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Vivid q BT12 Cardiac system with Respiration

Vivid q Ultra-portable High-End Echocardiography System

Vivid\* q is a miniaturized ultra-portable high-performance cardiovascular ultrasound system. The system's performance is distinguished by advanced image quality, sensitivity, ultra-high frame rates, and speed. The Vivid q delivers premium-level portable cardiovascular ultrasound features through innovative performance, advanced quantitative analysis tools and matrix probe technology with three dimensional electronic beam focusing. The Vivid q features provide information to help improve diagnostic capabilities for Cardiac, Vascular, Pediatric, Fetal, Abdominal, and Perioperative applications.

Sophisticated measurement and analysis tools and comprehensive connectivity with a wireless network option help improve productivity and quality of care. A 15" high-quality LCD monitor provides wide-angle visibility with programmable adjustments for excellent image quality. A rechargeable battery and an advanced power management system provide approximately 1.0 hour of full scan operation when the unit is unplugged from the AC mains power source.

The Vivid q is based on GE's TruScan Architecture common to all GE Ultrasound systems. It features a powerful PC platform (with high processing power, storage, graphics capabilities and Input/Output versatility), raw data/DICOM storage with specific post-processing capabilities, record archiving and management and on-board high capacity hard disk storage. The Vivid q incorporates a comparable software platform, user interface, reporting system and connectivity features as found in leadership systems.

The system offers several options aimed at enhancing image quality, facilitating rapid interpretation, and improving diagnostic confidence for all applications provided. Such features include live Anatomical M-Mode, multiple foci control, Automatic Tissue and Spectrum Optimization, Ultra definition Image optimization, Carotid ClearVessel, LOGIQView, Smart Depth, Tissue Characteristic Optimization, Wide Aperture, Compound Imaging, B-Flow, BFI and LVO Contrast. Advanced analysis tools on the Vivid q include the easy to use and time saving AutoEF measurement, Smart Stress protocols, Tissue Velocity Imaging, Tissue Tracking, Tissue

Synchronization Imaging and IMT for automatic measurement of Intima Media Thickness. Additionally the Vivid q features Automated Function Imaging (AFI), utilizing speckle-tracking technology to provide information about the global LV function and regional contraction differences. A wide selection of transducers, including phased array, linear, curved-linear, pencil and TEE provide comprehensive testing capabilities for children and adults. Intra Cardiac Echo Imaging (ICE) catheters broaden the approach to interventional imaging. All transducers, except the 9T-RS pediatric TEE probe and the i12L-RS intraoperative probe, offer Harmonic Imaging and feature the ComfortScan design, including a small and ergonomic housing, a lightweight pliable cable, and a miniaturized snap-on RS connector, to help promote maximum comfort of the patient and operator.

A wide range of connectivity options helps improve productivity. These options include compatibility with the EchoPAC\* review station, the Image Vault, DICOM\*\* servers, and DICOM printers. Removable storage media options include DVD/CD, USB flash cards, and an MO disk.

The MPEGvue option allows clinicians to save patient records to a local storage device or to a remote shared volume in the compact high-quality MPEG4 format (in addition to AVI, JPEG, and BMP formats). The MPEGvue Player/browser can be installed on any Standard PC to view MPEG4-compressed images, measurements, or reports. The "eMail" menu option allows users to send MPEG4 records as Microsoft Outlook email attachments to a remote destination, via an Internet connection.

The eVue option provides interactive remote monitoring of images acquired by the Vivid q from a PC networked to the system, via wired or wireless network communication.

The system is fully compatible with the Vivid line of Cardiovascular Ultrasound systems (Vivid E9, Vivid 7, Vivid S5, Vivid S6 and Vivid i), including the EchoPAC review station, which duplicates the raw-data analysis, report design and report generation capabilities of the console. In addition, the system offers seamless DICOM Standard compatibility, which enables network solutions for large- and small-scale operations alike.

System includes two 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.

Standard Configuration includes:

- Coded Harmonic Imaging
- CTO / ATO / ASO
- Tissue Characteristic Optimization (TCO)
- Anatomical M-Mode (AMM)
- Tissue Spectral Doppler
- Dual Focus (Cardiac Applications)
- Wide Aperture (Linear and Curved array Probes)\*\*\*
- Compound (Linear and 4C-RS Probes)\*\*\*
- Ultra Definition Speckle Reduction Imaging (SRI)
- Ultra Definition Adaptive Reject
- Coded Phase Inversion (CPI)
- Read and Write Zoom
- Carotid ClearVessel\*\*\*
- Integrated Patient Archive
- Report gen. w / template editor
- Battery Pack
- Direct Connect to EP
- DICOM Media
- USB Export
- ECG with Respiration
- LOGIQView\*\*\*
- Virtual Convex\*\*\*

The following options are available for purchase:

- Smart Stress (optional purchase)
- AutoEF (optional purchase)
- AFI (optional purchase)
- TVI & Tissue Tracking (optional purchase)

- TSI (optional purchase)
- Strain/SRI (optional purchase)
- QA (optional purchase)
- Smart Depth (optional purchase)
- LVO Contrast (optional purchase)
- IMT\*\*\* (optional purchase)
- B-Flow / BFI\*\*\* (optional purchase)
- TEE Probe Interface Module (optional purchase)
- ICE probe interface module (optional purchase)
- Ob/Gyn Application Module\*\*\* (optional purchase)
- External Respiration Interface (optional purchase)
- DVD/CD R/W Drive (optional purchase)
- DICOM Network Connectivity (optional purchase)
- MPEGVue (optional purchase)
- eVue (optional purchase)
- Virtual Printer (optional purchase)
- WLAN Option (optional purchase)
- CardioLab Support (optional purchase)
- Carto Interface (optional purchase)

\*Trademark of General Electric Company

\*\*DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.

