

**100672 Q-Station**

**System Type:** New  
**Freight Terms:** FOB Destination  
**Warranty Terms:** Part numbers beginning with two (2) asterisks (\*\*) are covered by a Per Contract. All other part numbers are third (3rd) party items.  
**Special Notations:** Contingencies must be removed 120 days before scheduled shipment to assure delivery on specified date. Any rigging costs are the responsibility of the Purchaser.

**Additional Terms:**

Line #	Part #	Description	Qty	Each	Price
1		<b>Q-Station 3.0 Core Module</b>	1		
		<p><b>Q-Station 3.0 Core Module</b> - The core provides a studies screen that allows the user to manage patient exams from a list, select them for viewing, import and export exams from media or PACS, and navigate to viewing, reporting and export functions. It includes intelligent Wall Motion Scoring tool for stress echo that automatically links anatomical and bulls-eye scoring models to the stage and view of the image. Includes DICOM query and retrieve and export to PACS capabilities.</p> <p>Includes Q-Assistant application for viewing and configuring options, media locations, connections to Ultrasound systems and PACS, backup and restore functions, diagnostics, and remote service. Includes Q-Admin application for configuration of the Q-Station analysis packages and for mapping of 3rd party ultrasound systems.</p> <p>Includes the ability to access existing reports or create new ones. Reports are created using MS Word (required but not included) and are stored and exported using Adobe PDF or DICOM encapsulated PDF formats. Report includes configurable sections for institutional information, patient demographics, Wall Motion Scoring diagrams, key images, qualitative findings (adult echo), measurements, summary and comments. Adult Echo, Pediatric Echo, and Vascular measurements sent from Philips ultrasound systems or created using optional analysis packages on Q-Station will automatically appear on the report. DICOM regional calibration is supported all ultrasound images.</p> <p>Includes the ability to create DICOM secondary captures of single and multi-frame images. It includes the ability to export images and exams to media, network shares, PACS or DICOM archives. Export functions include anonymization and image masking tools. Includes the ability to read DICOM SR files. The core software is installed on a customer's existing PC hardware, and registered via internet. The core product includes a serial number that allows 2 registrations. PC must meet minimum hardware and software specifications.</p>			
2		<b>Adult Echo Analysis Package</b>	1		
		<p>Provides the ability to perform measurements and calculations on ultrasound images using MTL (measure then label) or LTM (label then measure) workflows. Measurements and calculations can be displayed on the Q-Station report. Measurements can be saved and exported as DICOM Structured Reporting objects. Includes the Q-Admin Tool that allows users to configure measurements and calculations, and map 3rd party DICOM SR measurements to already defined labels.</p>			
3		<b>Cardiac 2D Bundle</b>	1		
		Includes ROI, IMT, SQ, aCMQ			
4		<b>Cardiac 3D Bundle</b>	1		
		Includes the 3DQ and 3DQA apps			
5		<b>HeartModel Q-App (HM)</b>	1		

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The Heart Model Q-App automatically detects and segments the heart chambers within a 3D volume, and generates the routine 2D apical and short axis views in end-diastole and end-systole for adult hearts. The HeartModel measures the left ventricular and left atrial global volume data at ED and ES and calculates the LV EF. Users can edit global and/or regional borders. Compatible with EPIQ 7C using X5-1 transducer.

6		<b>English Manual</b>	1		
		Operation Manual			

7		<b>US 1 Day Onsite Q-Station CES Training</b>	1		
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**US 1 Day Onsite Q-Station CES Training** - One (1) day of onsite training on Q-Station software reviewing image management and reporting, QLAB integration and study query and retrieve. Q-Station must be installed prior to training being scheduled. The CES (Clinical Education Specialist) trainer is not able to install customer software during this training.

Education is provided Monday - Friday during normal business hours.

personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. The training sessions should be attended by staff who have been identified by the department director that they will be using Q-Station. Site must be patient-ready. Onsite training day expires within one (1) year from purchase date.

## 101930 Affiniti 70 Ultrasound System

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1		<b>Affiniti 70 CV System</b>	1		
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Affiniti features an uncompromised level of clinical performance to meet the challenges of today's busy ultrasound practices

