Vivid *iq*
Patient Care. Elevated.

Portable. Powerful. In touch.

Vivid™ *iq** delivers a combination of portability and power that fits right in with your needs – wherever your journey takes you.[1]

It's the next step forward from the partner who defined the high-end compact category ... and continues to innovate to help you adapt to changing challenges.

Where will Vivid *iq* take you?

## Vivid *iq* Premium** for the Echo Lab

Visualization

Advanced. Accessible. Adaptable.
Wherever you and your patients need it,[1] Vivid *iq* delivers premium image quality in the echo lab, pediatrics and shared services.

TTE
You don't have to sacrifice exceptional image quality for the convenience of a compact system.

- **Virtual Apex –** Phased array probes provide a wide field of view for enhanced visualization of structures at the sides of the sector.
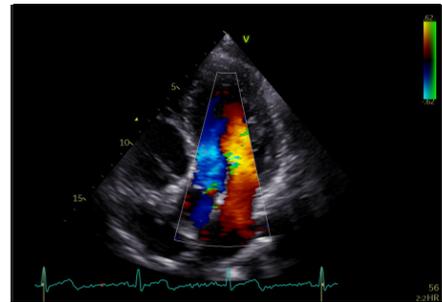
Color Flow – Gain insight with excellent color sensitivity, contrast resolution and spectral crispness.

### 2D TEE
When Time is Critical
Vivid *iq* makes TEE's crucial information into heart function accessible without compromising productivity.

- **MDI Multidimensional Imaging with Bi/Tri-plane[2] (with 6VT-D probe) –** First introduced by GE Healthcare – saves you time by imaging three planes from the same heartbeat, with high temporal and spatial resolution.

Quantification
Exploration Made Easy
Quantification with Vivid *iq* is all about helping you evaluate problems and pursue the path forward. Take advantage of a full suite of simple, intuitive tools to make your work easy and efficient, such as AutoEF 2.0,[2] Anatomical M-Mode and IMT.
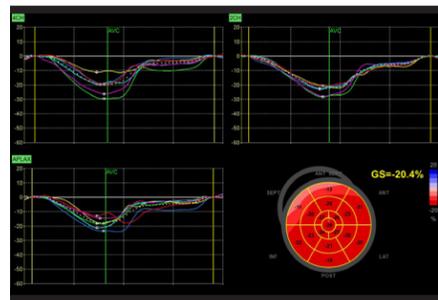
Automated Function Imaging (AFI)[2] 2.0 – This second-generation tool for assessing and quantifying ventricular wall motion is applicable to 2D transthoracic and TEE data. With the integrated AutoEF function, you can calculate ejection fraction without leaving the app.

Workflow
In Touch with Your Day
Tap into the smooth user experience you expect from Vivid ultrasound, enhanced to make your work easier with automated functions as well as touchscreen features similar to those you're accustomed to on your own smart devices.

Touch Interface
- Tablet-like gestures – tap, pinch, zoom
- Intuitive keyboard

TTE
Convenient applications make fundamental exams fast and easy, such as Auto Gain and Smart Stress.[2]
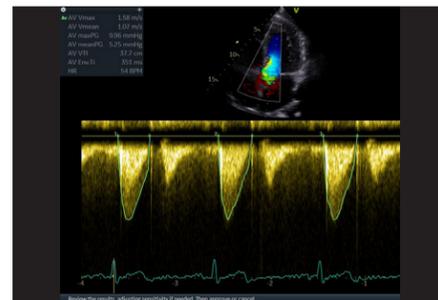
Cardiac Auto Doppler – This artificial intelligence-based tool provides Doppler measurements over all heart cycles for the most common parameters, supporting consistent results and potentially saving time in both adult and pediatric TTE and TEE studies.

Shared Services
Shared services pose a wide variety of patient challenges. Manage them all with the help of definitive diagnostic insights via Vivid *iq*, in areas including vascular, abdominal, OB/GYN and small-parts applications.

