

General Imaging

# Extreme Flexibility without Compromise

**MyLab50** Family



**e**saote

Extreme flexibility  
Extreme flexibility



## The Ideal Partner for:

- > Radiology/Abdomen
- > Small Parts/Musculoskeletal/Breast
- > Cardiology/Vascular
- > Obstetrics/Gynecology/Urology



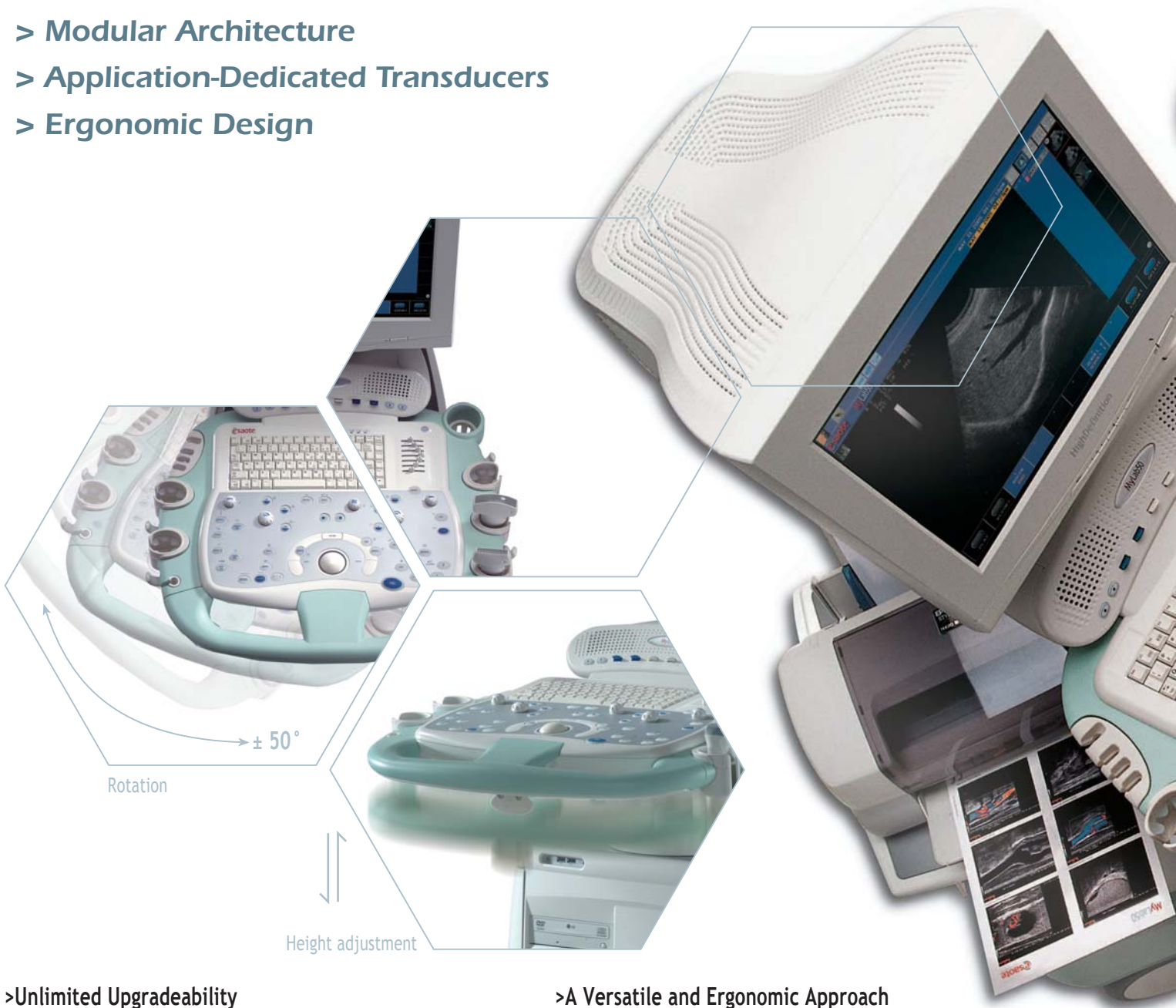
The MyLab50 has been designed to be the reference system for every general imaging and shared-service ultrasound laboratory, whether a private practice, specialized clinic or bustling hospital department. High-level performance, advanced data management and application specific transducers and measurement packages satisfy even the most demanding needs.

