

SHIP TO: WAREHOUSE B91022  
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Qty	Product
1	EPIQ CVx 3D Ultrasound System
1	3D Leadership Software Package
1	Mitral Valve Navigator Q-App (MVN)
1	a2DQ
1	AutoSTRAIN
1	Cardiac TrueVue
1	Battery Std Life Pkg
1	Government Security
1	5-1 Transducer
3	8-2t Transducer
1	2CWC Transducer
1	English Manual
1	OLED Display Monitor

#### Options

Qty	Product
1	US2799 EPIQ-Affiniti CTC4

Line #	Part #	Description	Qty
1	<b>**NNAP990</b>	<b>EPIQ CVx 3D Ultrasound System</b>	<b>1</b>

EPIQ CVx is a new version of EPIQ for premium 3D echo, designed for cardiology featuring an uncompromised level of clinical performance to meet the challenges of today's most demanding practices – the most powerful architecture ever applied to ultrasound imaging – touching all aspects of acoustic acquisition and processing allowing you to truly experience Ultrasound's evolution to a more definitive modality.

Supported by our family of proprietary xMATRIX transducers and our leading edge of Anatomical Intelligence, this platform offers our highest level of premium performance.

Reinvention of the premium ultrasound user experience

- New tablet like configurable interface revolutionizes how you interact with the system resulting in a smoother workflow with improved layout and configuration.

- Lightest premium system in its class (230 pounds) – 40% lighter than the heaviest competitive premium system.

- Infinite articulation of control panel and monitor allows for perfect alignment whether sitting or standing (720 degrees of freedom) to scan ergonomically

- Almost silent when running (37-41dB) – equivalent to the sound of a library

- 4 transducer ports

- Ambient lighting of transducer connectors and the peripheral housing bay

- Integrated footrest

- Integrated storage shelves

- 4-wheel swivel and swivel/brake lock control

The most powerful architecture ever applied to ultrasound imaging

- Proprietary nSight architecture - a totally new way to form ultrasound images – all without compromise.

The combination of a new precision beamformer and massive parallel processing allow EPIQ CVx to receive and process an enormous amount of acoustic data allowing the system to focus down to the pixel level...all in real time.

- Up to 7,071,744 total digital channels (xMATRIX configuration)

- Up to 4,718,592 total digital channels (non xMATRIX configuration)

- Exclusive adaptive signal to noise ratio that achieves system dynamic range of up to 320 dB for improved 2D

- Windows 10 Operating System

- Philips 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

- Philips next generation XRES Adaptive Image Processing for noise and artifact reduction to improve tissue and border definition

- Fully independent, multiple mode Triplex operation

- Active Native data for post-processing of frozen image data and Cineloop image data

- MaxVue High Definition Ultrasound with over a 1 million more pixels and 38% larger viewing area

Transducers

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

Line #	Part #	Description	Qty
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- 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 xMATRIX volume transducers

#### Automation

Designed with our most innovative tools to maximize efficiency

#### Anatomical Intelligence

- EPIQ CVx supports the full range of 2D and 3D Anatomical Intelligence tools to provide reproducible and reliable results, including HeartModel.

AUTOSCAN (real time iSCAN) automatically optimizes gain while imaging and TCG continuously to assure you are achieving an optimal image in 2D & Live 3D.

- Intelligent Tissue Specific Imaging
- Application-specific and user definable Quicktext Automatic Annotation
- QuickSAVE User Defined Programs (up to 45 per transducer)
- SmartExam system-guided protocols with new features that include exam record and automatic mode switching to greatly improve workflow efficiencies
- Vascular Auto Doppler automatically adjusts color box position and angle, as well as sample volume placement and angle. Also includes Auto Flow Tracking for automatic angle correction with sample volume movements
- 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.

#### Data

- Multi Modality Query Retrieve (Allows for the viewing of DICOM CT, iXR, NM, MRI and ultrasound images – you can review these images while you are live imaging)
- NetLink/DICOM 3.0 provides network print and store, commit, modality worklist, DICOM Query and Retrieve, and structured reporting for adult and pediatric echo and vascular
- DICOM 3.0 Print and Store capability to internal drive or DVD/CD
- Integrated Wireless DICOM
- 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 export QLAB native data

#### Other Core Features

- Live 3D and xPlane imaging.

