

The 128XP Ultrasound System

The Clinical Ultrasound Standard Has Risen Again.

THE 128XP[®] SYSTEM RAISES THE BAR ONCE MORE.

If you want to define "value" in an ultrasound system, Acuson's 128XP ultrasound platform is the place to start. That's because no other system in the world has such a proven track record of performance, upgradeability and reliability. With over 13,000 installations, the 128XP system sets the gold standard in clinical ultrasound performance-for the best value over time.



DESIGNED FROM THE START FOR UPGRADEABILITY.

Since its introduction, the 128XP system has given users a continuous path of clinically-valuable, cost-effective upgrades. These have helped keep clinicians on the leading edge of ultrasound technology, while enabling hospitals and clinics to protect and leverage their diagnostic imaging investments.

This tradition continues in the 128XP platform-with breakthroughs such as Acoustic Response Technology/Tissue Contrast Resolution (ART/TCR); EF Extended Frequency upgrade and a user interface that puts the most commonly used functions right at your fingertips.

The 128XP system also incorporates features and functions from two of the world's most advanced ultrasound platforms-Acuson's recently introduced Aspen and Sequoia ultrasound systems. These have contributed a wide array of transducer technologies and innovative diagnostic functions. And they've introduced innovative technology that's redefining the way ultrasound is practiced.



VALUE THROUGH CLINICAL VERSATILITY.

The 128XP system technology is integrated into a flexible architecture that may be configured precisely for your clinical requirements. So as your applications change, the system has the flexibility to change as well-a fact that will protect your ultrasound investment and please administrators and clinicians alike.

A proven track record. An ongoing history of technical innovation. Upgradeability and uncommon clinical versatility. These are just a few of the elements that comprise the 128XP ultrasound system. Taken together, they put the 128XP system in a class of its own—a class we simply call the best value over time.

And that makes now the best time ever to look into the 128XP ultrasound system.

ONGOING TECHNOLOGY INNOVATION

The 128XP system has long set the standard for ultrasound imaging performance. So it's not surprising that others attempt to duplicate its principal features. Still, the feature-rich 128XP system incorporates an impressive list of innovations simply not found on comparably priced systems.



128-CHANNEL TECHNOLOGY FOR OPTIMUM IMAGE QUALITY.

The 128XP platform remains the only system in its class that utilizes a full 128 channels. Each channel independently contributes to precise beam steering and focusing, so the difference is apparent in every image. You benefit from exceptional detail and tissue contrast resolution, plus image uniformity and resolution, throughout the entire field of view.

CONTINUOUS EVOLUTION OF 128XP PLATFORM TECHNOLOGIES.

Acuson has long led the way in advancing the art and science of ultrasound transducer technologies. In fact, the 128XP system was the first to utilize broad bandwidth piezoelectric materials to accommodate a wide range of frequencies for image optimization. Soon MultiHertz multiple frequency imaging technology was added—allowing you to select specific frequencies for optimum resolution and penetration. Then, Acoustic Response Technology /Tissue Contrast Resolution (ART/TCR) was introduced to improve detail resolution, image uniformity, and tissue texture differentiation. Our EF Extended Frequency Upgrade provides high resolution, high frequency imaging—up to 10 MHz—for small parts, breast and musculoskeletal studies.

ADVANCED COLOR DOPPLER IMAGING TECHNOLOGIES.

The 128XP platform sets the standard for color Doppler imaging in all clinical applications. Color



Doppler Velocity (CDV) imaging reveals information about the velocity and direction of blood flow, as well as turbulence often associated with stenoses or regurgitant flows. CDV offers superior sensitivity, temporal and spatial resolution and motion discrimination. Color Doppler Energy (CDE) imaging provides a better way to examine very low flow and small tortuous vessels-such as in the kidney, testes and placenta. The result is improved evaluation of vascular compromise or neovascular states and better delineation of vascular branches.

For shared service applications, DTI Doppler Tissue Imaging capability presents myocardial physiological function in three modes unique to Acuson: DTI velocity mode, DTI acceleration mode, and DTI energy mode.

MORE ACUSON TECHNOLOGY BREAKTHROUGHS.

In addition to innovative transducer technologies and color Doppler imaging, the 128XP platform offers several unique technologies that enhance system functionality and productivity. With Vector wide view array imaging format, you can use a small footprint transducer to steer ultrasound lines in any direction from any point along the transducer face. This proves especially important when access is limited, as in intercostal scanning. And only Acuson offers microCase transducer miniaturization technology. This significant reduction in case and cable size provides access for small acoustic windows and improves both operator and patient comfort.



RAISE YOUR STANDARDS IN ANY APPLICATION.

No matter what your clinical practice and patient population looks like today, the 128XP platform offers the flexibility to suit your needs. Better still, it can adapt to handle your future growth and integration of emerging clinical applications, preserving the value of your investment over time.

A PERFECT TRANSDUCER, FOR EACH PATIENT TYPE.

Regardless of patient size or pathology, the 128XP system may be equipped with the right transducer and imaging format to suit them. In fact, the 128XP system offers more imaging formats than any system in its class-including linear, curved, and Vector wide view array. This ensures ultimate image quality, maximum ease of use and increased patient comfort.



With transducers designed for intraoperative,

endocavity, neonatal, pediatric and breast applications, the 128XP system boasts the widest range of specialty transducers available - including our ER7B biplane endorectal transducer and V5M Transesophageal Echocardiography (TEE) transducer.

Acuson offers numerous multipurpose transducers for the 128XP platform as well. TheV2 transducer delivers excellent transcranial imaging with unsurpassed Doppler sensitivity. And the L5 and L7 linear array MultiHertz multiple frequency transducers provide clinical versatility for vascular applications, including epiaortic intraoperative scanning and superb small parts imaging.

THE ULTRASOUND SYSTEM THAT EVOLVES WITH YOUR PRACTICE.

Its versatile platform architecture allows you to configure a 128XP system precisely for your needs. Acuson provides a full complement of calculation packages, including versions for OB, vascular and cardiac. Needle guide software and hardware options are available for all clinical applications.

Thanks to the 128XP system's flexible architecture, these technologies may be included at the time of purchase or added to the system as your practice grows and changes.

THE PATHWAY TO THE DIGITAL LAB.

The ultrasound system of the future won't end at its chassis. Rather, it may extend digitally through every computer or terminal in a facility.

In anticipation of this digital lab of the future, Acuson designed the QV150D Acquisition Module. When connected to the 128XP system through its proprietary interface, the QV150D can capture, transfer and print exams using the DICOM 3.0 standard. This will allow your Acuson 128XP system to connect to PACS and DICOM printers now on the market. It also will allow your lab to connect to Acuson's ultrasound PACS product, the AEGIS digital image and data management system.

Gold Standard Performance for Every Clinical Environment.

Now that Acuson offers three distinct ultrasound imaging platforms, your choices have vastly expanded.

That's because the same rigorous standards for quality, performance and value are reflected in each system. In every platform, you'll find exceptional imaging and Doppler performance with the most



powerful diagnostic tools available.

All are fully upgradeable to keep you on the cutting edge of ultrasound technology while leveraging your capital investment.

That's why users of Acuson systems universally communicate what is best called pride of ownership. And it's why diagnoses and research conducted with Acuson systems engender such confidence.

For more information contact: 1-866-4-ENCORE