

Vivid 7 Dimension '06

Cardiovascular ultrasound system



Launched in '01, Vivid 7 is more than an ultrasound product. It's a way of thinking. Of working. A raw-data ultrasound platform that evolves. Renews. Improves. Year after year. Breakthrough after annual breakthrough.

Heart of innovation.

Since the first Vivid™ system, with its raw-data image quality and high-frame rates, we've shown our commitment to cardiovascular ultrasound through annual breakthroughs. Continuous innovation designed to help you assess cardiovascular anatomy and LV function with more accuracy and diagnostic confidence – while boosting productivity.

This year is no different. The Vivid 7 Dimension '06 now delivers faster acquisitions. Improved image quality. More cardiovascular information. More quantified analyses. Easier reporting.

And it improves every dimension of your workflow.







4D volume, in color, in real time. Advanced TSI for quantification. Easy-to-use wall-motion-analysis tools. Significant new breakthroughs add to the Vivid 7 Dimension's remarkable capabilities, pushing ultrasound performance to unprecedented levels – even on your day-to-day clinical exams.

Real. Innovative. Breakthroughs.

It all starts in 4D – with our new, real-time, full-volume 4D Color Flow imaging.

Vivid 7 Dimension '06 further underscores GE's leadership in quantitative analysis. New Automated Function Imaging (AFI) and Advanced Tissue Synchronization Imaging (TSI) help streamline left ventricular quantification. The vascular analysis tool, IMT, slashes the time it takes to non-invasively measure the carotid artery's intima-media thickness. And image quality improvements with 4D Coded Phase Inversion (CPI) enhance your contrast imaging.

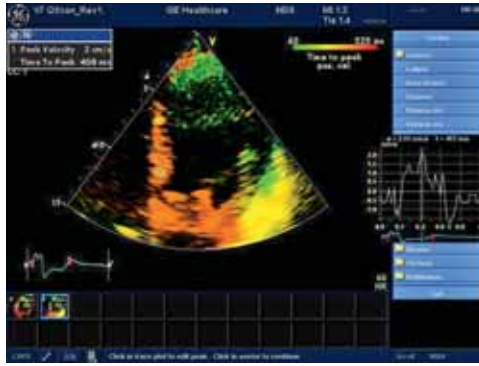
Vivid 7 Dimension breakthroughs dramatically affect the efficiency and ease of assessing cardiovascular health with diagnostic confidence. The result: streamlined workflow and better patient care.

Vivid 7 Dimension '06 takes 4D imaging out of the research lab. And puts it comfortably into your everyday clinical routine.

4D. For clinical



Multi-dimensional imaging lets you simultaneously acquire bi-plane and tri-plane images from the same heartbeat – without moving the probe – for more accurate cardiovascular information in fewer, faster steps.



Advanced TSI

Advanced Tissue Synchronization Imaging (TSI) on the Vivid 7 Dimension '06 provides quantification of LV synchronicity information. Time-to-peak data derived from TSI's simple-to-use "red-light/green-light" visualizations let you quantify left ventricle synchronicity for heart failure patients or those undergoing cardiac resynchronization therapy (CRT).



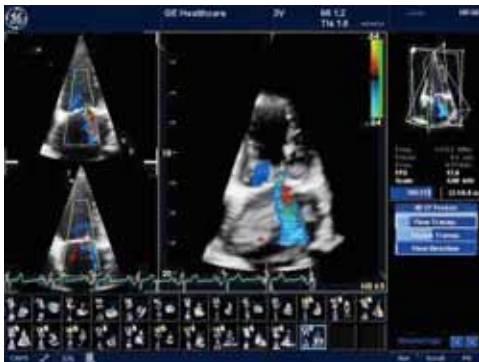
Automated Function Imaging (AFI)

Cutting-edge research moves into your clinical lab with Automated Function Imaging (AFI), an easy-to-use tool for assessing and quantifying left ventricle wall motion. AFI (derived from 2D strain) delivers reproducible, systolic, quantitative segmental and global assessments of the left ventricle – quickly and accurately.

prime time.

Now, Vivid 7 Dimension '06 delivers more 4D imaging capabilities than ever before – ungated, unspliced, online and in real time or 4D full volume acquisitions.

Creative multi-dimensional imaging formats clearly convey cardiac anatomy, synchronicity and viability. 4D cardiac images look like the actual heart. Incredibly detailed. Remarkably lifelike. So your clinical partners and patients get a clear understanding of what they're seeing.



