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## Epiq 7G System

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### EPIQ 7 GI Ultrasound System

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. (15% reduction in total steps, 40% to 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
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- 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 volume transducers (mechanical and xMATRIX)

## **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.
- SmartExam system-guided protocols with new features that include exam record and automatic mode switching to greatly improve workflow efficiencies
- Vascular Auto Doppler flow optimization automatically adjusts color box position and angle, automatically adjust 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.
- Intelligent Tissue Specific Imaging
- Application-specific and user definable Quicktext Automatic Annotation
- QuickSAVE User Defined Programs (up to 45 per transducer) Data
- Multi Modality Query Retrieve (Allows for the viewing of DICOM CT, Mammography, 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, vascular, and OB/GYN
- 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 send X,Y & Z volume MPR's to most PACS
- Ability to export QLAB native data

## **Other Core Features**

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- 2D Panoramic
- Color Power Angio
- Tissue Harmonics and Pulse Inversion Harmonic Imaging
- Basic 3D Imaging capability with MPR visualization feature
- 2D, M-Mode, Anatomic M-mode, Color Flow Doppler, Pulsed Wave Doppler (PW), High PRF PW, Continuous Wave Doppler
- 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
- Tissue Doppler Imaging
- LVO contrast
- Stress Echo Protocol

## **EPIQ 7 DVD Option**

### **Clinical Education**

**EpiQ (GI) Clinical Education;** \*\*\*2 days of Implementation Onsite Training (expires 90 days after install, provided Mon-Fri during normal business hours), an E-Learning subscription; Basic System Training course for two people (expires 180 days after install) and a \*1 Day offsite Advanced Customer Training course for one (expires 180 days after install). All offsite training includes travel, see travel disclaimer\*\*

\*Must be used consecutively with other offsite advanced customer training tuitions associated with the same system, if purchased with other options that include offsite advanced customer training; offsite advanced customer training will be limited to a maximum of 2 consecutive days.

\*\*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.

\*\*\*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.

All Tuitions must be registered prior to the expiration date. The course chosen must be taken within 90 days of expiration.

**xMATRIX xPlane** Provides a combination of functionality for improving workflow when using xMATRIX transducers in 2D modes:

- iRotate: ability to electronically rotate 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).

#### **X6-1 / C5-1 Transducer**

PureWave xMATRIX transducer with 6-1 MHz extended operating frequencies for abdominal and OB applications. Unique high density array of over 9200 fully sampled elements allows 2D, xPlane and Live volume images. C5-1 PureWave Broadband Curved Array Transducer with a 5 to 1 MHz extended operating frequency range. (on GI EPIQ only).

### **3      \*\*                                      Radiology Clinical Package                                      1**

Includes the following:

- Abdominal Clinical Option
- Gynecology Clinical Option
- Vascular Clinical Option
- Pediatric Clinical Option
- Small Parts Clinical Option
- Musculoskeletal Clinical Option
- Obstetrical Clinical Option
- Fetal Echocardiography Option
- Urology Clinical Option
- TCD Clinical Option
- Interventional Clinical Option

### **4      \*\*                                      Fusion & Navigation                                      1**

The fusion and navigation option allows the user to choose between fusion and navigation, or to use both in combination. Includes fusion and navigation instrument package as described separately. All additional tracking devices may be optionally purchased as separate line items.

#### **Clinical Education**

**Percunav, Fusion Imaging Clinical Education;** \*\*\*3 days of Implementation Onsite Training for Fusion Imaging (expires 180 days after install, provided Mon-Fri during normal business hours)

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*All Tuitions must be registered prior to the expiration date. The course chosen must be taken within 90 days of expiration*

### **5      \*\*                                      Battery Std Life Package                                      1**

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.

6	**	<b>Fusion and Navigation Instrument Package</b>	1
PercuNav Accessories required for Fusion and Navigation imaging, consists of PercuNav Patient Tracker (Quantity 3), PercuNav Ultrasound Tracker (Quantity 1), PercuNav Adaptive Needle Tracker (Quantity 2) and a choice of PercuNav transducer bracket/biopsy kit (Quantity 1). For optional additional accessories or multiple brackets please see next box: Fusion and Navigation Trackers.			
7	**	<b>30002, PNAV BX Kit, X6-1</b>	1
8	**	<b>L12-3 Transducer</b>	1
Linear array transducer with 12 to 3 MHz extended operating frequency range for vascular. Can also be used for musculoskeletal, pediatric radiology, small parts applications.			
9	**	<b>L12-5 Transducer Compact</b>	1
Fine pitch, 256 element, high resolution linear array transducer with 12 to 5 MHz extended operating frequency range for high resolution superficial applications, including small parts, breast, vascular and musculoskeletal imaging.			
10	**	<b>C8-5 Transducer Compact</b>	1
Curved Array transducer with 8 to 5 MHz extended operating frequency range for pediatric abdominal, vascular (subclavian vascular access) and neonatal cephalic imaging.			
11	**	<b>C10-3v Transducer Compact</b>	2
PureWave Curved array transducer with 3 to 10 MHz operating frequency range, end fire sector, 11.5 radius at curvature, 130 degree field of view for endovaginal applications.			
12	**	<b>ElastPQ Strain Pkg</b>	1
This package offers both elastography (strain Elastography) for breast and uterine and high frequency applications (Thyroid, MSK) and Elast PQ Shear Wave point quantification elastography for the liver.			

