



GE HealthCare

Vivid™ Pioneer

Discover the extraordinary





Vivid Pioneer Interventional

Vivid Pioneer

Vivid Pioneer 2D

Discover the extraordinary

Discover Vivid Pioneer

The ultra-premium, next generation Vivid Pioneer platform is your gateway to more capabilities and confidence—without compromise. Navigate the heart in extraordinary detail and uncover critical insights with more ease, propelled by cSound™ Pioneer, our most powerful engine yet.

Experience one-click optimization tools and proven AI and automation, that support accuracy, help reduce inter-operator variability, and minimize repetitive tasks, for more consistency and faster workflows.¹

Unlock freedom and flexibility with Vivid Pioneer's design. The lightweight, compact system is highly portable, and its simplified user interface allows for intuitive interactions, ensuring a seamless workflow.

Manage your most challenging cases with the Vivid Pioneer cardiovascular ultrasound system, designed to deliver state-of-the-art performance wherever your journey leads you.

“The latest Vivid Pioneer brings unparalleled clarity in 2D and particularly 4D, and color flow imaging. For me, the game changers are: Truly anatomic 4D imaging and automated quantitative tools with improved border detection.”

– Assoc. Prof. Denisa Muraru, MD, PhD, FESC, FACC, FASE²
EACVI President – Elect. EACVI National Societies Committee Chair
Head of Heart Valve Clinic, Auxologico IRCCS, Milan, Italy

“I’d describe Vivid Pioneer as forward-thinking innovation. I was blown away by the image quality and ease to get that quality. Wow, it’s like a whole other world. I didn’t realize it could be this good and what I’ve been missing.”

– Amy Dillenbeck, MS, ACS, RDCS, RCS, FASE³
Director & Instructor at the School of Health Professions Cardiac Ultrasound Program
at the Cleveland Clinic in Ohio



Extraordinary image
clarity and precision



Extraordinary productivity
and performance



Extraordinary user
experience

Discover extraordinary clarity and detail

Designed to take you further, next-generation cSound Pioneer works in harmony with our sophisticated probe technology


Consistency you can count on

Built on our unique XDclear™ technology, the **4Vc-D probe** features an exceptionally high element count in the cardiovascular ultrasound industry, this, combined with the cSound architecture, has proven to deliver excellent image quality in 4D, 2D, Color Flow, and Doppler.


Introducing a powerful option for a wide range of patients

Built for your everyday challenges, cSound Pioneer’s high resolution combines the deep penetration capabilities of the **6Sc-D probe**⁴ to enhance 2D visualization across a wide range of patients, from pediatrics to adults. Its elongated footprint and tip design improve intercostal access, making it ideal for adults with tight ribs or small body habitus.




 **Sharp images**

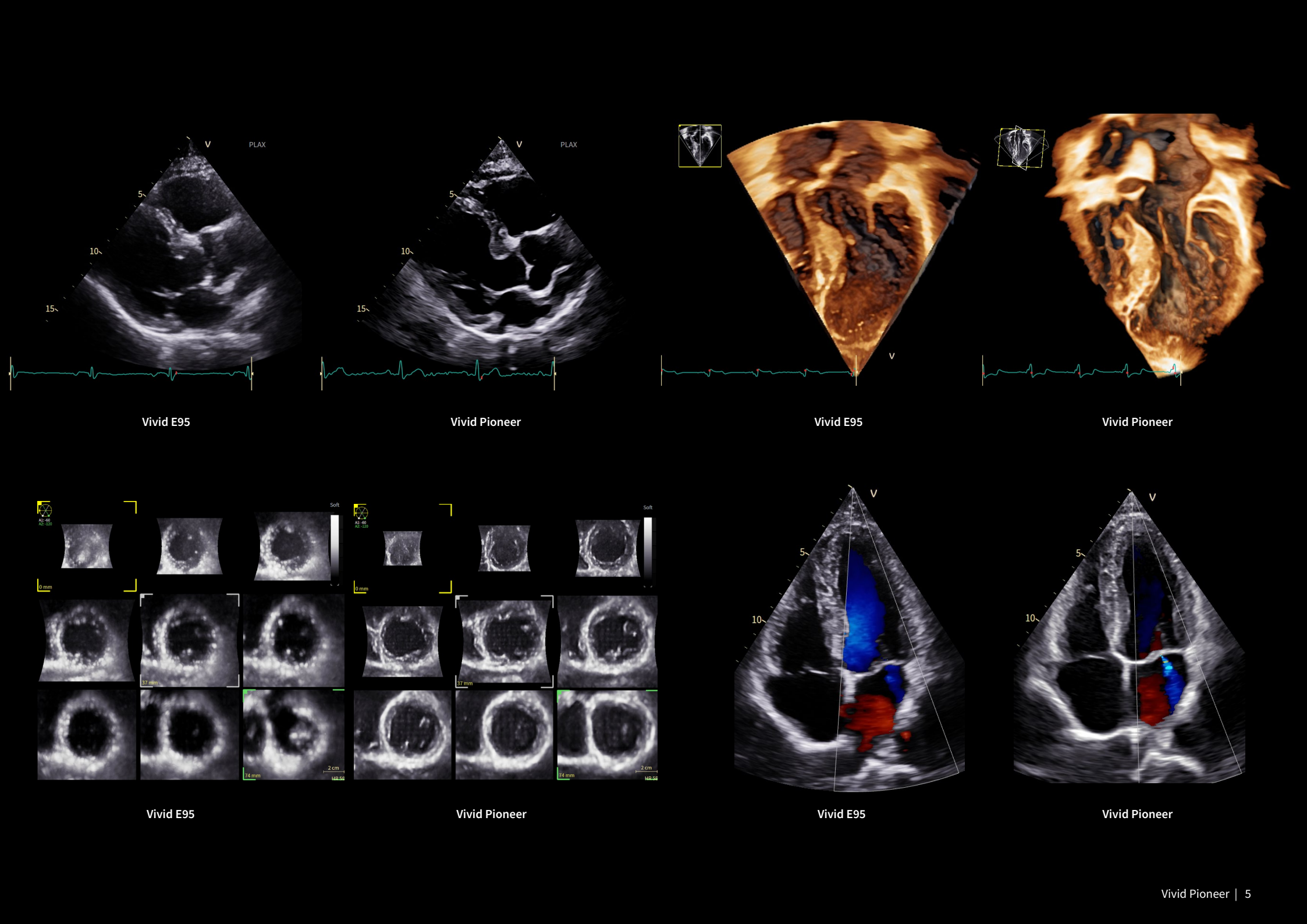
Easily identify small anatomical structures, such as valves leaflets, with highly detailed 2D and 4D imaging for confident decision making.