Based on the revolutionary MyLab<sup>TM</sup> modular architecture, the MyLab50 is available in various configurations, including the new **MyLab50 XVision**. The **MyLab50 XVision** is equipped with a specially engineered LCD monitor, perfectly adapted to the video characteristics of the system, able to produce unmatched image quality, combined with specific technologies embedded in the software. The **MyLab50 XVision** produces unmatched image quality both in terms of contrast and spatial resolution and increases user comfort while reducing eyestrain.

**The MyLab50 improves efficiency, expands flexibility and optimizes workflow.**

# without **compromise** without **compromise**

- > **Modular Architecture**
- > **Application-Dedicated Transducers**
- > **Ergonomic Design**

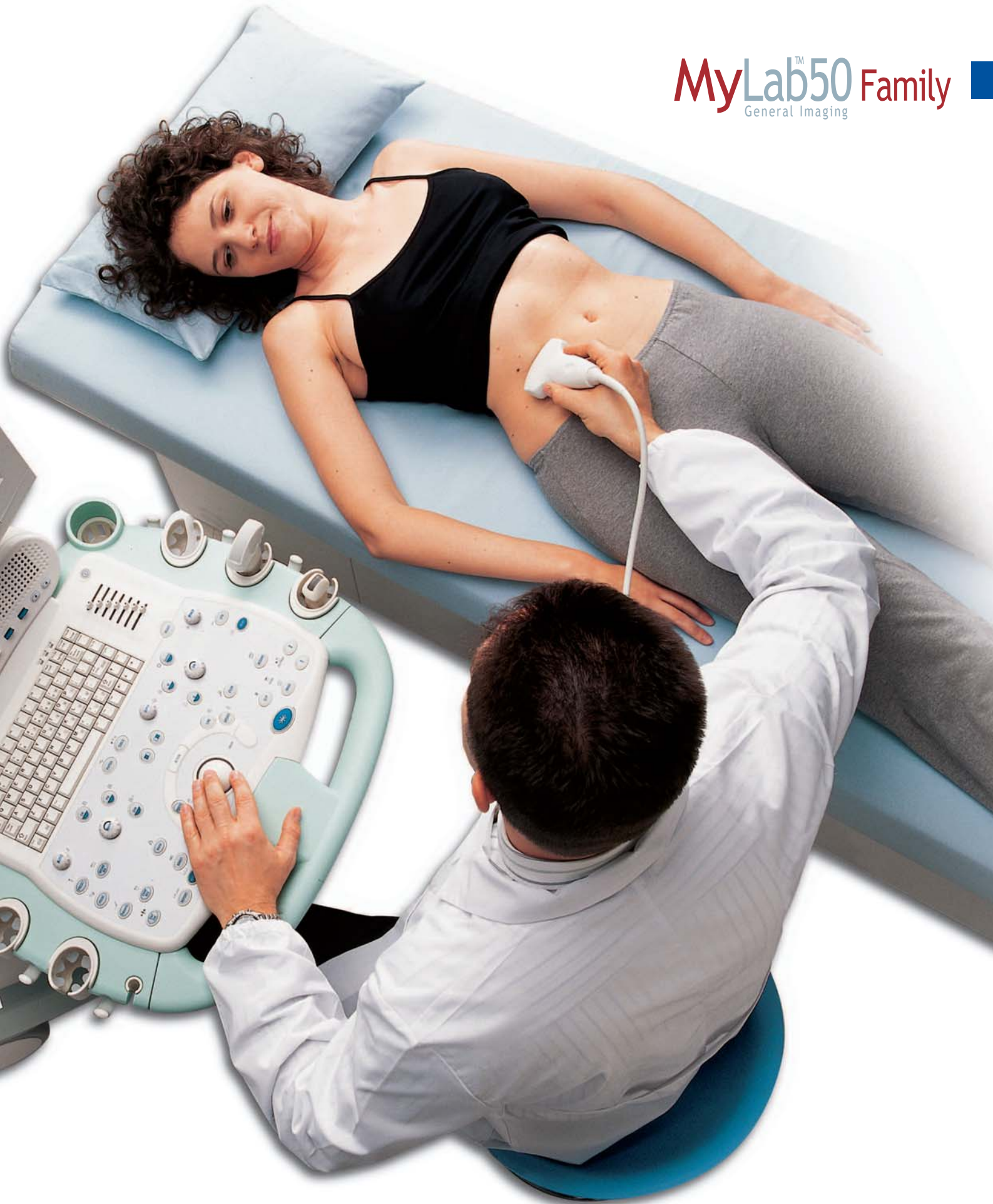


## > **Unlimited Upgradeability**

The MyLab50's modular architecture offers the highest level of flexibility when it comes to choosing the system's configuration. Any level of customization is possible by upgrading the system with application-dedicated packages and equipping it with the desired peripherals. This way, the present and future needs of any user are guaranteed. The MyLab50 is the perfect partner for any operator, whether he or she works in a private practice or in a hospital department using the most advanced technologies in modern medicine.

