

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

17MILLION

people died from cardiovascular diseases (CVD) in 2019¹

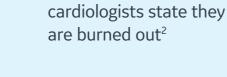


increase in Ischemic Heart Disease (IHD) alone by 2030³



108 MILLION

annual echo exams performed globally⁵



500

of sonographers are leaving the profession or taking premature retirement⁴



shortage of health workers is **set to double**⁶

YOU CAN RELY ON US.

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

YOUR PATIENTS RELY ON YOU

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 T9 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.

Vivid T9 Ultra Edition | 2

PIONEERING INNOVATION

YOUR EXPERTISE. OUR INNOVATIONS.

Building on a history of advancements of cardiac patient care, GE 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.

2014

- AutoEF, AFI
- Shared services
- Scan Assist Pro
- 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

- Al Auto Measure (2D & Spectrum Recognition)
- AFI 3.0 & Auto EF 3.0
- AFI RV
- AFI LA eDelivery



VIVID T9 ULTRA EDITION

Designed for your busy practice.

Vivid T9 Ultra Edition* provides reliable and ergonomic design, powered with AI applications for extreme productivity without compromising quality of care.

EXTENDED WARRANTY

LATEST INNOVATIONS



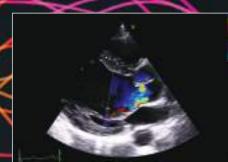
Strain measurements in just 15 seconds (on average) - with Easy AFI LV.





Ejection Fraction and Automatic Region of Interest definition with only 1 click - with Easy AutoEF8.





Superb image quality and ultra-wide bandwidth with M5Sc-RS XDclear™



MODERN ERGONOMICS

Adjustable to each operator standing and sitting position

- · Articulating monitor arm
- Single-hand push for up/down and left-right adjustment
- Ergonomic transport push handle

Excellent operator interface

- 21.5" ultra-high-resolution, wide format, color LCD screen
- 10.1" high-resolution touch panel
- Integrated alphanumeric keyboard
- Silent system (average 31dB noise level)

Compact & easy to maneuver

- Only 60 kg/132 lbs
- Instant scan from Standby mode

of echo exams result in sub-optimal images¹⁰

YOUR VISION. OUR SUPERB IMAGES.

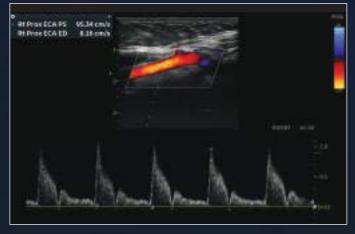
The diagnoses and treatment plans for your patients require a clear picture of their condition. With so much riding on the image, it has to be the best possible quality.

LATEST INNOVATIONS



Penetration QuickApp Helps improve visibility

Optimize penetration in technically difficult studies with one click.



L4-20t-RS Single Crystal Linear Probe Beautifully clear vascular imaging

Four configurable control buttons allow you to ergonomically position yourself at the bedside, performing essential functions such as Freeze, Store, mode switch, among other functions, away from the scanner.



Benefit from a wide range of clinical applications and image quality improvements for your cardiovascular practice.



- **Dr. Angela López Sainz** Cardiologist Hospital Clinic in Barcelona



of cardiac sonographers miss work due to pain¹³

YOUR TIME, OUR WORKFLOW TOOLS.

Vivid T9 Ultra Edition introduces the latest AI-based technology to help reduce tedious tasks and improve workflow efficiency.

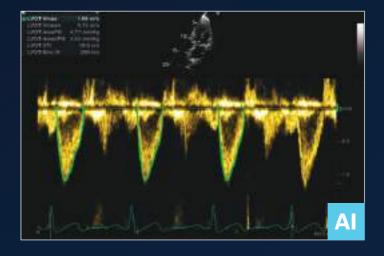
Al Auto Measure 2D

With the power of AI, a full set of reproducible measurements will instantly appear on the screen.









Cardiac Auto Doppler with Al 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.



