GE HealthCare

Vivid™ T8

Ultra Edition

Your patients rely on you.
You can rely on us.

Today's challenges

Increasing demand, coupled with limited cardiology staff, results in additional workload challenges for the entire medical community.

17 million
people died from CVDs in 2019[1]

1 in **4**
cardiologists state they are burned out[2]

>10 %
increase in Ischemic Heart Disease (IHD) alone by 2030[3]

~20 %
of sonographers are leaving the profession or taking premature retirement[4]

~108 million
annual echo exams performed globally[5]

x**2**
Shortage of health workers is **set to double**[6]

Your patients rely on you.
You can rely on us.

Patient care isn't just a job for you. It's a calling. A mission.

Of late, that mission has changed. Increased workloads, fewer skilled staff and increased demands on your time, resources and expertise are now the norm.

Getting the right images under this pressure is challenging.

But this isn't just a job for you and you have no intention of sacrificing quality in your practice when so much is at stake.

The Vivid T8 cardiovascular ultrasound has been designed to meet today's challenges. To allow more quality time with patients, increase diagnostic confidence and reduce inter-operator variability – all at a price point accessible for private practices.

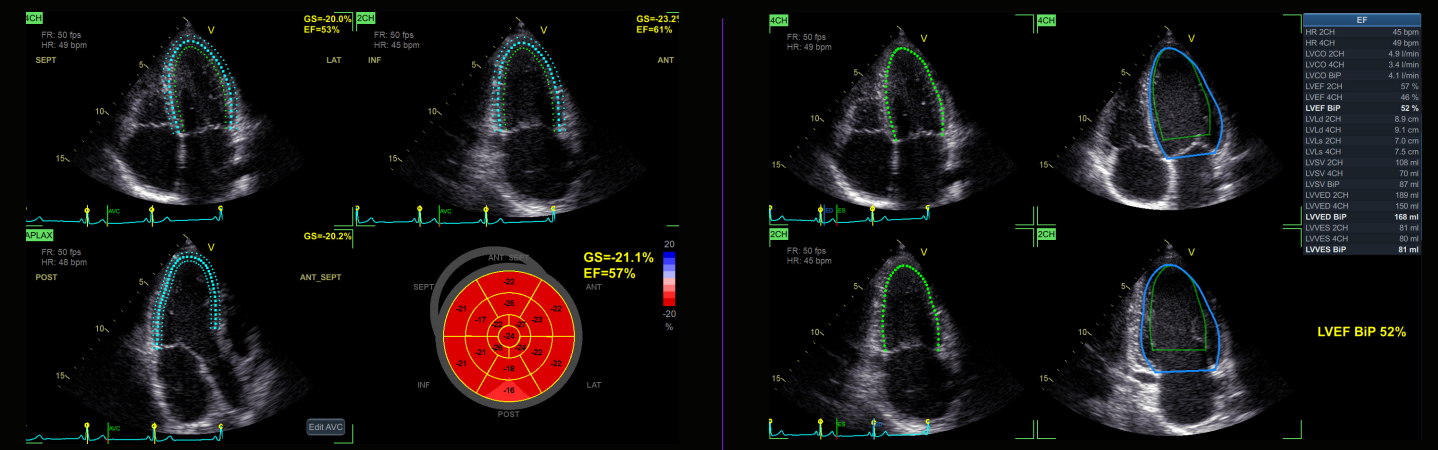Because your patients rely on you, you can rely on us.

Your expertise. Our innovations.

Building on a history of advancements of cardiac patient care, GE HealthCare has been a true pioneer introducing breakthrough technologies, such as Color Doppler systems (1986) and 2D and AFI Speckle Tracking (2005).

Discover the latest leading innovative technologies that continue to push the technical capabilities of the Vivid Ultra Edition* system for the benefit of you and your patient.

