

General Imaging

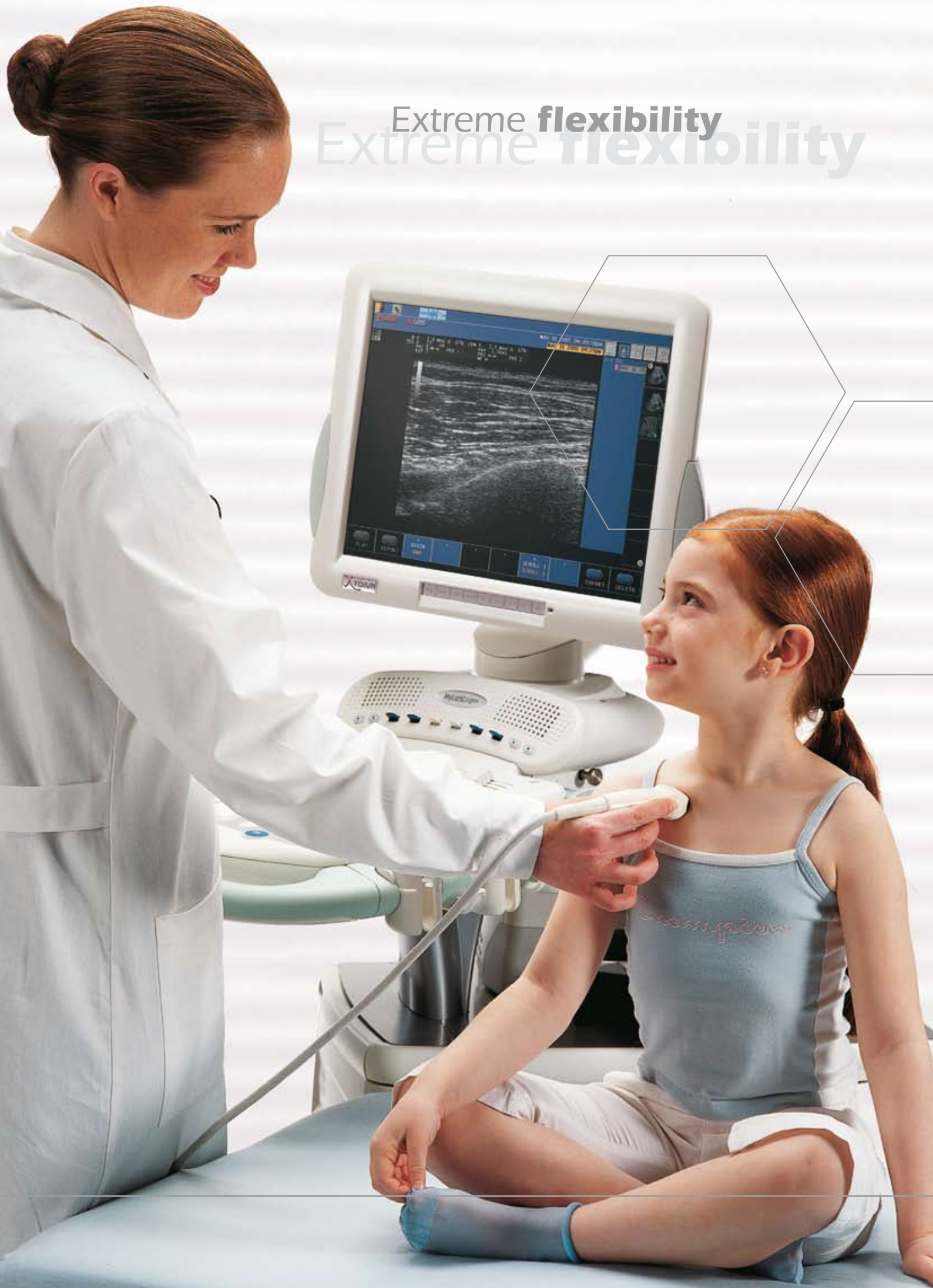
Extreme Flexibility without Compromise

MyLab50[™] X₂ Vision



 **esaote**

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™ architecture, the MyLab50 XVision incorporates Esaote's revolutionary XView technology which elaborates the pattern of every single frame at the pixel level, eliminating speckle and noise artifacts, dynamically enhancing tissue margins, improving tissue conspicuity and increasing diagnostic confidence. 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**