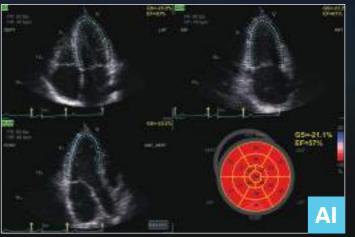
LATEST INNOVATIONS



Easy AutoEF

Our Al-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





Easy AFI LV with View Recognition

Our Al-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 T9 Ultra Edition AI-based automated measurements help my staff complete a standard echo exam faster, and with less variability. The new Penetration button on the touch screen helps give the sonographers the extra boost we often need with challenging imaging windows. As a busy private cardiology practice, we appreciate having these advanced options available on an affordable cardiovascular ultrasound system"

- Dr. Adurthy Ananth Shankar, MD Director Cardiovascular division Essen Healthcare, New-York, USA

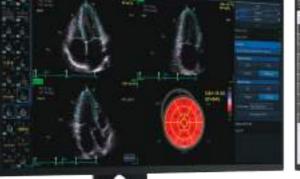
Vivid T9 Ultra Edition | 8 Vivid T9 Ultra Edition | 9

ECHOPAC

YOUR FLEET. OUR SOLUTION.

Patient care doesn't end when the exam is over. Upgrade to EchoPAC™ to optimize your patient time and your post-processing time.







STATE-OF-THE-ART ACCURACY

Full access to all Vivid scanner tools:

- From the most used AI-Powered ones on routine measurements: Easy AFI LV, Easy AutoEF and Auto Doppler Spectrum Recognition
- To the most advanced ones: Myocardial Work is a unique tool using less load dependent parameters than strain alone

COMFORTABLE EXPERIENCE

- Familiar Vivid user interface, faster staff ramp-up
- Analyzing and reporting from the ergonomic comfort of a workstation
- More focus on patient at acquisition

Maximize your entire fleet return on investment

- Transcend your machine performance: regardless of vendor, regardless of machine age, get all the latest Vivid tools
- Save time: get EchoPAC to free-up scanner time and perform your daily analysis off-line including LV quantifications doppler and functior assessment

EchoPAC exists as **EchoPAC Software Only** and **EchoPAC Plug-in**

EchoPAC Plug-in is available for:

- GE Healthcare Centricity™ Cardio Enterprise with Intelligent Reporting (IR)
- GE Healthcare ViewPoint™ 6 with EchoPAC Suite¹⁴
- As a Plug-in to third party PACS.

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

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VIVID CLINICAL APPLICATIONS

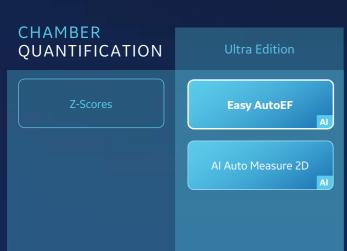
YOUR SKILLS. OUR SUPPORT.

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.









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/products/ultrasound/vivid

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 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.

of all strain measurement clinical research publications has been done on a GE device¹⁵.



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.



TOTAL COST OF OWNERSHIP

OUTPERFORM TODAY. PREPARE FOR TOMORROW.

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

Performance Powered by Edison™ Health Services¹⁶ **Education** >60k visits/year on Vivid Club MAXIMIZE platforms¹⁷ YOUR VIVID **EXPERIENCE Updates** Available 100%

Maintenance

Up to 90% cost reduction, based on OnWatch alerts18

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 provides an interactive, real-time, flexible & convenient way to get education and



Live exchange with peers

SONODEFENSE

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



Advanced cybersecurity & data privacy protection

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 24/719

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

remotely, immediately

and with state of the art

cybersecurity¹⁹

About GE Healthcare:

GE Healthcare is the \$18 billion healthcare business of GE (NYSE: GE). As 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.

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

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
- $3.\ Moien\ AB\ Khan\ et.al.\ |\ Global\ Epidemiology\ of\ Ischemic\ Heart\ Disease:\ Results\ from\ the\ Global\ Burden\ of\ Disease\ Study\ |\ https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7384703$
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- 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 AI (Spread of AI) and AI (Sp
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- 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. EchoPAC Suite is the marketing name for EchoPAC Plug-in
- 15. Whitepaper "AFI strain imaging from research to clinical routine" JB16411XX
- 16. Imaging Insights is an Edison™ application
- 17. GE internal data Website analytics from January 2021 to December 2021
- 18. GE internal data
- 19. Based on Software eDelivery Software installed
- 20. 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



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Association for its standards publications relating to digital communications of

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