Latest innovations

2014
- AutoEF, AFI
- Scan Assist Pro
- Shared services imaging applications

2017
- Pediatric TEE probe
- Smart Standby mode
- 21.5" LCD monitor
- L8-18i-RS probe

2018
- Advanced ergonomics, premium applications and probes
- Cardiac Auto Doppler
- AFI 2.0 & AutoEF 2.0
- Windows 10

2020
- AI Auto Measure (2D & Spectrum Recognition)
- Automatic View Recognition with AFI 3.0 & AutoEF 3.0
- AFI RV
- AFI LA
- eDelivery

2021
- AutoEF with optional ECG

Strain measurements in just 15 seconds (on average) – with **Easy AFI LV.**

In 15 seconds
(on average)[7]

Ejection Fraction and Automatic Region of Interest definition with only 1 click – with **Easy AutoEF.**[8]

Only 1 Click

Vivid T8 Ultra Edition
Designed for your busy practice.

Vivid T8 Ultra Edition* provides reliable and ergonomic design, powered with AI applications for extreme productivity without compromising quality of care.

Extended warranty[9]

Modern ergonomics

Solid design for your demanding practice
- Designed for challenging conditions
- Privacy & security
- Windows 10
- Extended warranty for long-term peace of mind
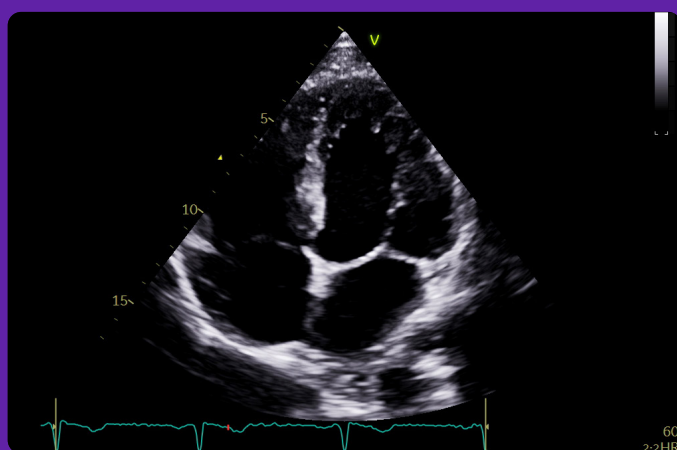
Modern ergonomics for your well-being
- Only 60 kg/132 lbs
- Ergonomic, easy to push handle
- 21.5" screen
- 10.1" resolution touch panel)
- Alphanumeric keyboard
- Articulating monitor arm (optional)
- Single-hand push

Your vision. Our superb images.

The diagnoses and treatments plans plan for your patients require a clear picture of their condition. With so much riding on the image, it has to be the best possible quality.
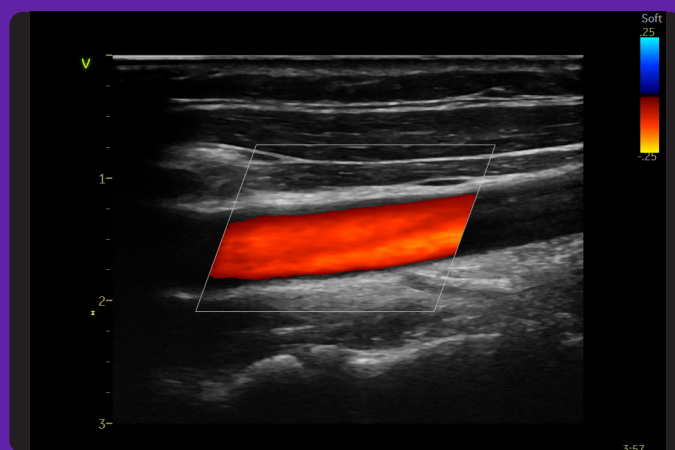
10-15% of echo exams result in sub-optimal images[10]

