



PLATFORM



Esaote has always been recognized as an innovator in medical technologies through the company's investment in significant research activities, constructive relationships with important scientific societies and strong support from advanced laboratories.

These are the basic elements on which the new MyLab GOLD platform has been developed, raising the standard in high-level ultrasound and offering this extended capability to ultrasound professionals worldwide. The MyLab70 XVision configuration consists of the specially engineered LCD monitor, perfectly adapted to the video characteristics of the system, able to produce unmatched image quality, combined with specific software-embedded technologies. The MyLab70 XVision produces unmatched image quality in both terms of contrast and spatial resolution and increases user comfort while reducing eyestrain.

Esaote's expertise and the important contribution of opinion leaders and system users have made the results very clear:

- Quality: providing impressive image quality in all modalities and applications, delivering well-balanced systems and integrating the most updated technologies to consistently ensure the highest level of diagnosis.
- Flexibility: having the capability to fit perfectly into every medical environment, offering dedicated solutions to every single application and satisfying the needs of every unique operator.
- Workflow: thinking of the operator as the most important factor, whose demands for comfort have been met in the system's design. Ergonomics and immediate user-interface are a "must" at this level and increase clinical efficiency.
- Value: flexibility and modularity contribute to the system's value by
 offering exactly what the operator needs and broadening the number of
 possible users. By enhancing the investment with exclusive technologies,
 the system will increase the diagnostic capability of every user.



Extending

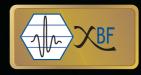
Technology





eXtended Modular Architecture

The revolutionary MyLab architecture allows unlimited solutions in modularity, offering extreme flexibility in system configurations. Intelligent parallel signal elaboration eliminates missing data due to any computational process or additional function and offers increased speed.



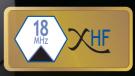
eXtreme Beam Former

The latest generation beamformer allows complex management of excitation waveform and as a result of the complete linear chain, the system can reach unmatched performance in all modalities, including standard and harmonic imaging.



eXtreme Focusing Technology

The high-level components and solutions enable enhanced spatial focalization and resolution, obtaining detailed and noise-free imaging in all modalities.



eXtreme HF Imaging

The superior limit of the bandwidth on the linear transducers (up to 18 MHz) offers very detailed and precise imaging even in very superficial anatomy. The multiple transmission frequency allows the same probes to scan deeper structures as well.



eXtreme View

XView image processing 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 first system of the new MyLab GOLD platform, the MyLab70 represents the state-of-the-art in terms of modular architecture.



Tp-View VPan PBI CnTITM X4D Imaging
Virtual Navigator
ART.LAB
RF Output

Esaote's Research and Development departments create the best solutions in terms of components and engineering, in order to deliver systems such as the MyLab70 with exceptional features:

- Impressive Image Quality: the MyLab70 provides a new standard of image quality in all modalities and in a wide range of applications, including abdominal, small parts, vascular, cardiology and surgery.
- Advanced Architecture: The revolutionary MyLab GOLD platform is based on the most updated electronic and informatics architectures and is able to manage even the most recent developments in signal processing and treatment.
- Software-Based Updating: Due to the sophisticated architecture, the continuous technological evolution in the medical field can be available to the user merely through software upgrades. Specific upgrading kits can easily improve the performance of the MyLab70 and enable new functions or technologies to always ensure the most updated diagnostic capability.
- Easy and Fast Interfacing: The largest potential of informatics is
 that it can add a consistent value to clinical results. These sophisticated
 calculations are normally performed on powerful workstations, which is
 why the MyLab70 has been designed with unlimited capabilities in data
 transfer and sharing.
- Unique Versatility: Versatility means the MyLab70 is a system that can continuously evolve, ensuring a perpetual return on investment.

The modular architecture of the MyLab70 allows the system to be equipped with a range of optional and standard features.

Tp-View (Trapezoidal Imaging) While using linear transducers and scanning extended structures in breast and vascular applications, the trapezoidal imaging feature permits the field of view to be enlarged without losing resolution.

VPan (Panoramic Imaging) Increasing the field of view in real-time scanning is a very important feature in musculoskeletal and vascular applications. Having the entire anatomical structure displayed on the screen with additional zoom and measurement features increases confidence and allows more accurate diagnosis.

PBI (Pure Brilliance Imaging) Pure Brilliance Imaging technology optimizes and enhances the image quality by automatically utilizing the entire dynamic range available and providing automatic enhancement of the B-Mode image.

CnTI™ (Contrast Tuned Imaging) Esaote's revolutionary technology in combination with ultrasound contrast agents provides impressive clinical results due to precise micro-bubble detection. The MyLab70 manages this technology in all modalities, all applications and all probes.

X4D Imaging All the technologies and features of the MyLab70's 2D imaging are the basis on which sophisticated algorithms are able to deliver outstanding 3D/4D volume reconstruction. With the latest real-time X4D technology, volumetric ultrasound scanning becomes easy and as real as ever.