- **Virtual Convex† –** This app provides a wider far field visualization and aims to enhance image quality on linear probes.
- **B-Flow –** Providing advanced spatial and temporal resolution, B-Flow helps assess blood flow and vessel wall structure without the limitations of Doppler.
- **Blood Flow Imaging –** This app improves visualization of blood flow dynamics using a signal-processing algorithm for visualizing blood flow data.
- **LOGIQ™ View –** Increase the field of view to image large organs that typically can't be seen in a single image.

Auto IMT – IMT provides automatic edge detection and auto-completes required measurements.

Pediatrics
Small structures and fast heartbeats present unique challenges to imaging. Vivid *iq* helps you make quick, confident diagnoses for a wide range of pediatric and neonatal patients and their families. Vivid *iq* offers pediatric TTE as well as pediatric 2D TEE imaging. Z-Scores support quick assessments.
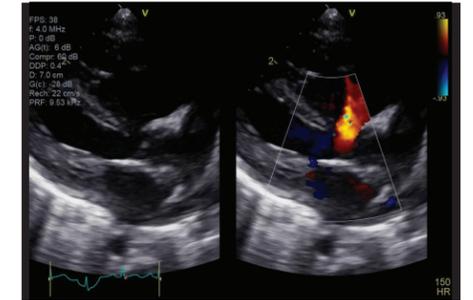
Color Flow – Gain insight with excellent color sensitivity, contrast resolution and spectral crispness.
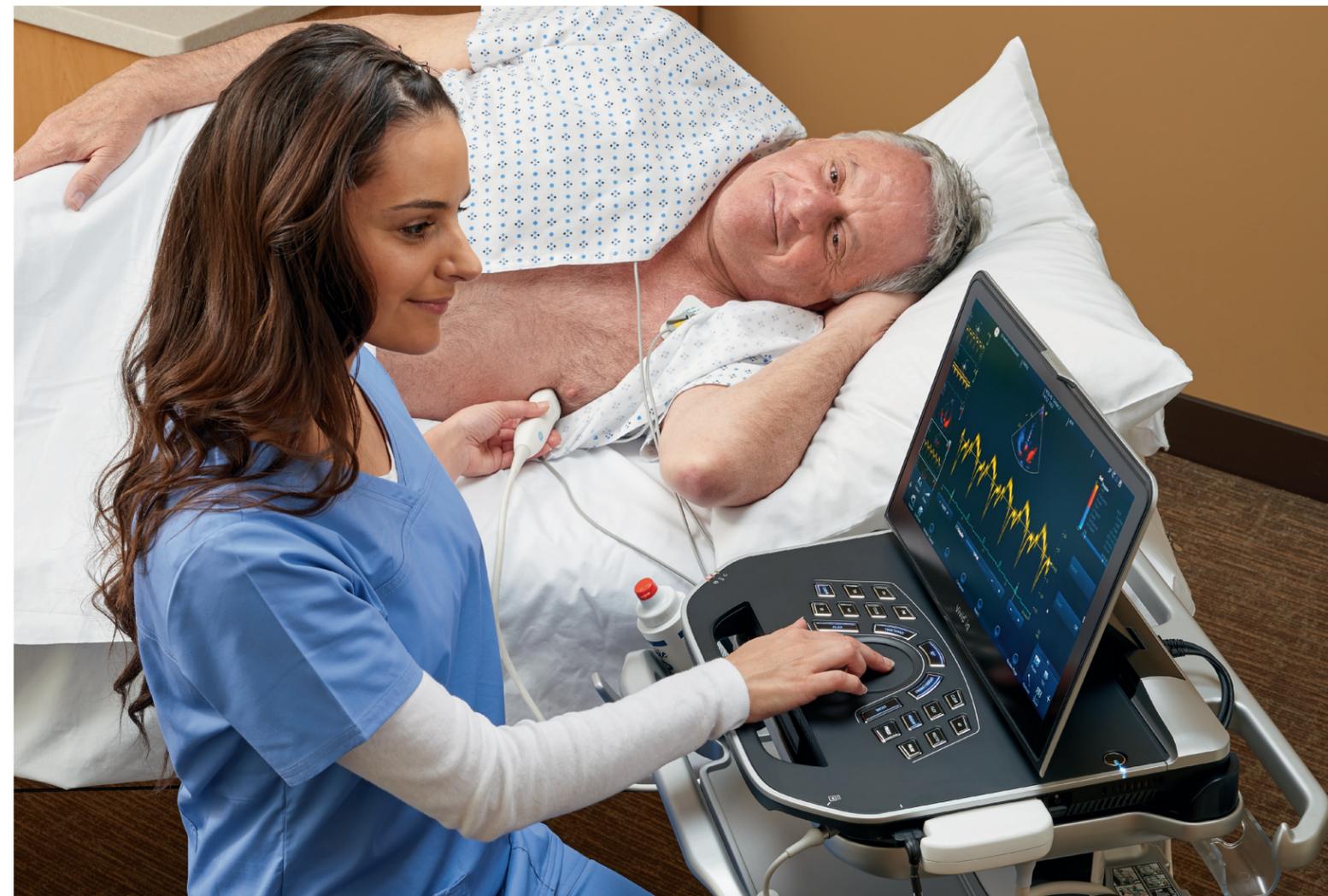
Vivid *iq* 4D** for Interventional