## > **A Versatile and Ergonomic Approach**

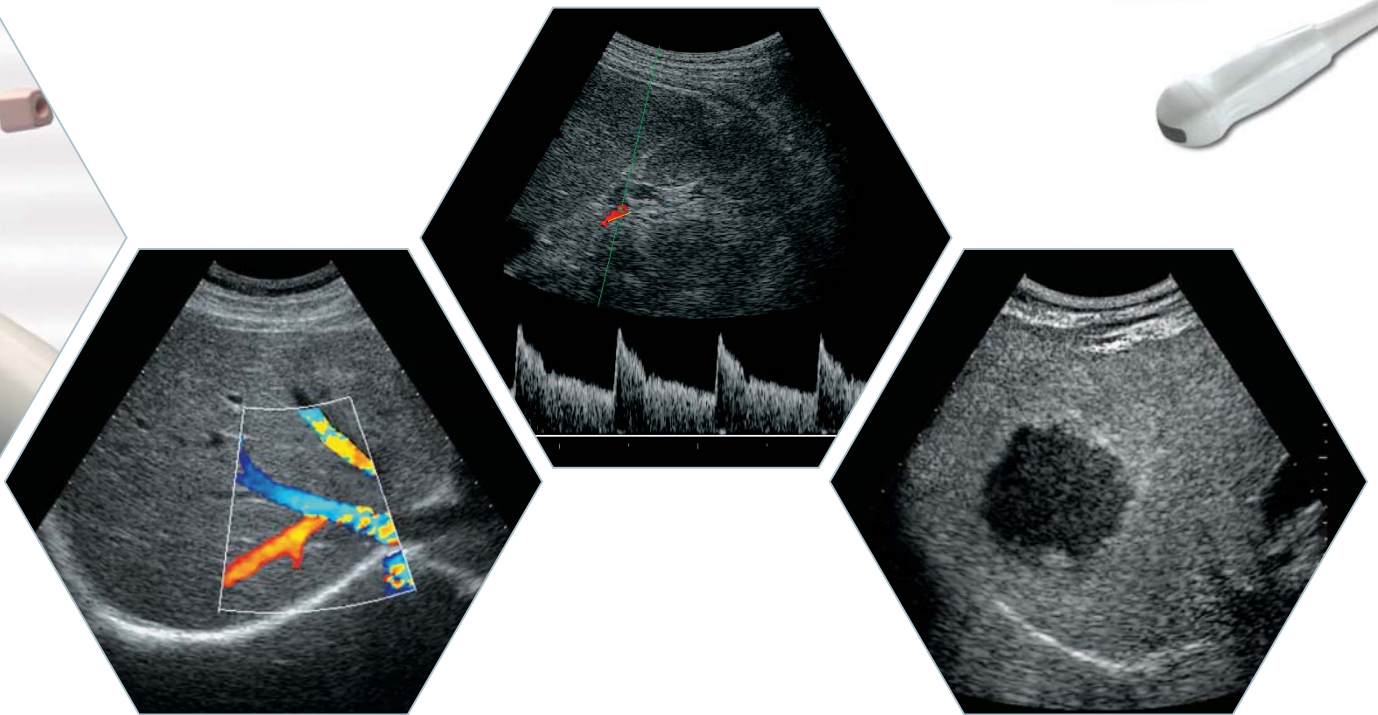
The MyLab50 is based on an extremely simple and intuitive user interface designed specifically for multiple-application requirements with direct access to the most frequently used functions. A fully height-adjustable and rotating keyboard with back-illuminated soft-keys on the system's alphanumeric keyboard ensures maximum comfort and versatility. The user can choose from the **MyLab50 XVision 19" LCD display** or a standard 17" SVGA monitor, both designed to minimize user eyestrain. The ergonomic design and the compact dimensions make the MyLab50 a pleasure to use.