Latest innovations

Penetration QuickApp
Helps improve visibility

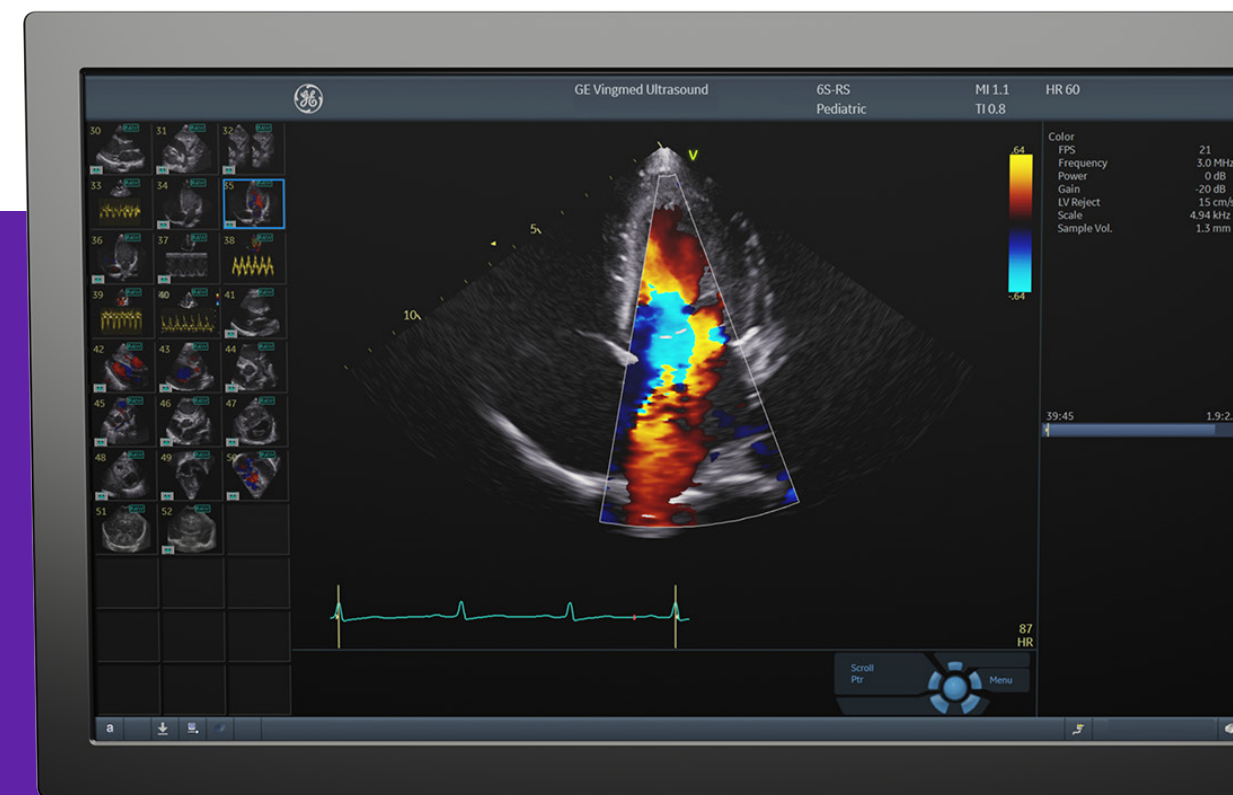Optimize penetration in technically difficult studies with one click.

9L-RS Vascular Probe
Beautifully clear vascular imaging

Develop fast and complete quantitative assessment of vascular anatomies.

Benefit from a wide range of clinical applications and image quality improvements for your cardiovascular practice.
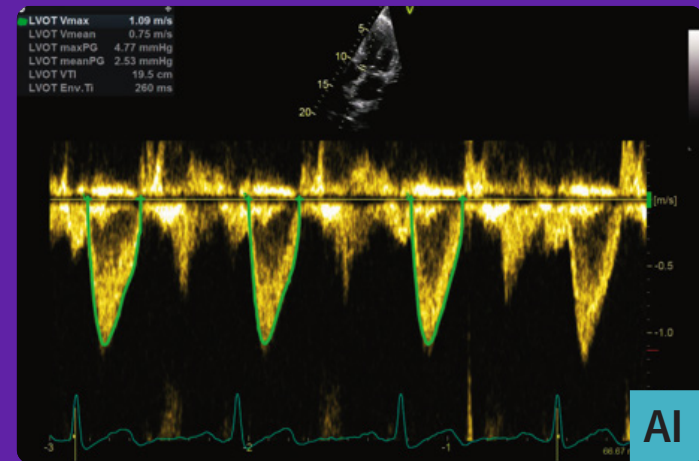
Your time. Our workflow tools.

Vivid T8 Ultra Edition introduces the latest AI-based technology to help reduce tedious tasks and improve workflow efficiency.

