



EnVisor C HD Cardiovascular Ultrasound System

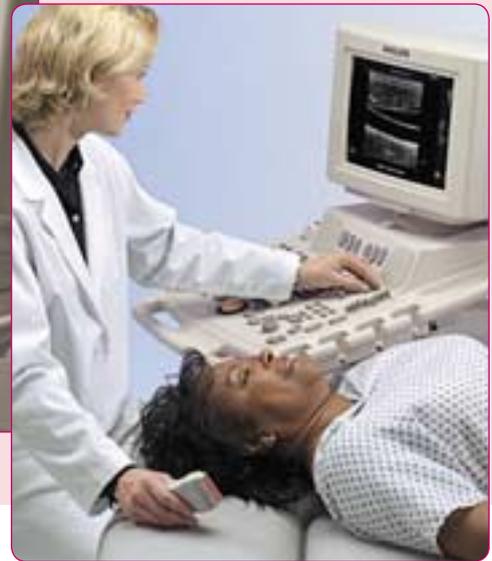
**Performance, ergonomics
and data management –
you can have it all**

PHILIPS

A uniquely powerful an uncompromising



The EnVisor C HD system offers excellent imaging in cardiovascular applications



EnVisor C HD value, Philips High Definition performance

The Philips EnVisor C HD system is based on our uniquely powerful heritage that combines Philips SONOS technology with the Philips HDI tradition on a product that's newly designed from the ground up. And now, following one of the most successful first-year product introductions in history, the EnVisor C HD system continues to improve. New features make your work easier, more efficient and more productive through an uncompromising combination of clinical performance, ergonomics and data management.

Clinical Performance—The EnVisor C HD system combines pioneering SONOS and HDI technologies – worldwide standards in cardiovascular ultrasound. This heritage puts the EnVisor C HD system in a unique position at the forefront of clinical utility and imaging performance. As a result, the EnVisor C HD system offers a full set of advanced imaging tools that are both unmatched in its class and proven and refined through millions of exams on thousands of systems in use around the world. These tools include Fusion and Microfine Imaging, Philips Ultraband transducer technology, Pulse Inversion Harmonic imaging, Adaptive Doppler and color Doppler, advanced stress echo, contrast imaging and more.

ful heritage— diagnostic tool



Ergonomics—The EnVisor C HD system is incredibly easy to use, delivering state-of-the-art ergonomics and mobility, as well as advanced Philips technologies such as iSCAN intelligent optimization, Intelligent Doppler and High Q automatic Doppler analysis, which save time and improve consistency.

Data management—Additionally, the EnVisor C HD system is ready for the age of digital storage and review, with advanced connectivity tools for nearly any network environment as well as an impressive roster of on-board data management capabilities, including review, editing and reporting features that eliminate the need for separate workstations.

Perhaps the single most important point to understand about the EnVisor C HD Ultrasound System is that this impressively rich combination of advanced performance, thoughtful ergonomics and elegant data management is now available at a very achievable price.

EnVisor C HD – of affordable

The EnVisor C HD system delivers forward-thinking ergonomics for user comfort and safety to meet the demands of the world's busiest labs and practices. Plus, the new QuickSCAN package allows you to acquire high-quality images and Doppler measurements more quickly and consistently, with a minimum number of keystrokes.

Engineered to maximize user comfort, safety and convenience

The EnVisor C HD system creates a new paradigm in the practice of ultrasound by adjusting to the operator's needs, rather than forcing users into uncomfortable scanning positions. The system was designed with the help of cardiologists and technologists around the world, focusing on ergonomic factors in both standing and sitting positions to help prevent operator fatigue or injury.

The control panel and monitor move up and down, supporting users of all heights. With 300-degree rotation of the panel and monitor, as well as easily accessed mode and measurement keys, the EnVisor C HD system enables users to place controls where they're most accessible, reducing the extended reaching that places users at risk for repetitive stress injuries. And its light weight, small footprint and four-wheel swivel capability complete the ergonomic picture by allowing access to the tightest spaces, making the EnVisor C HD system an ideal solution for portable exams, whether at patient bedside, in the CCU or ICU, or in cardiac surgery.