- New tablet like interface revolutionizes how you interact with the system resulting in a reduction in exam reach and exam steps.
- Large 21.5-inch high definition LCD display mounted on fully articulating extension arm for easy viewing in virtually any environment
- Infinite articulation of control panel and monitor allows for perfect alignment whether sitting or standing (180 degrees of freedom from center) to scan ergonomically
- Almost silent when running (37-41dB) – equivalent to the sound of a library
- 4 transducer ports
- Integrated footrest
- Integrated storage shelves and drawer
- 4 wheel swivel and swivel/brake lock control
- Up to 4,718,592 total digital channels
- Exclusive adaptive signal to noise ratio that achieves system dynamic range of up to 280 dB for improved 2D
- Powerful distributed multi-core processing architecture capable of achieving 225 x 109 40-bit Multiply-Accumulates/second. Includes 512 GB hard drive
- Windows Embedded Standard 7 Operating System
  - Next Generation SonoCT Real-Time Compounding, with Widescreen capability and up to 9 beam-steered lines of sight that acquires more information and reduces angle-generated artifacts
- next generation XRES Adaptive Image Processing for noise and artifact reduction to improve tissue and border definition
- Fully independent, multiple mode Triplex operation
- Vascular High-Q Automatic Doppler provides real-time tracking of Doppler signal, automatically selecting the highest peak velocity and with the touch of a button, adding measurements to your report.

### Transducers

Advanced Compact connector technology offers pinless design for exceptional reliability and performance

- Ergonomic designs with lightweight flexible cables
- New low-loss technology for better penetration with fewer artifacts
- Breakthrough frequency bandwidths and array configurations
- Supports array configurations up to 20 MHz – sector, linear, curved, tightly curved, TEE and mechanical volume transducers

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### Automation

Designed with our most innovative tools to maximize efficiency

- Autoscan (real time iSCAN) automatically optimizes gain and TCG continuously to assure you are achieving an optimal image in 2D, 3D and 4D.
- Vascular High-Q Automatic Doppler provides real-time tracking of Doppler signal, automatically selecting the highest peak velocity and with the touch of a button, adding measurements to your report
- Intelligent Tissue Specific Imaging
- Application-specific and user definable Quicktext Automatic Annotation
- QuickSAVE User Defined Programs (up to 45 per transducer)

### Data

- On-board workstation-class data management with thumbnail previews and storage of images, loops and reports
- Retrospective and prospective clip capture to internal drive or removable media
- Ability to send X,Y & Z volume MPR's to most PACS
- Ability to export QLAB native data

### Other Core Features

Adult Cardiology Clinical Option

- Tissue Specific Imaging software for specific transducers in Adult echo ultrasound applications
- Display optimization software with Tissue Specific presets for Adult echo imaging and Doppler application
- Analysis software package includes adult echo imaging protocol and report
- Battery back-up
- Color Power Angio
- Tissue Harmonics and Pulse Inversion Harmonic Imaging
- 2D, M-Mode, Anatomic M-mode, Color Flow Doppler, Pulsed Wave Doppler (PW), High PRF PW Continuous Wave Doppler, Chroma Imaging, Tissue Doppler Imaging, Pulse Inversion, Cineloop Image, M-mode and Doppler Review
- High Definition Write Zoom and Read Zoom with pan features
- Chroma Imaging
- Measurement tools including: distance, depth, area, and circumference
- Volume Flow Measurements

Allows operation of S5-1, S4-2, S8-3, L15-7io, X7-2T, S7-3T, D2tcd and D2cwc transducers

### NetLink DICOM

Provides network print and store, commit, modality worklist, and structured reporting for adult and pediatric echo, vascular, and OB/GYN. Integrated Wireless DICOM with WEP2 security capability. Also enables DICOM Query and Retrieve (optional capability).

### Transducer Cable Management

Unique cable management system that keeps cables tangle and damage free, while also decreasing cable strain for greater operator comfort while scanning. Provides cable management for two transducers.

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		<b>Safeguard</b> This is a standard computer administration tool used to prevent unauthorized programs (malware) from running on the ultrasound system.			
		<b>Security Plus</b> Security Plus provides a Defense-in-depth strategy implementing security features designed to help healthcare facilities provide additional patient data privacy, and protection from unauthorized access via the ultrasound systems on hospital networks. New data security enhancements will make EPIQ and Affiniti compatible with data security on medical devices. Requires Evolution 2.0 or later. This feature does not include or require SafeGuard (malware protection).			
		<b>Freehand 3D</b> Allows acquisition of 3D freehand uncalibrated data with any linear or curved array probe except motorized transducers			
		<b>S-Video</b>			
		<b>Clinical Education</b>  ***2 days of Implementation Onsite Training (expires 90 days after install, provided Mon-Fri during normal business hours) and an E-Learning subscription; Basic System Training course for two people (expires 180 days after install).  personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. The training sessions should be attended by the appropriate healthcare professional as identified by the department director. Repeat training for staff non-attendance will not be accepted. Site must be patient-ready to meet training expectations.			
		<b>BST ONLINE COURSE</b> (qty 2) –The Basic System Training e-learning curriculum is focused on Ultrasound System. The aim of this comprehensive series is to provide the Sonographer/Echocardiographer with a comprehensive bundle of self paced courses to familiarize you with your ultrasound system.			
2		<b>Government Security</b> Required by all DoD customers. This option disables VNC capabilities (which if enabled would provide remote desktop support) for increased security of data.	1		
3		<b>Contrast Card</b> Ability to image using contrast agents to assess Left Ventricular Opacification (LVO). Transducers supported are S5-1 and S4-2.	1		
4		<b>Stress Protocol</b> Allows for acquisition of echocardiography single frame or loops of the left ventricle in any imaging mode including 2D, color, and spectral Doppler. Affiniti 30: Requires S4-2 transducers for image acquisition. Affiniti 50: Requires S4-2 transducers for image acquisition. Affiniti 70: Requires S5-1 or S4-2 transducers for image acquisition.	1		
5		<b>Footswitch</b> Footswitch provides the ability to freeze, acquire and print.	1		
6		<b>2D Quantification bundle</b>	1		

