

1	1	<p>Vivid* E9 User Manual English</p> <p>Vivid* E9 User Manual English *Trademark of General Electric Company</p> <p>Third party trademarks are the property of their respective owners</p>
2	1	<p>Vivid* E9 with XDclear* 4D 17 inch monitor and 1 year Extended Warranty</p> <p>The Vivid* E9 with XDclear* is our leadership cardiovascular ultrasound system designed for cardiac 4D imaging, with the additional capabilities of 2D adult, contrast, pediatric, fetal/obstetrics, peripheral vascular, abdominal, transcranial, neonatal cephalic, small organ, adult cephalic, musculoskeletal, intra operative, urology/prostate, rodent and transesophageal applications. This is our 4D configuration, with a 17 inch LCD monitor.</p> <p>System Architecture:</p> <p>Accelerated Volume Architecture GE's patented, beam forming technology provides eight times the computational power as compared to the Vivid 7 with twice the volume 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 upgrade-ability. The Vivid E9 excels in the following areas:</p> <p>Exceptional Image Quality is created</p>

through the use of Accelerated Volume Architecture, Ultra Definition Clarity, Ultra Definition Speckle Reduce and advanced D-Series transducers. Probe technology:

The XDclear series of probes are designed to help deliver powerful and efficient sound waves, with high bandwidth and efficiency. This has resulted in 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 new XDclear series of probes. Ease of Use features make the Vivid E9 a very productive cardiovascular ultrasound system, including Single Beat 4D, 4D Views, 4D Stress Echo, 4D Auto LVQ, 4D Strain, 4D LV Mass, FlexiSlice, 2 Click Crop, FlexiZoom, Biplane Prepare, Scan Assist and Scan Assist Pro.

Ergonomics include highly portable user adaptable design with electronic adjustable height and keyboard, articulating LCD arm and lightweight transducers combining to make it an extremely ergonomic cardiovascular ultrasound systems. TruScan 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.

System includes three 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. Participating in advanced technology training at the GE Healthcare Institute in Metro Milwaukee can be purchased separately. Customer workflow permitting and abiding by SDMS criteria, sonographer install CE's may be provided during install training.

Standard Configuration includes:

- 4D single/dual/multi beat-Flexi-Volumes
- Biplane
- Triplane
- 5-slice/7-slice/9-slice/6-slice/12-slice
- 4D Color
- Depth Color Render, incl. Depth Illumination
- 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)

- LVO Contrast Imaging
- UD Imaging
- CPI
- AMM/Curved AMM
- TVI/Tissue Tracking
- ATO
- ASO
- CTO
- Compound
- Extended Field of View (LOGIQView)
- Q-Analysis: Qstress/ QTVI/QContrast
- Advanced Vascular (BTI/BFI/Speckle Reduce)
- eVUE/MPegVue
- Z Scores for pediatrics
- DICOM Media
- 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

The following options are available for purchase:

- Advanced technology training at GE Healthcare Institute (optional purchase)
- Vascular Contrast (optional purchase)
- Advanced Contrast (optional purchase)
- PolarVision (optional purchase)

- 2D Stress (optional purchase)
- AFI Productivity Package (AFI, Triplane AFI, AFI w/TEE) (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 (optional purchase)
- 4V Enable (optional purchase)
- Integrated DVD/CD-R (optional purchase)

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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.

4 1

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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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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6	1	9L-D Linear Transducer Broad-spectrum linear transducer. Applications include: vascular, small parts, pediatric, and abdomen. Biopsy kit available.
7	1	P2D 2 MHz CW Pencil Probe 2MHz non-imaging pencil probe for CW Doppler examinations of cardiac flow. Non-imaging. Requires CW option.
8	1	VIVID E9 ADVANCED BUNDLE The Vivid E9 Advanced Bundle option includes: Advanced Qscan Imaging SmartStress 2D Auto EF AFI Productivity Package LVO-Contrast 4D Strain 4D LV Mass.
9	1	Black and White Printer Digital Black and White Video Printer. A6 Small Format Page. PAL and NTSC.
10	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.

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Vivid E9 DVD option

The Vivid E9 DVD option kit includes the DVD drive (hardware) for installation on the Vivid E9.

12 1

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.

13 1

Vivid* BT13 Raw Data Module

Module to be installed on the Image Vault providing compatibility with the

Vivid* E9 with XDclear raw data structure as well as EchoPAC* BT13 raw data structure. The BT'13 Raw Data Module must be installed prior to the connection of Vivid with XDclear or EchoPAC BT'13 to the Image Vault. It may be installed on any version of the Image Vault 5.x even in sites where there are no Vivid E9 with XDclear scanners or EchoPAC BT'13 workstations.

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