# Radiology/Abdomen



- > Multi-Frequency Broadband Transducers
- > TEI™ - Tissue Enhancement Imaging
- > CnTI™ - Contrast Tuned Imaging



### >Radiology/Abdomen

The MyLab50 is an ideal ultrasound system for multiple radiology applications. The **wide range of available broadband transducers** allows the operator to choose the best probe for every situation, providing exceptional artifact-free and high-resolution clinical images. The multifrequency transmission capability, in combination with the TEI (Tissue Enhancement Imaging) modality, ensures optimal results even with very difficult-to-scan patients.

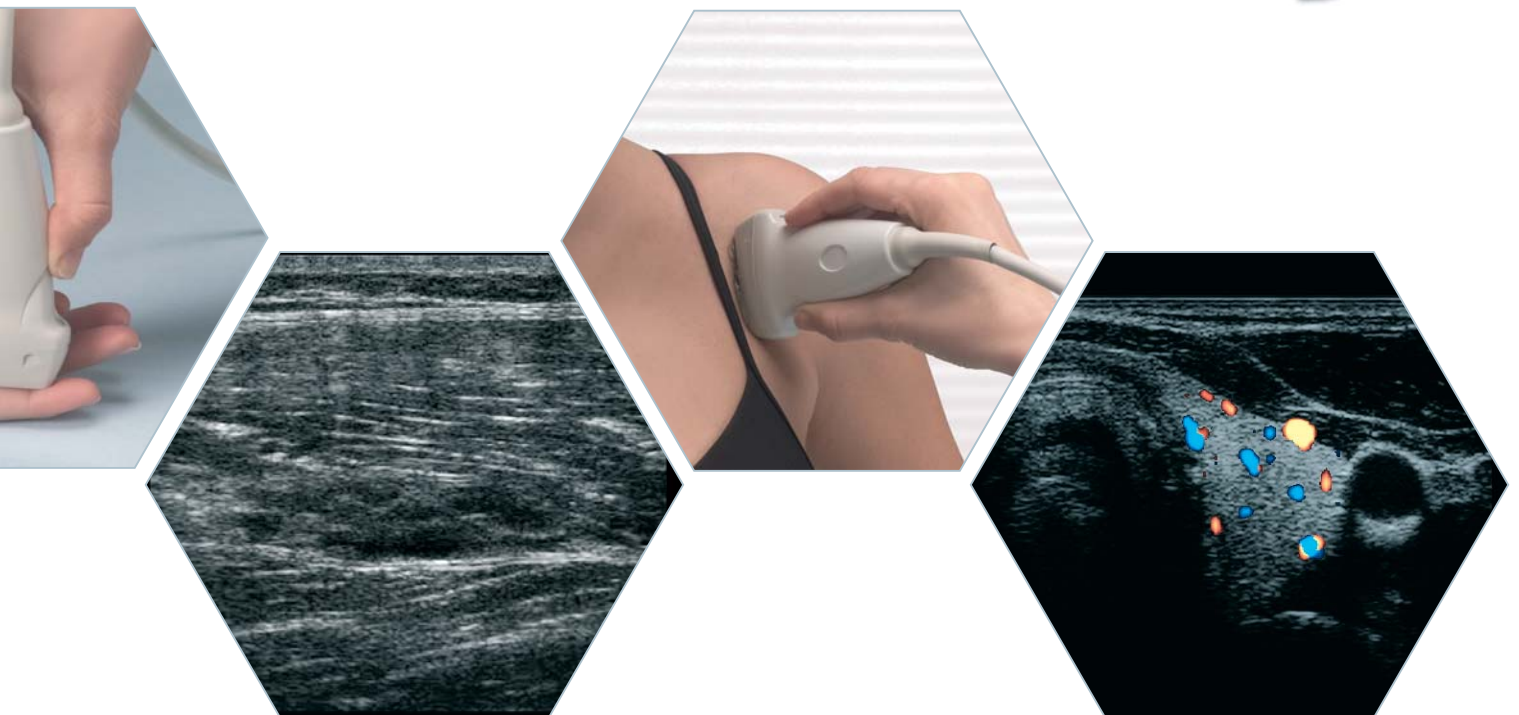
Esaote's proprietary CnTI (Contrast Tuned Imaging) technology uses a sophisticated signal-processing algorithm to obtain impressive response from contrast agents both in intermittent or real-time low-MI modalities. This can improve the ability to detect and characterize focal lesions, as well as raise the operators' diagnostic confidence.

