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EPIQ 7 is a new direction for premium ultrasound 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 interface revolutionizes how you interact with the system resulting in dramatic reduction of exam reach and exam steps. (11% reduction in total steps, 80% reduction in long reaches)
- Lightest premium system in its class (230 pounds) – 40% lighter than the heaviest competitive premium system.
- Large 21-inch high definition LCD display for easy viewing in virtually any environment
- 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 (37-41bD) – 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 7 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 192 dB for improved 2D
- Sixteen core processing computer with 1 Tbyte hard drive and 4 GByte graphics display
- 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

### **Transducers**

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

- 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

- 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 with WEP security
- 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
- Integrated DVD/CD burning capability for storage of DICOM images or export in JPEG and .avi for PC compatibility
- Ability to export QLAB native data

### **Other Core Features**

- Tissue Doppler Imaging

- 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

### **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.

### **xMATRIX xPlane**

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

iRotate: ability to the 2D imaging plane without rotating the transducer. iRotate can be used in 2D and color flow. Can also be incorporated into 2D Stress Echo protocols to minimize acquisition times and improve reproducibility of images at different stages (X5-1 and X7-2t only). 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).

### **EPIQ 7 DVD Option**

### **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.

<b>2</b>	**	<b>CV Clinical Option Pkg</b>	<b>1</b>
		Includes the following:	
		- Adult Echo	
		- Ped Echo	
		- Fetal Echo	
		- Vascular	
		- TCD	
<b>3</b>	**	<b>Battery Std Life Package</b>	<b>1</b>
		Highly recommended for portable ultrasound studies. Allows system to be place in sleep mode and booted up in 20 seconds. Allows activation of the smart handle when not plugged in to central power.	
<b>4</b>	**	<b>X5-1 Transducer Compact</b>	<b>1</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.	
<b>5</b>	**	<b>D2CWC Transducer</b>	<b>1</b>
		Non-imaging 2 MHz PW/CW Doppler transducer for cardiac applications.	
<b>6</b>	**	<b>English Manual</b>	<b>1</b>
		Operation Manual	
<b>7</b>	**	<b>1st SVC Manual for Gov</b>	<b>1</b>
<b>9</b>		<b>Trade in Allowance</b>	<b>1</b>

Product: 100622.000 iE33 Ultrasound System  
 Serial Number: B00JMQ  
 Manufacturer: PHILIPS HEALTHCARE