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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)

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Vivid E90, E95 DVD Option

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

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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.

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P2D 2 MHz CW Pencil Probe

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

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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. *Trademark of General Electric Company. **Third party trademarks are the property of their respective owners.

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Specialty Probes User Manual

Specialty probes user manual (hardcopy)

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TEE Probe Bite Hole Indicator

		<p>Bite hole indicator for TEE transducers. Easy test procedure, enables TEE probe testing before each use. Works with all GE TEE probes. High bite hole detection confidence (99.9%). Battery operated self-test function helps ensure proper setup.</p>
9	1	<p>Mitral Valve Assessment and Quantification (TomTec*)</p> <p>TomTec* software plug-in for Mitral Valve Quantification using the volume ultrasound data of the Vivid scanner. The semi-automatic surface detecting algorithm helps clinical users get fast, reproducible and accurate 4D visualization and quantification of the Mitral Valve, acquired with TTE or TEE probes.</p> <p>*TomTec is a trademark of TomTec Imaging systems</p> <p>Third party trademarks are the property of their respective owners</p>
10	1	<p>English Manual 4D MV Assessment</p> <p>English Manual 4D MV Assessment</p>
11	1	<p>Vivid E95 Advanced Bundle</p> <p>The Vivid* E95 Advanced Bundle option includes the following software options:</p> <p>Advanced Qscan</p> <p>Stress</p> <p>2D Auto EF</p> <p>AFI Productivity Package</p> <p>4D Strain and 4D LV Mass.</p> <p>*Vivid is a trademark of General Electric Company or one of its subsidiaries.</p>
12	1	<p>ECG Cable Set</p> <p>ECG cable set which allows connection of external ECG machine output signal with either a 9-pin Dsub, BNC, RCA, 3.5mm Jack or 6.3mm Jack plug with the</p>

ECG input of LOGIQ P6, Vivid 7 (or Vivid FiVe). Must be ordered with ECG Kit (treadmill connection) or ECG Kit for ECG hardware.

EchoPAC* Software Only v201 Package

The EchoPAC* Software Only v201 Package provides the following items:

Permanent software license key for 1 (one)

EchoPAC* Software Only v201 workstation

The Software Start Kit for 1 (one) EchoPAC* Software Only v201 workstation

Please note: This is a software only product. The computer must be supplied by the customer.

Consultation with GEHC representative is required to understand the computer hardware requirements.

Standard features included with the EchoPAC*

Software Only v201 Package:

AMM

Q-Analysis

TVI, Tissue Tracking

Export HDF

Stress

Advanced Stress

MPegVue

DICOM Media

Echo DICOM**

Report (Designer, Structural findings , Normal Values, E Sign-off)

Z scores

LA Volume Biplane Simpson

The following options can be purchased for the EchoPAC* Software Only v201 Package:

On-Site Applications training (optional purchase)

HDlive* (optional purchase)

AFI Stress (optional purchase)

DICOM Viewer (optional purchase)

4D Auto AVQ (optional purchase)

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)

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)

AFI Package: (Optional purchase that includes: AFI, Triplane AFI, AFI with TEE)

Advanced QScan Package: (Optional purchase that includes: TSI, Strain, Strain Rate)

Advanced Bundle (Optional purchase that includes: AFI, Auto 2D EF, Advanced Qscan, Advanced 4D package)

IMT (optional purchase)

2D Strain (optional purchase)

Auto 2D Ejection Fraction (optional purchase)

EchoPAC* Share (optional purchase)

4D LV Volume Analysis (TomTec***) (optional purchase)

4D RV Volume Analysis (TomTec) (optional purchase)

Mitral Valve Assessment (TomTec) (optional purchase)

4D Polarized Stereo Vision, EchoPAC* (optional purchase)

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Advanced 4D Package

Includes all the tools from the 4D Package as well as the Advanced 4D post-processing tools which includes 4D Rendered Measurements, 4D LV Mass, 4D Strain. Proper operation of this option requires special attention to the graphics board of the PC. Please consult with a GEHC representative to obtain proper specifications for the graphics board.

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Auto 2D EF

Automated 2D EF Measurement tool based upon 2D-Speckle tracking algorithm.

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Vivid E9 Service Training + Lodging and Air

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, lodging, and airfare. PREREQUISITE: Essentials of Healthcare IT, R0359PG Explore Connectivity Basics for Ultrasound, or an approved IT certification.