
Vivid E95

Vivid* E95 4D Leadership Console Package

The Vivid* E95 combines the proven breadth and performance of the Vivid product line with a new and innovative software based image processing platform: cSound*. The Vivid E95 is GE cardiovascular ultrasound's leadership scanner.

The system is designed to excel in adult 2D and 4D cardiac imaging, as well as in the following clinical application areas: pediatric cardiac, fetal, obstetrics, abdominal (incl. renal, GYN, Pelvic), pediatrics, small organ (incl. breasts, testes and thyroid), adult and neonatal cephalic, peripheral vascular, musculoskeletal conventional, urology, prostate, transesophageal, transrectal, transvaginal and intraoperative (incl. vascular, thoracic, cardiac and abdominal).

The Vivid E95 4D Leadership Console Package is delivered with:

The Vivid E95 4D Leadership console

A 22 inch high resolution wide screen OLED monitor for excellent spatial and dynamic resolution.

The USA language kit.

3 (three) days of on-site applications training

System Architecture

GE's exclusive, programmable and flexible beamforming technology, cSound, provides exceptional image quality and power compared to conventional GE hardware-based beamforming technology. In 2D, cSound offers true confocal imaging without the limitation of focal zones or sacrifice of frame rate and spatial resolution. In 4D, cSound delivers high spatial resolution at large volume sizes in full volume single beat and multi 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 E95 is designed to excel in the following areas:

Exceptional image quality is created through the

use of True Confocal Imaging. True Confocal Imaging is enabled by the cSound platform taking advantage of advanced software-based image reconstruction and innovative graphics computer technology. The Vivid E95 combines Ultra Definition Clarity filtering, HD Imaging (excellent resolution, penetration and image uniformity), Adaptive Contrast Enhancement (ACE) and virtual apex (larger field of view) to deliver a new level of image quality in GE cardiovascular ultrasound.

Probe technology

The XDclear* series of probes are designed to help deliver powerful and efficient sound waves, with high bandwidth and efficiency. XDclear probe technology provides impressive deep penetration and high sensitivity while maintaining high spatial resolution. The combination of Single Crystal, Acoustic Amplifier and Cool Stack technologies is the core technology of the XDclear series of probes.

Ease of Use features make Vivid E95 a productive 4D and 2D cardiovascular ultrasound system. Ease of use in 4D imaging is accomplished with a number of GEHC exclusive innovations, including Single Beat 4D, 4D Views, Advanced 4D User Toolbox, Advanced 4D User Quantification Package, 4D Stress Echo, 4D Auto LVQ including 4D Strain and 4D Auto AVQ.

Ease of use for the operator in 2D imaging is provided by the cSound technology delivering auto optimized excellent image quality with minimal manipulation along with automated tools like 2D Auto EF, AFI Productivity Package, AFI Stress and Scan Assist Pro.

Ergonomic features include a highly portable design with electronically adjustable height and keyboard, articulating monitor arm (horizontal and vertical), and lightweight transducers combining to make the Vivid E95 an ergonomic-friendly cardiovascular ultrasound system.

The cSound platform takes GE's Raw Data to a new level. For image processing and reconstruction, the Vivid E95 utilizes more than 100 times the data compared to its predecessor. Additionally, the Vivid E95 uses an innovative data format technology that allows for advanced processing on archived images by applying many of the same scan controls and advanced quantitative tools as are available during the original exam.

The following standard configuration items are included in the Vivid E95 4D Leadership Console Package:

- Vivid E95 4D Leadership Console

- 22 inch wide screen OLED monitor

- USA language Kit

- 3 (three) days of on-site application training (see additional description below)