All the features described above, combined with the available biopsy and radiofrequency accessories, make the MyLab50 a **perfect partner for interventional procedures** and ensure an efficient and reliable approach to any clinical situation.

# Small Parts/Musculoskeletal/ Breast



- > **TEI™ - Tissue Enhancement Imaging**
- > **VPan - Panoramic Imaging**
- > **CnTI™ - Contrast Tuned Imaging**



#### >Small Parts/Musculoskeletal/Breast

The premium-quality high-frequency linear transducers are one feature that make the MyLab50 an optimal choice for superficial examinations. High sensitivity and resolution Color Doppler (CFM), Power Doppler and Directional Power Doppler contribute to the MyLab50's ability to aide the operator in reaching precise and reliable fluximetric diagnoses.

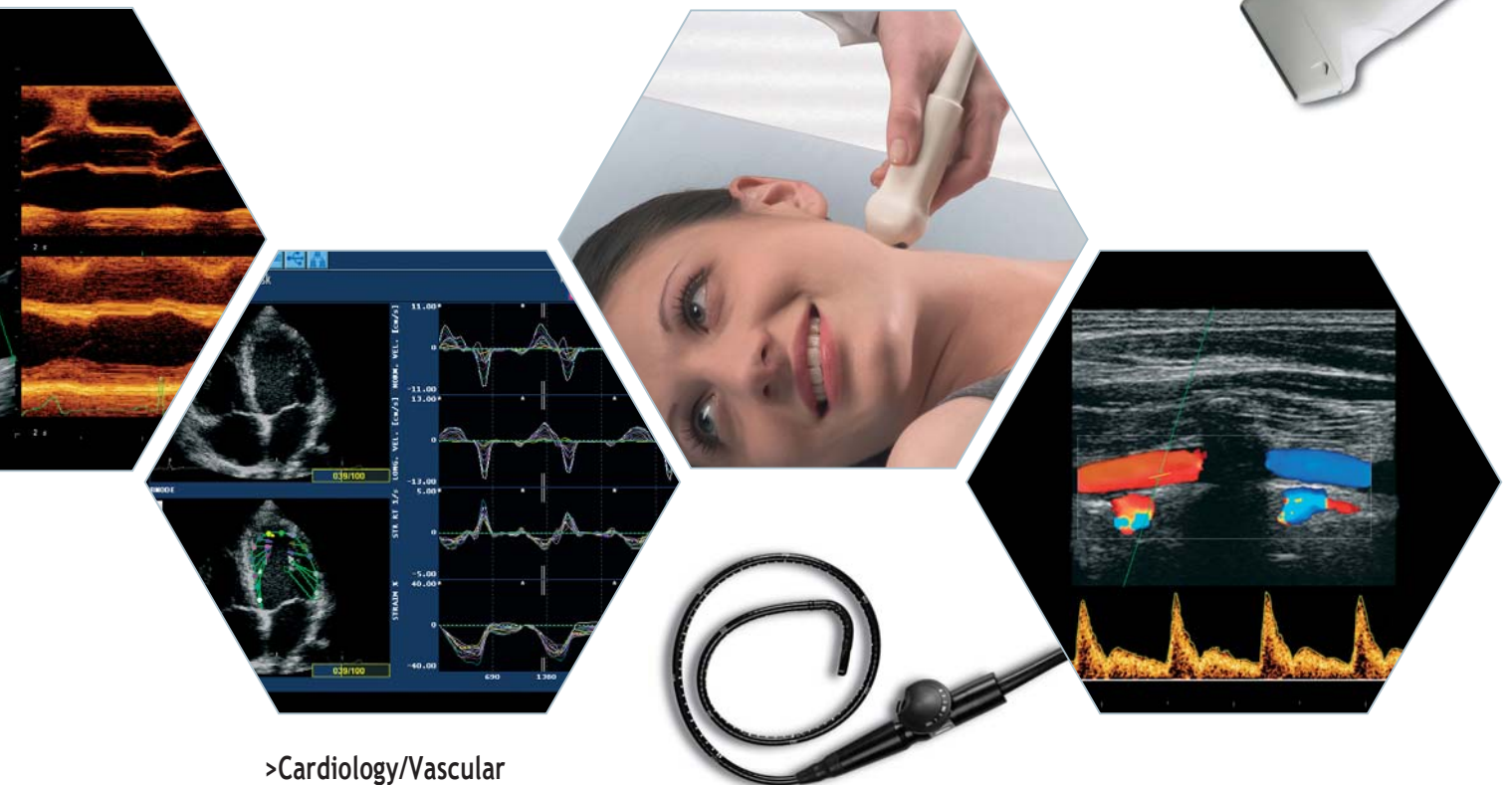
Revolutionary technologies such as TEI (Tissue Enhancement Imaging) and CnTI (Contrast Tuned Imaging) have been implemented on all of Esaote's high-frequency probes. This provides the users with the opportunity to produce images with an extremely low noise and artifact level. Impressive results are also obtained in the higher part of the bandwidth, which can detect micro-vascularization very precisely. This opens new possibilities in several applications such as disease-level quantification and therapy action control. The panoramic images obtained with Esaote's VPan technology are displayed with an extended field of view, especially useful in the examination and diagnosis of muscles and soft tissues.

