



# Vivid™ E9

October 13, 2010

## Product Description

The Vivid E9 is our leadership cardiovascular ultrasound system designed for cardiac 4D imaging, with the additional capabilities of 2D adult, pediatric, fetal/obstetrics, peripheral vascular, abdominal, transcranial, small organ, musculoskeletal, and transesophageal applications.



## System Architecture

**Accelerated Volume Architecture**, GE's exclusive, patented, beamforming technology, provides eight times the power of traditional ultrasound systems with increased volume size for full volume single beat 4D acquisition. Using both coherent and harmonic image processing, the system provides computational power, ease of imaging, workflow flexibility and product upgradeability. The Vivid E9 excels in the following areas:

**Exceptional Image Quality** is created through the use of Accelerated Volume Architecture, Ultra Definition Clarity, Ultra Definition Speckle Reduce and advanced D-Series transducers.

**Ease of Use** features make the Vivid E9 one of the most productive cardiovascular ultrasound systems – including Single Beat 4D, 4D Views, 4D Stress Echo, 4D Auto LVQ, and Scan Assist.

**Ergonomics** include highly portable user adaptable design with electronically adjustable height and keyboard, articulating LCD arm and lightweight transducers combining to make it one of the most ergonomic cardiovascular ultrasound systems available.

**True Scan Raw Data** is GE's innovative technology that allows for advanced processing on archived images by applying many of the same scan controls and advanced quantitative tools available during the original exam.

## General Specifications

### Dimensions and Weight

- Width: 544 mm, 21 3/4"
- Depth: 844 mm, 33 1/4"
- Height: 1150 mm – 1350 mm, 45 3/8" – 53 1/8"
- Weight: 140kg, 308 lbs

### Electrical Power

- Nominal input voltage: 100-230 VAC, 50/60 Hz
- Rated power consumption: 1100 W

### Console Design

- Five active probe ports
- ECG port

- Integrated HDD
- Multiple USB ports
- Integrated DVD-R multi drive
- On-board DvR recorder (optional)
- On-board storage for thermal printer
- Integrated speakers with sub-woofer for premium sound
- Integrated locking mechanism that provides rolling lock and caster swivel lock
- Integrated cable management
- Easily removable air filters
- Front and rear handles
- Side storage trays

## User Interface

### Operator Keyboard

- Floating keyboard electronically adjustable in three dimensions:
  - Height
  - Rotation
  - Extension
- Drawer type, backlit, a/n keyboard
- Support for international (European) keyboard character sets (ISO 8859)
- Ergonomic hard key layout
- Interactive back lighting
- Integrated recording keys of up to three devices
- Integrated gel holders
- User configurable probe holders

### Touch Screen

- 10.4 in high-resolution, color, touch, LCD Screen
- Interactive dynamic software menu
- Backlight adjustment

# Vivid E9 User Manual

**Hans van Assen, Peter  
Bovendeerd, Tammo Delhaas**



## **Vivid E9 User Manual:**

**Manual of 3D Echocardiography** Eduardo Casas Rojo, Covadonga Fernandez-Golfin, José Luis Zamorano, 2017-03-15

This book is a practical guiding manual to explain critical clinical practice in three dimensional 3D echocardiography The use of this technology has been limited to certain pioneer imaging units but with the advent of lower cost hardware it is spreading and reaching more users that will start to use it often without previous experience or formal academic training This title provides these readers with a full review of the features clinical indications and methodological aspects of 3D echo in a practical how to do it way 3D echocardiography techniques are becoming more diverse as they are applied to transthoracic and transesophageal studies 3D wall motion tracking fusion of echocardiographic and fluoroscopy navigation fusion of wall motion tracking and coronary tomography All these aspects are described and explained deeply in this book

Advanced Computing Techniques in Engineering and Technology Ramesh C. Bansal, Vladan Devedzic, Richi Nayak, Basant Agarwal, Ankush Tandon, Pooja Jain, 2025-09-17 This volume constitutes the proceedings of 2nd International Conference on Advanced Computing Techniques in Engineering Technology ACTET 2025 in Jaipur India during February 12 13 2025 The 30 full papers presented in this volume were carefully reviewed and selected from 106 submissions They focus on all aspects of distributed computing machine learning optimization algorithms and interdisciplinary applications of computing technologies