 **Precise images – first scan**

Achieve a new level of precision to clearly see the delineation of the myocardial wall from the first scan—out-of-the-box, even in challenging patients, to confidently assess ventricular function.

 **Instant color clarity**

Assess paravalvular leaks and detect valvular issues using advanced Color Flow technology, leading to confident decision-making with enhanced clarity.



Introducing cSound Pioneer ultra premium image platform. Delivering enhanced detail, a new level of Color Flow, and incredible 4D imaging for clinical confidence from the first scan.

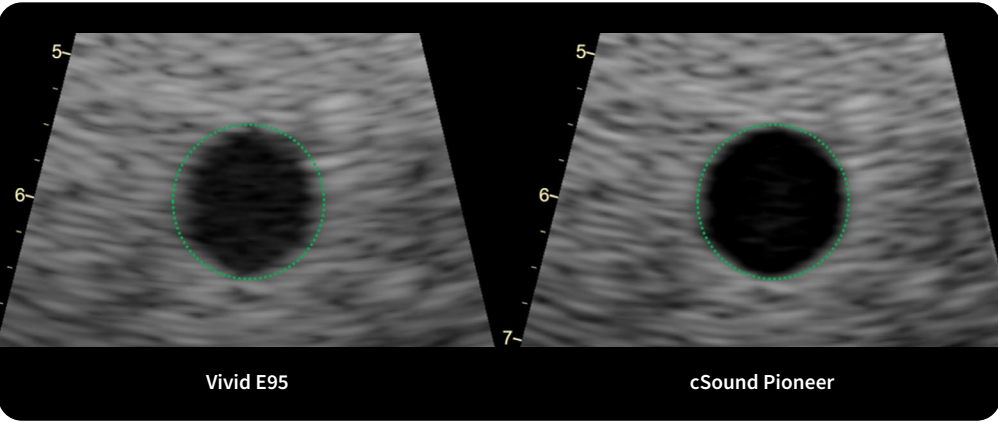
The challenge

The spatial resolution of ultrasound imaging is inherently limited, which leads to blurring and reduces the ability to distinguish closely spaced structures.

In fluid-filled regions, such as cardiac chambers, this also causes signals from surrounding tissue to spill into the dark, echo-free areas, making these regions appear smaller than they are.

The solution – cSound Pioneer

Corrects the inherent focusing limitation of ultrasound image formation, and sharpens fine structures and boundaries while reducing speckle and graininess for a cleaner, more detailed image.



Green Circles – True fluid-filled area (ground truth)

The cSound Pioneer engine⁵

Larger

dynamic range for enhanced contrast resolution and better visualization.

70%

more power for advanced image processing and visualization.

Compared to cSound ADAPT on Vivid E95 v206.

Up to 2x

data throughput from analog frontend to digital beamformer, enabling higher temporal and spatial resolution.

360%

faster AI performance accelerating automation and measurement consistency.

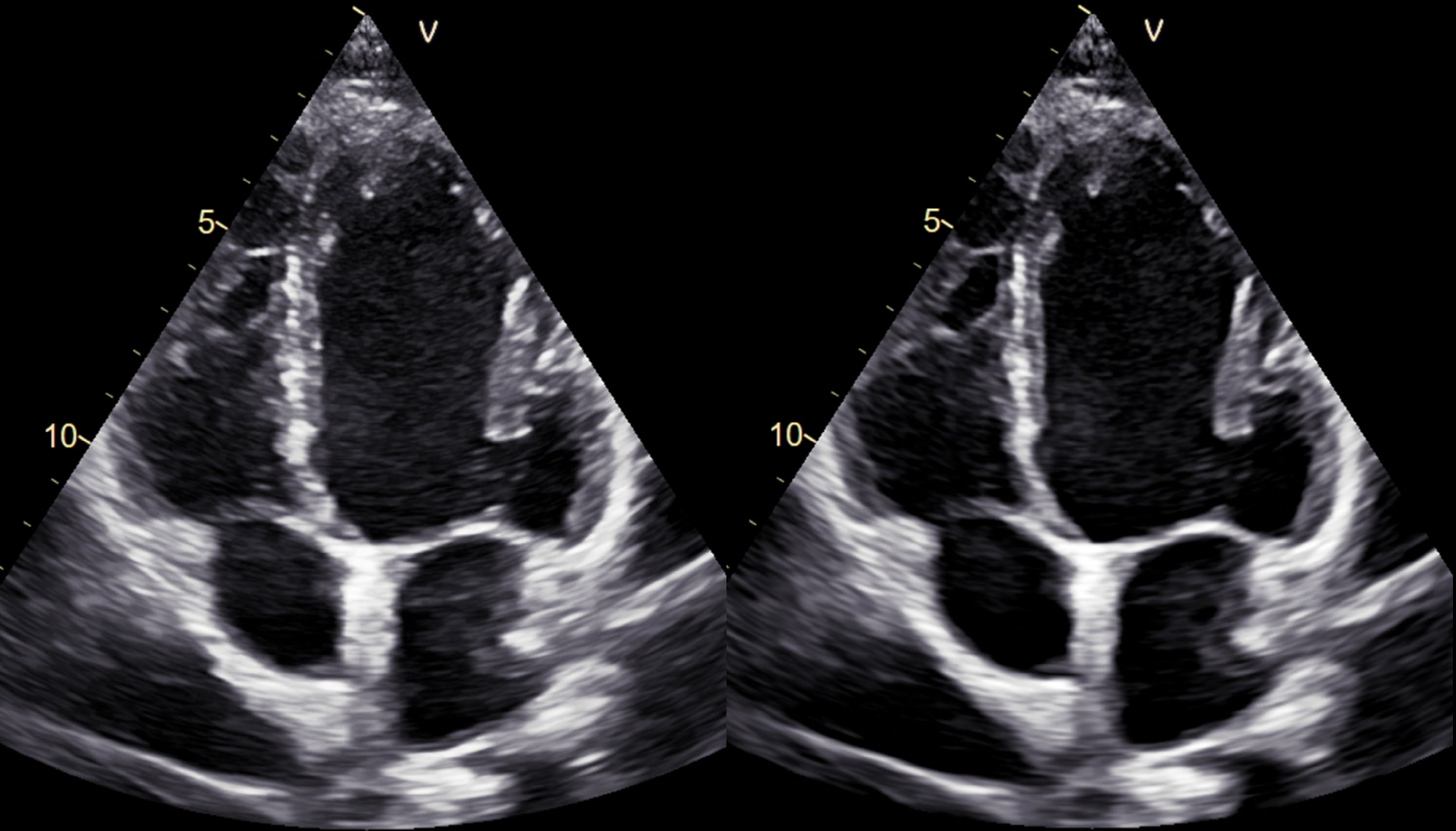
What users say⁶

86%

agree Vivid Pioneer provides overall extraordinary image detail.