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### Cardiology 2D Q-App Bundle

Includes: ROI Q-App, IMT Q-App, aCMQ Q-App, a2DQ and Strain Quantification Q-App

- Region of interest Q-App (ROI): Designed to increase the consistency and reliability of acoustic measurements while reducing the effort required to successfully perform ROI analysis for contrast imaging, tissue analysis and color Doppler

- Intima Media Thickness Q-App (IMT) : Provides automated measurements of intima media thickness in carotids and other superficial vessels, and eliminates the need to manually position cursors, minimizing the time needed to complete an IMT study.

- Strain Quantification Q-App (SQ) : Measures the myocardial velocity from Color Tissue Doppler (aka TDI) datasets and derives the displacement, strain and strain rate along user-defined M-Lines; includes ability to overlay opening and closing of aortic and mitral valves on SQ curves to display Left Ventricle mechanical events; and the user-selectable waveform display makes SQ curves easier to read.

- Automated Cardiac Motion Quantification Q-App (aCMQ): Automatically draws a region of interest based on the selected anatomical view, (user can edit the ROI if desired) and generates measurements of the global and regional functions and reports them in a table, a 17-segment bull's eye, and a variety of waveform displays. It additionally computes LV Ejection Fraction (EF), End Systolic Volume (ESV) and End Diastolic Volume (EDV).

- Automated 2D Quantification Q-App (a2DQ): Automatically draws a region of interest based on the selected anatomical view, (user can edit the ROI if desired) and generates LV Ejection Fraction (EF), End Systolic Volume (ESV) and End Diastolic Volume (EDV). Also provides an in-depth report displaying areas, volumes and advanced parameters for LV systolic and diastolic function including: LV Ejection Fraction (EF), Peak Ejection Rate (PER), Peak Rapid Filling Rate (PRFR) and Atrial Filling Fraction (AFF). TMAD allows visualization and quantification of Atrio-Ventricular Annulus planes motion in order to assess cardiac global function in an easy workflow that facilitates trending reports.

### Clinical Education

**1 Day Entitlement ACT with Travel** - The 1 Day Advanced Customer Training (ACT) course with travel consists of advanced intensive training on the selected ultrasound system and includes the corresponding travel package.

Entitlement Advanced Customer Training (ACT) Tuitions expire within 180 days from system or upgrade installment date. Due to travel and scheduling requirements, a twenty-one (21) day notification of cancellation is required or training / education entitlements will be forfeited. Curriculum is subject to change without notice.

Travel & Accommodations for one (1) registered attendee. Includes one (1) participant's airfare from a customer location to a Ultrasound Clinical Education training location with modest lodging, ground transportation and meal expenses for 1 day. Breakfast/dinner are provided by the hotel and lunch/breaks are catered by Philips Healthcare. All other expenses will be the responsibility of the attendee (ie. Baggage fees, meals while traveling, transportation to and from customer's home airport). Details are provided during the scheduling process.