- > **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**

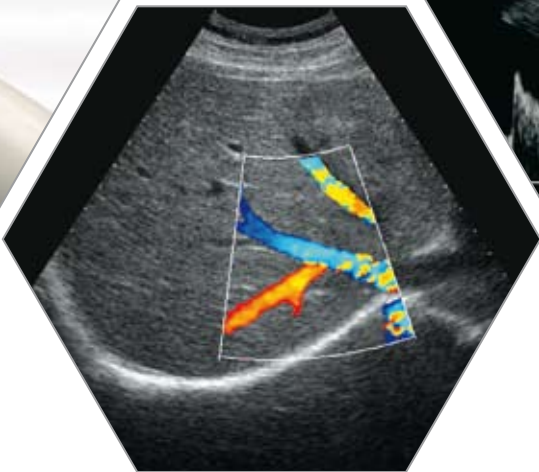
The MyLab50 is based on an extremely simple and intuitive user interface designed specifically for multiple-application requirements with direct access to the most frequently used functions. A fully height-adjustable and rotating keyboard with back-illuminated soft-keys on the system's alphanumeric keyboard ensures maximum comfort and versatility. The user can choose from a 19" LCD display or a 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
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.

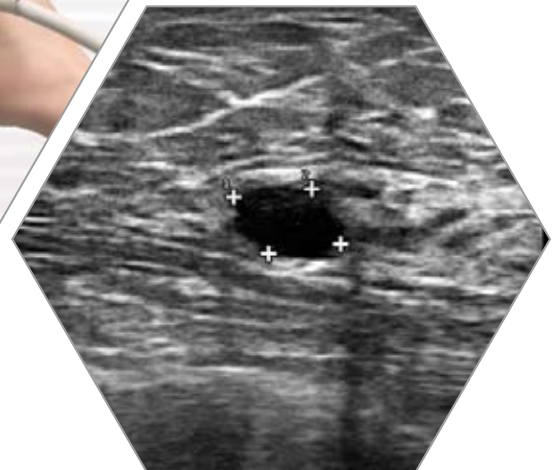
Esaote's proprietary CnTI (Contrast Tuned Imaging) technology uses a sophisticated signal-processing algorithm to obtain impressive response from contrast agents both in intermittent or real-time low-MI modalities. This can improve the ability to detect and characterize focal lesions, as well as raise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



- > TEI™ - Tissue Enhancement Imaging
- > VPan - Panoramic Imaging
- > CnTI™ - Contrast Tuned Imaging
- > MView - Detailed Resolution Imaging



MView

> **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.

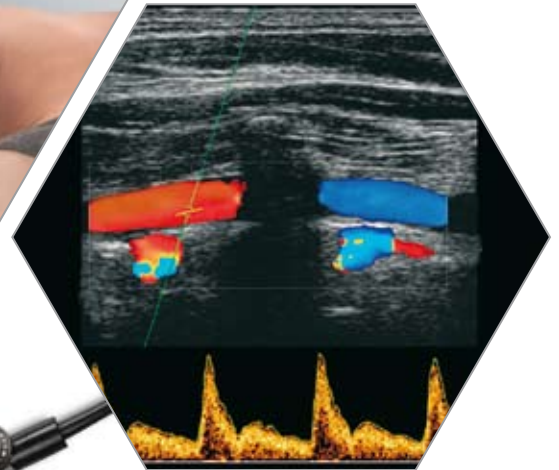
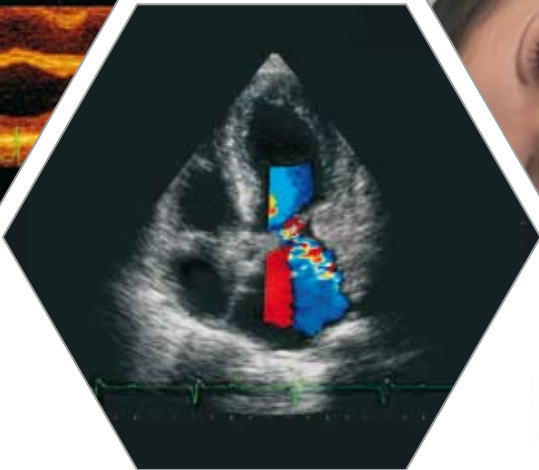
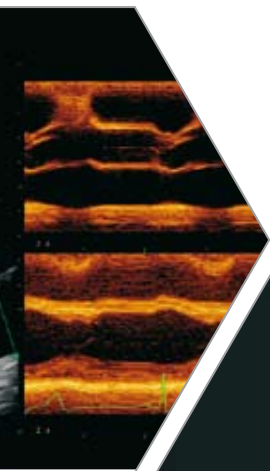
Revolutionary technologies such as TEI (Tissue Enhancement Imaging) and CnTI (Contrast Tuned Imaging) have been implemented on all of Esaote's high-frequency probes. This provides the users with the opportunity to produce images with an extremely low noise and artifact level. Impressive results are also 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.

