

VA ST PETERSBURG, FL
PO# 516-B40016

Item No. QTY

DESCRIPTION

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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 TruScanTm

Item No. QTY	DESCRIPTION
	<p>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.</p> <p>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.</p> <p>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</p>

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	<p>regional contraction differences</p> <p>A wide selection of transducers, including phased array, linear, curved-linear, pencil and TEE provide comprehensive testing capabilities for children and adults. Intro Cardiac Echo Imaging (ICE) catheters broaden the approach to interventional imaging. All transducers, except the 9T-RS pediatric TEE probe and the 112L-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.</p> <p>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</p> <p>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</p>

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	<p>destination, via an Internet connection.</p> <p>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.</p> <p>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. Standard Configuration includes:</p> <ul style="list-style-type: none"> • 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)

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	<ul style="list-style-type: none"> • 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*
	Options:
	<ul style="list-style-type: none"> • Smart Stress • AutoEF • AFI • TVI & Tissue Tracking • TSI • Strain/SRI • QA • Smart Depth • LVO Contrast • IMT* • B-Flow / BFI* • TEE Probe Interface Module • ICE probe interface module • Ob/Gyn Application Module* • External Respiration Interface • DVD/CD RAW Drive • DICOM Network Connectivity • MPEGVue • eVue • Virtual Printer • WLAN Option

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		<ul style="list-style-type: none"> • CardioLab Support • Carto Interface <p>* Only available with the Vascular Application option</p>
2	1	<p>Vivid i/q BT12 USA Regional Language Kit</p> <p>The Vivid i/q BT'12 USA Regional Language Kit</p>
3	1	<p>Automated Function Imaging - AFI</p> <p>Automated Function Imaging - AFI</p> <p>* Parametric Imaging tool which gives quantitative data for global and segmental wall motion</p> <p>* Allows complete assessment at a glance by combining 3 longitudinal views into one comprehensive bulls-eye view</p> <p>* Integrated into M&A package with worksheet summary</p> <p>* 2D-strain-based data moves into clinical practice</p>
4	1	<p>SI/SRI</p> <hr/> <p><u>Strain Imaging & Strain Rate Imaging for Vivid q BT11</u></p> <hr/> <p>Research tool, providing Strain Imaging and Strain-Rate Imaging modalities for tissue Doppler imaging data. Needs Q-Analysis (H45031ZB) to display calibrated Curves over the heartcycle.</p>
5	1	<p>Intima Media Thickness measurement - IMT</p> <p>The Intima Media Thickness (IMT) measurement option offers</p>

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6	1	<p>* Automated measurement of IMT rather than the conventional way of measuring the IMT manually</p> <p>* Results representative of a region rather than a single point of a vessel wall</p> <p>* Reduction of examination time by providing a quick and easy procedure in measuring the IMT</p> <p>LVO Contrast</p> <p>LV Contrast enhances delineation of the LV border in combination with ultrasound contrast agents. The new implementation of GE's Coded Phase Inversion (CPI) provides high resolution detection of contrast in the LV cavity and excellent suppression of myocardial tissue signals.</p>
7	1	<p>Tissue Velocity Imaging and Tissue Tracking - TVI and TT</p> <p>Tissue Velocity Imaging - TVI</p> <p>* Myocardial Doppler imaging with color overlay on tissue image</p> <p>* Tissue Doppler data can be acquired in background during regular 2D imaging</p> <p>* Segmental wall motion analysis can be obtained with use of anatomical M-mode from digital replay or image clipboard recall</p> <p>* Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information</p> <p>* Quantitative profiles (Q-Analysis) can be derived on data transferred to EPPC</p>

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8	1	<p>workstation</p> <p>Tissue Tracking</p> <ul style="list-style-type: none"> * Real-time display of the time integral of TVI for quantitative display of myocardial systolic displacement * Myocardial displacement is calculated and displayed as a color-coded overlay on the grayscale and M-mode image - different colors represent different displacement ranges <p>Tissue Synchronization Imaging - TSI</p> <p>Tissue Synchronization Imaging - TSI</p> <ul style="list-style-type: none"> * Imaging which gives information about synchronicity of myocardial motion * Delayed myocardial segments produce red overlay whereas segments moving in normal rhythm are green * Available in live scanning as well as an offline calculation derived from TVI data * Including velocity trace visualization Requires TVI and Tissue Tracking to be installed.
9	1	<p>QA</p> <p><u>0-Analysis option for quantification of Tissue Doppler modalities</u></p> <ul style="list-style-type: none"> • 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

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		<ul style="list-style-type: none"> • Enable Event timing AVO, AVC, MVO, MVC
10	1	<p>AutoEF</p> <hr/> <p><u>AutoEF</u></p> <p>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.</p>
11	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>
12	1	<p>Vivid q BT12 Vascular Application module</p> <p>Vivid q BT12 Vascular Application module</p>
13	1	<p>TEE Probe Interface Module</p> <p>TEE Probe Interface Module for the 6T and 9T Multiplane Transesophageal Phased Array Transducers.</p>
14	1	<p>M4S-RS Matrix Phased Array Transducer</p> <p>Wide-band multi-frequency transducer with bandwidth</p>

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		between 1.5 and 3.6 MHz. Applications include: cardiac, pediatric heart, coronary, fetal heart, adult cephalic, abdominal and renal.
15	1	<p>12L-RS Linear Array Transducer</p> <p>Multi-Frequency transducer with bandwidth between 5 and 13 MHz.</p> <p>Applications include: Small Parts, Peripherals, Vascular, Pediatric and Orthopedic Applications. FOV 38.4mm.</p>
16	1	<p>P2D Transducer</p> <p>2 MHz Non-Imaging Single CW Doppler Transducer. Preferred Applications: Cardiac.</p>
17	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>
18	1	<p>English Cart regional support kit (USA-110V)</p> <p>Power Supply (USA -110V)</p>
19	1	<p>Additional Shelf for Safelock Cart</p> <p><u>Additional Shelf for Safelock Cart</u></p>
20	1	<p>Extra Shelf for Safelock Cart</p> <p><u>Additional Shelf for SAFELock CART</u></p> <p>An extra shelf for attaching to</p>

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		SAFELOCK CART to provide additional storage for Vivid i/Vivid q peripherals / accessories etc.
21	1	ECG Protector Protects the ECG connector while the system is on the cart.
22	1	External ECG Cable ECG Cable to External ECG System
23	1	Footswitch with 3 programmable pedal. Foot Switch (MKF 2- MED GP261with 3 programmable pedal.
24	1	DVD option for Vi_q DVD option for Vi_q
25	1	Specialty Probes User Manual Specialty probes user manual (hardcopy)
26	1	ICE User Manual ICE User Manual - English
27	1	Vivid i/q English Service Manual Vivid i/q Service Manual in English.
28	4	Cardiac Applications Training - One day One day cardiac applications training for Vivid i, Vivid q, Vivid S5 or Vivid S6.
29	1	Vivid i Basic Service Tuition, Lodging & Air Package Course package price includes prerequisites US Basic

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	<p>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 St air.</p>