AI Auto Measure 2D

With the power of AI, a full set of reproducible measurements will instantly appear on the screen.
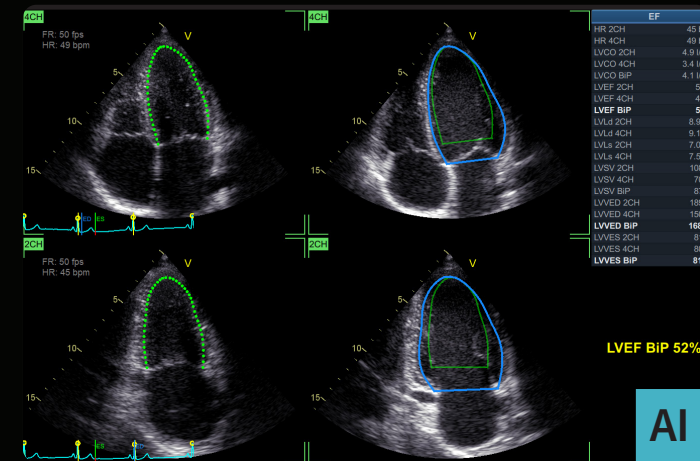
80%
Less clicks[11]

Cardiac Auto Doppler with 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.
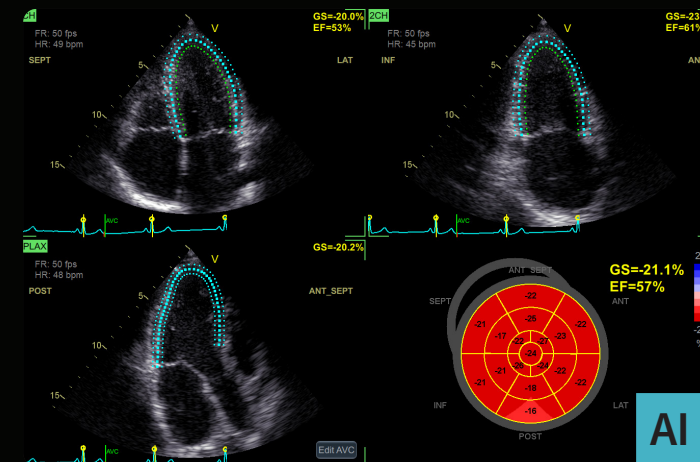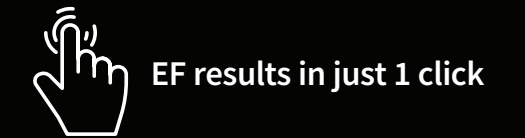
Up to 93% fewer keystrokes[12]

35% of cardiac sonographers miss work due to pain[13]
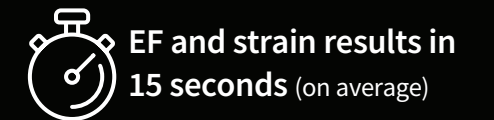
Latest innovations

Easy AutoEF (without ECG)

Our AI-based Auto ROI detection algorithm allows users to complete ejection fraction, with no manual interaction apart from initiating the tool and approving the results. 2 Chamber or 4 Chamber Ejection Fraction available with or without ECG.

EF results in just 1 click

Easy AFI LV with View Recognition

Our AI-based global and segmental strain measurements require no manual interaction apart from initiating the tool and approving the results. Additionally, you will be able to view EF measurements.

EF and strain results in 15 seconds (on average)

> " The Vivid AI-based measurements and view recognition help me complete my exams faster, without compromising quality of care.
>
> The quality of my echo exams is the most important thing but time saving is also critical in our tight schedule. Saving a few minutes from each exam, the patients in our waiting room wouldn't need to get antsy about waiting too long. And I would have time for a cup of coffee between exams!"

– Olidia Perez
  Sonographer
  Essen Medical, NYC, USA

EchoPAC Connect†

Connect† from anywhere,[14] at any time, to any console.[15]

Connect from anywhere[14]

EchoPAC Connect† provides you with the flexibility you need to accommodate to the unique way you work, whether your department is equipped with GE HealthCare ViewPoint™ 6 server, Centricity™ PACS, or any 3rd party PACS vendor.[15] Perform your measurements & diagnosis – using both 2D & 3D images – on site or remotely, with the same excellent quality as on your acquisition consoles.