- 4D single, dual, multi beat-Flexi-Volumes

- Biplane

- Triplane

- 5-slice, 7-slice, 9-slice, 12-slice

- 4D Color

Depth Color Render with multiple maps
Stereo Vision
Easy 4D (Auto LVQ, 4D Views, 4D Stress)
Advanced 4D User Package
- Auto Align, Measure on Render, Dynamic Crop/
- Dynamic 9-slice, Live 9-slice
4D workflow package:
- QuickRotate, 2-Click Crop, FlexiSlice, Laser Lines, Biplane Prepare,
FlexiZoom
Scan Assist (4D stress, 2D stress, CRT protocols)
Scan Assist Pro (protocol driven exams)
UD Clarity
4D Clarity
HD Imaging
CPI
AMM, Curved AMM
TVI, Tissue Tracking
Auto Optimization (2D)
ASO
Compound
True Confocal Imaging
Virtual apex imaging
Adaptive Contrast Enhancement (ACE)
Extended Field of View (LOGIQView)
Q-Analysis: Qstress, QTVI, QContrast
Advanced Vascular (BTI, BFI, Speckle Reduce)
eVUE, MPegVue
Z Scores for pediatrics
DICOM** Media (embedded viewer requires optional purchase)
DICOM SR (Cardiac, Vascular)
Heart Failure Report
DICOM Connectivity Package (Modality
Worklist, Print, Storage)

EchoPAC*, Patient Archive

- Report Designer, Statement Engine, Normal Values, E-Sign-off ,
Communication

Configurable prospective, retrospective capture

LVO Contrast

Applications Training: (included with the Vivid* E95 4D Leadership Console Package):

The Vivid* E95 4D Leadership Console Package includes three (3) days of On-site Applications Training. The On-site Applications Training must be completed within six (6) months after Product delivery, otherwise GE Healthcare's obligation to provide the training will expire without refund. Additional On-site Applications Training days are available for purchase. Customer workflow permitting and abiding by SDMS criteria, sonographer install CE's may be provided during install training.

The following options can be purchased for the Vivid* E95 4D Leadership Console Package

Additional On-Site Application Training days

Vascular Contrast (optional purchase)

PolarVision, Polarized Stereo Vision for use with Sony*** 3D monitor (optional purchase)

Stress (optional purchase)

AFI Productivity Package (AFI, Triplane AFI,

AFI with TEE, Peak Strain Dispersion) (optional purchase)

2D Auto EF (optional purchase)

IMT (optional purchase)

Rodent (optional purchase)

LV Mass Only (optional purchase)

4D Strain and LV Mass (optional purchase)

Advanced QScan (optional purchase)

MV Assessment (Tomtec***) (optional purchase)

4V Enable (optional purchase)

4D Auto AVQ for aortic annulus quantification (optional purchase)

HDlive* for photo realistic visualization (optional purchase)

AFI Stress (optional purchase)

RV Volume (Tomtec) (optional purchase)

Embedded DICOM viewer on media (optional purchase)

DVD, CD-R drive (optional purchase)

*Vivid, XDclear, cSound, HDlive and EchoPAC are trademarks of General Electric Company or one of its subsidiaries

**DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.

***Third party trademarks are the property of their respective owners

Sony is the registered trademark of Sony Corporation.

TomTec is the registered trademark of TomTec Imaging Systems

Vivid E90, E95 DVD Option

The Vivid E95, E90 DVD option kit includes the DVD drive (hardware) for installation on the Vivid E90, E95.

M5Sc-D XDclear* Transducer

XDclear is GE's highest performing transducer technology which is an innovative combination of advanced materials and innovative acoustic design. This phased array cardiac transducer merges matrix array with XDclear technology and provides ultra-wide bandwidth and superb image quality. Preferred applications may vary depending on the scanner running the probe, and may include cardiac, pediatrics, fetal heart, abdominal, coronary, transcranial, contrast, stress echo. Biopsy kit available.

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4D Volume Phased Array Transducer with Enable Option

Active Matrix 4D volume phased array volume transducer. Applications: Cardiac, LVO contrast, fetal heart, stress (1.5 - 4.0 MHz) with the 4V enable option included.

P2D 2 MHz CW Pencil Probe

2MHz non-imaging pencil probe for CW Doppler examinations of cardiac flow. Non-imaging. Requires CW option.

6VT-D 4D Transesophageal (TEE) probe

6VT-D is a wide band multi-frequency active matrix volume imaging transesophageal phased array probe with a bandwidth between 3.0 and 8 MHz, a 90-degree field of view and 20 cm depth of field. The distal probe tip with a dimension of 12.7 x 14.3 mm and a length of 40 mm allows excellent

imaging for cardiac diagnosis and intervention control with a small handle diameter for comfort and ergonomics. Rubber wheels provide an easy grip, especially in slippery conditions. Three user configurable on-handle push buttons for e.g. convenient plane rotation, image store and freeze functionality.