Provides a combination of functionality when using xMATRIX transducers in both 2D and Live 3D modes.

iRotate: ability to electronically rotate the 2D imaging plane without rotating the transducer. iRotate can be used in 2D and color flow. 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 (all xMATRIX transducers). 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. Zoom functionality optimized for detailed Live 3D imaging of specific anatomic structures. (all xMATRIX transducers). 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 true 1 beat to 6 beats cardiac cycles all with high volume rates. Includes MultiVue; a real-time image alignment feature to improve efficiencies during procedures. (X5-1, X7-2, X8-2t and X7- 2t only).

- Tissue Doppler Imaging
- Coronary sub-mode for 2D and color imaging of coronary arteries (S5-1, S9-2, S8-3, S12-4, X5-

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- 1, X7-2, X8-2t, X7-2t).
- Cardiac Stress Echo, with Defer Selection and Live Compare functions
- 2D, M-Mode, Color Doppler, PW, High PRF PW, CW
- Temporary ID
- LVO Contrast
- Cineloop Image, M-Mode and Doppler Review
- High Definition Write Zoom and Read Zoom with pan features
- Measurement tools including: distance, depth, area, and circumference
- Volume Flow Measurements
- User Defined Calculations
- Application-specific Body Mark selections
- Color Power Angio

### **Safeguard**

This is a standard computer administration tool used to prevent unauthorized programs (malware) from running on the ultrasound system.

### **Security Plus**

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).

### **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.

### **DVD Option**

Integrated DVD/CD burning capability for storage of DICOM images or export in JPEG and .avi for PC compatibility.

### **Clinical Education**

**EPIQ (CV) Clinical Education;** \*\*\*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).

\*\*\*Note: Philips Healthcare 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.

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**If you are purchasing Live 3D with a New System you will receive;** \*1 Day offsite Advanced Customer Training course for one (expires 180 days after install), a 3 Day offsite University (expires 275 days after install), A Post University Integration onsite class (expires 365 days after install), and one subscription to E-Echocardiography.com (must be activated within 90 days of code notification). All offsite training includes travel, see travel disclaimer\*\*

**If you are purchasing Live 3D as an upgrade you will receive;** \*\*\*1 day of Implementation Onsite Training (expires 90 days after install, provided Mon-Fri during normal business hours) and a \*1 Day offsite Advanced Customer Training course for one (expires 180 days after install). All offsite training includes travel, see travel disclaimer\*\*

\*If purchased with 2D Quantification Bundle, offsite advanced customer training tuitions must be used consecutively.

\*\*TRAVEL Disclaimer: Travel & Accommodations for registered attendees. Each tuition includes one (1) participant's airfare from a North American customer location to a Philips North America Ultrasound Clinical Education training location with modest lodging, ground transportation and meal expenses for the course duration. 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. Note: 21 day Cancellation/Rescheduling policy is strictly enforced.

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2		<b>3D Leadership Software Package</b>	1
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#### **CV Clinical Package**

**Adult Echo:** 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 applications
- Analysis software package includes a adult echo imaging protocol and r
- eportAllows operation of S5-1, X5-1, X8-2t, X7-2t, S9-2, S8-3, L15-7io, S7-3t, S8-3t and D2cwc transducers.

#### **Pediatric Echo: Ped ECG**

- Tissue Specific imaging software for specific transducers in pediatric cardiac ultrasound applications
- Display optimization software with Tissue Specific presets for pediatric cardiac imaging and Doppler applications
- Unique Analysis software package includes a dedicated pediatric cardiac imaging protocol and report, as well as fetal echo analysis  
Allows operation of S8-3, S12-4, S5-1, X5-1 D2cwc, and S7-3t transducers.

**Fetal Echo:** Tissue Specific Imaging software for specific transducers in fetal echo ultrasound applications

Line #	Part #	Description	Qty
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- Display optimization software with Tissue Specific presets for fetal echo imaging and Doppler applications
- Analysis software package includes a fetal echo imaging protocol and report

Allows operation of C5-1, C9-2, S9-2, S8-3, X6-1 and eL18-4 transducers.

**Vascular:** Tissue Specific Imaging software for specific transducers in vascular ultrasound applications

- Display optimization software with Tissue Specific presets for vascular imaging and Doppler applications
- Analysis software package includes a vascular imaging protocol and report;

Provides vascular reporting and allows operation of eL18-4, L12-3, L12-5, L18-5, L15-7io, C5-1, C8-5, D5cwc transducers.

