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V.A. Medical Center  
325 EAST H STREET  
IRON MOUNTAIN, MI 49801

P.O.# 585-B80012

Item No.	QTY	DESCRIPTION
1	1	<p>Vivid" E95 4D v202 Leadership CV U/S scanner</p> <p>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.</p> <p>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).</p> <p>The Vivid E95 4D Leadership Console Package is delivered with:</p> <ul style="list-style-type: none"><li>- The Vivid E95 4D Leadership console</li><li>- A 22-inch-high resolution wide screen OLED monitor for excellent spatial and dynamic resolution.</li><li>- The USA language kit.</li><li>- 3 (three) days of on-site applications training</li></ul> <p>System Architecture</p> <p>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.</p> <p>The Vivid E95 is designed to excel in the following areas:</p> <p>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.</p> <p>Probe technology</p> <p>The XDclear* series of probes are designed to help deliver powerful and efficient sound waves, with high bandwidth and efficiency. XDclear probe technology provides</p>

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			<p>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.</p> <p>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.</p> <p>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, Scan Assist Pro and Cardiac Auto Doppler.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>The following standard configuration items are included in the Vivid E95 4D Leadership Console Package:</p> <ul style="list-style-type: none"> <li>- Vivid E95 4D Leadership Console</li> <li>- 22 inch wide screen OLED monitor</li> <li>- USA language Kit</li> <li>- 3 (three) days of on-site application training (see additional description below)</li> <li>- 4D single, dual, multi beat-Flexi-Volumes</li> <li>- Biplane</li> <li>- Triplane</li> <li>- 5-slice, 7-slice, 9-slice, 12-slice</li> <li>- 4D Color</li> <li>- Depth Color Render with multiple maps</li> <li>- Stereo Vision</li> <li>- Easy 4D (Auto LVQ, 4D Views, 4D Stress)</li> </ul>

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			<ul style="list-style-type: none"> <li>- Advanced 4D User Package</li> <li>- Auto Align, Measure on Render, Dynamic Crop/</li> <li>- Dynamic 9-slice, Live 9-slice</li> <li>- 4D workflow package:</li> <li>- QuickRotate, 2-Click Crop, FlexiSlice, Laser Lines, Biplane Prepare, FlexiZoom, FlexiViews</li> <li>- Scan Assist (4D stress, 2D stress, CRT protocols)</li> <li>- Scan Assist Pro (protocol driven exams)</li> <li>- UD Clarity</li> <li>- 4D Clarity</li> <li>- HD Imaging</li> <li>- CPI</li> <li>- AMM, Curved AMM</li> <li>- TVI, Tissue Tracking</li> <li>- Auto Optimization (2D)</li> <li>- ASO</li> <li>- Compound</li> <li>- True Confocal Imaging</li> <li>- Virtual apex imaging</li> <li>- Adaptive Contrast Enhancement (ACE)</li> <li>- Extended Field of View (LOGIQView)</li> <li>- Q-Analysis: Qstress, QTVI, QContrast</li> <li>- Advanced Vascular (BTI, BFI, Speckle Reduce)</li> <li>- Z Scores for pediatrics</li> <li>- DICOM** Media (embedded viewer requires optional purchase)</li> <li>- DICOM SR (Cardiac, Vascular, Pediatrics)</li> <li>- Heart Failure Report</li> <li>- DICOM Connectivity Package (Modality Worklist, Print, Storage)</li> <li>- EchoPAC*, Patient Archive</li> <li>- Report Designer, Statement Engine, Normal Values, E-Sign-off , Communication</li> <li>- Configurable prospective, retrospective capture</li> <li>- LVO Contrast</li> </ul>

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			<ul style="list-style-type: none"> <li>- Embedded DICOM viewer on media (optional purchase)</li> <li>- DVD, CD-R drive (optional purchase)</li> <li>- View-X (optional purchase)</li> </ul> <p>*Vivid, XDclear, cSound, HDlive and EchoPAC are trademarks of General Electric Company or one of its subsidiaries</p> <p>**DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.</p> <p>***Third party trademarks are the property of their respective owners</p> <p>Sony is the registered trademark of Sony Corporation.</p>
2	1		<p>M5Sc-D XDclear* Matrix Phased Array Probe</p> <p>Matrix Phased Array probe with GE's highest performing XDclear* transducer technology, an innovative combination of advanced materials and acoustic design providing ultra-wide bandwidth and superb image quality. Applications vary depending on the ultrasound system and may include Cardiac, Pediatrics, Fetal Heart, Abdominal, Coronary, Transcranial, Contrast, and Stress Echo. Datasheets for specific ultrasound systems contain additional details including specific applications, biopsy availability, and additional probe technical specifications.</p> <p>*Trademark of General Electric Company</p>
3	1		<p>4Vc-D XDclear* Probe</p> <p>Electronic Real Time 4D phased array probe with GE's proprietary XDclear* technology, an innovative combination of advanced materials and acoustic design. This probe provides ultra-wide bandwidth and superb image quality in a lightweight and ergonomic package. It supports all cardiac ultrasound modes, including 4D imaging. Preferred applications may vary depending on the scanner running the probe, and may include Cardiac, Pediatrics, Fetal Heart, Abdominal, Coronary, Transcranial, Contrast, and Stress Echo. Datasheets for specific ultrasound systems contain additional details including specific applications and additional probe technical specifications.</p> <p>*Trademark of General Electric company.</p>
4	1		<p>P2D CW Pencil Probe</p> <p>Non-imaging pencil probe for CW Doppler examinations of cardiac flow. Datasheets for specific ultrasound systems contain additional details including probe technical specifications.</p>
5	1		<p>High Definition 4D visualization</p>

