that offers comprehensive data analytics for your systems. It provides insights to make informed decisions and helps improve operational performance, optimize patient flow and maintain compliance standards.
MyGEHealthcare App is a complementary app that gives you access to the data 24/7 directly on your smartphone. You can receive notifications and create a service request anytime, anywhere.

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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2. Forecasting the Future of Cardiovascular Disease in the United State, AHA Policy Statement, 2011, source: CIR.0b013e31820a55f5

3. 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

4. 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

5. Depending on operation modes used and battery status

6. The Role of AI in Streamlining Echocardiography Quantification White Paper, Kristin McLeod - JB80498XX

7. 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

8. 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).

9. 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)

10. Centricity Cardio Workflow v7 Intelligent Reporting out-of-the-box configuration compared to 2017 IAC guidelines excluding doppler. CCW Intellgent Reporting Outcome - JB74831XX

11. EchoPAC Suite is a marketing name for EchoPAC Plug-in

12. 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).

13. https://www.ncbi.nlm.nih.gov/pubmed/27689562

14. Data Breaches Will Cost Healthcare $4B in 2019, Threats Outpace Tech, healthitsecurity, source: t.ly/xrAA

15. 5 Tips for Controlling Costs in Hospitals and Biomed Shops, source: t.ly/I9n7

16. Errors in Sonography, DOI: 10.1007/978-88-470-2339-0_8. https://www.researchgate.net/publication/279616130_Errors_in_Sonography

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18. 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/

19. GE internal data

20. Digital Expert is only offered in the USA