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## 7C 3D Innovation Pk

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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 transducers and our leading edge of Anatomical Intelligence, this platform delivers a new 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 (210 pounds) – 45% 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 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 (
- Up to 4,718,592 total digital channels (
- Exclusive adaptive signal to noise ratio that achieves system dynamic range of up to 320 dB for improved 2D
- Windows Embedded Standard 7 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

- 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 and Live 3D**

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).

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 1 to 6 beats cardiac cycles.(X5-1 and X7-2t only).

### **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.

### **Automated Cardiac Motion Quantification Q-App**

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).

- PureWave sector transducers only (S5-1, X5-1, X7-2t)

### **CV Clinical Option Pkg**

Includes the following:

- Adult Echo
- Ped Echo
- Fetal Echo
- Vascular
- TCD

### **3DQ Apps Bundle**

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 Multiplanar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and new 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 from iE33 systems. MultiPlanar 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 all 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.

### **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).

### **EPIQ 7 DVD Option**

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| <b>2</b> | <b>Physio Kit</b>  | <b>1</b> |
|          | Physio allows EPIQ to receive ECG information via leads connected to patients.   |          |
| <b>3</b> | <b>Mitral Valve Navigator Q-App<br/>(MVN)</b>  | <b>1</b> |
|          | 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. |          |
| <b>4</b> | <b>Battery Ext Life Package</b>  | <b>1</b> |
|          | Highly recommended for portable ultrasound studies. Doubles the time to be in transport mode when going mobile as compared to the Battery Standard Life. 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>5</b> | <b>X5-1 Transducer Compact</b>   | <b>1</b> |
|          | 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 f   |          |
| <b>6</b> | <b>X7-2t Transducer</b>  | <b>1</b> |
|          | High frequency                   ector array transesophageal transducer with PureWave Crystal technology. Fully functional transducer with 7 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. Includes ECG interface cable, and 1 disposable tip protector.   |          |

7	<b>Transducer Compact</b>	1
	High frequency phased array transducer with 12 to 4 MHz extended operating frequency range for pediatric and neonatal cardiology and neonatal head applications. Also can be used with the adult echo clinical option, and for intraoperative applications	

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

9	<b>1st SVC Manual for Gov</b>	1
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11	<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: 100622.000 iE33 Ultrasound System	
	Serial Number: 021 679	
	Manufacturer:	