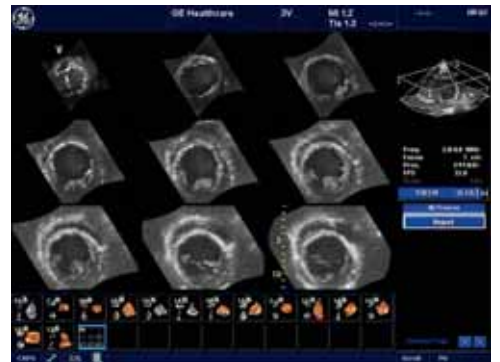
Real-time 4D Color Flow Full Volume

Assess hemodynamic information in color in real time in the same heart cycle – with the option of viewing a 6-slice cross section of the left ventricle.



Contrast Imaging

Enhance visualization of the LV border for wall motion analyses and ejection fraction calculations in multi-dimensional imaging and 4D full volume imaging.



9 Slice

Visualize regional wall motion in a whole new way by slicing the left ventricle of a 4D full-volume dataset into nine equidistant short-axis views.



From cardiac to vascular exams, Vivid 7 Dimension '06 is versatile enough to share its exceptional capabilities across a full range of clinical imaging applications.

Share. And share a lot.

With innovative image processing techniques and new breakthroughs, the Vivid 7 Dimension '06 enhances your shared services imaging. Its clinical tools improve image quality and diagnostic confidence, to broaden your capabilities and expand your vision in diverse studies.

- Multiple-angle compound imaging enhances border definition, reduces acoustic artifact and improves contrast resolution.
- The 9L transducer features a new ergonomic profile, with a smaller, more ergonomic handle design and a smaller, lighter, more flexible cable, for easier, more comfortable scanning.
- The next step in speckle reduce imaging offers improvements that enhance image quality in difficult-to-image patients.
- Blood Flow Imaging (BFI) gives you a better understanding and delineation of directional blood flow in vessels.
- IMT measuring technology dramatically reduces the time it takes to measure the carotid artery's intima-media thickness, which studies show may be an early sign of atherosclerosis.



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MBS MI 09
Cardiac T1s 07

Report: Automated Function Imaging

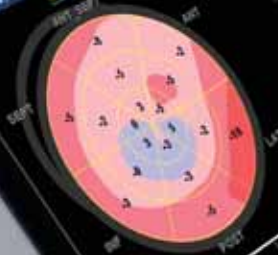
Automated Function Imaging, AFI
Tape Ref. Doc.
Sonographer System Administrator
Physician

ate
ent Id: CS1
x
Height 0.0 cm (0 ft 0.0 in)
Weight 0.0 kg (0.0 lbs)
BSA
BP

Measurements:

AVC	402ms
G peak sys SL(PLA)	0.0%
G peak sys SL(AAC)	-3.0%
G peak sys SL(A2C)	-2.1%
G peak sys SL(Avg)	-2.1%

AFI Bullseye



3.8% (SUPS) Avg
3.8% (SUPS) Avg
3.8%

SUPS_LAR
SUPS_AAC
SUPS_A2C

CAPS

Log

Navigation menu: Home, Tools, Reports, Settings, Help, Logout, etc.

Left sidebar menu: Home, My Dashboard, My Reports, My Settings, My Profile, My Alerts, My Recent, My Favorites, My History, My Recent, My Favorites, My History.

Main content area: A detailed report or dashboard with various data points, charts, and a table of items. The table has columns for Name, Date, and Status.

Bottom status bar: CAPS, Log, and other navigation icons.

Structured for simpler reporting.

New Structured Findings on the Vivid 7 Dimension '06 help drive your workflow and productivity – with easy-to-use reporting features that let you configure and deliver fast, complete reports just the way you like.

- Flexible reporting package increases productivity by allowing you to choose the report configurations, and edit the findings text and conclusion section according to your lab's individual workflow needs.
- Fast pull-down menus help you automatically sort and insert information.
- Customizable normal report values let you define measurement values.
- MPEGvue allows you to export more compressed studies.
- eVue simplifies PC setup for remote interactive image monitoring.
- DICOM connectivity, with embedded raw-data storage, permits post-exam quantitative analysis on the Vivid 7 Dimension '06 system or the EchoPAC™ Dimension '06 workstation.

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Healthcare Re-imagined

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world to discover new ways to predict, diagnose and treat disease earlier. We call this model of care “Early Health.” The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest. Re-think, Re-discover, Re-invent, Re-imagine.

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imagination at work