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## **Affiniti 70 G System**

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### **Affiniti 70 GI System**

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
- 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
- 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

**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**

- Abdomen clinical option
- 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

**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).

**Easy-clip Cable Mgmt Solution**

Unique cable management system that keeps cables tangle and damage-free, while also decreasing cable strain for greater operator comfort while scanning. Two easy-clips included; enough for four transducers.

**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).

### **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.

**BST ONLINE COURSE** (qty 2) –The Basic System Training e-learning curriculum is focused on your Philips 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.

**Promo Affiniti Online Bundle** 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.

## **2      \*\*      NA Radiology Clinical Package      1**

Includes the following:

- Vascular Clinical Option (includes TCD)
- Small Parts Clinical Option
- Musculoskeletal Clinical Option
- Pediatric GI Clinical Option
- Obstetrical Clinical Option
- Gynecology Clinical Option

### **Vascular Clinical Option:**

- Tissue Specific Imaging software for specific transducers in vascular ultrasound applications
- Display optimization software with Tissue Specific presets for vascular imaging and Doppler applications, including TCD and trans-orbital
- Analysis software package includes a vascular imaging protocol and report; Provides vascular reporting

Affiniti 70: Allows operation of L12-3, L12-4, L12-5 50mm, L18-5, L15-7io, C5-1, C6-2, C8-5, D5cwc transducers.

Affiniti 50: Allows operation of L12-4, L12-5 50mm, L18-5, L15-7io, C6-2, 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

Affiniti 70: Allows operation of S5-1, S4-2 and D2tcd Transducers.

Affiniti 50: Allows operation of S4-2 and D2tcd Transducers. Small Parts Clinical Option:

**Small Parts Clinical Option:**

- Tissue Specific Imaging software for linear array transducers in Small Parts ultrasound applications
- Display optimization software with Tissue Specific presets for Small Parts imaging and Doppler applications
- Analysis software package includes a general imaging protocol and report

Affiniti 70: Allows operation of L12-3, L12-4, L12-5 50mm, and L15-7io and L18-5 transducers.

Affiniti 50: Allows operation of L12-4, L12-5 50mm, and L15-7io and L18-5 transducers.

**Musculoskeletal Clinical Option:**

- The Musculoskeletal Clinical Option was developed to support the expanding application area of musculoskeletal ultrasound.
- These TSI settings enable clinicians to select General or Superficial imaging setting.
- The musculoskeletal Tissue Specific Imaging settings support high resolution broadband transducers including:

Affiniti 70: Allows operation of L18-5, L12-5 50mm, L12-4, L12-3 and L15-7io transducers.

Affiniti 50: Allows operation of L18-5, L12-5 50mm, L12-4, and L15-7io transducers.

**Pediatric GI Clinical Option:**

- Tissue Specific imaging software for appropriate linear, phased and curved array transducers in pediatric ultrasound applications
- Display optimization software with Tissue Specific presets for pediatric imaging and Doppler applications
- Analysis software package includes a general imaging protocol and report and the following Optional Tools
  - Hip Angle
  - d:D Ratio

Affiniti 70: Allows operation of C5-1, C6-2, C9-2, C8-5, S8-3, S12,4, L12-3, L12-4, L12-5 50mm, L15-7io and L18-5 transducers.

Affiniti 50: Allows operation of C6-2, C8-5, S8-3, S12,4, L12-4, L12-5 50mm, L15-7io and L18-5 transducers.

### Obstetrical Clinical Option:

- Tissue Specific Imaging software for specific transducers in obstetrical ultrasound applications
- Display optimization software with Tissue Specific presets for obstetrical imaging and Doppler applications
- Analysis software package includes obstetrical imaging protocols, report and trending

Affiniti 70: Allows operation of C5-1, C6-2, C9-2, V6-2, C10-3v, C9-4v, S8-3, L12-3, L12-4, L12-5 50mm, C10-4ec and 3D9-3V transducers.

Affiniti 50: Allows operation of C6-2, V6-2, C9-4v, S8-3, L12-4, L12-5 50mm, C10-4ec and 3D9-3V transducers.

### Gynecology Clinical Option:

- Tissue Specific Imaging software for appropriate curved array transducers in Gynecological ultrasound applications
- Display optimization software with Tissue Specific presets for Gynecological imaging and Doppler applications
- Analysis software packages include imaging protocols and reports for:
  - include imaging protocols and reports for:
    - Uterus studies
    - Rt and Lt Ovary studies
    - Rt and Lt Follicle studies
    - Pelvic Vasculature

Affiniti 70: Allows operation of C5-1, C6-2, C10-3v, C9-4v, C10-4ec and 3D9-4v transducers.

Affiniti 50: Allows operation of C6-2, C9-4v, C10-4ec and 3D9-4v transducers.

3	**	<b>Government Security</b>	1
		Required by all DoD customers. This option disables VNC capabilities (which if enabled would provide remote desktop support) for increased security of data.	
4	**	<b>L12-5 Transducer</b>	2
		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. Can also be used for pediatric radiology, obstetrical, and abdominal applications.	
5	**	<b>C5-1 PureWave Transducer</b>	2
		For Affiniti G and W: PureWave curved array transducer with 5 to 1 MHz extended operating frequency range. C5-1 PureWave Curved Array for high performance OB/GYN, Abdominal and Interventional applications. Now, one transducer provides exceptional clinical performance for a wide range of patient types including obese and technically challenging patients.	
		For Affiniti C: PureWave curved array transducer with 5 to 1 MHz extended operating frequency range. C5-1 PureWave Curved Array for high performance Vascular and Fetal Heart applications. Now, one transducer provides exceptional clinical performance for a wide range of patient types including obese and technically challenging patients.	
6	**	<b>C10-3v PureWave Transducer</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.

7	**	<b>English Manual</b>	<b>1</b>
		Operation Manual	
8	**	<b>DVD Drive</b>	<b>1</b>
		Integrated DVD/CD burning capability for storage of DICOM images or export in JPEG and .avi for PC compatibility.	
9	**	<b>Promo Affinity Online Bundle</b>	<b>1</b>
		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.	
10	**	<b>1st SVC Manual for Gov</b>	<b>1</b>