GE Healthcare

Vivid *i*

Cardiovascular ultrasound system

Excellent raw data image quality.
Advanced quantification.
Increased diagnostic confidence.
Streamlined workflow.
In any clinical environment.

Visualize clearly. Scan efficiently. Analyze quickly. Vivid *i*'s excellent image quality and quantitative analysis tools bring innovation to portable ultrasound imaging.

Intra-Cardiac Echo (ICE) imaging

ICE catheters deliver excellent image quality and real-time visualization of cardiac structural anatomy, and therapy catheters for monitoring and guidance during interventional procedures. ICE can give you a better understanding of structural orientation during trans-septal puncture procedures to help you avoid clinical complications.

At a patient's bedside. In the OR. In a satellite clinic or mobile imaging site. Vivid *i*'s compact size and light weight make it easy to take excellent ultrasound imaging performance to any clinical environment.

Power. Performance.
Pick up-and-go portability.

OR/Anesthesia

- Supports perioperative needs with transthoracic examinations under challenglng conditions.
- Enable monitoring with the help of adult or pediatric TEE.
- Support saphenous vein harvesting and carotid evaluations.
- Use the intra-operative probe to support specific diagnoses in the OR.
- Connect Vivid *i*'s TEE transducer to Vivid console systems using an adaptor.
- Continuously scan for up to one hour from battery.
- Share images remotely on any PC using the eVue option, for efficient and convenient consultations.

Obstetrics/Gynecology

- Focus on fetal echo, or comprehensive examinations

Pediatric Echocardiography

- Examine children of all ages, including newborns.
- Choose from a wide range of sector, micro convex, linear and transesophageal transducers plus a specific ECG cable.

Shared Services

- Conduct additional vascular and abdominal exams with Vivid *i*'s comprehensive set of linear and convex transducers.
- Display blood flow with 2D-like spatial resolution and no color-flow-imaging artifacts with B-Flow and BFI (Blood Flow Imaging).
- Measuring the carotid artery's intima-media thickness quickly with the IMT analysis package may obtain early information on atherosclerosis risk.
- Wide Aperture improves the signal-to-noise ratio and spatial resolution for better penetration in deeper structures.

With more quantitative tools and a high level of image quality, Vivid *i* helps give you greater accuracy, more diagnostic confidence and increased productivity. All the functionality and high performance of our full-featured premium systems – in a portable design.

Lightweight mobility.
Heavyweight ability.

The Vivid* *i* builds on the many innovative features and technologies of its predecessors, incorporating new features, quantitative analysis tools and applications that help further improve image quality and performance.

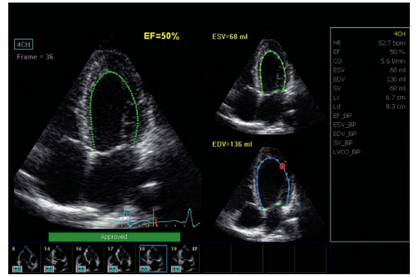
- Vivid *i* features a host of new technologies migrated from Vivid 7 and Vivid S6, such as the Ultra Definition image optimization algorithms, Smart Depth, Adaptive Reject and Wide Aperture, which provide excellent image quality and inspire higher clinical confidence in difficult-to-scan patients.
- In addition to Tissue Velocity Imaging (TVI), Tissue Tracking (TT), and Tissue Synchronization Imaging (TSI), the quantitative tools now include Auto EF and on board Quantitative Analysis.
- Intra-Cardiac Echo (ICE) imaging catheters open new application and care areas for your ultrasound systems.
- Sixteen probes – including transthoracic and transesophageal transducers for cardiac adult and pediatric exams, and linear, convex and Doppler probes – further extend Vivid *i*'s wide range of applications.
- EchoPAC*'s advanced quantitative analysis tools can be used with Vivid *i*'s raw data, optimizing workflow to match your real needs.

A small system that shows a lot of heart.