Virtual Navigator Virtual Navigator is an advanced tool that combines the advantages of real-time ultrasound imaging with CT/MR images' high spatial and contrast resolution. Virtual Navigator is fully-integrated in the MyLab70 XVision system, enabling the user to switch easily between the Virtual Navigator and standard environment.

ART.LAB ART.LAB uses applications integrated in the MyLab70 to detect and monitor IMT (RFQIMT: Quantitative Intima Thickness) and arterial stiffness (RFQAS: Quantitative Arterial Stiffness). The results are based on raw ultrasound RF signals and are extremely accurate.

RF Output The MyLab70 is equipped with a dedicated output for the RF signal. This is an important feature for further expansion, changing the diagnostic capabilities of the system, for example tissue characterization.



User comfort and satisfaction is reflected in diagnostic confidence and clinical results.



PLATFORM

All-Inclusive Platform New Transducers One-Touch Workflow

Esaote has always been recognized as a leader in ergonomics, design and simplicity of use. To maintain this leadership, appreciated by users and recognized by international awards, the MyLab70 has been designed together with the operator. This design concept recognizes that the operator has the most important role in clinical workflow, and that the system is his or her most reliable assistant.

The comfort and satisfaction of the user is reflected in his or her diagnostic confidence and therefore plays an important role in the clinical results.

- · Low eyestrain, high-quality LCD monitor
- · Compact dimension and easy maneuverability
- · Adjustable keyboard and monitor
- · Four low-friction wheels with brakes
- Complete and back-illuminated control panel including full-size alphanumeric keyboard
- Secondary control panel with mode-dependent keys and controls
- Easy and comfortable peripherals location
- Dedicated controls to save user preferences and quickly use the optimal presets (default) to optimize image quality

All-Inclusive Platform

The most up-to-date choices in platform design deliver unlimited potential in upgrading as well as field-based software kits.

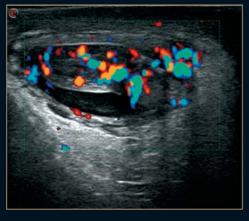
New Transducers

The new family of transducers is very light and ergonomically designed in order to reduce the strain of daily use. The extremely wide bandwidth produces impressive results and optimizes the MyLab70's configurations.

One-Touch Workflow

The MyLab70 has been designed to be compliant with the latest clinical protocols; dataflow is organized to export clinical results in any format by merely pressing a button.