Visualization

Advanced. Accessible. Adaptable.
Positive interventional outcomes begin with detailed imaging. With Vivid *iq*, accurate and actionable information about your patient's anatomy and function are always close at hand.

TEE
Vivid *iq* makes 2D and 4D TEE's crucial information into heart function accessible without compromising productivity.

4D Markers[2] – 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[2] – See X-ray from fluoroscopy in real time right on your Vivid screen as a picture in picture, facilitating communication between team members.

- **MDI Multidimensional Imaging with Bi/Tri-plane[2] (with 6VT-D probe)**
  - Bi-plane: Two independent simultaneous scan planes where one of them can be rotated and tilted freely.
  - Tri-plane: Three independent simultaneous scan planes that can be rotated freely.

- **Intra Cardiac Echo (ICE)[2,3] –** Vivid *iq* combines exceptional image detail with ICE technology using the ICECord-RS probe adaptor to connect to the catheter, strengthening real-time monitoring and guidance during procedures.

- **CARTOSOUND® Interface[2] –** The system can interface with the CARTO® 3 EP navigation system and the SOUNDSTAR® ultrasound catheters manufactured by Biosense Webster.®

Quantification

Exploration Made Easy
4D Auto AVQ[2] – Automatically segment, align and quantify the aortic outflow tract – vital to device sizing and orientation for TAVI/TAVR procedures.

4D Auto MVQ[2] – Supporting TEE images, this integrated package helps visualize and quantify the mitral valve via a semi-automatic, surface-detecting algorithm.

4D Auto LVQ[2] – GE's EF and Volume integrated tool has been adapted to work with the full-volume data sets acquired with the 4D TEE transducer. Place points in just two clicks to define the initial endocardial border. Use the simple editing tool if required, and access 3D ejection fraction and volumes in an instant.

Workflow

In Touch with Your Day
4D TEE
Save time while gaining crucial heart-function information with an array of efficient tools.

- **FlexiSlice –** With a distance gauge and two new viewing layouts, this updated interactive tool for obtaining 2D or render views in live or replay mode may provide enhanced insight as well as save time.[†]

- **FlexiZoom –** Access this intuitive user interface for flexible, quick and easy visualization of the structures of interest.

- **2-Click Crop –** Serves up standard or non-standard views during live scanning or replay. Lets you crop quickly from the inside out, starting with two extracted scan planes.
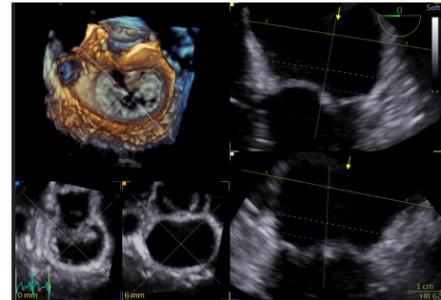
FlexiSlice

Vivid *iq* for the Physician Office

Visualization

Advanced. Accessible. Adaptable.
Wherever you and your patients need it,[1] Vivid *iq* delivers premium image quality for cardiac care, including quantification tools like 2D Auto EF, TVI, IMT, and shared services.