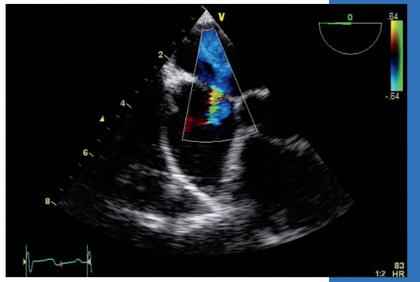
Excellent raw data image quality. Innovative performance features. Established clinical tools. One-touch image optimization. The ability to assess LV function and cardiac performance more clearly, effectively and confidently.

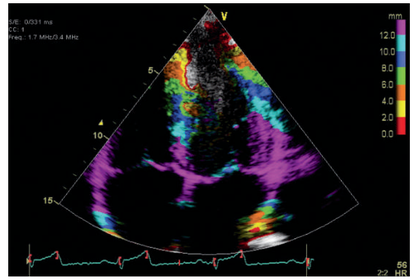
Performance features and clinical tools

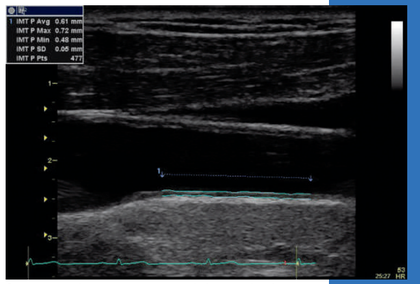
- New Ultra Definition algorithms for Speckle Reduction Imaging (SRI), Clarity and Adaptive Reject further optimize image quality.
- Smart Depth automatically adapts imaging parameters to help save time, and increase standardization among users.
- Smart Stress helps improve workflow, shorten optimization time and support reproducibility for review, wall segment scoring and reporting.
- Tissue Synchronization Imaging (TSI) translates comprehensive quantification into an easy-to-understand image demonstrating mechanical synchronicity of different myocardial segments.
- AutoEF measurement provides the ejection fraction - one of the most widely used clinical parameters.



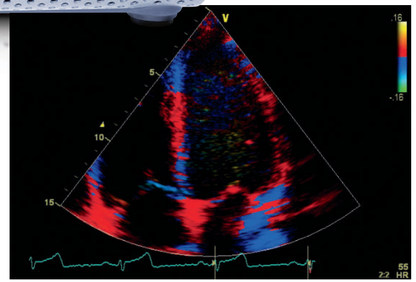
Auto EF

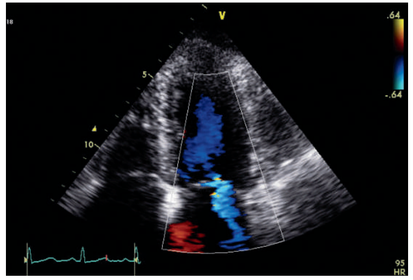

Transesophageal echo with color Doppler

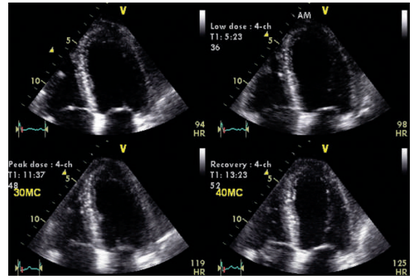

Tissue Tracking



Common carotid artery measurement intima-media thickness


Tissue Velocity Imaging apical four chamber


Mitral regurgitation apical four chamber



Dobutamine stress echo

GE HEALTHCARE
3S RS
MI 1.2
TIs 1.5
S/E: 60/274 ms
Cutoff: 0 ms
CC: 1
34
60
ES
Time to peak pos. vel.
Tissue
Freq.
Proc.
Power
FPS
Depth
Color
Gain
Scale
Freq.
SV
Octave
1.7/3.4 MHz
8/11/10/6/0.2
0 dB
84.7
13.0 cm
3 dB
1.00 kHz
2.2 MHz
1.22 mm
101
HR
Scroll
Ptr
86:180
(1.0:2.2 s)
Simultan.
Cine Loop
Color Maps
Frame
More
TSI Freeze
TSI Cutoff
Vivid i