

# the Aspen Advanced Echocardiography System

## THE NEW IMAGING GOLD STANDARD COMES TO THE ASPEN ADVANCED ECHOCARDIOGRAPHY SYSTEM.

How many times have you reviewed an ultrasound exam and thought—I wish images were clearer? Or wondered whether you were seeing pathology, or just acoustic noise? Accurate anatomical detail or merely clutter artifact?

The fact is, there has always been more to the picture. Just no way to access it.



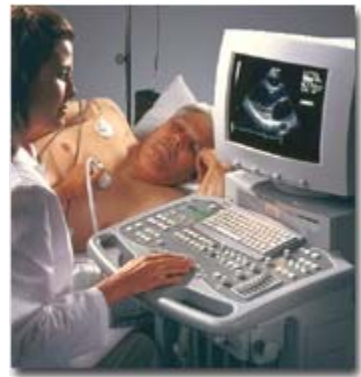
Until now. Because now there's a radical new approach to echocardiography, one that's fast rendering traditional ultrasound imaging obsolete.

This new gold standard in echocardiography is defined by Native™ Tissue Harmonic Imaging (NTHI) and DELTA Differential Echo Amplification—two powerful technologies that were first introduced on Acuson's Sequoia echocardiography system. Now they have migrated to the Aspen Advanced system.

Together they dramatically improve image quality for every cardiac patient—especially the technically difficult to image.

### **Improve image quality for every patient, every day.**

The key to this improvement is Native Tissue Harmonic Imaging (NTHI)—and only Acuson has it (patents pending). NTHI works by detecting the subtle harmonic echoes generated within the body. Then the echoes are separated from the transmitted fundamental frequency that was traditionally used to form an image. This separation virtually eliminates spurious echoes originating from the chest wall, as well as lung and rib artifacts. Since endocardial borders and myocardial tissue fill-in are clearer, you can make correct diagnoses faster, often avoiding referrals to more expensive modalities.



### **Expose every subtle tissue difference.**

DELTA Differential Echo Amplification is a patented technique that helps you visualize very small structures and anomalies—even when surrounded by tissue

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with similar acoustic properties. This makes DELTA amplification the perfect complement to Native Tissue Harmonic Imaging.

### **Take advantage of contrast agent imaging.**

Whether you're seeking enhanced LV opacification or investigating perfusion, the Aspen Advanced system has the superb sensitivity and specialized pulse-shaping required for superior contrast detection. And now it has NTHI, the world's most powerful tool for harmonic contrast agent imaging.

### **Select from a full spectrum of Doppler capabilities.**

Acuson's pioneering spectral and color Doppler have been further enhanced on the Aspen Advanced system, including two technologies invented by Acuson. DTI Doppler Tissue Imaging enables you to image moving tissue; and Convergent Color Doppler combines the increased sensitivity of Color Doppler Energy and the directionality of Color Doppler Velocity.



The 4V2c is a single-transducer solution for your entire adult echocardiography population. Like many the Aspen Advanced system functions, NTHI is instantly accessible with a single keystroke. The Aspen Advanced system has a fully programmable Integrated Stress Echo Package.

### **SEE IT BETTER, SEE IT DIGITALLY**

If you ever plan to review studies digitally, now you can. The Aspen Advanced system began with a fundamentally new concept for the design and function of an echocardiography system, one with an underlying system architecture that anticipates your need to review studies digitally. As you scan a patient in a normal way, the system automatically compresses and saves digital images, dynamic clips, measurements and calculations—just as simply as you freeze images today. That's all there is to it. You now have a complete digital exam you can send anywhere.



### **Build your digital lab on a solid foundation.**

The unique DIMAQ Integrated Ultrasound Workstation provides digital acquisition, storage, review and transfer of complete echocardiography studies. These studies include static and dynamic images, grayscale and color images, as well as measurements and calculations.

### **Review digitally and enhance your productivity.**

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ViewPro Image Review Software allows you to view complete digital studies on a personal computer with original image quality intact. Simply transfer them from the Aspen Advanced System's DICOM MO disk.



**Directly access digital studies from anywhere via the internet.**

The WebPro Web-based package allows you to use a personal computer and your web browser to rapidly view digital studies that reside on the system's DIMAQ workstation without any loss of image quality.

**Get connected through open standards.**

Embedded DICOM provides for easy integration into a cardiology image network or hospital information system using industry standards.