6VT-D 4D Transesophageal (TEE) probe includes one day of On-site Applications Training. The On-site Applications Training must be completed within six (6) months after Product delivery, otherwise GE Healthcare's obligation to provide the training will expire without refund. Additional On-site Applications Training days are available for purchase. Customer workflow permitting and abiding by SDMS criteria, sonographer install CE's may be provided during install training.

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Specialty Probes User Manual

Specialty probes user manual (hardcopy)

4D Automated AV Quantification

Automated alignment, segmentation and measurement of aortic valve annulus dimensions from volumetric data, including area and circumference. Results stored in worksheet.

High Definition 4D visualization

The HDlive* option provides enhanced visualization of 3D cardiovascular anatomy through use of advanced shadowing, reflection and shading algorithms in combination with advanced depth rendering techniques. HDlive operates during live acquisition and replay modes with selectable color maps.

*HDLive is a trademark of General Electric Company or one of its subsidiaries.

Vivid E95 Advanced Bundle

The Vivid* E95 Advanced Bundle option includes the following software options:

Advanced Qscan

Stress

2D Auto EF

AFI Productivity Package

4D Strain and 4D LV Mass.

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Vivid E9 Technology Course: Full Service Package

Product-specific training

Training conducted at GE Healthcare Institute

All inclusive pricing package

This 2.5-day course is designed to help customers realize the full potential of their technology investment. Instruction includes: in-depth technology review, image optimization and system customization. Highlights include technical and clinical lectures as well as focused hands-on scanning under the supervision of product experts. Course must be redeemed within one year of purchase.

Full service package includes: Course tuition, airfare, hotel and breakfast/lunch while in training for one attendee. This course is approved for SDMS credit.

EchoPAC Upgrade Kits Offerings

EchoPAC* 201 Software Only Upgrade(BT13 to 201)

Upgrade of EchoPAC Software Only from BT13 to EchoPAC 201. Included are new license keys, user manuals and installation manuals on CD/DVD.

After the EchoPAC Software Only workstation has been upgraded to the 201 level, the following standard features are included:

- o Added compatibility with Vivid E95/E90 and Vivid S70 scanners.
- o AMM
- o Q-Analysis
- o TVI, Tissue Tracking
- o Export HDF
- o Stress
- o Advanced Stress
- o MPegVue
- o DICOM Media
- o Echo DICOM®
- o Report (Designer, Structural findings, Normal Values, E Sign-off
- o Z scores
- o LA Volume Biplane Simpson

All prior enabled options are also available after the upgrade.

After the EchoPAC Software Only workstation has been upgraded to the 201 level, the following options are available for purchase:

- o HDlive (optional purchase)
- o AFI Stress (optional purchase)
- o DICOM Viewer (optional purchase)
- o 4D Auto AVQ (optional purchase)
- o 4D Package (Optional purchase that includes Multiplane, BiPlane, 4D color, MultiSlice, 4D Stress, 4D Views, 4D Auto LVQ, 4D Auto Align, FlexiSlice, 2 Click crop, Laser Lines)
- o Advanced 4D Package: (Optional purchase that includes: 4D Package Functionality, 4D Rendered Measurements, Dynamic/live multi slice (HW dependent), Dynamic crop (HW dependent), 4D LV Mass, 4D Strain)
- o AFI Package: (Optional purchase that includes: AFI, Triplane AFI, AFI with TEE)
- o Advanced QScan Package: (Optional purchase that includes: TSI, Strain, Strain Rate)
 - o Advanced Bundle (Optional purchase that includes: AFI, Auto 2D EF, Advanced Qscan, Advanced 4D package)
 - o IMT (optional purchase)
 - o 2D Strain (optional purchase)
 - o Auto 2D Ejection Fraction (optional purchase)
 - o EchoPAC Share (optional purchase)
 - o 4D LV Volume Analysis (TomTec®) (optional purchase)
 - o 4D RV Volume Analysis (TomTec) (optional purchase)
 - o Mitral Valve Assessment (TomTec) (optional purchase)
 - o 4D Polarized Stereo Vision, EchoPAC (optional purchase)

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DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.