90%

rated heart structures easy to identify with Vivid Pioneer.



Vivid E95

Vivid Pioneer

Visit our GE HealthCare website to explore the image quality you can achieve with Vivid Pioneer



Explore a new world of color and definition

cSound Pioneer: Instantly assess valvular regurgitation or stenosis

Advance diagnostics with our next-generation **Color Flow** technology—designed to provide quick, accurate insights to reveal the details that matter most. **cSound Pioneer** powers enhanced sensitivity and spatial resolution, offering a sharper, more precise view of blood flow and jets origins, while differentiating tissue from cavity. Explore every detail with confidence, guiding you towards more informed decisions.

“The 3D Color Doppler performance on the Vivid Pioneer is remarkable for both transthoracic and transesophageal acquisitions.”

– Luigi P. Badano, MD, PhD, FESC, FACC
Honorary Fellow ASE, EACVI and BSE²
Professor of Cardiovascular Medicine,
University of Milano-Bicocca

Go beyond standard Color Flow

Radiantflow™ delivers easy, fast visualization of blood flow with a 3D-like appearance of 2D Color Flow, improving differentiation of leaks and facilitating the detection of low flow regurgitation in adults, as well as the early assessment of congenital heart diseases (CHD) such as ventricular septal defects (VSD).

Reveal inner structures with exceptional clarity

Silhouette, a visualization mode, applies targeted transparency to make blood-to-tissue boundaries clearly delineated, even when surrounded by adjacent tissue. The tool is especially helpful in pediatric patients, where having a clear view of complex anatomy is crucial for accurate planning and assessing procedural outcomes.

Unlock the hidden details of 4D flow

HD Color, 4D Color Flow rendering technique for semi-transparent visualization of origin and size of high velocity jets. Enhance spatial relationships between flow and the surrounding structures, while filtering out non-diagnostic signals.

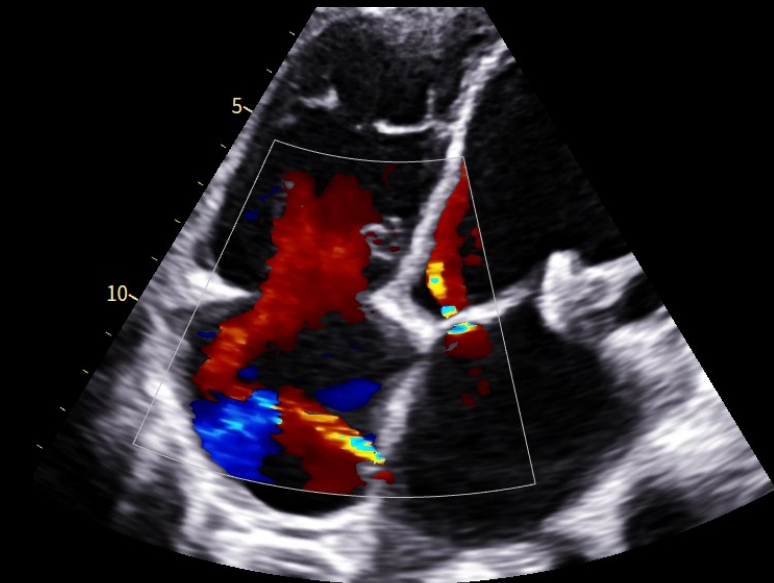
86%

of users rated it easier to identify valvular pathologies with Vivid Pioneer.⁶

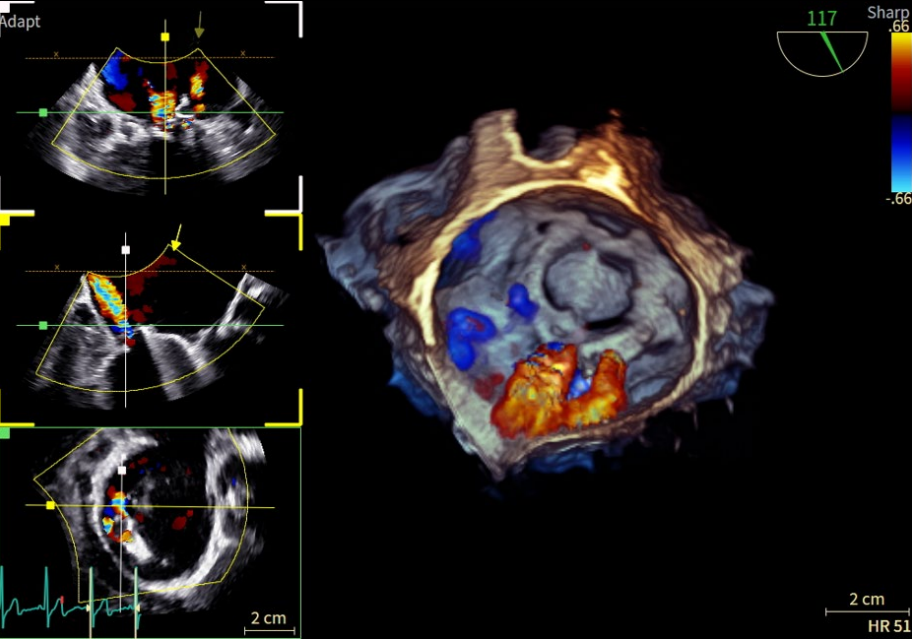
90%

of users think Vivid Pioneer could increase confidence in screening for procedures.⁶

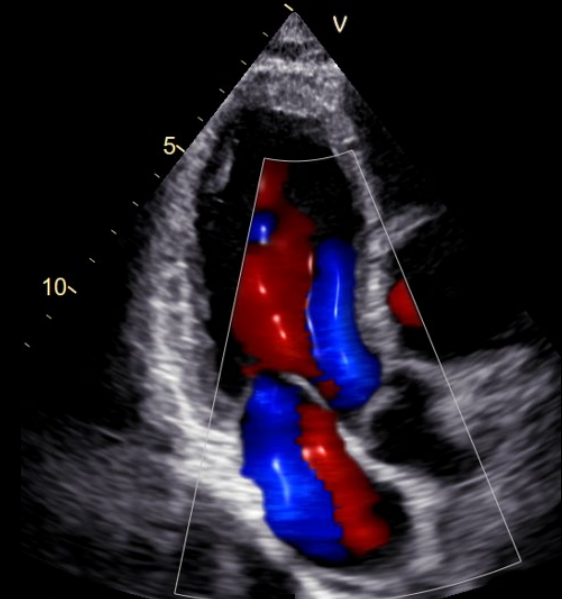
Color Flow imaging of ASD and Mitral regurgitation