\*\*\*Only available with the Vascular Application option. Third party trademarks are the property of their respective owners.

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Vivid i/q BT12 USA Regional Language Kit

The Vivid i/q BT12 USA Regional Language Kit

3 1

Automated Function Imaging - AFI

Automated Function Imaging - AFI

\* 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

4 1

SI/SRI

Strain Imaging & Strain Rate Imaging for Vivid q BT11

Research tool, providing Strain Imaging and Strain-Rate Imaging modalities for tissue Doppler imaging data. Needs Q-Analysis (H450312B) to display calibrated Curves over the heartcycle.

5 1

QA

Q-Analysis option for quantification of Tissue Doppler modalities

- Enables AMM, cAMM, Velocity Traces for TVI data in QA screen (postprocessing)
- Enables quantitative Analysis including Strain Rate and Strain Traces in combination with Strain Imaging
- Enable Event timing AVO, AVC, MVO, MVC

6 1

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.

7 1

AutoEF

AutoEF

		<p>Automated EF measurement tool based on the 2D-speckle tracking algorithm.</p> <p>Calculation according to the Simpson algorithm.</p> <p>Integrated into the M&amp;A package with worksheet summary.</p> <p>Easy to use and needs less time than conventional Simpson.</p>
8	1	<p>DICOM Network Connectivity</p> <p>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.</p>
9	1	<p>WIRELESS USB ADAPTER</p> <p>WIRELESS USB ADAPTER</p>
10	1	<p>TEE Probe Interface Module</p> <p>TEE Probe Interface Module for the 6T and 9T Multiplane Transesophageal Phased Array Transducers.</p>
11	1	<p>M4S-RS Matrix Phased Array Transducer</p> <p>Wide-band multi-frequency transducer with bandwidth between 1.5 and 3.6 MHz. Applications include: cardiac, pediatric heart, coronary, fetal heart, adult cephalic, abdominal and renal.</p>
12	1	<p>6Tc-RS Multiplane Transesophageal Phased Array Transducer</p> <p>Wide band multi-frequency phased array probe with harmonics (bandwidth between 2.9 and 8.0 MHz) for transoesophageal applications. The distal probe tip with a dimension of 12 x 14 mm and a length of 45 mm allows excellent imaging for cardiac diagnosis and intervention control. Small handle diameter for comfort and ergonomics. Handle is fully submersible for easy disinfection. Rubber wheels with easy grip, especially in slippery conditions. An integrated step motor allows multiplane scanning, with one-button press for switching between orthogonal planes. Requires H45021D TEE Probe Interface Module.</p>
13	1	<p>P2D Transducer</p> <p>2 MHz Non-Imaging Single CW Doppler Transducer. Preferred</p>

Applications: Cardiac.

14	1	<p>TEE Clip-on Bite Guard for Adults</p> <p>TEE clip-on bite guard for adults. Supports adult TEE investigations and can easily be connected over instruments after it has been placed in the esophagus. U-formed, semi hard, oral bite block, which gives protection for teeth and instruments. Made of a special latexfree plastic mixture to give patients an extra soft feeling. The longer wings should be placed outside the mouth.</p>
15	1	<p>Bite Guard - for Adult Use</p> <p>TEE Bite Guard - Conventional for Adults Conventional Bite Guard Supporting Adult TEE Investigation. It is a Keyhole Type, Semi Hard, Oral Bite Block, Which Gives Protection for Teeth and Instruments. This Bite Guard is Made of a Special Latexfree Plastic Mixture to Give Patients an Extra Soft Feeling. In Awake and Polyclinic Patients We Recommend This Solid Grey Bite Guard with Longer Wings. The Wings Should be Placed Outside the Mouth.</p>
16	1	<p>Safelock Cart (safe lock included)</p> <p>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.</p>
17	1	<p>English Cart regional support kit (USA-110V)</p> <p>Power Supply (USA - 110V)</p>
18	1	<p>External ECG Cable</p> <p>ECG Cable to External ECG System</p>
19	1	<p>DVD option for Vi_q</p> <p>DVD option for Vi_q</p>
20	1	<p>Specialty Probes User Manual</p> <p>Specialty probes user manual (hardcopy)</p>

**Vivid i Basic Service Tuition, Lodging & Air Package**

Course package price includes prerequisites US Basic Physics/Instrumentation CD and Cardiac Applications CD. The Vivid i Service Class is a 5 day class that introduces the new Vivid i portable architecture for the cardiology ultrasound products. This course assumes participants are experienced in the basics of Ultrasound service. The course is a combination of classroom and hands-on lab exercises. Emphasis is placed on the operation, service operation, configuration, calibration, installation, networking, connectivity, troubleshooting and repair using user and service documentation and the global service interface for diagnostic software. 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, meals, lodging & air.

**TRADE IN****Model IE33, 02L6PR, 565EE16161**