TomTec is a trademark of TomTec Imaging Systems.

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Vivid E9 with XDclear 4D 17 inch

Vivid E9/E80/E90/E95 Service Training + Lodging

The course is an overview of the Vivid E9 product illustrating the practical skills needed to install software and peripherals, set up connectivity with other networking devices, and troubleshoot the system. Participants will be involved in basic system operations, identification of service tools and diagnostics, and disassembling the system. The course will provide a detailed explanation of the individual hardware and software components and their integration and interconnectivity with other system components. Participants will learn hands-on skills in labs designed to reinforce principles reviewed in class. Training must be redeemed within 18 months of purchase. Training is non refundable and non discountable. Pre-purchased training sold with equipment must be used by direct hospital employees only. Price includes tuition and lodging. PREREQUISITE: Essentials of Healthcare IT, R0359PG Explore Connectivity Basics for Ultrasound, or an approved IT certification.

EchoPAC SW Only BT13

EchoPAC* Turnkey to Software-Only Upgrade and Conversion: BT09, BT11, BT12 Turnkey to BT13 Software-Only.

Upgrade and conversion kit for upgrading EchoPAC* Turnkey workstation at BT09, BT11 or BT12 to

an EchoPAC Software-Only workstation at BT13. This kit includes new BT13 license keys, user

manuals and installation manuals on electronic media.

This kit converts an EchoPAC Turnkey workstation to an EchoPAC Software-Only workstation to be installed on customers' hardware, not on the existing Turnkey hardware. A hardware license key (USB dongle) is included for the new, customer supplied hardware. The existing Turnkey workstation can remain in restricted operation for access to existing patient data only.

Do not use this kit to upgrade an existing EchoPAC Turnkey workstation to BT13 and remain in operation as an EchoPAC Turnkey.

Standard features included with the EchoPAC BT13 Software-Only product:

- o AMM
- o Q-Analysis
- o TVI, Tissue Tracking
- o Export HDF
- o Stress

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- o Advanced Stress
 - o MPegVue
 - o DICOM Media
 - o Echo DICOM
 - o Report (Designer, Structural Findings, Normal Values, E-Sign-off)
 - o Z scores
 - o LA Volume Biplane Simpson

Options available for purchase: (Existing options that have been purchased for the BT09, BT11 or BT12 EchoPAC will migrate forward with the conversion and upgrade to BT13)

- 4D Package:
- MultiPlane
- BiPlane
- 4D Color
- MultiSlice
- 4D Stress
- 4D Views
- 4D Auto LVQ
- 4D Auto Align
- FlexiSlice
- 2 Click crop
- Laser Lines
- Advanced 4D package:4D Package Functionality
- 4D Rendered Measurements
- Dynamic/live multi slice (HW dependent)
- Dynamic crop (HW dependent)
- 4D LV Mass
- 4D Strain
- AFI Package
- AFI
- TriPlane AFI
- AFI with TEE

- Advanced Bundle:
 - AFI
 - Auto 2D EF
 - Advanced Qscan
 - Advanced 4D package
 - Adv QScan package:
 - TSI
 - Strain
 - Strain Rate
 - o IMT
 - o 2D Strain
 - o Auto 2D Ejection Fraction
 - o EchoPAC Share
 - o EchoPAC DICOM Share
 - o 4D LV Volume Analysis (TomTec)
 - o 4D RV Volume Analysis (TomTec)
 - o Mitral Valve Assessment (TomTec)
 - o 4D PolarVision, EchoPAC
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Trade-in 6VT 202834
Trade-in 6VT 202835
Trade-in 6VT 202666
Trade-in Vivid E9 VE9007349
Trade-in Vivid E9 VE9000716

RAM or greater

), 500 GB minimum

graphics card, models listed in the attached document or any other model that
the following parameters:

Shader 4.0 or greater

Directx 11 or greater

CUDA 2.3 or greater

2 GB VRAM or greater

n 4 USB ports

) drive/burner

monitors screen resolution minimum 32 bit, 1024 x 768 and maximum 1920 x

s 7 (64 bit) Professional or Windows 8 (32/64 bit) Professional and Enterprise