Additionally, dedicated accessories make interventional procedures easy and safe. All the biopsy kits are lightweight, easily attached to the probes and can be sterilized via standard procedures. Disposable biopsy kits are also available.

Cardiology/Vascular  
Cardiology/Vascular



- > **TEI<sup>TM</sup> - Tissue Enhancement Imaging**
- > **Compass M-Mode**
- > **TVM - Real-time Tissue Velocity Mapping**
- > **XStrain**



### >Cardiology/Vascular

The MyLab50's TEI mode allows the operator can make clear and detailed diagnoses, even in difficult-to-image patients. The innovative **Compass M-Mode** tool allows up to two M-Mode lines to be placed and multiple measurements to be made on one image without moving the patient, an ideal approach to increasing patient throughput while maintaining diagnostic precision. The kinetic activity of the heart can be easily evaluated by using the real-time **TVM** (Tissue Velocity Mapping) feature, which, by assigning a different color to the tissue based on its instantaneous velocity, provides a complete wall motion analysis for both systolic and diastolic myocardial function evaluation. This PW Doppler-associated technology obtains high quality Doppler signals, measures velocity, mean and instantaneous local acceleration and generates rapid quantification. Furthermore, in **TVM** mode the user can trace and quantify the real-time data to provide more detailed information for precise and reliable diagnoses.

Other features, such as **XStrain** (available with the MyLab50 XVision), which provides an advanced, angle-independent, 2D imaging based tool for analyzing myocardial velocities, strain and strain rate detection, and **Automatic Doppler Tracing** can help to improve efficiency and increase workflow. The **Stress-Echo** package with programmable protocols and multi-format reviewing is ideal for monitoring all cardiovascular pathologies. A complete selection of dedicated multi-frequency transducers allows the MyLab50 to produce optimal images in all facets of vascular imaging.