**TCD:** Tissue Specific Imaging software for appropriate sector array and non-imaging static Doppler transducers in Trans Cranial Doppler ultrasound applications

- Analysis software package includes a TCD protocol and report, and Tissue Specific Imaging settings

Allows operation of S5-1, X5-1 and D2tcd Transducers.

#### **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) providing an angle-independent analysis of regional myocardial-tissue velocity, displacement, strain, and strain rate, using the latest Philips speckle-tracking technology. aCMQ generates measurements of the global and regional functions and reports them in a table, a 17 or 18-segment bulls eye, and a variety of waveform displays. It additionally computes LV Ejection Fraction (EF), End Systolic Volume (ESV) and End Diastolic Volume (EDV).

#### **Dynamic HeartModel and 3D Quantification Bundle**

Dynamic HeartModel, powered by AIUS, is a fully automated Live 3D quantification tool that calculates both the volumes of the LV and LA simultaneously, as well as an LV EF and SV in under 30 seconds. It quantifies Live 3D volumes using the X5-1 transducer and is designed to provide faster, easier and more robust results than previously available, on the majority of your patients.

The Dynamic HeartModel. App provides dynamics of the heart by showing moving contours for the left ventricle and left atrium which ensures higher diagnostic confidence. Dynamic HeartModelA.I. offers new measurements such as LV Mass, Cardiac Index, Complete LA volumes, and Indexed measurements using Body Surface Area for LA Max and LA Min volumes. This App allows the user to analyze multiple beats and average the results.

3DQ provides easy access to Live 3D, 3D Zoom, Full Volume, and 3D Color data sets. It offers viewing, cropping, slicing, and quantification including distance measurements, area, Bi-plane LV Volume, Ejection Fraction (EF) and LV Mass calculations. 3DQ also provides Multiplanar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and new 3D iSlice generation.

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3		<b>Mitral Valve Navigator Q-App (MVN)</b>	1
		The Mitral Valve Navigator uses Anatomic Intelligence and is designed to take a Live 3D volume of the Mitral Valve and turning it into an easy to interpret model in 6 guided steps –providing access to a comprehensive list of MV measurements and calculations. MVN guides you through the entire process using simple commands and clear graphics making this a much easier tool to use than previous mitral quantification tools. Results derived from MVN can be seen on the screen as they become available – speeding up the process of accessing the data required.	
4		<b>a2DQ</b>	1
		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	
		If you are purchasing aCMQ with a New EPIQ CVx System, you will receive *1 Day offsite Advanced Customer Training course for one (expires 180 days after install). All offsite training includes travel, see travel disclaimer**	
		**TRAVEL Disclaimer: Travel & Accommodations for registered attendees. Each tuition includes one (1) participant's airfare from a North American customer location to a Philips North America Ultrasound Clinical Education training location with modest lodging, ground transportation and meal expenses for the course duration. 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. Note: 21 day Cancellation/Rescheduling policy is strictly enforced.	
5		<b>AutoSTRAIN</b>	1
		TOMTEC AutoSTRAIN provides automated speckle tracking to analyze global longitudinal strain (GLS) from three cardiac apical views. Includes Bullseye diagrams for regional strain display, and waveform display for global and each apical view.	
6		<b>Cardiac TrueVue</b>	1
		Cardiac TrueVue is a photo-realistic 3D image rendering technology that emulates light propagation in tissue. It includes a light source that is movable anywhere within the 3D data set. Cardiac TrueVue is available in Live imaging as well as in review on the following xMATRIX transducer: X8-2t, X8-2ti, X7-2t, X5-1 and X7-2. Also provides touchscreen manipulation of the 3D data set via TouchVue.	
7		<b>Battery Std Life Pkg</b>	1
		Highly recommended for portable ultrasound studies. Allows system to be placed in sleep mode and booted up in 20 seconds. Allows activation of the smart handle when not plugged in to central power.	
8		<b>Government Security</b>	1
		Required by all DoD customers. This option disables VNC capabilities (which if enabled would	