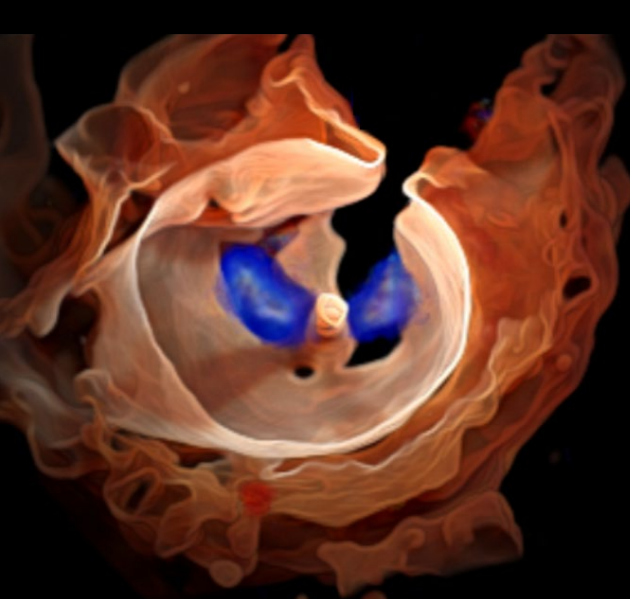
Surgical Valve in Mitral position with Paravalvular Leak



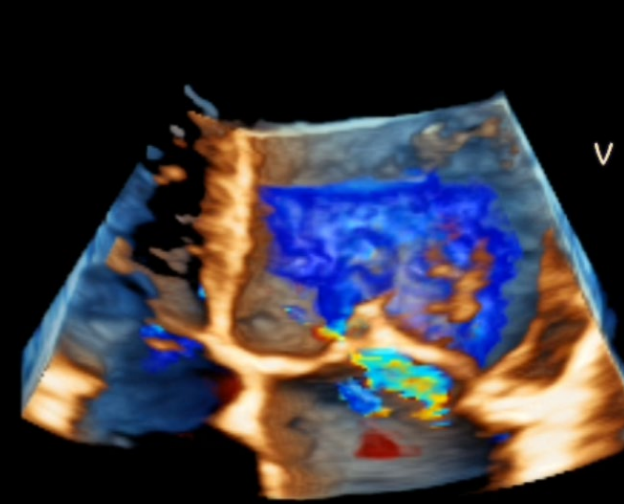
Radiantflow



Silhouette with Color Flow



HDlive™ with Color Flow




Discover extraordinary performance and productivity

Conquer your most demanding workflows

With outstanding image quality that sharpens borders, boosts clarity, and enhances definition between structures, Vivid Pioneer forms the foundation for AI-driven insights you can trust. Simplify and streamline measurements and quantification with automated tools, and rely on artificial intelligence that supports consistent, reliable results across users.


The optimized workflow is designed to minimize tedious tasks and reduce ergonomic strain, freeing you to focus on patients and advancing the boundaries of cardiac care.

Powered by AI and Automation




Effortless scanning

cSound Pioneer auto-adjusts gain in real time, optimizing image quality with minimal manual input.




Accurate insights

Achieve precise and reliable results across patients with proven AI-powered tools, like AI Cardiac Auto Doppler.



Standardized results

Vivid Pioneer's AI algorithms help decrease intra- and inter-operator variability, leading to reliable and standardized results¹ regardless of the user's level of experience.⁷



Automatically faster


Reduce time spent on tedious tasks and boost workflow efficiency with reliable 1-click, AI powered measurements.

Vivid Pioneer marks a breakthrough by introducing artificial intelligence to 4D navigation, potentially making Left Atrial Appendage (LAA) workflows faster and more intuitive.

Artificial Intelligence & Automation

With a single click, **AI Flexiviews LAA** delivers AI-driven 4D visualization of the LAA. Trained to detect the LAA in 2D ultrasound data, its advanced algorithm instantly generates a 4D enface view and provides immediate access to FlexiSlice views for LAA assessment with minimal manual adjustments.

Once the LAA orifice is positioned for measurement, the LAA sizing tool enables semi-automated tracing that snaps to the most prominent anatomical boundaries defined by the operator, to quickly measure the landing zone.⁸ Subsequently, the **LAA device compression tool** simplifies the evaluation of compression tests. All the measurements are included in a worksheet and in the study report.

 This suite of LAA tools helps enable a comprehensive and streamlined procedural workflow from start to finish.

10 | Vivid Pioneer

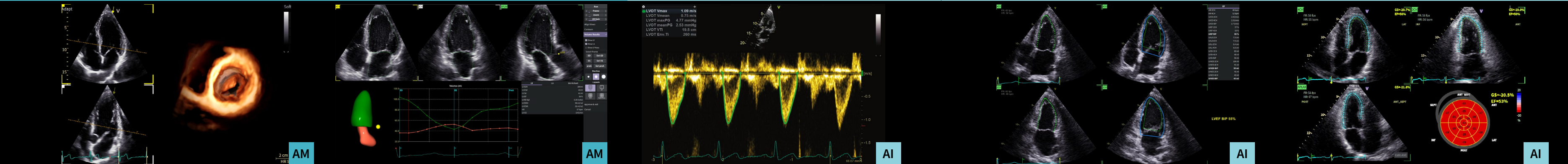
Vivid Pioneer | 11

Routine measurements

Whether you need fundamental tools or advanced AI technology Vivid Pioneer adapts to support your workflow and enhance cardiac care.

Automation

Artificial Intelligence



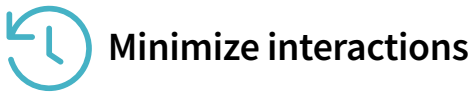
Discover instant clarity with cSound Pioneer automatic image optimization

Engineered for seamless use by both new and experienced users⁷ across all patient types, **cSound Pioneer** delivers exceptional image quality automatically, sharpening details, and enhancing borders, to support operators by minimizing image acquisition variability.

77% of users agree Vivid Pioneer delivers excellent 4D images out of the box.⁶

Effortlessly perform a 4D assessment of the left heart function

4D Auto LHQ makes it easy to incorporate the 4D assessment of left heart function into everyday practice. Simultaneously perform 4D quantification of both chambers in fewer clicks, saving time measuring volumes and functional parameters.⁹



Minimize interactions

Save valuable time and effort with AI Cardiac Auto Doppler

AI Cardiac Auto Doppler automatically identifies and provides accurate measurements in a single click. Introducing additional measurements for Aortic, Mitral, Tricuspid and Pulmonary valves, most of the common regurgitation measurements are now automated. With just one click, AI Cardiac Auto Doppler helps deliver precise results, reduces variability, and improves efficiency.¹⁰



Automatic spectrum recognition

Simplify EF Analysis with Easy AutoEF

With one click, **Easy AutoEF** automates echo exam analysis. Using AI-based View recognition, it selects the necessary 2CH and 4CH views from the exam. The selected images are then analyzed based on ECG-triggered cardiac cycles, and EF is calculated automatically.¹¹



EF results in just 1 click

Streamline LV Measurements thanks to Easy AFI LV

Easy AFI LV simplifies LV measurements by combining AI-based View Recognition with AI Auto ROI. Full strain analysis of the LV, requiring three apical views, is now achievable with a single click. These views are automatically analyzed and processed, resulting in a multiplane display and AI-based ROI.