## Clinical Education

**If you are purchasing Elastography on a 2D EpiQ 7 you will receive;** A 3 Day offsite University (expires 275 days after install), and A Post University Integration onsite class (expires 365 days after install). All offsite training includes travel, see travel disclaimer\*\*

**If you are purchasing Elastography on a Live 3D EpiQ 7 you will receive;** A 3 Day offsite University (expires 275 days after install). Post University Integration will be included with the Live 3D option). All offsite training includes travel, see travel disclaimer\*\*

**If you are purchasing Elastography on an EpiQ 5 you will receive;** A 3 Day offsite University (expires 275 days after install). All offsite training includes travel, see travel disclaimer\*\*

**If you are purchasing Elastography 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 \*1 day of the offsite Advanced Customer Training course for one (expires 180 days after install). All offsite training includes travel, see travel disclaimer\*\*

\*Must be used consecutively with other offsite advanced customer training tuitions associated with the same system, if purchased with other options that include offsite advanced customer training; offsite advanced customer training will be limited to a maximum of 2 consecutive days.

\*\*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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13	**	<b>X6-1 Biopsy Guide</b>	<b>1</b>
		Biopsy guide for PureWave X6-1 xMATRIX transducer Biopsy guide starter kit which includes a plastic reusable biopsy bracket with multi-angle capability and disposable snap-on needle guide.	
14	**	<b>L12-5 Biopsy Guide</b>	<b>1</b>
		Biopsy guide starter kit that contains one reusable stainless steel biopsy bracket with multiple angle capability. The guide is compatible with 18 gauge needles, as well as catheters and other minimally invasive devices of the same size. The kit includes five procedure kits, each containing a polyethylene probe cover 14 x 61 cm (5.5" x 24"), gel, latex-free bands and tape strips.	
15	**	<b>C5-1 Biopsy Guide</b>	<b>1</b>
		Biopsy guide starter kit which includes a plastic reusable biopsy bracket with multi-angle capability and disposable snap-on needle guide. 4 angle biopsy guide starter kit consisting of a reusable plastic biopsy bracket and disposable snap-on needle guides. Allows accurate placement for ultrasound-guided biopsy and drainage procedures. Supports needle sizes from 14 to 23 gauge.	
16	**	<b>English Manual</b>	<b>1</b>
		Operation Manual	
17	**	<b>Fusion Navigation HW</b>	<b>1</b>
		Includes a Planar Field Generator with Stand.	
18	**	<b>2 Day PUR GI or WHC ACT w/Trav</b>	<b>1</b>
		<b>2 Day Purchased ACT with Travel</b> - The 2 Day Advanced Customer Training (ACT) course with travel consists of advanced intensive training on the selected ultrasound system and includes the corresponding travel package.	

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.

19	**	<b>3 Day PUR GI or WHC 3DU w/Trav</b>	2	<p>3 Day Purchased 3D University with Travel - A variety of Vascular, GI and WHC University course offerings are available to meet your clinical educational needs. These courses range from one to three days in length and offer a wide range of content matter. Please refer to the course catalog for a complete listing of all university courses that you can choose from. The 3 Day PUR 3D University Tuition includes both the tuition and the corresponding travel package.</p>
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20	**	1st SVC Manual for Gov	1
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21	**	Food Transpt Lodging for Cleveland Biomed Training	4
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This course prepares the customer's service technician to perform routine and corrective service tasks for the EPIQ systems in support of the Philips Field Service Engineer.

#### COURSE OBJECTIVES:

After completing this course, you will be able to:

- Describe and differentiate the EPIQ products.
  - Support the installation of the systems by the FSE.
  - Explain how to configure EPIQ systems.
  - Operate the EPIQ systems at a basic level.
  - Configure the system settings.
  - Describe the basic theory of operation of the EPIQ systems.
  - Use the First Responder tools provided with the Philips Support Connect (PSC) in the EPIQ systems.
  - Perform basic preventative and corrective maintenance tasks.
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