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			<p>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.</p> <p>*HDLive is a trademark of General Electric Company or one of its subsidiaries.</p>
6	1		<p>AFI analysis combined with stress echo wall motion scoring</p> <p>The AFI Stress option provides dedicated stress analysis protocol templates combining conventional stress echo assessment with Automated Function Imaging (AFI) analysis. (AFI is GEHC's automated speckle tracking strain). At each stress level one can perform AFI analysis in order to obtain objective quantification of longitudinal contraction (strain) throughout systole. The end result displays conventional wall motion score (WMS) in bullseye form as well as AFI bullseyes from multiple stress levels.</p>
7	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>
8	1		<p>4D Auto RVQ</p> <p>The 4D Auto RVQ option provides a right ventricle quantification tool. The 4D Auto RVQ tool utilizes volume ultrasound data of the Vivid scanner, acquired with TTE or TEE probes. The semi-automatic surface detecting algorithm helps clinical users get fast, reproducible and accurate 4D visualization and quantification of the right ventricle.</p>
9	1		<p>Vivid E90, E95 DVD Option</p> <p>The Vivid E95, E90 DVD option kit includes the DVD drive (hardware) for installation on the Vivid E90, E95.</p>
10	1		<p>Multi-Link 3/5-lead ECG Care cable, AHA, 3.6 m</p> <p>Multi-Link 3/5-lead ECG Care cable, AHA, 3.6 m Used together with H45571PZ ECG lead set, adult, AHA.</p> <p>Note: Included with the console order. This cable can also be utilized for neonatal use together with adapter H45571RL and neonatal leads H45571RJ.</p>

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11	1		<p>Vivid E90 Vivid E95 v202 User Manual</p> <p>Vivid E90 Vivid E95 v202 User Manual</p>
12	1		<p>Digital Expert Onsite Training – 10 Weeks</p> <p>Licensed access for users to the online and mobile scheduling platform. Loaned use of the Digital Expert tablet based platform for GE experts to provide training sessions remotely. Includes access to 20 training courses, delivered via the Digital Expert by GE experts. A training course is one instance of a GE expert connecting to the Digital Expert system with a duration of 30 to 60 minutes. There is no limit to number of attendees. 10-week access to all Digital Expert features, begins at product delivery and GE Healthcare's obligation to provide Digital Expert training expires without refund thereafter. Shipping the Digital Expert to and from the site, remote set up, installation and tech support is included during the 10-week duration. Digital Expert storage and maintenance of operable condition is the responsibility of the customer.</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>

## OPTIONS

Not included in the total contract amount.

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14	1	<p>6S-D Phased Array Probe</p> <p>Wideband Phased Array Probe. Applications vary depending on the ultrasound system and may include Pediatric and Cardiac. Datasheets for specific ultrasound systems contain additional details including specific applications, biopsy availability, and additional probe technical specifications.</p>
15	1	<p>9L-D Linear Array Probe</p> <p>Wideband Linear Array Probe. Applications vary depending on the ultrasound system and may include Vascular, Small Parts, Pediatric, and Abdominal. Datasheets for specific ultrasound systems contain additional details including specific applications, biopsy availability, and additional probe technical specifications..</p>
16	1	<p>C1-6-D XDclear* Convex Array Probe</p> <p>Convex Array probe with GE's highest performing XDclear* transducer technology, an innovative combination of advanced materials and acoustic design providing ultra-wide bandwidth and superb image quality. Applications vary depending on the ultrasound system and may include Abdominal, OB/GYN, Urology, and Vascular. Datasheets for specific ultrasound systems contain additional details including specific applications, biopsy availability, and additional probe technical specifications.</p> <p>*Trademark of General Electric Company</p>
17	1	<p>4D Automated AV Quantification</p> <p>Automated alignment, segmentation and</p>



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18	1	<p>measurement of aortic valve annulus dimensions from volumetric data, including area and circumference. Results stored in worksheet.</p> <p>4D Auto MVQ</p> <p>The 4D Auto MVQ option provides a mitral valve quantification tool. The 4D Auto MVQ tool utilizes volume ultrasound data of the Vivid scanner, acquired with TTE or TEE probes. The semi-automatic surface detecting algorithm helps clinical users get fast, reproducible and accurate 4D visualization and quantification of the Mitral Valve.</p>
19	1	<p>Wireless USB adapter</p> <p>Wireless external G type USB adapter with extension cable and hardware for mounting on the rear panel.</p>