Multi-vendor[16]

With EchoPAC Connect,† you can enjoy a wide spectrum of 2D & 3D Vivid applications, from standard to most advanced measurements, regardless of which console was used to acquire your patients' images.

Enjoy the proven robustness of AFI LV, or exceptional GE HealthCare 4D measurement applications like TVQ (Tricuspid Valve Quantification) usable on all images acquired in your department, from both, Vivid systems and non-GE HealthCare consoles.[16]

The power of EchoPAC

EchoPAC Connect† benefits from the latest AI-based technology introduced on Vivid Ultra Edition,† aimed to reduce tedious tasks and improve workflow efficiency.

Obtain measurements in 1 simple click with Easy AutoEF and Easy AFI LV. **Measurements can be obtained in less than 15 seconds.[7]**

Reduce tedious tasks of most common exams with AI Auto Measure Spectrum Recognition and AI Auto Measure 2D, and minimize the number of clicks needed to acquire standard measurements.[11]

Seamless workflow integration

EchoPAC Connect† provides you with a seamless workflow experience thanks to a centralized server installation and DICOM® server, which automatically transfers data from all acquisition system,[15] whatever the brand, directly to your EchoPAC Connect.†

So, whether your department is equipped with a GE HealthCare ViewPoint server, Centricity PACS or any 3rd party PACS,[15] the seamless integration of EchoPAC Connect† will simplify your everyday workflow. Dongle-free. Peace of mind. Your EchoPAC Connect† is available at any time, from any computer, from anywhere, without the need to use dongle.

"
The new Easy AFI LV speeds up strain measurements and simultaneously provides an automated LV ejection fraction measurement. Once good standard views are acquired, the strain algorithm enables incredibly robust measurements!"

– **Prof. Erwan Donal**
Cardiologist
University Hospital Center, Rennes, France

"
I am amazed by the measurements you can perform on EchoPAC after the patient has left!"

– **Dr. Lamin E.S. Jaiteh**
Consultant Cardiologist & Lecturer in Cardiology Department of Internal Medicine
Edward Francis Small Teaching Hospital/School of Medicine & Allied Health Sciences,
University of the Gambia

Your skills. Our support.

In the core echo lab and even beyond cardiology, smart applications support your know-how.
The Ultra Edition applications highlighted **in bold are referent to our latest release.**

Visualization
and navigation

	Ultra Edition
Curved Anatomical M-Mode	**Pre-Post Compare**
Smart Stress	Scan Coach
LVO Contrast	
Blood Flow Imaging	

Flow
Quantification

	Ultra Edition
Cardiac Auto Doppler AI	AI Auto Measure Spectrum Recognition AI

AFI Functional
Imaging

	Ultra Edition
	Easy AFI LV AI

Chamber
Quantification

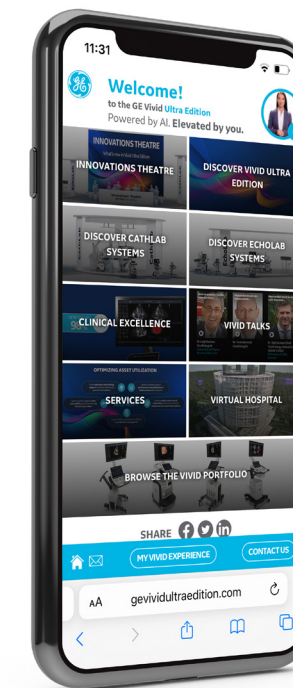|	**Ultra Edition**
Z-Scores	**Easy AutoEF** AI
	AI Auto Measure 2D AI

Your community. Our collaboration.

Vivid is much more than just a system. Make the most of your Vivid experience with our community resources and learning opportunities.

www.gehealthcare.com

On our website you will find content available to the general public with top industry Key Opinion Leaders, Learning Academy on Strain including Whitepapers and Case Studies.

Vivid Talks
Our "Meet the Expert" sessions (Vivid Talks) on wide-ranging subjects from EchoLab to Interventional.

Strain Learning Academy
Our Learning Academy is dedicated to supporting the industry in advancing strain measurement adoption.