Introducing new QuickSCAN options: intelligent technologies for utmost productivity and ease-of-use

The EnVisor C HD system offers you the tools you need to meet growing patient demand while maintaining standards of excellence in diagnosis and treatment. The system offers you many time-saving features designed with workflow optimization in mind, and its ease-of-use helps ensure imaging consistency across all users and patient types. Power up the system in less than one minute, and then start your exams rapidly with the system's extensive presets (or those you've created). Use iSCAN Intelligent Optimization in vascular exams to automatically adjust

creating a new standard ergonomics

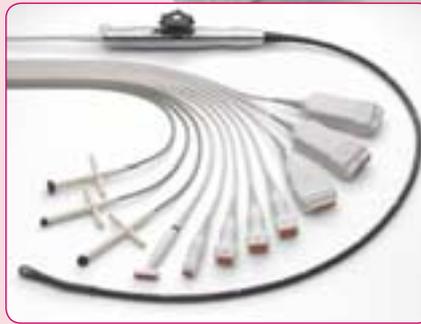


High Q automatic Doppler analysis traces, calculates and displays Doppler values and indices in real time.

The EnVisor C HD system adapts to fit each user's environment, while transducers such as the TEE OmniPlane III feature ergonomic designs for maximum comfort.



iSCAN intelligent optimization automatically perfects the 2D vascular image with the touch of one button.

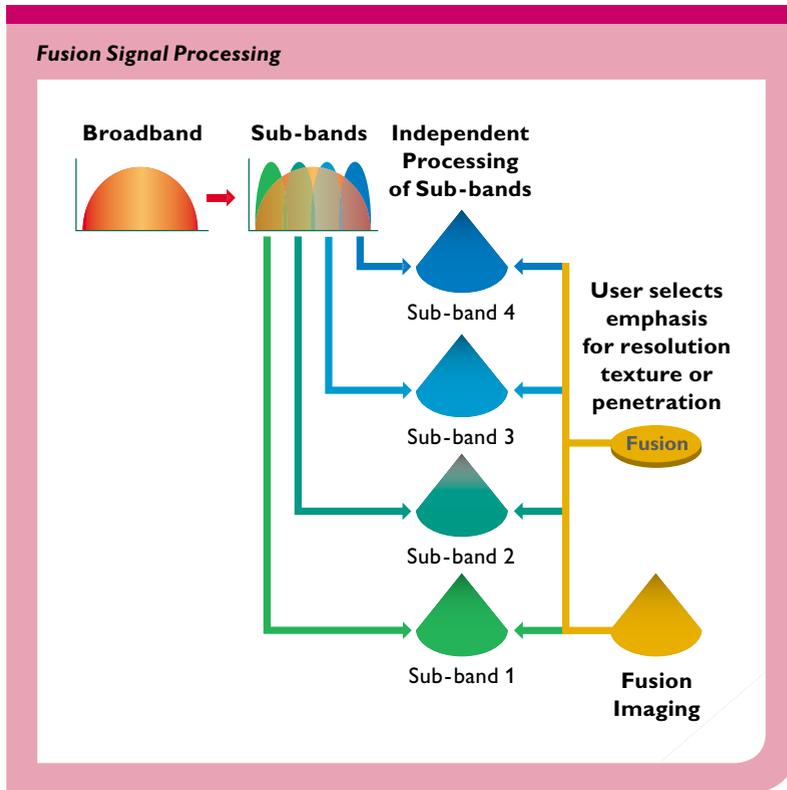


your TGC, receiver gain and dynamic range with one button. Annotate findings and scroll through body markers without ever leaving the live image. Move through exam protocols with virtually instantaneous mode changes. Perform and interpret Doppler exams quickly and easily with the aid of Intelligent Doppler to maintain a specified scanning angle as you adjust for flow. Additionally, Philips High Q Automated Doppler analysis allows you to obtain real-time measurements of Doppler waveforms. And when you have a system-use question, simply use the online help feature, no more fumbling through a printed user's manual.

Ultraband Transducer technology

The EnVisor C HD system's family of high-performance cardiac and vascular transducers features our pioneering Ultraband technology, enabling the capture of an expanded functional bandwidth for more information, with excellent sensitivity over the entire frequency range—from low-frequency signals for deep color and Doppler studies, to high-frequency signals for critical 2D resolution of fine structures. The Philips OmniPlane III transesophageal probe allows the EnVisor C HD system to support cardiac assessment in the surgical theater with true electrocautery noise suppression, as well as critical and intensive care settings with superb resolution and color Doppler performance.