EF and Strain results in 9 seconds (on average)¹²

60%

of all strain measurement clinical research publications has been done on a GE HealthCare device.¹³

Vivid Learning Academy

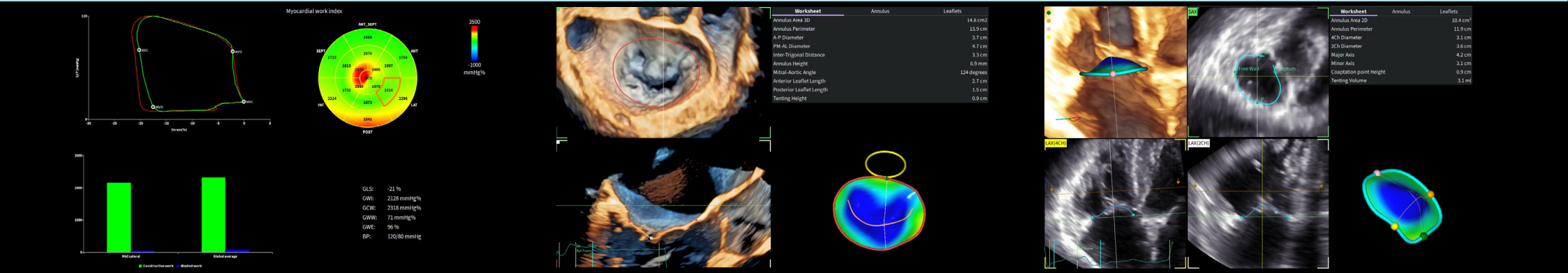
Experts in strain imaging

As innovators in echocardiographic strain imaging, we empower clinicians with advanced tools that seamlessly bridge research and routine practice. Our commitment goes beyond technology—we provide expert-led education and practical resources to help elevate diagnostic precision and confidence in everyday cardiology.



The Vivid Pioneer ultrasound system stands out with its advanced capabilities, offering exceptional tools for confident cardiovascular diagnostics in complex cases

Advanced



Enhance diagnostic accuracy and potentially reduce the cost of downstream testing¹⁴

Myocardial Work combines strain imaging with blood pressure data for precise, load-independent cardiac assessment – proven to be useful for patient follow-up and for detecting subtle LV dysfunction in conditions like coronary artery disease, heart failure, and oncology patients undergoing cardiotoxic therapies.

Minimize follow-up testing costs¹⁴

Reliable mitral annular sizing with 4D Auto MVQ¹⁵

4D Auto MVQ (Mitral Valve Quantification) uses a semi-automatic surface detecting algorithm to visualize and quantify mitral valve anatomy and function from 4D TTE and TEE, offering a reproducible, high-fidelity mitral valve assessment and precise valve geometry – validated against CT – for improved diagnostic and therapeutic outcomes, critical for TMVR planning without the need of using radiation or contrast.¹⁵

Predict TMVR screening success

Fast visualization and quantification of the tricuspid valve (TV)

4D Auto TVQ (Tricuspid Valve Quantification) allows for rapid, semi-automated detection and quantification of the tricuspid valve’s morphology, handling the 4D shape of the tricuspid, it also provides 15 static and dynamic measurements, enhancing the accuracy and efficiency of cardiac evaluations.

Simplify TV assessments in 4D

Enhance cardiac care beyond image acquisition with EchoPAC¹⁶—powered by Vivid AI, streamlines workflow and boosts productivity with both fundamental and advanced tools

Post-processing

The power of EchoPAC™

Simplify routine exams and minimize clicks needed for standard measurements with AI Auto Measure Spectrum Recognition and AI Auto Measure 2D, or obtain results in 1-click and less than 15 seconds with Easy AutoEF and Easy AFI LV.¹

Multivendor flexibility

Access a comprehensive range of 2D and 4D Vivid applications, from standard measurements like PISA, to the most advanced analyses, all seamlessly integrated, regardless of the console used to acquire your patients’ images.¹⁶

Seamless workflow integration

All images transfer automatically to EchoPAC via a centralized DICOM® server deployment.

Dongle-free. Peace of mind. The seamless experience of EchoPAC will simplify your everyday workflow.

Connect from anywhere¹⁷

EchoPAC offers the flexibility to accommodate your workflow, whether your department uses GE HealthCare ViewPoint™ 6, Centricity™, or any third- party PACS vendor.

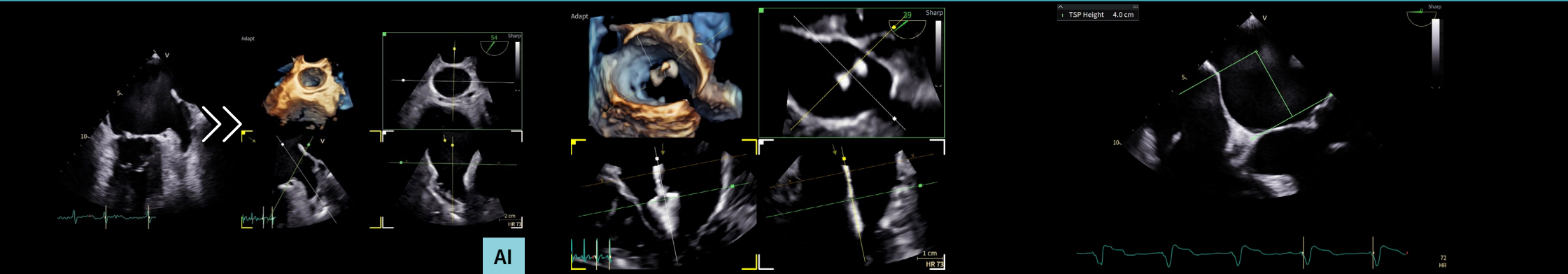


“Having the same User Interface between the console and EchoPAC is hugely important for novel users. Once they learn how to use one, the other will be an easy to go.”

– Karl Q. Schwarz, MD²
Professor of Medicine & Anesthesiology

Meet the demand for minimally invasive procedures with innovations that enhance efficiency and reduce complexity

Navigation



Streamline your LAA workflow with a sophisticated, AI-powered solution

AI FlexiViews LAA automatically provides you with 4D enface imaging of the LAA, enabling immediate access to FlexiSlice views for LAA assessment, with minimal manual adjustments.