Obstetrics & Gynecology

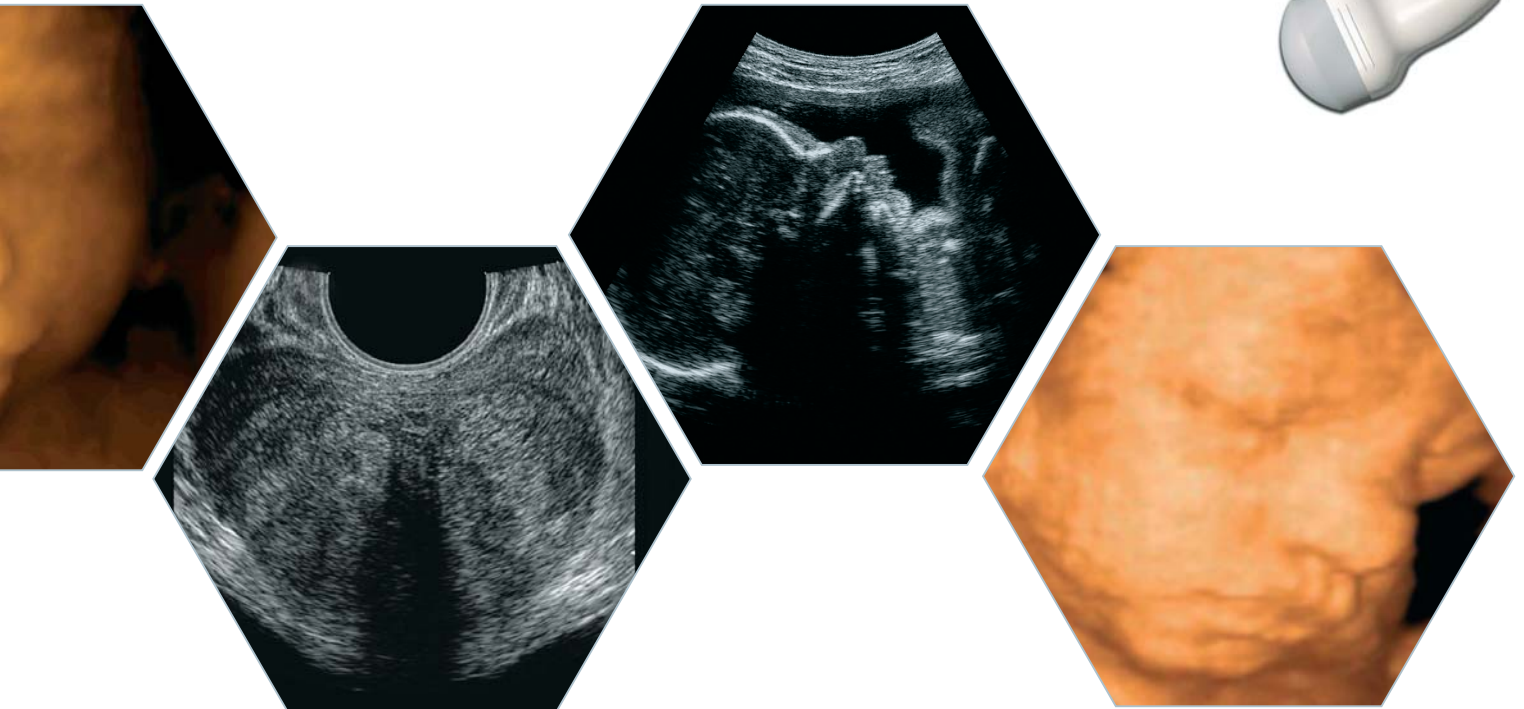
Obstetrics & Gynecology

Urology

Urology



- > X4D Module
- > 200° Endocavity Transducer
- > Extended Measurements & Reports Package



#### > Obstetrics & Gynecology

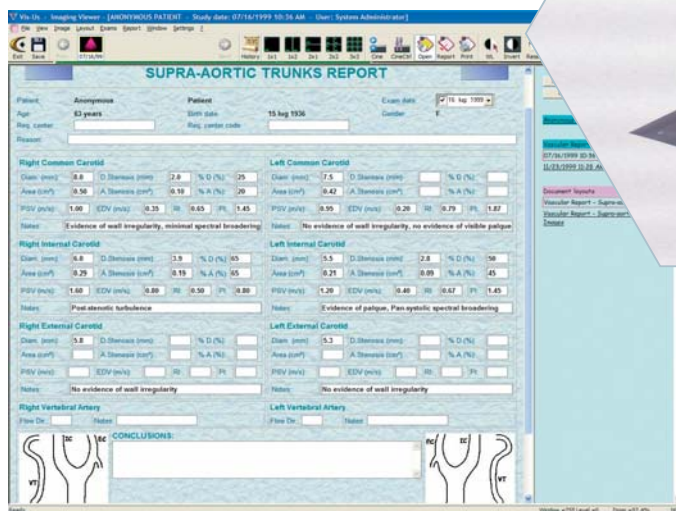
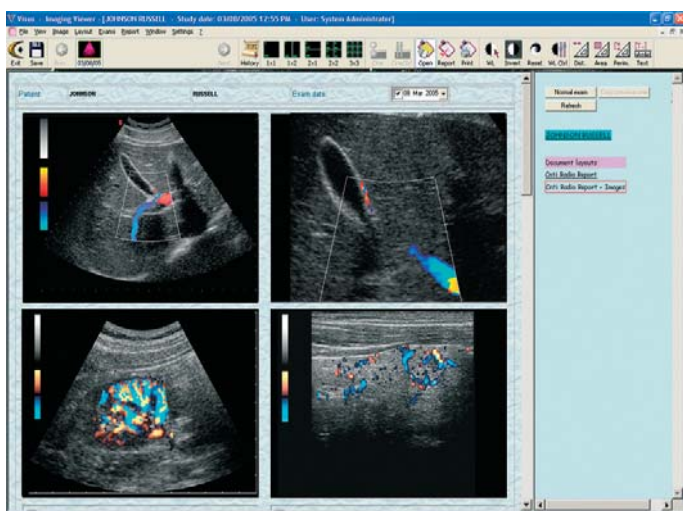
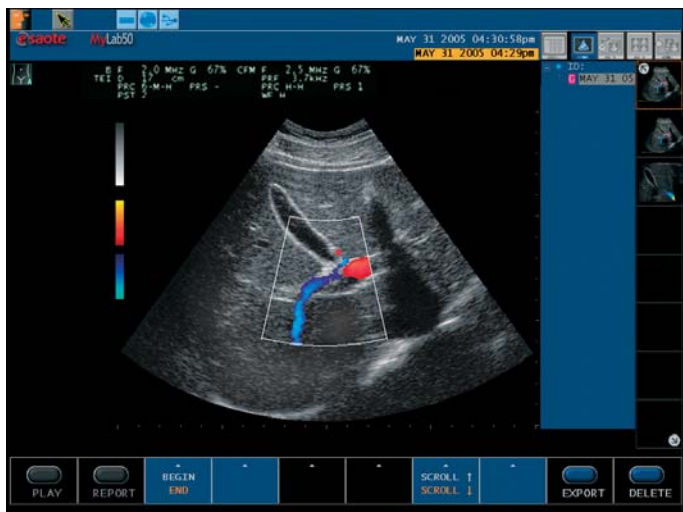
The MyLab50 is an ideal system for the modern OB/GYN practice or department. Esaote's unique **200° field-of-view** endocavity transducer, automatic pulsatility and resistive index (PI,RI) calculation and Doppler tracing functions are just a few of the features that help practitioners make easy and reliable diagnoses. The **X4D** real-time imaging option adds a new dimension to obstetric imaging and is easy to learn and use. The comprehensive OB/GYN measurements and reports package makes data analysis simple.

