

Z.ONE



EVERYTHING CHANGES IN THE ZONE.

BREAK THROUGH THE SOUND BARRIER.



ZONARE

Representing a fundamental new approach to ultrasound technology, Zone Sonography transcends previous limitations to deliver a host of revolutionary advances in form factor, clinical functionality and financial benefits. At the same time, it ushers in a new generation of ultrasound solutions – beginning with **z.one**, the world's first Convertible Ultrasound™ system – that combines high resolution with portable operation, advanced performance with economic advantages, and comprehensive functionality with unprecedented flexibility.



ZONE SONOGRAPHY. TAKING ULTRASOUND TO A WHOLE NEW PLACE.

As one of the most significant ultrasound breakthroughs in decades, Zone Sonography™ is not only expanding the usefulness and flexibility of ultrasound, but also how imaging is performed and diagnoses are made.

Zone Sonography is an entirely new approach to ultrasound image acquisition and processing. The result? Performance increases that deliver greater utility. Systems that are smaller, lighter, and more cost-effective than ever before. Superior performance ultrasound that goes wherever it's needed. And a host of ergonomic, workflow and economic benefits. Plus, Zone Sonography's enormous technological potential is delivering new clinical applications and benefits.

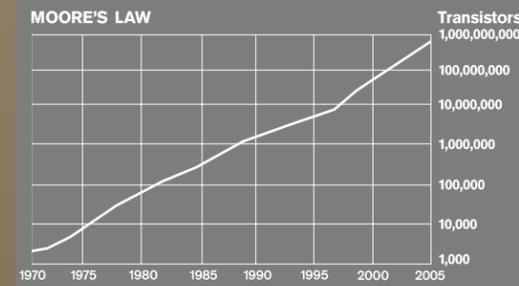


INTRODUCING ZONE SONOGRAPHY.

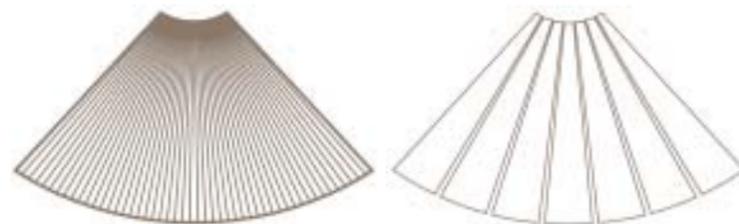
CHANNEL DOMAIN PROCESSING.

ULTRASOUND WITHOUT LIMITS.

Because Zone Sonography handles beam formation in a compact, software-based platform, there's no need for the large, expensive, power-hungry hardware of the past. As a result, systems benefit from significant reductions in size and weight. Moreover, with Zone Sonography, the speed of image capture and formation is not limited by the rate of sound propagation in the body. Rather, it's free to perform at the full potential of the computer processor, setting the stage for dramatic improvement in performance as processing power continues to improve.



Moore's Law states that processing capability will double every 18 months. Channel Domain Processing leverages Moore's Law to ensure easy scalability and continuing viability.

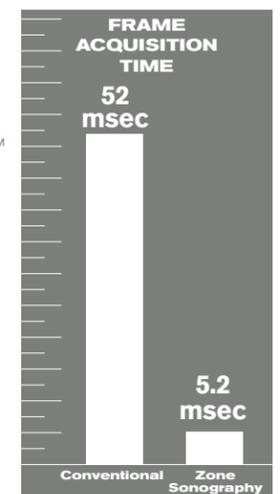


Compared to conventional ultrasound's tedious line-by-line image acquisition, Zone Sonography efficiently insonifies and captures large areas all at once.

ZONE ACQUISITION. A BETTER WAY TO CAPTURE IMAGE DATA.

Conventional ultrasound systems capture information by sending and receiving hundreds of individual "lines" to form an image. But with its highly evolved processing efficiency, Zone Sonography™ acquires immense amounts of imaging information all at once, by blanketing fewer, larger "zones." In much the same way that a photographic flash covers more ground than a flashlight, this technique allows Zone Sonography to gather large amounts of data very quickly. How quickly? Up to 10 times faster than conventional systems.

As a result, many of the physical limitations which previously restricted ultrasound imaging are no longer factors. For example, Zone Sonography's unprecedented data acquisition speed allows for a variety of modes to be used simultaneously, without sacrificing frame rate. And it lets operators selectively increase frame rate for applications like fetal echo imaging. All while substantially reducing the effects of temporal artifacts.



Zone Sonography captures frames in 1/10 the time it takes conventional ultrasound.

