

HDI® 3000

Controlling Costs and Maintaining the Highest Level of Diagnostic Performance

HDI means *High Definition Imaging*



Since 1991, High Definition Imaging has stood for diagnostic excellence. Today, over 7,000 major medical research institutions, hospitals and clinics are using HDI® systems to better understand and define anatomical structures, disease states and physiology.

ATL's digital ultrasound technology is the foundation of High Definition Imaging and incorporates broadband digital beamforming, the advanced parallel processing of Extended Signal Processing, and the revolutionary software control of Tissue Specific Imaging. The HDI 3000 system is built upon the fourth generation of this digital technology and the result is a versatile system, exceptionally powerful, easy to use and mobile.



The system's design and engineering were influenced by suggestions from hundreds of HDI users, incorporating the experience gained from millions of HDI exams. Feedback from HDI 3000 users continues to provide valuable input.

In an independent survey, over 98% of HDI 3000 users claimed the system met or exceeded their expectations. The vast majority, 82%, had their expectations exceeded. On image quality, color Doppler, ease of use, reliability and productivity, the HDI 3000 system consistently rated highly.

The new standard in clinical usability and productivity

Improvements in resolution and sensitivity have made ultrasound one of the most widely used diagnostic procedures in the world. Increasing volume and expanding applications make it imperative to maximize clinical efficiency within the ultrasound lab.

User-centered design leads to new levels of efficiency. Hundreds of interviews, focus groups and conversations with customers led to a new graphical user interface that is simple, intuitive and comfortable. The result is an HDI 3000 system that is very easy to learn and use.

An organized, logical control panel allows rapid understanding of the system. A new method of presenting information, both on the screen and in reports and analysis packages, delivers unprecedented convenience. In addition, a large high-resolution monitor enhances the presentation of ultrasound information.

Tissue Specific Imaging (TSI) is ATL's innovative approach to total-system optimization. At the touch of a button, TSI customizes over 1,000 parameters to the exam at hand. It allows users to concentrate on patient care and quality diagnoses, instead of settings and adjustments, confident that the ultrasound information they obtain will be of the highest quality. TSI also increases consistency and productivity across the full spectrum of users. And now, TSI Patient Optimization fine tunes the HDI 3000 system even further, to patient types and flow states.

Advanced performance that goes anywhere

Increasingly, growth opportunities for ultrasound are coming from operating suites, critical care units, emergency departments and outpatient facilities. Referring clinicians are requesting ultrasound exams of the highest quality, in locations convenient to critically ill patients and cost effective for the hospital.



After intensive study, ATL designed the new HDI system from the ground up for maneuverability. It's up to 30% lighter than other high performance systems. The system's center of gravity, wheels and suspension contribute to smooth, easy rolling.



Compatible with 15 amp service outlets, the HDI 3000 system features a built-in line conditioner and power isolation circuitry, so it works virtually anywhere. In addition, it uses less electricity and produces less heat.

The HDI 3000 system can easily go wherever needed to provide ultrasound exams of the highest quality - to the patient bedside, the OR, the Emergency Room and the outpatient imaging center.

Diagnostic performance in a class of its own

Due to the increasing importance of cost effective, noninvasive diagnosis, ultrasound is fast becoming the diagnostic tool of choice in many applications. This new emphasis is increasing demand for the highest possible diagnostic performance.

The new HDI provides a higher level of diagnostic performance across all imaging modes and applications. Greater contrast resolution and more anatomical detail, plus enhanced spectral and color Doppler sensitivity provide additional diagnostic information and confidence.

The latest addition to the HDI 3000 portfolio of advanced capabilities is 3D Color Power Angio (3D CPA) Imaging.

This innovative easy-to-use feature is fully integrated in the HDI 3000 system and promises to provide fuller appreciation of the architecture of vascular anomalies and pathology.

Disk Link - digital images on disk or hard drive. Disk Link provides storage and retrieval of ultrasound images in original digital quality, protecting their full diagnostic value. Advantages include better utilization of shared high-quality printers, quick review of previous exams, convenient image access for presentations or publications and enhanced productivity.



Next generation advances

The advanced architecture of the HDI 3000 system is designed for emerging applications.



Two new additions to the Entos family of surgical scanheads, the CT8-4 and LI9-5 scanheads, broaden the utility of the HDI 3000 system in the OR even further.

The difference is HDI technology. The evolution in health care demands ultrasound systems that provide clearer, more conclusive information in less time. With the HDI 3000 system, you can realize the advantages you have come to expect in a digital world - smaller, faster, easier to use, more powerful technology. The HDI 3000 system will accommodate next generation advances and continue to improve the productivity and cost effectiveness of ultrasound.