#### >Urology

The exceptional performance of Esaote's unique endocavity transducer, which ensures high spatial and contrast resolution with a **200° field of view**, is a true advantage to any urology department or clinic. Use of the endocavity probe together with the available biopsy kit can assist healthcare providers in making a reliable diagnosis and designing treatment for prostate diseases.

The **TEI** and **CnTI** features are also available for Esaote's endocavity probe, adding an extra diagnostic capability to both gynecology and urology examinations.

# Think Flexible Think Flexible



## >Extreme Connectivity

The MyLab50 has been designed to be limitless in terms of connectivity. During real-time scanning, images and video clips are temporarily stored and can be displayed as thumbnails by pressing just one button. When selecting the final storage destination, the operator can easily choose from the integrated hard disk, DVD/CD burner, personal USB memory drive and/or network storage. Additionally, several types of printers can be attached to the system and controlled by dedicated buttons, including cost-effective inkjet and USB printers.

The MyLab50 is IHE (Integrating the Healthcare Enterprise) compliant. IHE is a initiative of the Radiology Society of North America and the Healthcare Information and Management Systems Society and brings together medical equipment and information products from different manufacturers for defining, testing and demonstrating an efficient workflow in the hospital-wide connectivity.

## >Post-processing Workstation

Esaote designs its ultrasound systems to be an integral part of a digital ultrasound department and not only a stand-alone piece of equipment. Therefore, the MyLab50 offers a direct connection to external workstations both in Windows® and DICOM® environments.

The modular configuration of the external workstation allows the user to choose his or her level of integration and offers the highest upgrade capability. The latest image management solution from Esaote, **MyLab Desk**, is an ideal solution for private offices, increasing their workflow and productivity. MyLab Desk installs the MyLab systems' user interface on a standard PC, allowing comfortable reviewing and processing with all the features of the PC. Additionally, the **BioPACS** package is a complete digital archive system for reviewing, exporting, reporting and printing clinical data. In a more sophisticated PACS environment, **Org@nizer** is the best cost-effective solution to improve daily clinical workflow.

- > **Limitless Connectivity**
- > **IHE Certification**
- > **Windows<sup>®</sup> and DICOM<sup>®</sup> compatibility**
- > **MyLab Desk, BioPACS<sup>™</sup> and Org@nizer<sup>™</sup> image management**





**MyLab50™**  
General Imaging



**MyLab50™ XVision**  
General Imaging



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DICOM® is a registered trademark of the National Electrical Manufacturers Association



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