LAA sizing tool allows you to quickly measure the landing zone for fast confirmation of device sizing.⁸

LAA device compression tools enable easy documentation of device compression tests specific to different device vendors.

4D Navigation made easy

Effortlessly crop volume data and quickly visualize the anatomy of interest with “Add 2-Click Crop.”

2-click align provides fast and streamlined navigation, allowing you to focus on procedure workflow. Easily monitor your procedure and follow catheter placement at every step.

Reduce time and effort in achieving your desired views

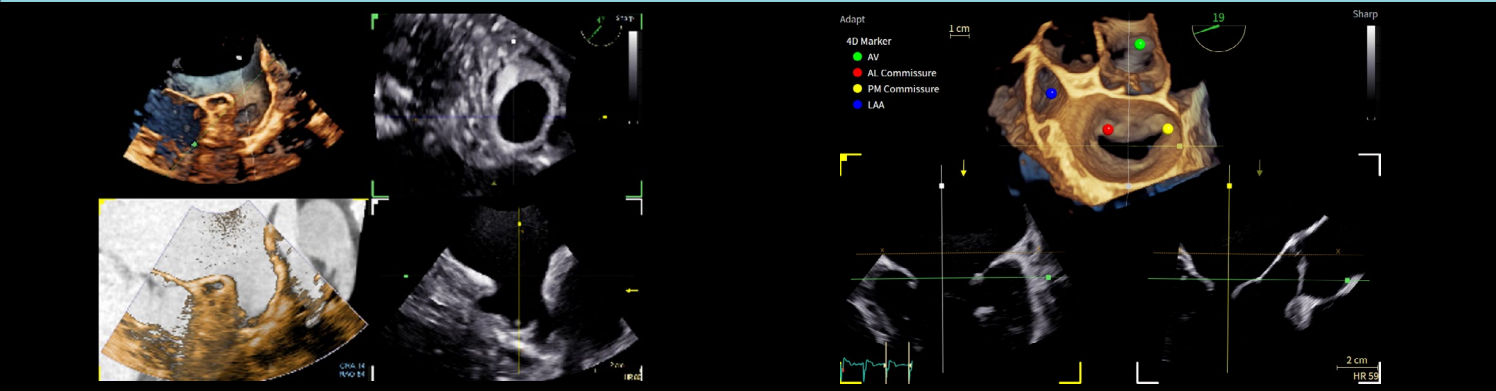
TSP height in 2-clicks

TSP height tool helps you quickly find the ideal puncture location according to the guideline of the ongoing interventional procedure.

Quickly find the ideal puncture location

Simplified live guidance and improved quality of communication within the heart team

Communication



Increase your confidence during procedures with the CT-based pre-procedure plan

CT Fusion Live offers real-time guidance for interventional procedures by fusing CT and 4D TEE images, potentially minimizing procedure time by easing navigation and ensuring correct positioning of devices.

Fuse CT and 4D TEE images

Make annotations to facilitate communication

4D Markers can be used in combination with FlexiSlice to make annotations that are viewable from all angles on 4D ultrasound volume data sets and their 2D views.

Shared annotations, shared understanding

Vivid Magazine

Advancing structural heart interventions through echo imaging

Fuel your world of discovery and stay ahead in echocardiography. Dive into the forefront of cardiovascular imaging with Vivid Magazine. Each issue is designed to inform, inspire, and celebrate the people and innovations pushing the boundaries of what is possible.

Featuring dedicated content for Structural Heart Disease (SHD), Vivid Magazine offers in-depth insights into how echo imaging is transforming SHD interventions. Explore expert perspectives, clinical breakthroughs, and the latest technologies shaping the future of structural heart care.



Navigate with confidence and precision

Exquisite imaging thanks to a full range of 4D transducers

Facilitating the assessment of all cardiac structures, function and hemodynamics, from the LAA to the tricuspid valve.

4D TEE (6VT-D)

Discover the ultimate solution for complex interventional procedures. Vivid Pioneer delivers superb image quality in 4D, biplane, and triplane modes, allowing enhanced visualization of anatomical details.

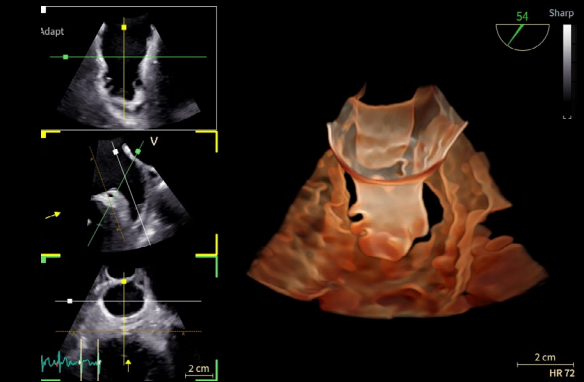


Mini 4D TEE (9VT-D)*

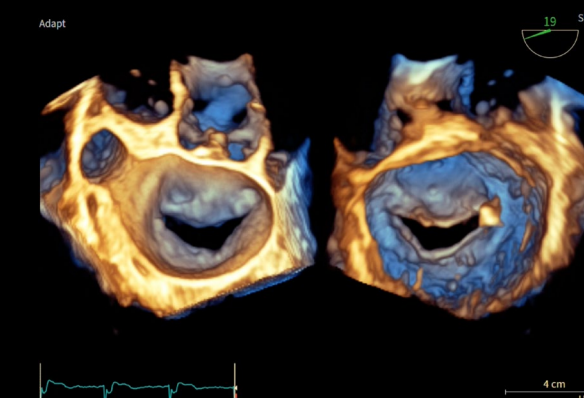
The world's first, most compact 4D mini-probe, designed for a wide spectrum of pediatric and interventional cardiology procedures. Its advanced capabilities may even eliminate the need for general anesthesia in adult patients.

“The use of a mini TEE probe with 4D capabilities (9VT-D) allowed us to directly perform a safe and effective LAAO with conscious sedation and same day hospital discharge.”