TTE
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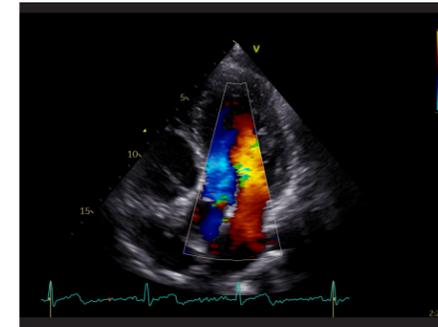
Color Flow – Gain insight with excellent color sensitivity, contrast resolution and spectral crispness.

Quantification

Exploration Made Easy
Quantification with Vivid *iq* is all about helping you evaluate problems and pursue the path forward. Take advantage of a full suite of simple, intuitive tools to make your work easy and efficient, such as AutoEF 2.0,[2] Anatomical M-Mode and IMT.
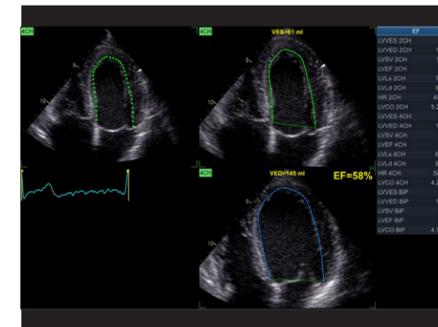
AutoEF[2] 2.0 – This second-generation tool is based on a 2D speckle-tracking algorithm and Simpson's rule. It is applicable to 2D transthoracic and TEE data.

Workflow

In Touch with Your Day
Tap into the smooth user experience you expect from Vivid ultrasound, enhanced to make your work easier with automated functions as well as touchscreen features similar to those you're accustomed to on your own smart devices.

Touch Interface

- Improved keystrokes compared to Vivid *q*
- Tablet-like gestures – tap, pinch, zoom
- Intuitive keyboard

TTE

Convenient applications make fundamental exams fast and easy, such as Auto Gain, ScanAssist Pro, and Smart Stress.[2]

- **Cardiac Auto Doppler –** The AI-based Cardiac Auto Doppler provides Doppler measurements over all heart cycles for the most common parameters, supporting consistent results in both Adult and Pediatric TTE and TEE advanced studies and potentially saving time.

Cloud Connectivity

The Tricefy®[2] Cloud service can serve as long term archive, to share examinations with colleagues for information or consultation and to provide images to patients. It may serve as alternative to local infrastructure and enables remote cooperation
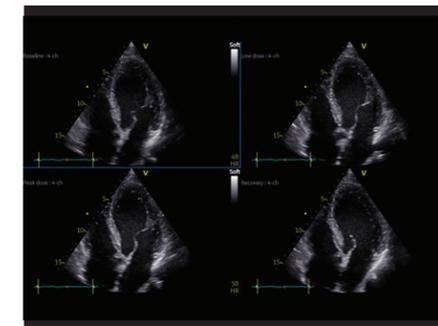
Smart Stress[2] – This package with memory buffer offers pharmaceutical, treadmill and bicycle stress exam protocols, with user-configurable templates.

Shared Services

Shared services pose a wide variety of patient challenges. Manage them all with the help of definitive diagnostic insights via Vivid *iq*, in areas including vascular, abdominal, OB/GYN and small-parts applications.