Another powerful technique, which has been implemented on the MyLab50Xvision, is called **MView**. This technique gives the possibility to obtain dramatically enhanced contrast and detailed resolution and provides an increased visualization of borders and interfaces, as well as strong reduction of false diagnosis due to non-perpendicular pulsing.

Cardiology/Vascular
Cardiology/vascular



- > TEI™ - Tissue Enhancement Imaging
- > Compass M-Mode
- > TVM - Real-time Tissue Velocity Mapping



> **Cardiology/Vascular**

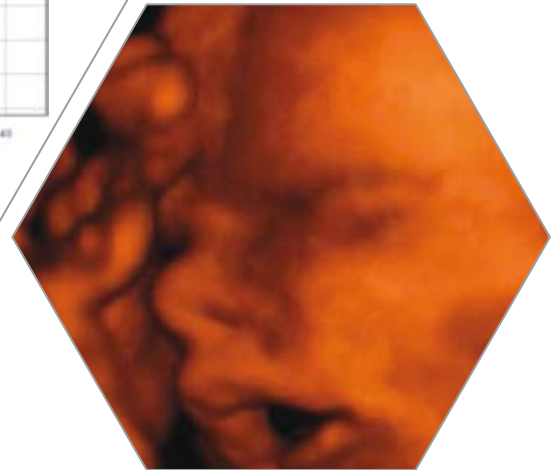
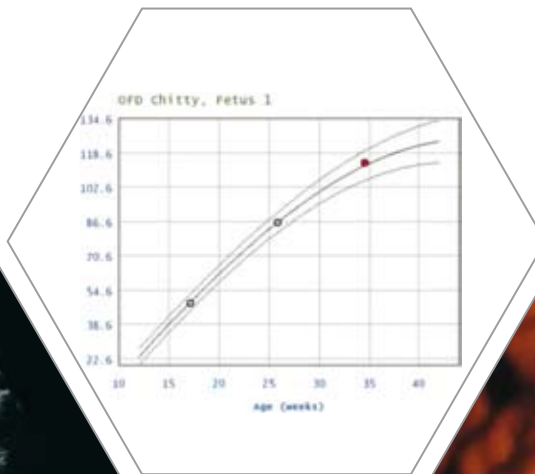
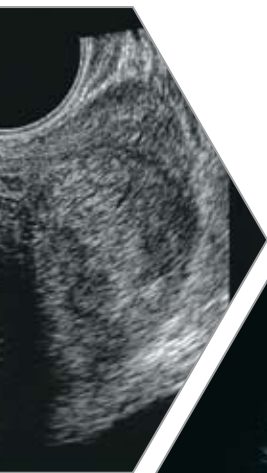
The MyLab50's TEI mode allows the operator can make clear and detailed diagnoses, even in difficult-to-image patients. The innovative **Compass M-Mode** tool allows up to two M-Mode lines to be placed and multiple measurements to be made on one image without moving the patient, an ideal approach to increasing 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 while **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

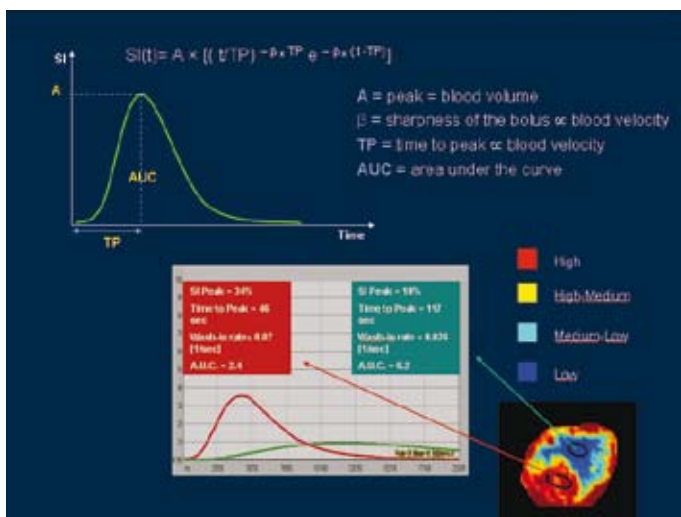
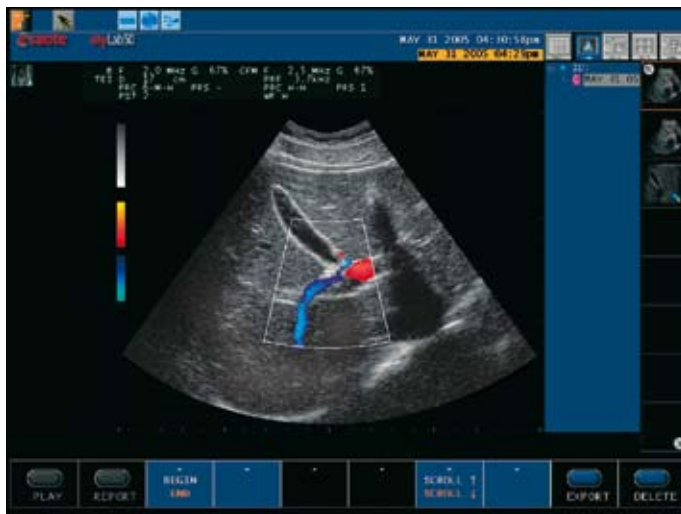
The MyLab50 is an ideal system for the modern OB/GYN practice or department. Esaote's unique **200° field-of-view** endocavity transducer, automatic pulsatility and resistive index (PI,RI) calculation and Doppler tracing functions are just a few of the features that help practitioners make easy and reliable 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