**Manual of Cardio-oncology** Chiara Lestuzzi, Stefano Oliva, Francesco Ferraù, 2017-10-13 This concise and handy manual provides straightforward up to date guidance for cardiologists and other practitioners on the management of cancer patients with cardiac problems whether they be due to the cancer itself or to antineoplastic treatment Detailed attention is devoted to the various forms of cardiotoxicity associated with chemotherapy and radiotherapy The drugs commonly responsible for each toxicity are identified and clear advice is offered on monitoring techniques and treatment approaches In addition the issue of cardiotoxicity due to cancer treatment in particular patient groups children the elderly and those with pre existing cardiac disease is addressed separately with guidance on when and how antineoplastic and or cardiological treatments should be modified Further sections describe the correct responses to cardiac problems secondary to the cancer itself including thromboembolic disorders and electrolyte imbalances and the diagnosis treatment and follow up of cardiac tumors A closing section considers how to improve cooperation between oncologists cardiologists and general practitioners to ensure that cancer patients cardiovascular needs are met in a multidisciplinary approach

**Textbook of Real-Time Three Dimensional Echocardiography** Luigi Badano, Roberto M. Lang, Jose Luis Zamorano, 2010-12-07 This Textbook will give the reader a detailed understanding of the use of 3D echo covering a wide range of topics from the evolution of RT3D echo to the role of RT3D echo in drug trials including chapters on the Principles of Transthoracic and Transesophageal Real time 3D echocardiography Other books in this area are more varied less specific

**Textbook of Three-Dimensional Echocardiography** Luigi P. Badano, Roberto M. Lang, Denisa Muraru, 2019-08-14 This thoroughly revised textbook provides a

practically applicable guide to three dimensional echocardiography 3DE Background is provided on the evolution of the technology and physics that support the implementation of both transthoracic and transesophageal approaches to 3DE The incremental value of 3DE to assess cardiac chambers is also described Moreover a range of cardiac valvular diseases including the mitral aortic and tricuspid valve have been portrayed and illustrated in depth These include congenital abnormalities regurgitation and stenosis Emphasis is also placed on technical aspects of the technique and where it can provide added value including post surgery assessments and evaluation of cardiac masses Textbook of Three Dimensional Echocardiography enables readers to develop a deep understanding of how to use this imaging modality It provides a valuable resource for the echocardiography trainee looking to develop their knowledge and for the experienced practitioner seeking a comprehensive up to date reference Women in cardiovascular imaging Adelina Doltra,Sabina Gallina,Claudia Prieto,Anna Vittoria Mattioli,2023-08-30 **Ischemic Myocardial Injury and Protection: From Bench to Bedside** Hui Gong,Hongmei Tan,Yaoliang Tang,2022-06-07 Kaplan's Cardiac Anesthesia - E-Book Joel A. Kaplan,2023-06-09 Current comprehensive and evidence based Kaplan s Cardiac Anesthesia Perioperative and Critical Care Management 8th Edition offers practical guidance from today s international leaders in cardiac anesthesiology helping you to optimize perioperative outcomes avoid complications and ensure maximum patient safety Dr Joel A Kaplan along with an expert team of associate editors guides you through today s clinical challenges including expanded coverage of critical care the newest approaches to perioperative assessment and management state of the art diagnostic techniques and cardiovascular and coronary physiology Covers the full spectrum of contemporary cardiothoracic anesthesia practice including preoperative assessment physiology pharmacology monitoring transesophageal echocardiography coagulation specific cardiac procedures extracorporeal circulation postoperative pain treatment and management of the complex patient with cardiac disease Includes expanded coverage of critical care topics reflecting the increased perioperative care now provided by anesthesiologists in the ICU Contains new chapters on Structural Heart Disease Procedures Cardiorespiratory Effects of COVID 19 Critical Care Ultrasound Intensive Unit Management of Patients on Mechanical Circulatory Support and Postoperative Care of the Heart and Lung Transplant Patient Features more than 900 full color illustrations decision trees charts and graphs over one third are new that aid in visual understanding of complex topics Provides access to over 120 videos including a range of echocardiography clips Contains balanced dependable and updated content on all aspects of the anesthetic management of cardiac surgical procedures as well as cardiology procedures performed in catheterization and electrophysiologic laboratories Places new emphasis on cardiac devices requiring perioperative care including cardiac implanted electrical devices and ventricular assist devices An eBook version is included with purchase The eBook allows you to access all of the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud **Augmented Environments for Computer-Assisted Interventions** Cristian A Linte,Ziv Yaniv,Pascal

Fallavollita,2015-10-06 This book constitutes the refereed proceedings of the 10th International Workshop on Augmented Environments for Computer Assisted Interventions held in conjunction with MICCAI 2015 in Munich Germany in October 2015 The 15 revised full papers presented were carefully reviewed and selected from 21 submissions The objective of the AE CAI workshop was to attract scientific contributions that offer solutions to the technical problems in the area of augmented and virtual environments for computer assisted interventions and to provide a venue for dissemination of papers describing both complete systems and clinical applications      Computational Hemodynamics - Theory, Modelling and Applications