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9		<b>X5-1 Transducer</b> xMATRIX transducer with PureWave Crystal Technology. xMATRIX transducer with 5 to 1 MHz extended operating frequency range for adult echo applications in 2D, Live xPlane and Live 3D modes. Highly-functional, ergonomic design that operates in all imaging modes, making it practical for everyday use.	1
10		<b>X8-2t Transducer</b> High frequency xMATRIX sector array transesophageal transducer with PureWave Crystal technology. Fully functional transducer with 8 to 2 MHz extended operating frequency range that images in 2D, Live xPlane, Live 3D, 3D Zoom, Full Volume and 3D color modes. Includes M-Mode, PW Doppler, CW Doppler, harmonics, true electrocautery suppression, and adaptive autocool. Provides a user configurable button on the handle to assist with certain workflow efficiencies during TEE exam. Includes ECG interface cable, and 1 disposable tip protector.	3
11		<b>D2CWC Transducer</b> Non-imaging 2 MHz PW/CW Doppler transducer for cardiac applications.	1
12		<b>English Manual</b> Operation Manual	1
13		<b>OLED Display Monitor</b> 22" second generation OLED monitor for optimal display of echocardiography images. Increase in dynamic range and color gamut, as well as a 180° viewing angle, makes the OLED the best monitor for viewing in the different clinical environments required.	1



## OPTIONS

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Description	Qty
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1	<b>US2799 EPIQ-Affiniti CTC4</b>	1
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Course Number: US2799  
 Course Title: EPIQ - Affiniti Biomed  
 CSIP Level: All course materials are on CSIP level 1  
 Course Length: 3.5 day(s)  
 Delivery Method(s): ILT  
 Modality: US  
 Location: PHC, CTC, SLC, HCA, Local  
 Target Audience: Hospital Engineers  
 System Code(s): Associated system code(s):  
 EPIQ: 795200,795201,795202,795204,795205,795206  
 Affiniti: 795208, 795209, 795210, 795211  
 Document Date: 2016-01-13

### DESCRIPTION:

This course prepares the customer's service technician to perform routine and corrective service tasks for the EPIQ and Affiniti systems in support of the Philips Field Service Engineer.

### PREREQUISITES:

US9080 Ultrasound Essentials for Biomed. (recommended, but not required)

### COURSE OBJECTIVES:

Upon successful completion of the course the learner will be able to:

- Describe and differentiate the EPIQ and Affiniti products.
- Support the installation of the systems by the FSE.
- Configure EPIQ and Affiniti systems.
- Operate the EPIQ and Affiniti systems.
- Describe the basic theory of operation of the EPIQ and Affiniti systems.
- Use the First Responder tools provided with the Philips Support Center (PSC) the EPIQ and Affiniti systems.
- Perform basic preventative and corrective maintenance tasks.

\* PHILIPS PROPRIETARY MATERIALS SUCH AS DIAGNOSTIC SOFTWARE AND SERVICE DOCUMENTATION ARE NOT INCLUDED IN THE TRAINING AND WILL NOT BE AVAILABLE FOR USE OUTSIDE OF THE TRAINING ENVIRONMENT. THE TRAINEE MUST RETURN ALL PROPRIETARY MATERIALS RECEIVED DURING THE TRAINING AT THE END OF THE TRAINING. CUSTOMER ACKNOWLEDGES AND AGREES THAT NEITHER CUSTOMER NOR TRAINEE WILL RECEIVE A LICENSE TO SUCH PROPRIETARY MATERIALS AND THAT THE TRAINEE MAY NOT BE ABLE TO FULLY UTILIZE THE TRAINING WITHOUT THE USE OF SUCH PROPRIETARY MATERIALS. (CERTAIN LICENSES MAY BE OBTAINED THROUGH PURCHASE OF AN ALLIANCE CO; OP AGREEMENT.) Course dates and location to be finalized by Philips. Philips shall attempt to accommodate Customer requested dates and training location. The price quoted includes course tuition. Travel and living expenses are not included, but may be purchased separately through Philips.

IMPORTANT Notes Regarding Admission to Philips Customer Engineer Training Courses:

**OPTIONS**

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- 1. Trainee must meet all prerequisites
- 2. Course expires one (1) year from equipment installation date (or purchase date if sold separately)
- 3. Customer must sign Philips Nondisclosure statement
- 4. Trainee must sign Philips Nondisclosure statement
- 5. Customer must sign Philips terms and conditions of training