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Vivid* E90 Leadership Console with OLED Monitor Package

The Vivid* E90 combines the proven breadth and performance of the Vivid product line with a new and software based image processing platform: cSound*. The Vivid E90 is GE cardiovascular ultrasound's 2D leadership scanner. The system is designed to excel in adult 2D 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 E90 Leadership Console with OLED Monitor Package is delivered with:

The Vivid E90 2D 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 beam forming technology. In 2D, cSound offers true confocal imaging without the limitation of focal zones or sacrifice of frame rate and spatial resolution. Using both coherent and harmonic image processing, the system provides computational power, ease of imaging, workflow flexibility and product upgradeability.

The Vivid E90 excels 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 E90 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 the Vivid E90 a productive cardiovascular ultrasound system. The addition of a high resolution touch panel, combined with the familiar user interface of the Vivid product line gives both new and existing Vivid users an easy and effortless start to learning this new scanner. Additional ease of use for the operator in 2D imaging is provided by the cSound technology delivering auto optimized excellent image quality with little manipulation along with automated tools like 2D Auto EF, AFI Productivity Package, AFI Stress and Scan Assist Pro.

Ergonomic features include a highly portable user adaptable design with electronic adjustable height and keyboard, articulating and height adjustable monitor arm, and lightweight transducers combining to make the Vivid E90 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 E90 utilizes more than 100 times the data compared to its predecessor, the Vivid E9. Additionally the Vivid E90 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 E90 Leadership Console with OLED Monitor Package:

- Vivid E90 2D Leadership Console

- 22 inch wide screen OLED monitor

- USA language Kit

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

Scan Assist (2D stress CRT protocols)

Scan Assist Pro (protocol driven exams)

UD 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 Pack (Modality Worklist, Print, Storage

EchoPAC* Patient Archive

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

Configurable prospective or retrospective capture

LVO Contrast

Applications Training: (included with the Vivid* E90 Leadership Console with OLED Monitor Package):

The Vivid* E90 Leadership Console with OLED Monitor 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* E90 Leadership Console with OLED Monitor Package:

Additional On-Site Application Training days

Vascular Contrast (optional purchase)

Advanced Contrast (optional purchase)

Stress (optional purchase)

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

2D Auto EF (optional purchase)

IMT (optional purchase)

Rodent (optional purchase)

Advanced QScan (optional purchase)

AFI Stress (optional purchase)

Embedded DICOM viewer on media (optional purchase)

DVD, CD-R drive (optional purchase)

6VT biplane, triplane option (does not require 4D upgrade) (optional purchase)

Upgrade to 4D operation (Transthoracic and Transesophageal 4D) (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.

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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.

3	1	<p>9L-D Linear Transducer</p> <p>Broad-spectrum linear transducer. Applications include: vascular, small parts, pediatric, and abdomen. Biopsy kit available.</p>
4	1	<p>11L-D Linear Transducer</p> <p>Broad-spectrum linear transducer. Applications include: vascular, small parts, neonatal, and pediatrics. Biopsy kit available.</p>
5	1	<p>C1-6-D XDclear Transducer</p> <p>XDclear is GE's highest performing transducer technology which is a proprietary combination of advanced materials and innovative acoustic design. Convex transducer with XDclear technology helps achieve impressive depth on patients with difficult body habitus. Applications: abdominal, obstetrics, gynecological, urology, and vascular. Biopsy kit available.</p>
6	1	<p>L8-18i-D Linear Transducer</p> <p>Broad-spectrum linear transducer. Preferred applications: musculoskeletal, small parts, vascular, intraoperative.</p>
7	1	<p>Black and White Printer</p> <p>Digital Black and White Video Printer. A6 Small Format Page. PAL and NTSC.</p>
8	1	<p>Vivid E90, E95 User Manual Hard Copy – English</p> <p>Vivid E90, E95 User Manual Hard Copy – English</p>
9	1	<p>Vivid E80, E90, E95 Reference Manual Hard Copy</p> <p>Vivid E80, E90, E95 Reference Manual Hard Copy</p>

Vivid E90 2D Cardiovascular

IMT (Intima Media Thickness)

The Intima Media Thickness (IMT) measurement option offers:

- Automated measurement of IMT rather than the conventional way of measuring the IMT manually
- Results representative of a region rather than a single point of a vessel wall
- Reduction of examination time by providing a quick and easy procedure in measuring the IMT