Jiyuan Tu,Kiao Inthavong,Kelvin Kian Loong Wong,2015-02-24 This book discusses geometric and mathematical models that can be used to study fluid and structural mechanics in the cardiovascular system Where traditional research methodologies in the human cardiovascular system are challenging due to its invasive nature several recent advances in medical imaging and computational fluid and solid mechanics modelling now provide new and exciting research opportunities This emerging field of study is multi disciplinary involving numerical methods computational science fluid and structural mechanics and biomedical engineering Certainly any new student or researcher in this field may feel overwhelmed by the wide range of disciplines that need to be understood This unique book is one of the first to bring together knowledge from multiple disciplines providing a starting point to each of the individual disciplines involved attempting to ease the steep learning curve This book presents elementary knowledge on the physiology of the cardiovascular system basic knowledge and techniques on reconstructing geometric models from medical imaging mathematics that describe fluid and structural mechanics and corresponding numerical computational methods to solve its equations and problems Many practical examples and case studies are presented to reinforce best practice guidelines for setting high quality computational models and simulations These examples contain a large number of images for visualization to explain cardiovascular physiological functions and disease The reader is then exposed to some of the latest research activities through a summary of breakthrough research models findings and techniques The book s approach is aimed at students and researchers entering this field from engineering applied mathematics biotechnology or medicine wishing to engage in this emerging and exciting field of computational hemodynamics modelling      **Insights in Heart Failure and Transplantation: 2022** Matteo Cameli,Emma Birks,2023-10-25

*Contrast Echocardiography* Harald Becher,Andreas Helfen,2019-07-03 This book provides a comprehensive overview of the practical aspects of contrast echocardiography It also covers all the material in the guidelines published by the American Society of Echocardiography ASE in 2018 and the recommendations set out by the European Association of Cardiovascular Imaging EACVI in 2017 Contrast echocardiography at present is only used in 5 10% of cases but this is expected to grow rapidly following the recommendations of the ASE and EACVI The chapters cover the approved indications and provide practical advice on how to administer the contrast agents and how to optimize the recordings as well as how to deal with the pitfalls The reader will find all the information on how to use contrast agents for assessment of

shunts LV volumes and function as well as myocardial diseases and masses Detailed protocols are included for stress echocardiography and myocardial perfusion imaging Other topics covered include the use of contrast agents for coronary sonography and transesophageal echocardiography Contrast Echocardiography Compendium for Clinical Practice comprehensively covers all aspects of the clinical use of contrast echocardiography and has been written by two cardiologists who share their experience from their high volume echo laboratories One of the authors has been a member of both the ASE guidelines and EACVI recommendation writing groups It is therefore a critical text for echocardiographers and sonographers who perform echocardiography

**Intracardiac Echo Imaging in Atrial and Ventricular Arrhythmia Ablation, An Issue of Cardiac Electrophysiology Clinics, E-Book** Fermin Carlos Garcia,Luis Casis Sáenz,Pasquale

Santangeli,2021-05-17 This issue of Cardiac Electrophysiology Clinics Guest Edited by Drs Fermin C Garcia Luis C Saenz and Pasquale Santangeli is dedicated to Intracardiac Echo Imaging in Atrial and Ventricular Arrhythmia Ablation This is one of four issues selected each year by the series Consulting Editors Ranjan K Thakur and Andrea Natale Topics include but are not limited to How to use intracardiac echography to recognize normal cardiac anatomy Intracardiac echography to guide catheter ablation of ventricular arrhythmias in ischemic cardiomyopathy Intracardiac echography to guide ablation of parahisian arrhythmias Utility of ICE to guide transseptal catheterization for different EP procedures Intracardiac echography to guide catheter ablation of atrial fibrillation Role of intracardiac echography for transcatheter occlusion of left atrial appendage Intracardiac echography to guide catheter ablation of idiopathic ventricular arrhythmias Intracardiac echography to guide catheter ablation of ventricular arrhythmias in non ischemic cardiomyopathy Intracardiac echography to guide mapping and ablation of arrhythmias in congenital heart disease patients Prevention and early recognition of complications during catheter ablation by Intracardiac echography Intracardiac echography to evaluate radiofrequency lesion creation and Image integration using intracardiac echography and 3 D reconstruction for mapping and ablation of atrial and ventricular arrhythmias

Importance of body composition analysis in clinical nutrition Clelia Madeddu,Lidia Santarpiá,Maria Letizia Petroni,Alberto Bazzocchi,2023-02-15

*Functional Imaging and Modeling of the Heart* Hans van Assen,Peter Bovendeerd,Tammo Delhaas,2015-06-20 This book constitutes the refereed proceedings of the 8th International Conference on Functional Imaging and Modeling of the Heart held in Maastricht The Netherlands in June 2015 The 54 revised full papers were carefully reviewed and selected from 72 submissions The focus of the papers is on following topics function imaging models of mechanics and models of electrophysiology