60%
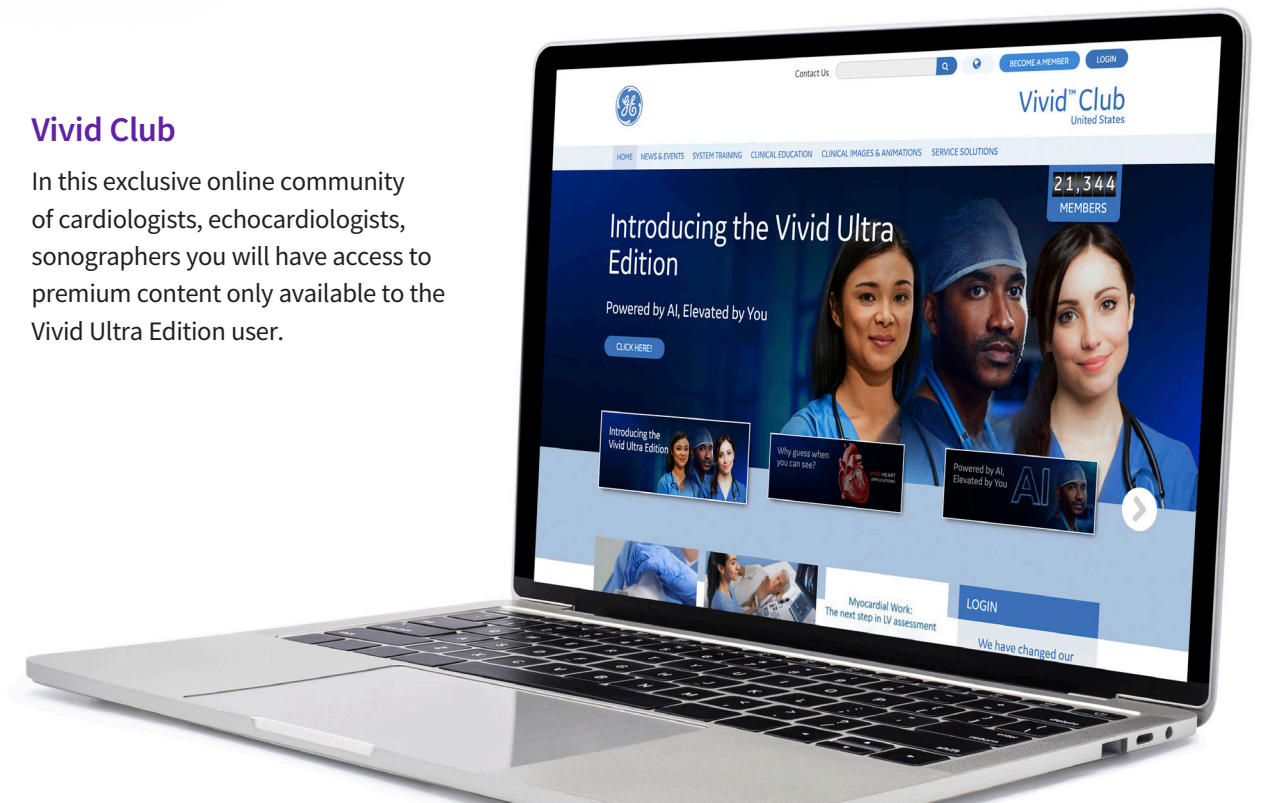of all strain measurement clinical research publications has been done on a GE HealthCare device.[17]