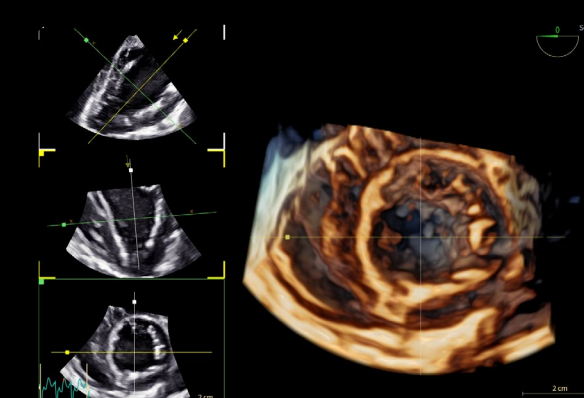
– Prof. Marta Sitges MD, PhD and
Dr. Laura Sanchis MD, PhD²
Cardiovascular Institute in Hospital Clinic at the University of Barcelona



LAA with Silhouette visualization (6VT-D probe)



Mitral Valve using Dual Crop (6VT-D probe)

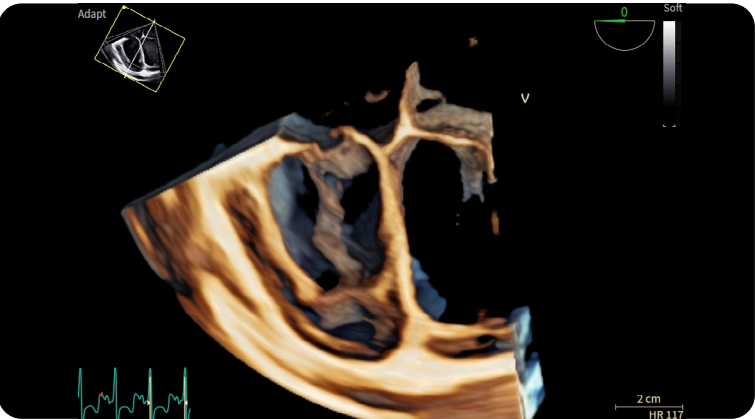


4D of the Left Ventricle with en face view of the mitral valve and FlexiSlice of the left ventricle (9VT-D probe)

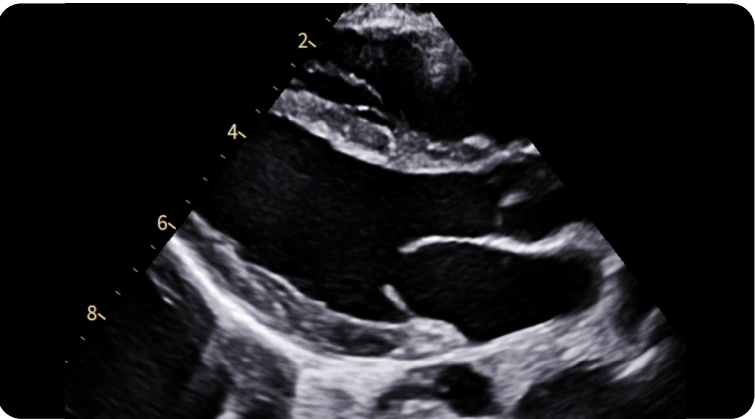


Precise imaging for precious hearts

Pediatric cardiac care demands exceptional precision and clarity. The Vivid Pioneer system empowers you to visualize intricate anatomies and comprehend structural relationships with outstanding 2D and 4D TTE and TEE imaging, specifically designed for pediatric applications.



With a tip that is 30% smaller in size and 57% smaller in volume than the standard adult TEE probe, **the world’s first, most compact mini 4D TEE probe (9VT-D)** is designed for patients as small as 5 kg. This probe offers comprehensive 2D, 4D, Color, and Doppler modes, and supports both pediatric and adult cardiac applications with scan depths down to 18 cm.

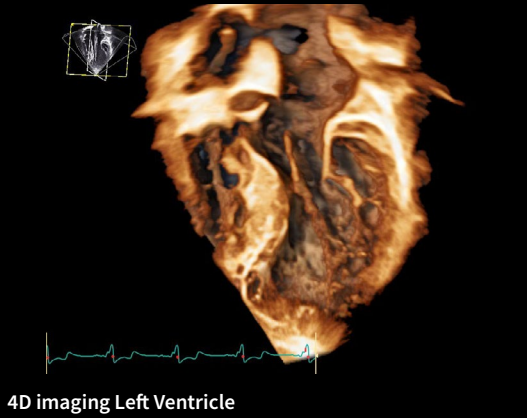


6Sc-D is a 2D TTE transducer designed with significantly higher lateral resolution, a wider field of view, better sensitivity and thereby increased penetration.⁴ Enhancing the visualization of cardiac structures in both pediatrics and slim adults. The transducer’s elongated footprint and tip design may improve intercostal access, helping to minimize the pressure required to image patients.

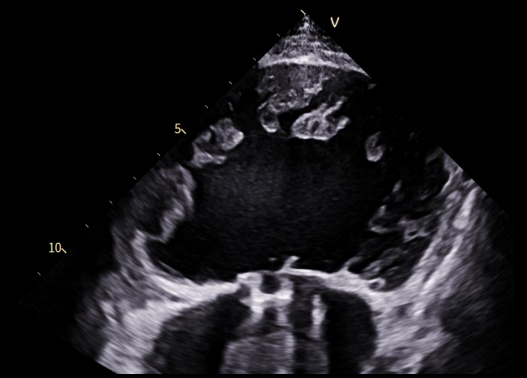


“Vivid Pioneer with the new 6Sc probe enabled perfect tissue visualization in 2D, allowing for effective strain analysis in a 30 kg single-ventricle patient with severe cardiomegaly.”

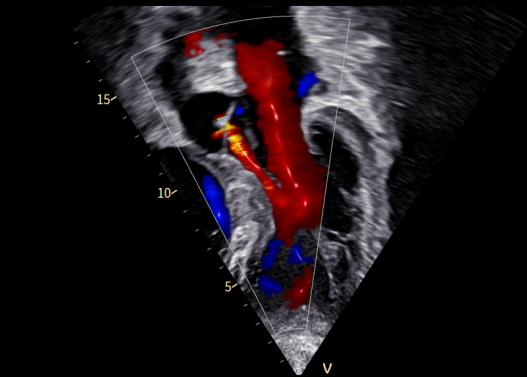
– Ferran Roses MD, PhD²
Head of Pediatric Cardiology,
Vall d’Hebron University Hospital,
Barcelona, Spain



4D imaging Left Ventricle



6Sc single ventricle



Radiantflow




Discover an extraordinary user experience

Vivid Pioneer is built with your everyday in mind


The Vivid Pioneer system cuts through complexities with a simplified user interface. With a small footprint and ergonomic design, it's light and compact, delivering both comfort and performance.

Bring premium echocardiography to more patients and more places with the highly portable system that goes from standby-to-start in just seconds.


90% of cardiologists who tested Vivid Pioneer think it would be easier to train new users on the Vivid Pioneer system.⁶

 **Simplified user interface**

Supports fewer and more **intuitive interactions**, **quick access to key imaging functions**, and a **customizable workflow** with configurable touch panel, offering a seamless and personalized user experience.