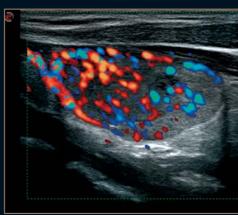
Extending Diagnostic Confidence



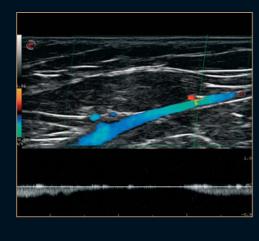




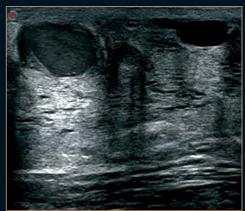








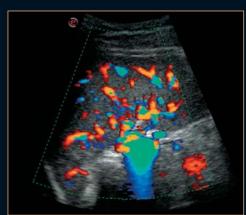




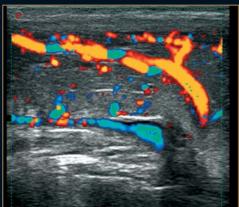
MyLab70 Family General Imaging

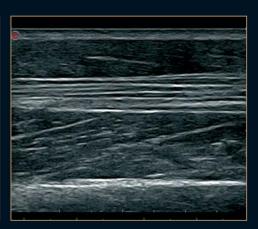








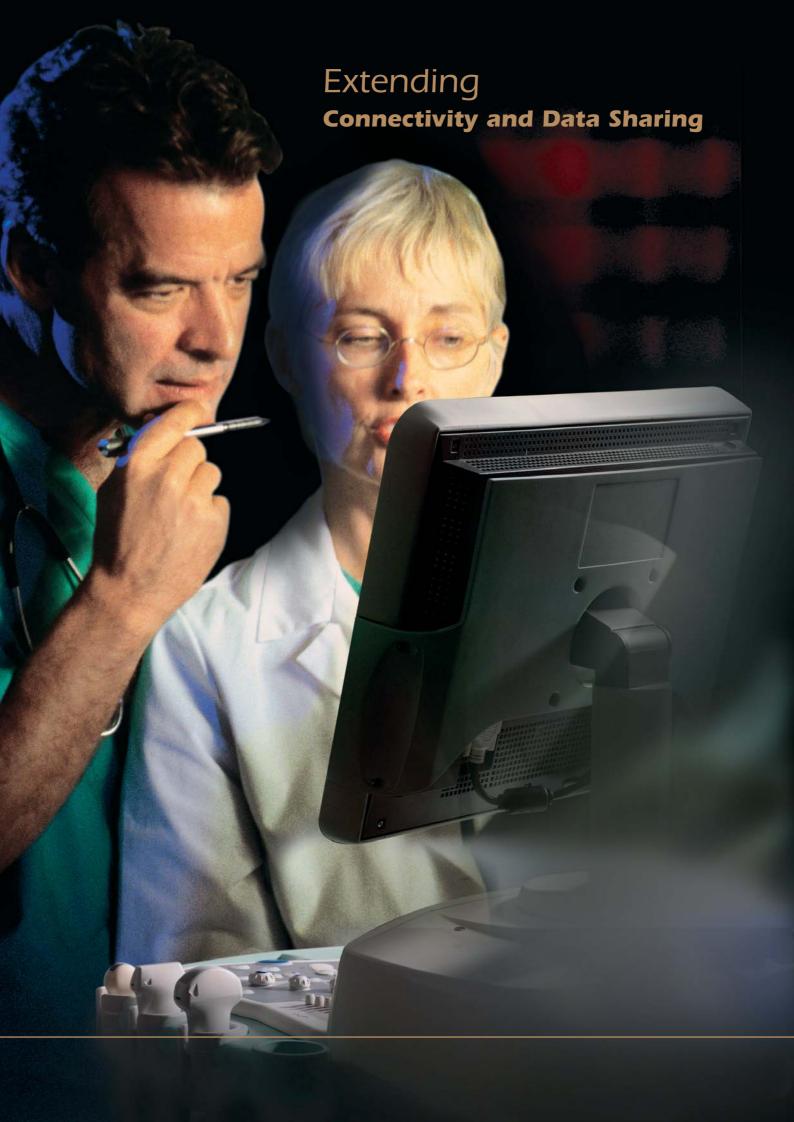












Increase clinical workflow, expand productivity and reduce the cost of daily activities.



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The high performance of the MyLab70 combined with extensive connectivity capabilities can increase clinical workflow, expand productivity and reduce the cost of daily activities.

This is a reality either in a bustling hospital department, where interfacing with the most updated network architecture is required or in private practice, where the reduction of the time-per-patient and the efficient management of single examinations and safe procedures for data archiving and backup are crucial.

All of these needs are addressed by the MyLab70 digital architecture, which offers several features that will raise the standard of daily practice.

MyLab Desk, Esaote's latest image management solution, is an option to increase workflow and productivity in both private offices, as well as clinic and hospital departments. MyLab Desk installs the MyLab70 user interface on a standard PC, offering a comfortable reviewing and processing station based on all the PC's available functions and convenience.

Real-time archiving
Instant connectivity to PC environments
Up-to-date peripheral configuration
Wireless and Bluetooth® connection
DICOM® compliance
IHE compliance
MyLab Desk, BioPACSTM, Org@nizerTM

- Real-time archiving of the active examination without disrupting the examination, without a decrease in performance during storing, without using "freeze". Just by pressing one button.
- Instant connectivity to PC environments: video clips and still frames can be exported to a PC quickly using a wide assortment of available formats and compressors.
- Up-to-date peripheral configuration: the MyLab70 is equipped with four USB 2.0 ports for fast and simple exporting of clinical data. Furthermore, the single examination or part of the internal hard disk can be easily exported to the DVD/CD burner for a structured and safe backup of clinical data.
- Wireless and Bluetooth[®] integrated connection: all peripherals supporting
 these communication protocols can be inserted into the local network structure
 to increase the efficiency and the technology of the practice or department.
- DICOM® compliance: The MyLab70 can be easily integrated into the most advanced hospital architectures, as it fully implements all necessary DICOM classes (Store SCU, Media Exchange, Worklist, Print, MPPS, Storage Commitment).
- IHE (Integrating the Healthcare Enterprise) compliance: the MyLab70
 has been fully qualified according the IHE Technical Framework. The IHE initiative,
 sponsored by RSNA (Radiological Society of North America) and HIMSS (Healthcare
 Information and Management Systems Society), brings together medical equipment
 and information products from different manufacturers for defining, testing and
 demonstrating an efficient workflow in the hospital-wide connectivity.
- MyLab Desk, BioPACS™-Org@nizer™ Suite and other workstation direct
 connection capability: all the clinical data acquired and stored on the system,
 such as still frames, video clips and reports, can be easily transferred to an
 external workstation for further analysis (reviewing, measuring, reporting,
 printing,...) or for additional post-processing, based on sophisticated algorithms
 and applications running on a PC platform.















Bluetooth® is a registered trademark of the Bluetooth SIG, Inc. DICOM® is a registered trademark of the National Electrical Manufacturers Association



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