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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)
 *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

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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.

*Trademark of General Electric Company

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4	1	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.
5	1	P2D 2 MHz CW Pencil Probe 2MHz non-imaging pencil probe for CW Doppler examinations of cardiac flow. Non-imaging. Requires CW option.
6	1	English Manual 4D MV Assessment English Manual 4D MV Assessment
7	1	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.
8	1	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. *Vivid is a trademark of General Electric Company or one of its subsidiaries.
9	1	ECG Cable Set

		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 ECG input of LOGIQ P6, Vivid 7 (or Vivid FiVe). Must be ordered with ECG Kit (treadmill connection) or ECG Kit for ECG hardware.
10	1	<p>Black and White Printer</p> <p>Digital Black and White Video Printer. A6 Small Format Page. PAL and NTSC.</p>
11	1	<p>USB Foot Switch-3 Buttons</p> <p>This is a three pedal footswitch with configurable button functionality at application level, providing the user with flexibility during procedures like stress echo requiring additional hand support.</p>
12	1	<p>Vivid E90, E95 User Manual Hard Copy – English</p> <p>Vivid E90, E95 User Manual Hard Copy – English</p>
13	1	<p>Vivid E9 Technology Course: Full Service Package</p> <p>Product-specific training</p> <p>Training conducted at GE Healthcare Institute</p> <p>All inclusive pricing package</p> <p>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.</p> <p>Full service package includes: Course tuition, airfare, hotel and breakfast/lunch while in training for one attendee. This course is approved for SDMS credit.</p>
	1	Vivid q BT12 AM
14	1	<p>Automated Function Imaging - AFI</p> <p>Automated Function Imaging - AFI</p>

- * Parametric Imaging tool which gives quantitative data for global and segmental wall motion
- * Allows complete assessment at a glance by combining 3 longitudinal views into one comprehensive bulls-eye view
- * Integrated into M&A package with worksheet summary
- * 2D-strain-based data moves into clinical practice

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Smart Stress

Stress package with memory buffer offering pharmaceutical, treadmill and bicycle stress exam protocols with user-configurable templates and shuffle mode.

"Smart Stress" function with the ability to save over 17 imaging parameters from each imaging plane – these imaging parameters are recalled at each stress level, thereby requiring no system adjustments.

Reference loop display during acquisition for comparing resting images to each stress level (dual screen).

Advanced and flexible stress-echo examination capabilities.

Stress treadmill-exercise with more than 120 seconds of raw data continuous capture.

Possibility of extensive post-processing of images under review.

Wall motion scoring (bulls-eye and segmental).

Template Editor to customize the number of stress levels, number of views, number of heart cycles and systolic or full-cycle capture.

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AutoEF

AutoEF

Automated EF measurement tool based on the 2D-speckle tracking algorithm.

Calculation according to the Simpson algorithm.

Integrated into the M&A package with worksheet summary.

Easy to use and needs less time than conventional Simpson.

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DICOM Network Connectivity

DICOM Network Connectivity provides DICOM output to a DICOM

server and Dicom Media Interchange. Includes Verification AE, Image Export AE (network storage), Modality Worklist AE, Media Creator, Storage Commitment, Performed Procedure Step, and DICOM Print.

18	1	P2D Transducer 2 MHz Non-Imaging Single CW Doppler Transducer. Preferred Applications: Cardiac.
19	1	Safelock Cart (safe lock included) Compact cart with adjustable height, easily transportable. A one-click docking mechanism secures the system in place with both mechanical and electrical docking. No other cables to attach. System handle serves as an armrest during use for comfort and ergonomics. Includes a plastic basket, pencil probe holder, safe lock and a rear cable hanger.
20	1	English Cart regional support kit (USA-110V) Power Supply (USA - 110V)
21	1	Additional Shelf for Safelock Cart <u>Additional Shelf for Safelock Cart</u>
22	1	ECG Protector Protects the ECG connector while the system is on the cart.
23	1	Rear Bumper Protects the cart power cord connector against damage if the cart is pushed against an obstacle.
24	1	External ECG Cable ECG Cable to External ECG System
25	1	Black and White Printer Digital Black and White Printer, Sony UPD 897