Advanced clinical is the foundation



The EnVisor C HD system's broadband beamformer captures and digitally processes between 1 and 15 MHz, displaying more complete clinical information for assessing cardiac anatomy and function. With up to 1024 channels, the system's beamformer can precisely steer and focus these broadband ultrasound signals, adding greater contrast resolution and visualization of tissue interfaces.

A full suite of advanced features in an affordable system

The power of the EnVisor C HD system's broadband platform also enables support of Philips' most advanced features for clinical performance unsurpassed in its price range. These features work in harmony to meet everyday clinical challenges:

Increase diagnostic confidence by capturing more endocardial information and detail.

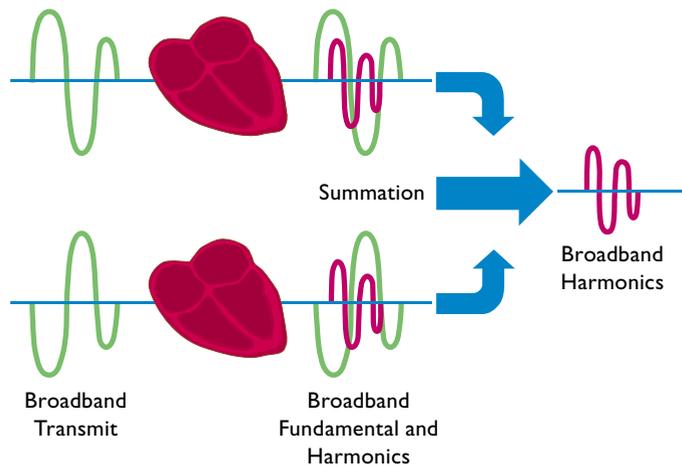
Patented *Fusion Signal Processing* is a multichannel-frequency compounding technology that breaks the returning broadband signals into as many as five individual sub-bands and processes these signals independently and in parallel. This technology is extremely rare in this class of system and even outperforms higher-priced competitive systems that transmit two separate pulses and combine the returning signals, a more limiting method with slower frame rates.

Discern subtle tissue texture patterns and interfaces. *Microfine Focusing*

takes full advantage of the EnVisor C HD system's broadband beamformer and powerful signal processing to dramatically reduce dot size in grayscale exams for particularly fine detail, contrast resolution and improved uniformity from near to far field and edge to edge. Precise spatial focusing and advanced textural processing increase the quality of diagnostic information and can be appreciated in all aspects of cardiac 2D imaging, including enhanced definition of endocardial borders.

utility

THI with Pulse Inversion Technology



Improve visualization of LV endocardial borders on any technically difficult cardiac wall segment. *Tissue Harmonic Imaging* (THI) selectively excludes signals associated with superficial structures and tissues such as subcutaneous fat, ribs and skin to dramatically reduce artifacts, haze and clutter, making it easier to conclusively delineate cardiac boundaries on even the most difficult-to-image patients. In addition, the EnVisor C HD system features a refined method of THI, called Pulse Inversion Harmonic imaging, which uses real-time digital signal storage and phase cancellation technique to achieve broader bandwidths in harmonic modes for further gains in axial and contrast resolution.

Clearly define the left ventricular cavity.

The *Contrast Imaging* option exploits the EnVisor C HD system's broad bandwidth and Pulse Inversion Harmonic imaging technology so that echo-enhancing agents may be used as they become available.

Perform and interpret Doppler exams with ease. The EnVisor C HD takes Doppler imaging to new levels of sensitivity and accuracy with *Adaptive Doppler* technology, which boosts weak signals and dramatically reduces noise, as well as *Adaptive Color Doppler*, which analyzes focal depth and automatically selects the optimal color Doppler frequency for superb resolution.

Achieve an expanded field of view. *Panoramic Imaging* is standard on the EnVisor C HD, enabling a more complete display of vasculature.

Assess the severity of coronary artery disease and myocardial viability. The advanced *Stress Echo package* delivers an integrated solution for capturing optimal stress echo images within the limited post-stress interval. The stress echo option features customizable stress protocols, system settings and intelligent prompts for fast image acquisition, storage and retrieval. Fusion Signal Processing and Pulse Inversion Harmonics provide clean boundaries and a greater range of grayscale information for enhanced endocardial clarity.

EnVisor C HD

like having a full workstation

The EnVisor C HD system's on-board image and data management capabilities give you all the tools to catalog, store, administer and share diagnostic images and patient study information. Furthermore, EnVisor C HD data management is flexible enough to fit almost any clinical setting, from a single system to a sophisticated PACS environment, and adapt to your changing needs.