**Developments in Cardiac Implantable Electronic Device Therapy: How can we improve clinical implementation?** Mate Vamos,Alexander Benz,Gabor

Duray,Julia W. Erath,2023-06-27 The use of cardiac implantable electronic devices CIEDs has substantially increased in the last decades They have a significant impact on reducing morbidity and mortality of patients suffering from cardiac arrhythmias and heart failure Several developments of technical issues have appeared over recent years to improve safety

and efficacy. However, their role in daily clinical practice is still unclear. For instance, different leadless technologies such as leadless pacemakers, subcutaneous defibrillators, or wearables are only partly or not included in the current guideline recommendations. There are also several attempts to improve clinical response to cardiac resynchronization therapy with multipoint or fusion-optimized technologies; it is, however, not clear which patients really benefit from these. The same is true for novel conduction system pacing modalities. His bundle pacing seems to be the most physiological but manually challenging compared to left bundle branch area pacing, which latter restores only the physiologic activation of the left ventricle but may be easier to perform. The classical indications for primary prophylactic ICD are also questioned based on some new study results highlighting the need for an improved, more detailed and individual risk stratification for better patient selection. We have important but somehow controversial study results regarding preventive antibiotic therapy: incremental perioperative antibiotics vs. antibiotic eluting envelope during CIED implantation. Lead extraction tools are also expanding but randomized controlled trials regarding the best approach are completely missing in this field. The importance of remote monitoring is also constantly growing, especially in the current pandemic times, the best way of patient selection needs, however, more research.

EMBEC & NBC 2017 Hannu Eskola, Outi Väisänen, Jari Viik, Jari Hyttinen, 2017-06-12. This volume presents the proceedings of the joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic Baltic Conference on Biomedical Engineering and Medical Physics (NBC) held in Tampere, Finland, in June 2017. The proceedings present all traditional biomedical engineering areas but also highlight new emerging fields such as tissue engineering, bioinformatics, biosensing, neurotechnology, additive manufacturing technologies for medicine and biology, and bioimaging, to name a few. Moreover, it emphasizes the role of education, translational research, and commercialization.

*Joint 20th Nordic-Baltic Conference on Biomedical Engineering & 24th Polish Conference on Biocybernetics and Biomedical Engineering* Piotr Ladyzynski, Dorota G. Pijanowska, Adam Liebert, 2025-07-25. This book presents the latest achievements and current challenges in the broad field of biocybernetics and biomedical engineering. The contributions include original scientific research and well-elaborated reviews of significant scientific problems. Topics covered include biomedical signal and image processing, artificial intelligence in healthcare, biomaterials, nanotechnology, regenerative medicine, prosthetics, rehabilitation engineering, biomeasurements, biomedical sensors, and health technology assessment. The authors' findings are discussed in the context of the current state of the art, contributing to the ongoing dialogue and dissemination of knowledge within the global biomedical engineering community. Based on the Joint 20th Nordic Baltic Conference on Biomedical Engineering and the 24th Polish Conference on Biocybernetics and Biomedical Engineering (NBC 2025/PCBBE 2025) held on June 16-18, 2025, in Warsaw, Poland, this book serves as a timely reference for both academics and professionals in the field.

Biomechanics of the Brain Karol Miller, 2019-08-08. This new edition presents an authoritative account of the current state of brain biomechanics research for engineers, scientists, and medical

professionals Since the first edition in 2011 this topic has unquestionably entered into the mainstream of biomechanical research The book brings together leading scientists in the diverse fields of anatomy neuroimaging image guided neurosurgery brain injury solid and fluid mechanics mathematical modelling and computer simulation to paint an inclusive picture of the rapidly evolving field Covering topics from brain anatomy and imaging to sophisticated methods of modeling brain injury and neurosurgery including the most recent applications of biomechanics to treat epilepsy to the cutting edge methods in analyzing cerebrospinal fluid and blood flow this book is the comprehensive reference in the field Experienced researchers as well as students will find this book useful

**Image Analysis And Pattern Recognition: State Of The Art In The Russian Federation** Igor B Gurevich,Vera V Yashina,2025-02-20 This collective compendium highlights the achievements of Soviet and Russian mathematical and computer science scientific schools in the area of image analysis and understanding pattern recognition artificial intelligence and adjacent fields of computer sciences and applied mathematics Contributed by renowned researchers the materials collated are original papers never published before This chapters provide good balance between fundamental and applied statements of problems and results This unique reference text benefits professionals researchers academics and graduate students in pattern recognition image analysis theoretical computer science and AI

## **Vivid E9 User Manual** Book Review: Unveiling the Power of Words

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