 **Greater comfort**

With advanced ergonomics like a **larger touch-screen**, **improved palm rest**, **adjustable system height** and **enhanced cable management**, Vivid Pioneer is designed for greater comfort when scanning, whether seated or standing.¹⁹

 **Ultimate portability**

A **lighter and more compact system** helps you to move effortlessly into more and tighter places – from the echo lab, to patient bedside, to cath labs – while maintaining your workflow uninterrupted thanks to **Transportation Mode**.¹⁹

“The value of a battery to maintain the status of the machine if accidentally unplugged or for transport cannot be underestimated.

It is a massive efficiency enhancer for moving from room to room when imaging inpatients and it has massive protective value in structural heart cases. Having a premium machine that has this functionality (standby mode), is huge!”

– Karl Q. Schwarz, MD²
Professor of Medicine & Anesthesiology



Reliability taken further with Transportation and Power-interruption modes¹⁹

- ✓ No reboot required, resume instantly without delays²⁰
- ✓ Patient data remains protected during power disruptions
- ✓ Continue scanning for up to 5 min on battery during power loss





Adjustable height up to 181 cm (71.3 in)

Tall rear handle

Light weight: 104-110 kg

Convenient brake-pedals rear and back

*The 9VT-D probe is exclusively available on Vivid Pioneer, and Vivid E95/E90 with the Ultra Edition release since August 2022.

**4D ICE NUVISION catheter is only available in the USA. The combination of Vivid Pioneer with 4D ICE NUVISION is not CE-marked. 4D ICE NUVISION is distributed by Biosense Webster, Inc., part of Johnson & Johnson MedTech.

1. The Role of AI in Streamlining Echocardiography Quantification White Paper, Kristin McLeod and Jurica Sprem, Senior Data Scientists at GE HealthCare. JB20789XX. A copy of this file can be available upon request.
2. Prof. Denisa Muraru, Prof. Badano, Prof. Schwarz , Dr. Laura Sanchis, Prof. Marta Sitges and Dr. Roses are paid consultants for GE HealthCare and were compensated for participation in providing Vivid Pioneer testimonials. The statements by those physicians described here are based on their own opinions and on results that were achieved in their unique setting. Since there is no “typical” hospital/clinical setting and many variables exist, i.e. hospital size, case mix, staff expertise, etc. there can be no guarantee that others will achieve the same results.
3. The statements by Amy Dillenbeck described here are based on her own opinions and on results that were achieved in her unique setting. Since there is no “typical” hospital/clinical setting and many variables exist, i.e., hospital size, case mix, staff expertise, etc. there can be no guarantee that others will achieve the same results.
4. Probe System Datasheet (DOC2784459).
5. cSound Pioneer increased dynamic range, up to 2X data throughput from analog frontend to digital beamformer, 70% more image processing power, and faster AI performance claims, refer to the 2025 release of the Vivid Pioneer compared to the Vivid E95 v206.
6. A usability study, sponsored by GE HealthCare and conducted by Use-Lab GmbH Germany, evaluated the image quality, time saving, and other usability advantages of the Vivid Pioneer system compared to the Vivid E95, as well as to competitor systems participants may work with. Twenty-two cardiologists experienced in premium ultrasound devices performed scans on individuals with valvular heart disease (VHD) and individuals with a high BMI, using a Vivid Pioneer and a Vivid E95 v206, and responded to questions about their impressions. Following the completion of the sessions, task times, keystrokes per task, and the subjective data were evaluated. Study was conducted in May 2025. JB33934XX.
7. Vivid Pioneer is intended for use by qualified and trained physicians or sonographers with at least basic ultrasound knowledge.
8. Magnetic Trace accuracy test – Verification done by GE HealthCare program engineers.
9. Verification of LHQ performance done by GE HealthCare program engineers using Vivid Pioneer system.
10. Based on Cardiac Auto Doppler White Paper comparison to manual measurements. Uwe Lempertz, Global Clinical Manager and Ella Sokulin, Senior Product Manager AI solutions, at GE HealthCare. JB30433XX. A copy can be available upon request.
11. 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.
12. Time to strain measurement results may vary with heart rate, frame rate and Vivid system. Verification of performance done by GE HealthCare clinical application specialists using the Vivid system.
13. Whitepaper “AFI – strain imaging from research to clinical routine.” Uwe Lempertz, Global Clinical Manager, Gunnar Hansen, Global Clinical Research Manager, and Sten Roar Snare, Engineering Leader Display & Imaging Analysis, at GE HealthCare. JB16411XX. A copy can be available upon request.
14. Qamruddin, S., Fang, C., Kachur, S., Bharwani, S., Elagizi, A., Stewart, M., Morin, D. P., Smiseth, O. A., & Gilliland, Y. E. (2025). Peak myocardial work assessment to detect coronary ischemia during dobutamine stress echocardiography. *Frontiers in Cardiovascular Medicine*, 12, 1556991. <https://doi.org/10.3389/fcvm.2025.1556991>.
15. Coisne, A., Pontana, F., Aghezzi, S., Mouton, S., Ridon, H., Richardson, M., Polge, A. S., Longere, B., Silvestri, V., & Pagniez, J. (2021). Utility of 3-dimensional transoesophageal echocardiography for mitral annular sizing in transcatheter mitral valve replacement procedures: A cardiac computed tomography comparative study. *European Heart Journal - Cardiovascular Imaging*, 22(Supplement_1), jeaa356.212.
16. EchoPAC Plug-in. 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. Remote access is enabled by Citrix. For diagnostic use. Citrix is not a solution commercialized by GE HealthCare.
18. Evaluating the role of transesophageal echocardiography (TEE) or intracardial echocardiography (ICE) in left atrial appendage occlusion: a meta-analysis. Akela et al. *J Interv Card Electrophysiol* 2021. Jan;60(1):41-48.
19. Vivid Pioneer Technical Data Sheet DOC3022122.
20. Vivid Pioneer can remain in standby mode up to 30 minutes.

About GE HealthCare Technologies, Inc.

GE HealthCare is a trusted partner and leading global healthcare solutions provider, innovating medical technology, pharmaceutical diagnostics, and integrated, cloud-first AI-enabled solutions, services and data analytics. We aim to make hospitals and health systems more efficient, clinicians more effective, therapies more precise, and patients healthier and happier. Serving patients and providers for more than 125 years, GE HealthCare is advancing personalized, connected and compassionate care, while simplifying the patient’s journey across care pathways. Together, our Imaging, Advanced Visualization Solutions, Patient Care Solutions and Pharmaceutical Diagnostics businesses help improve patient care from screening and diagnosis to therapy and monitoring. We are a \$19.7 billion business with approximately 53,000 colleagues working to create a world where healthcare has no limits.

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