

YOUR PATIENTS RELY ON YOU.

YOU CAN RELY ON **US**.

Vivid in the EchoLab

ULTRA EDITION





people died from CVDs in 2019¹



increase in Ischemic Heart Disease (IHD) alone by 2030³



annual echo exams performed globally⁵



cardiologists state they are burned out²



of sonographers are leaving the profession or taking premature retirement⁴



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

CARDIOLOGY STAFF WORKLOAD PRESSURE IS AT AN ALL TIME HIGH.

As the incidence of cardiac heart disease and global population's access to healthcare increases, there has never been a bigger demand of healthcare workers.

However, the repetitive scanning movements associated with an increasing number of echo exams performed as well as an exodus of the healthcare profession, not replaced with enough new cardiology staff has meant an additional burden on the current heart teams.

DISCOVER THE IMAGE QUALITY AND AUTOMATION IMPROVEMENTS IN THE LATEST

Vivid Ultra Edition*



RELY ON US FOR BREAKTHROUGH IMAGE QUALITY DEVELOPMENT

With the renowned superb image quality from cSound™, now Vivid Ultra Edition goes a step further with the launch of cSound ADAPT for the 4Vc-D probe.





Ultrasound waves are distorted by different patients' habitus. Inhomogeneities in body structure (made of very different speed-of-sounds, such as bone or tissue) cause image quality degradation.

cSound ADAPT was built and verified on 40.000 frames of channel data recordings.

RELY ON US FOR RELENTLESS SEARCH FOR IMAGE QUALITY **IMPROVEMENTS**



more graphics processing power⁹



FlexiLight

Rendering technique for photo-realistic light-source based illumination of heart structures, providing comprehensive visualization of cardiac structures.

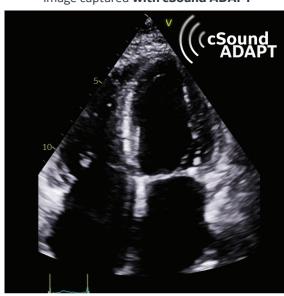
of echo exams result in sub-optimal images⁷

With the objective of improving the scanning experience on hard-to-scan patients, cSound ADAPT8 was developed to correct ultrasound aberrations that may degrade image quality. cSound™ ADAPT tackles the challenge of ultrasound wave distortions, you will enjoy improved image contrast and resolution - optimized in real time, at over 100 times per second, in every patient8.

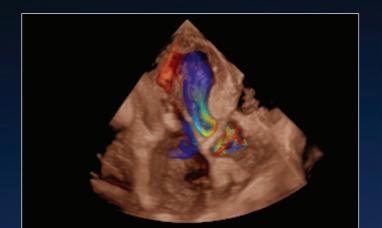
Image captured without cSound ADAPT



Image captured with cSound ADAPT

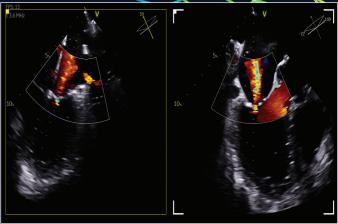


cSound rectifies image distortions for enhanced image quality.



HD Color

New 4D color flow rendering technique for semi-transparent visualization of origin and size of high velocity jets, enhancing spatial resolution between flow and surrounding structures.



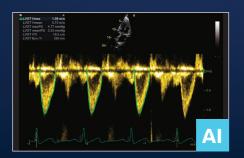
Color Flow

The improved graphics processing power enables improved spatial and temporal resolution for uncompromised color flow.

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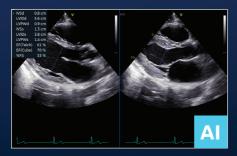
RELY ON ROBUST ARTIFICIAL INTELLIGENCE TO IMPROVE WORKFLOW

With a range of automated measurements including chamber, flow and strain quantification, the Vivid Ultra Edition brings you further automation to **reduce cumbersome multi-click tasks.**



Cardiac Auto Doppler

Semi-automatic cardiac auto doppler measurements. And with Al Auto Measure Spectrum Recognition" you can select the appropriate spectrum automation.

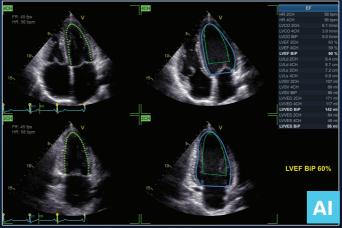


Al Auto Measure 2D

Semi-automatic LV dimension measurements (2D Calipers).



of cardiac sonographers miss work due to pain¹⁰



Easy AutoEF11

Biplane left ventricular ejection fraction, in one single click. With Al-based Auto ROI detection algorithm, Easy Auto EF saves time and decreases intra- and inter-observer variability. Also, if no ECG signal is available, requires minimal additional user interaction.



Easy AFI LV

AFI LV analysis in one single click.
Our AI-based Auto ROI detection
algorithm allows users to complete
the AFI workflow with minimal manual
interaction to save time and decrease
intra- and inter-observer variability.



RELY ON US TO SUPPORT YOUR TEAM'S TRAINING



Vivid systems come with a variety of education offerings, including:

In-person training

- Onsite Application Trainings (at installation)
- Vivid Live Instructor Led Class (2-day training)13

Virtual learning at:

- Vivid Learning Academy available to all on the Vivid website
- Vivid Club exclusive digital content for Vivid users
- Digital Expert an innovative platform providing interactive and real-time education and support, including clinician-to-clinician communication¹²

ECHOPAC™ - POST PROCESSING & REPORTING

Fast workflow

Fully integrated and featuring Open4D to assess & quantify 3D volumes from multivendor equipment fleets

Comfortable experience

Familiar interface with ergonomic comfort

State-of-the-art **accuracy**

Full access to all Vivid tools – from Al-simplified routine measurements to the most advanced ones (MyoCardial Work)

RELY ON US TO KEEP DRIVING STRAIN MEASUREMENT ADOPTION

The Vivid experience includes:

- Built-in continuous research findings in the field of strain
- Dedicated resources (such as the Strain Learning Academy) developed with Key Opinion Leaders to drive strain knowledge and adoption



60%

of research publications in strain use GE Healthcare technology. 15





Upgrade your ultrasound experience with **EchoPAC** today.

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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.
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- 8. cSound Adapt: Continuous beamforming optimization, adapting to patient anatomy and probe position whitepaper - JB20851XX. cSound Adapt is exclusively available for Vivid E95 and Vivid E90
- 9. 3,5 times more processing power claim refers to the 2022 release of the Vivid portfolio. This Graphic Processing Unit is exclusively available for Vivid E95.
- 10. Nicholas M. Orme et.al. | Echocardiography 2016 | https://onlinelibrary.wiley.com/doi/10.1111/echo.13344
- 12. Easy AutoEF is restricted for use with adult TTE on GE Healthcare raw B-mode data loops of the LV. Easy Auto EF does not support left ventricles with septal bulge.
- 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)
- 14. Not available in all markets. Please refer to your GE sales representative
- 15. 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
- 16. Whitepaper "AFI strain imaging from research to clinical routine" JB16411XX



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

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