> 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, Quantification Tools

Esaote designs its ultrasound systems to be an integral part of a digital ultrasound department, both in Windows® and DICOM environments, and not only a stand-alone piece of equipment, allowing the user to choose the level of integration and offering 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. Moreover, additional advanced tools are available to provide quantitative assessment of contrast-enhanced examinations, including perfusion graphs and other important parameters.

- > Limitless Connectivity
- > IHE Compliance
- > Windows® and DICOM compatibility
- > MyLab Desk, BioPACS™ and Org@nizer™ image management





MyLab50 XVision

833.0738.000 (MA Rev. D)



ISO 13485:2003 ISO 9001:2000

Windows® is a registered trademark of Microsoft Corporation



0051

Esaote S.p.A.

International Activities: Via di Caciolle, 15 50127 Florence, Italy, Tel. +39 055 4229 1, Fax +39 055 4229 208, international.sales@esaote.com

www.esaote.com

FRANCE

Esaote France S.A.R.L.
22, rue Pierre Grange, 94124 Fontenay-sous-Bois
Tel. +33 1 4871 2525, Fax +33 1 4871 3630
esaote.france@wanadoo.fr

GERMANY

Esaote Biomedica Deutschland GmbH
Max-Planck-Straße 27a, 50858 Köln
Tel. +49 811 9986 490, Fax +49 811 9986 4920
esaote@esaote.de

SPAIN

Esaote España S.A.
Avda San Sebastian, s/n 08960 Sant Just Desvern, Barcelona
Tel. +34 93 473 2090, Fax +34 93 473 2042
info@esaote.es

THE NETHERLANDS AND BELGIUM

Pie Medical Benelux B.V.
P.O. Box 1132, 6201 BC Maastricht
Tel. +31 43 3824650, Fax +31 43 3824651
benelux@pie.nl

INDIA

Esaote Asia Pacific Diagnostic Private Limited
F-1, Level 1, Global Arcade, Near Global Business Park
M.G. Road, Gurgaon (Haryana)-122002
Tel. +91 124 4775600, Fax +91 124 4775699
amit.aggarwal@esaote.com

USA

Biosound Esaote Inc.
8000 Castleway Drive,
P.O. Box 50858, Indianapolis, IN 46250
Tel. +1 317 813 6000, Fax +1 317 813 6600
info@biosound.com

CHINA

Esaote China Ltd
18/F, 135 Bonham Strand Trade Centre,
135 Bonham Strand, Sheung Wan, Hong Kong
Tel. +852 2545 8386, Fax +852 2543 3068
esaote@esaotechina.com

RUSSIAN FEDERATION AND CIS

Esaote S.p.A.
18 Leningradsky prospekt, off. 5 and 6, Moscow 125040
Tel. +7 495 232 0205, Fax +7 495 232 1833
esaotemoscw@mtu-net.ru info@esaote.ru

ARGENTINA

Esaote Latinoamérica S.A.
San Martín 551, Cuerpo 'C', Piso 8, (C1004AAK) Buenos Aires
Tel. +54 11 4326 1832, Fax: +54 11 4328 1245
info@esaote.com.ar

UK

Esaote Europe BV
UK Branch Office, 400 Thames Valley Park Drive,
Reading, Berkshire, RG6 1PT
Tel. +44 118 965 3500, Fax +44 709 288 0231
ukinquiries@esaote.nl