\*\*\*TUITION IS ONLY VALID WHEN PURCHASING A CONFIGURATION WITH 2D QLAB\*\*\*

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Line #	Part #	Description	Qty	Each	Price
		Provides both 3DQ and 3DQA Q-Apps. Cardiac 3D Quantification Q-App (3DQ): Provides easy access to Live 3D, 3D Zoom, Full Volume and 3D Color data sets; Offers viewing, cropping, slicing and quantification including distance measurements, area, Bi-plane LV Volume, Ejection Fraction (EF) and LV Mass calculations; 3DQ also provides Multi-planar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and 3D iSlice generation. Cardiac 3D Advanced Quantification Q-App (3DQ Advanced): Provides display and manipulation of dynamic three-dimensional rendering and left ventricular (LV) volumes. Multi-planar Reconstruction (MPR) views provide unlimited anatomical planes from 3D volume. Measures LV endocardial volumes, stroke volume (SV) and true 3D ejection fraction (EF) using a semi-automated border detection in 3D space. Computes global and regional LV volumes based on ACC 17-segment model. Displays global LV volume waveform and provides selective display of 17 regional volume waveforms. Offers timing assessment for each 17 minimal regional volumes and determine a synchronicity index for all volume segments or a user-selectable group of volume segments. Provides comprehensive report with summary of synchronicity indexes and displays regional Timing and Radial Excursion Parametric Images in bull's eye representation.			
8		<b>X7-2t Transducer</b>	1		
		High frequency xMATRIX sector array transesophageal transducer with PureWave Crystal technology. Fully functional transducer with 7 to 2 MHz extended operating frequency range that images in 2D. Includes M-Mode, PW doppler, CW doppler, harmonics, true electrocautery suppression, and adaptive autocool. Includes ECG interface cable, and 1 disposable tip protector. Includes 1 year warranty.			
9		<b>S5-1 PureWave Transducer</b>	1		
		PureWave transducer with 5 to 1 MHz extended operating frequency range for adult and pediatric cardiology, abdominal, vascular and TCD applications.			
10		<b>D2cwc Transducer</b>	1		
		Non-imaging 2 MHz PW/CW Doppler transducer for cardiac applications			
11		<b>xMATRIX xPlane and Live 3D TEE</b>	1		
		Provides a combination of functionality when using xMATRIX transducer in both 2D and Live 3D modes: Live xPLANE: ability to image and acquire 2 orthogonal 2D images. The orthogonal plane can be tilted in the lateral or elevation plane as well as be rotated. Works in 2D and in color flow for xMATRIX X7-2t transducer. Live 3D: ability to perform real time Live 3D (dynamic 3D) allowing assessment of structures and its relationship within the anatomy, in greyscale and color Doppler. Provides a combination of functionality for improved workflow for cropping – AutoView, Quickview, FaceCropping. Live 3D Full Volumes: ability to capture a large volume in Live 3D. Designed to encompass the entire heart. Can be performed in greyscale or with color Doppler. Multiple acquisition modes available, from 1 to 6 beats cardiac cycles (X7-2t only). Live 3D zoom: Zoom functionality optimized for detailed Live 3D imaging of specific anatomic structures (X7-2t only).			
12		<b>English Manual</b>	1		
		Operation Manual			
13		<b>DVD Drive</b>	1		
		Integrated DVD/CD burning capability for storage of DICOM images or export in JPEG and .avi for PC compatibility.			
14		<b>QLAB CV 2D Bundle (2 Pk)</b>	1		

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		<b>QLAB CV 2D 2-Pack Bundle</b>			
		Provides a single software kit that enables QLAB applications aCMQ, IMT, ROI, SQ, and a2DQ on up to 2 (two) workstations. PC must meet minimum hardware and software specifications. Enables the integration of QLAB applications on up to 2 (two) approved 3rd party vendor workstations. Users can create and save DICOM secondary capture images and selected QLAB measurements to the exam for future review and analysis (dependent on 3rd party implementation). Check with 3rd party vendor for latest compatibility			
15		<b>QLAB 10 System</b>	1		
		The core provides a Studies screen that allows the user to manage patient exams from a list, select them for viewing, import and export exams, and navigate to viewing functions. The View screen provides the ability to view DICOM ultrasound images from any compliant system in 4-up or 1-up modes, and stress echo by stage or by view. Adult echo, Pediatric Echo, and Vascular measurements sent from ultrasound systems in DICOM SR format are viewable in the View screen. DICOM regional calibration is supported for basic unlabeled measurements. Export functions include the ability to export images and or exams in DICOM and PC formats. PC format export includes image area masking for anonymization purposes. Includes Q-View DICOM viewer that can be written to media. Q-View supports viewing ultrasound and other DICOM images and supports stress echo viewing. The core software is installed on a customer's existing PC hardware, and registered via the Internet. Includes Q-Assistant app for configuration of options, media locations, connections to ultrasound systems, and backup and restore functions. The core product includes two registrations.			
16		<b>English Manual</b>	1		
		Operation Manual			
17		<b>Promo Affiniti Online Bundle</b>	1		
		This promotion provides a subscription for one person to access one of the four following online eLearning options: (1) Cardiac Echo online courses, (2) Women's Healthcare online courses, (3) General Imaging online courses, OR (4) Vascular online courses. The goal of the curricula is to provide the Sonographer/Echocardiographer with a comprehensive bundle of self-paced courses covering relevant topics. This online tuition expires 180 days after the system install.			
18		<b>Trade in Allowance</b>	1		
		Customer represents and warrants that (i) Customer has, and shall have when title passes, good and marketable title to the equipment being traded in and (ii) has the authority to effect such trade in. Product: GE MEDICAL SYSTEMS VIVID 7 DIMENSION FLAT SCREEN Serial Number: V79714 Manufacturer: GE MEDICAL SYSTEMS CAPITAL			