Whitepapers & Case Studies
The latest Whitepapers and Case Studies presented by the field experts.
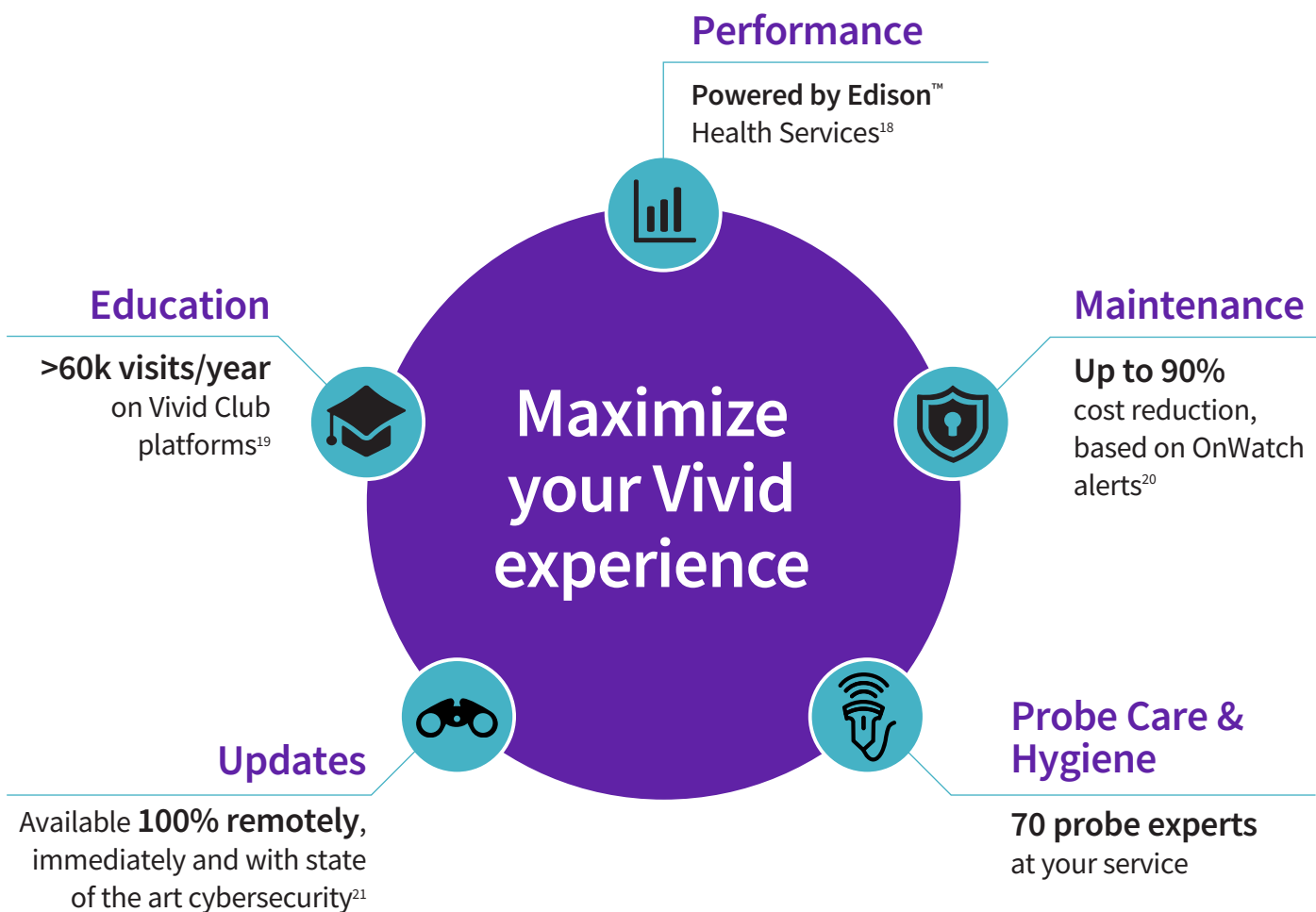
Vivid Club

In this exclusive online community of cardiologists, echocardiologists, sonographers you will have access to premium content only available to the Vivid Ultra Edition user.

Outperform today.
Prepare for tomorrow.

Maximize the Vivid lifecycle experience while minimizing your total cost of ownership.

Performance

Powered by Edison™
Health Services[18]

Education

>60k visits/year
on Vivid Club
platforms[19]

Maintenance

Up to 90%
cost reduction,
based on OnWatch
alerts[20]

Maximize your Vivid experience

Updates

Available **100% remotely**,
immediately and with state
of the art cybersecurity[21]

Probe Care & Hygiene

70 probe experts
at your service

> " *The implementation of Imaging Insights/Ultrasound Excellence in my biomedical unit for the cardiology and gynecology departments ultrasound equipment has opened the door to better utilization of my systems and distribution of activity, all of which has allowed me to improve our operational efficiencies, cost investment and service to patients.*"

– Mrs Valérie Boissart
Head of Biomedical Engineering Department
Luxembourg Hospital Center

Digital Expert/STAR**

Digital Expert (and STAR) provides an interactive, real-time, flexible & convenient way to get education and support.[22]

Live exchange with peers

Automated, Remote SW Downloads

Get automated software updates along with safety patches enabled by remote software download. Your system stays up-to-date, making it more reliable.