ADVANTAGES

- Powered by Zone Sonography
- Convertible Ultrasound™ flexibility
- Two systems in one
- Portability with premium performance
- Full cart-based functionality
- Improved diagnostic confidence



THE POWER OF ADVANCED TECHNOLOGY.

More performance in less space. Big resolution in a compact system. Unprecedented flexibility with state-of-the-art control. Better economics. And an open, scalable design. These aren't just ideals. They're tangible, real-life benefits being delivered today by Zone Sonography and **z.one**. And they're leading to more confident diagnoses, accelerated workflows, and faster access to new clinical applications worldwide.

INTRODUCING Z.ONE. THE FIRST CONVERTIBLE ULTRASOUND SYSTEM.



*Thanks to the space and power-saving advantages delivered by Zone Sonography, **z.one's** removable scan engine houses the "brains" of the entire system. As a result, it delivers the same imaging performance and feature set as the full cart-based system. But it does so in a lightweight, removable, battery-powered unit that can be taken directly to the point of care.*

IMPROVED DIAGNOSTIC CONFIDENCE.

BETTER INFORMATION. BETTER RESULTS.

z.one is the only ultrasound system that delivers premium image quality and a full feature set in a compact unit. You never have to compromise on image quality during portable use.

Unlike conventional ultrasound systems, **z.one** stores all original channel data, providing retrospective optimization capabilities. The Channel Domain Data™ can be repeatedly processed with advanced algorithms and re-processed multiple times, resulting in an optimum image from the available data. With more conclusive results, you'll make more confident diagnostic decisions.



With **z.one**, the advantages of Zone Sonography are transformed into real-life benefits. **z.one** offers the first compact system with the performance and premium image quality of larger and more costly alternatives. But that's just the beginning. By ushering in the era of Convertible Ultrasound™, it gives users the flexibility to instantly adapt to changing patient and exam needs – without compromise.

CONVERTIBLE ULTRASOUND™. TWO SYSTEMS IN ONE.

A routine exam in radiology. A trauma case in ER. An interventional procedure in the ICU. No matter what the challenge, **z.one** is designed to go the distance. That's because it's the only ultrasound system with the flexibility to instantly convert from a full-featured, cart-based system to a compact unit with high-resolution, full exam capabilities.

Along with providing the ability to adjust in real time to changing conditions, this unprecedented transformation brings a new level of efficiency to ultrasound practice. It reduces exam time by enhancing workflow efficiency. Fewer repeat scans, due to instantaneous results. Easy transport between facilities. And a host of other real-world benefits.

High performance. Premium image quality. Portability. With **z.one**, now you don't have to choose.



Slide the scan engine into the docking port to convert to the familiar user interface and form factor of a superior performance cart-based system.

ADVANTAGES

- Ergonomic design
- Easy transport
- Streamlined workflow
- Low cost of ownership
- High reliability
- Easy scalability
- Long-term value



ERGONOMIC DESIGN. MAKING A FULL WORKDAY FEEL LIKE MUCH LESS.

With **z.one**, you get the same high performance and functionality as a traditional 400-pound cart. But you get it in a system that's smaller, lighter, and more nimble than ever before. In cart mode, **z.one** is easy to position and transport, with a LCD screen that's ideal for all light conditions, and even collapses for transport. Plus, the entire user interface moves up or down, making it comfortable and easy to use. In portable mode, **z.one's** removable, 5.5 pound scan engine is engineered for hand-supported, one-thumb operation. And specially-designed light probes and cables help eliminate repetitive motion effects.



Z.ONE. UNSURPASSED VALUE.

ECONOMIC ADVANTAGES. IT FITS EVERYWHERE - INCLUDING BUDGETS.

The same technological advances that make **z.one** right for your department make it right for your bottom line, too. With better exam time efficiency and enhanced diagnostic confidence, productivity increases. And its software-based engine eliminates the costly custom hardware and upgrades so common with conventional systems. Put it all together, and **z.one** delivers a lower cost of ownership, higher reliability, reduced service costs, easy and inexpensive upgrades, and negligible downtime. All of which results in a whole new level of price/performance and long-term value.



*Smaller and lighter than conventional systems, **z.one** is easier to maneuver, relieving user burden.*



***z.one's** software-based design gives users fast access to emerging clinical applications, along with an upgrade path that's quick, easy, and extremely cost-effective.*



*Faster exams. Easier patient access. Fewer repeats. More confident readings. With **z.one**, it's all in a day's work.*



ZONARE Medical Systems designs, develops and manufactures a new breed of high-performance ultrasound solutions which combine revolutionary technology with an innovative physical design. Through Zone Sonography™ technology – our unique, patented approach to imaging – we're focused on enhancing diagnostic abilities, economic value, and patient care in clinical environments worldwide.



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