- **B-Flow –** Provides advanced spatial and temporal resolution to help assess blood flow and vessel wall structure without the limitations of Doppler

- **Blood Flow Imaging –** Provides enhanced visualization of blood flow dynamics using a signal-processing algorithm for visualizing blood flow data.
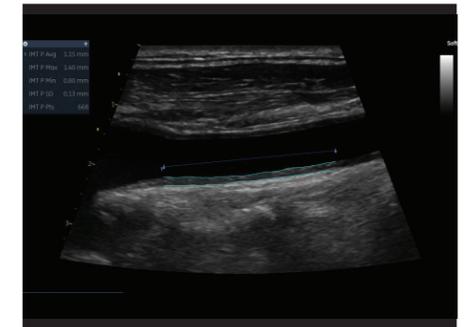
Intima-Media Thickness (IMT) – IMT provides automatic edge detection and auto-completes required measurements.
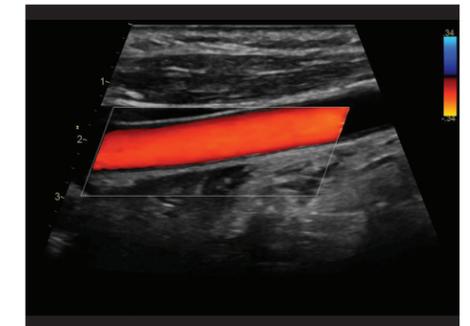
Virtual Convex[†] – This app provides a wider far field visualization and aims to enhance image quality on linear probes.

Reliability

The Vivid *iq* was built to handle tough daily demands allowing you to focus on the patient and the ultrasound images during the exam. We are so confident in the reliability that we are offering multiyear service (regions may vary, please check with your local representative). In the event your product needs attention, we offer a loaner program that reduces your down time.

The new design has allowed for better probe insertion for more reliability and protection. We have also designed the ECG to fit under the probe area for better protection, allowing nothing to protrude from the sides. All of these new enhancements allow for better reliability and robustness.

Three-Year Service Coverage[4]
With 1 year standard warranty plus 2 additional years of service coverage, you can count on making the most of your Vivid *iq* investment to help provide excellent care.

Security

LDAP – Help ensure patient data safety with Lightweight Directory Access Protocol, which allows your IT team to maintain greater control of who's in the system, reducing the risk of breaches.

Configurable system password – There are fully configurable user log-on passwords and internal passwords that can meet your IT department's requirements regarding security strength.

Disk encryption of the drive, which contains patient archive and images, helps ensure safety and privacy of the data, even in case of theft.

Windows® 10 Operating System with application whitelisting to prevent unauthorized programs from running and potentially harming the scanner.

Connectivity

Pediatric DICOM® SR support* – Pediatric measurements sent by SR automatically populate the pediatric report on the receiving side for fast, accurate review elsewhere.

Enhanced support for cardiac and vascular DICOM SR, including user defined measurements.

Enhanced DICOM review – Accelerate reviewing and reporting by using contrast, brightness and zoom/pan controls to optimize DICOM images.

Tricefy® Uplink – Expedite uploading of images and patient data to Tricefy Cloud – a long-term archive that enables image sharing with colleagues or patients.

Design

As Agile As You Need to Be
Vivid *iq* is a compact, yet powerful cardiovascular ultrasound. Carry it under your arm or on your cart,[2] with a multi-connector[2] for probes, to wherever you need it ... from the echo lab to the OR ... from the hospital to a rural location.[1]

Console
- Lightweight – 10% lighter and 10% thinner than the Vivid *q*
- Closed design – allows cleaning with disinfectant solutions (refer to the user manual)
- Portable – up to 1-hour battery (with full charge) – Smart Standby
- External monitor connection – can connect to any existing external monitor

Cart[2]
The newly designed cart was created to protect the console during transportation. The cart also allows for a much better viewing angle with the increased height adjustments for scanning while standing or sitting.
- Battery pack[2] (up to 3 hours with full charge)
- 4-probe port[2]

Probes
- 16 + (5) ICE[2]
- Widely compatible with other Vivid systems
- Broad selection
- Programmable TEE buttons – configurable buttons on the TEE probe handle may make performing a TEE exam easier by not having to move hands to the system

GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE (NYSE: GE) works on things that matter – great people and technologies taking on tough challenges.

From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.