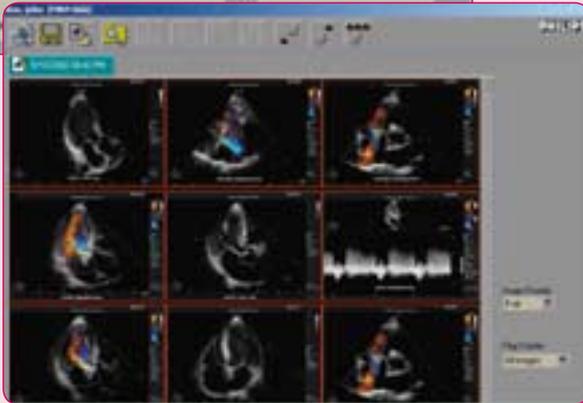
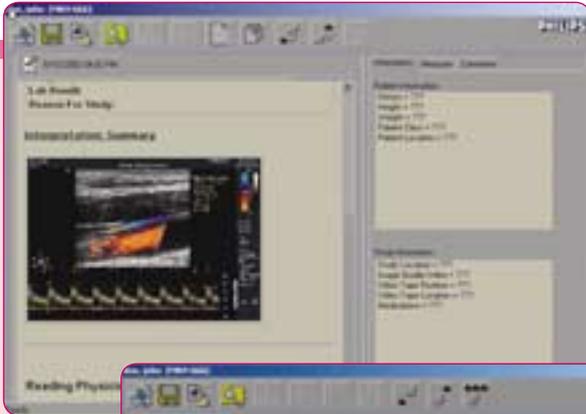
Integrated and standard, the system's workstation-like capabilities allow many online functions and are smartly designed to support efficient archiving and productive reporting. Quickly access stored data by using the thumbnail review. Edit images, loops and reports with ease. Perform measurements and take advantage of the system's extensive cardiac and vascular analysis packages. Embed images within reports for a comprehensive file that is easy to store and share with colleagues.

The EnVisor C HD system's sophisticated PC-based architecture enables images to be saved in a variety of file formats, and to a variety of media. Export compelling cases as .avi clips or bitmap files for use in PC presentation software. Archive images in these formats, or in native format, to floppy disks or CDs for a low-cost solution to today's storage needs. Or incorporate the system into your network solution for seamless integration with your existing workstation environment.

With DICOM functions such as Print and Store, Modality Worklist and Performed Procedure Step, the EnVisor C HD system is ready to adapt to most any PACS or enterprise data management system, streamlining archival functions and improving clinical workflow.



data management— on board



EnVisor C HD is perfectly suited for digital media review with high-resolution images and Philips Cineloop clips that can be transferred by CD, magneto-optical disk or network for offline review.

Our promise clinical excellence, witho

In all we do, our goal is to help you maintain the highest levels of clinical excellence, making your work easier and more efficient. Backed by Royal Philips Electronics' vast global resources, we prove again and again that there are no limits to what is possible. And with a 100-year track record of innovation—including over 3,500 scientists, engineers and design professionals responsible for more than 10,000 inventions, 75,000 patents and 6,000 design rights—you can continue to count on the Philips' talented people and innovative products to help you improve outcomes through promoting early, accurate detection while helping you meet increasing patient demands.

Philips Customer Services

With our commitment to helping you deliver clinical excellence also comes a belief that you shouldn't have to make compromises in other critical areas, such as managing resources and reducing costs. Our extensive portfolio of services is as innovative, flexible and comprehensive as our products, from consulting in architectural

preparation, installation and networking, to clinical and biomedical engineering training, education and e-learning, to financial arrangements to meet your specific needs.

And just as every Philips system is designed for quality from the start, it's also designed to minimize interruption for repairs and upgrades. We invest constantly to give you the best in service expertise, remote service of systems, information technology (IT) and logistics. Philips provides a full spectrum of responsive, highly tailored Philips **CUSTOMerCARE** Service Agreements, delivered through a dedicated organization of highly trained service engineers and clinical specialists. Our equipment maintenance experience provides dividends for you in uptime, lower cost of ownership and increased productivity.

Now and in the future, count on the strength and focus of Philips to take ultrasound to the highest levels of clinical excellence, making your work easier and more efficient.

e: ut compromise



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