Updates 24/7[21]

SonoDefense

SonoDefense is GE HealthCare's six-layer strategic approach to cybersecurity and patient data privacy for ultrasound.

Advanced cybersecurity & data privacy protection

Imaging Insights

Imaging Insights is an Edison™ application that combines analytics and coaching to help ultrasound management teams to optimize clinical and operational performance.

Operational Performance

References:

* Ultra Edition is not a product name, it refers to the 2022 release of the Vivid portfolio.

** Only available in the US.

1. World Health Organisation | https://www.who.int/news-room/fact-sheets/detail cardiovascular-diseases-(cvds).

2. Laxmi S. Mehta et.al. | Clinician Well-Being. Addressing Global Needs for Improvements in the Health Care Field | Journal Of The American College Of Cardiology Vol. 78, No. 7, 2021.

3. Moien AB Khan et.al. | Global Epidemiology of Ischemic Heart Disease: Results from the Global Burden of Disease Study | https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7384703/.

4. Stephanie David | Importance of Sonographers Reporting Work-Related Musculoskeletal Injury: A Qualitative View | JDMS 21:234–237 May/June 2005 https://journals.sagepub.com/doi/pdf/10.1177/8756479305274463.

5. 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.

6. World Health Organization | A universal truth: no health without a workforce. Nov 2013. https://www.bmj.com/content/347/bmj.f6804.

7. Time to strain measurement result may vary with heart rate, frame rate and Vivid system. Verification of performance done by GEHC clinical application specialists using Vivid system (DOC2739637).

8. Easy AutoEF is restricted for use with adult TTE on GE Healthcare raw B-mode data loops of the LV. Easy AutoEF does not support left ventricles with septal bulge.

9. Please contact your sales representative for more information.

10. 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.

11. The Role of AI in Streamlining Echocardiography Quantification White Paper, Kristin McLeod and Jurica Sprem - JB20789XX.

12. 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.

13. Nicholas M. Orme et.al. | Occupational musculoskeletal pain in cardiac sonographers compared to peer employees: a multisite cross- sectional study | https://onlinelibrary.wiley.com/doi/10.1111/echo.13344.

14. For diagnostic use, in citrix environment using Hospital IT network.

15. Enabled by ViewPoint 6 Desktop integration.

16. EchoPAC Plug-in provides basic and advanced viewing and quantitative analysis capabilities for 2D, 4D and multi-dimensional ultrasound parametric images from the GE HealthCare Vivid™ family of scanners, DICOM® images and 3D/4D from multi-vendor ultrasound fleet.

17. Whitepaper "AFI - strain imaging from research to clinical routine"- JB16411XX.

18. Imaging Insights is an Edison™ application.

19. GE internal data - Website analytics from January 2021 to December 2021.

20. GE internal data.

21. Based on Software eDelivery Software installed.

22. Digital Expert is only offered in the USA. Digital Expert is not a functionality provided by Vivid systems. Digital Expert is separate from Vivid systems and is for education and training purposed only.

About GE HealthCare

GE HealthCare is a leading global medical technology, pharmaceutical diagnostics, and digital solutions innovator, dedicated to providing integrated solutions, services, and data analytics to make hospitals more efficient, clinicians more effective, therapies more precise, and patients healthier and happier. Serving patients and providers for more than 100 years, GE HealthCare is advancing personalized, connected, and compassionate care, while simplifying the patient's journey across the care pathway. Together our Imaging, Ultrasound, Patient Care Solutions, and Pharmaceutical Diagnostics businesses help improve patient care from prevention and screening, to diagnosis, treatment, therapy, and monitoring. We are an $18 billion business with 51,000 employees working to create a world where healthcare has no limits.

Follow us on Facebook, LinkedIn, Twitter, Instagram and Insights for the latest news, or visit our website gehealthcare.com for more information.

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