

General Imaging

Extending Ultrasound Capabilities

MyLab™70

ESAOTE
THE IMAGE OF INNOVATION™



Extending
Architectural Platform

MyLab**GOLD**
PLATFORM

GOLD

PLATFORM

MyLab™70
General Imaging



Esaote always has been recognized as an innovator in medical technologies. Esaote accomplishes innovation by relying on 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 experience to more users worldwide.

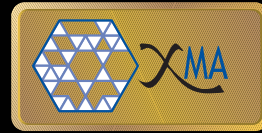
Esaote's expertise and the important contribution of opinion leaders and system users have made the outcomes very clear:

- **Quality:** providing impressive image quality in all the modalities and all the applications, delivering very well-balanced systems and integrating the most updated technologies to always ensure the highest level of diagnosis
- **Flexibility:** having the possibility to perfectly fit into every medical environment, proposing dedicated solutions to the single application and satisfying the needs of every unique operator
- **Workflow:** thinking of the operator as the most important component of the project, who has to feel the comfort of working with a system designed for his requests. Ergonomics and immediate user-interface are a "must" at this level to increase clinical efficiency of every laboratory
- **Value:** flexibility and modularity contribute to the value proposition, offering exactly what the customer needs and broadening the number of users. By enhancing the investment with exclusive technologies, the system will increase the diagnostic capability of every user.



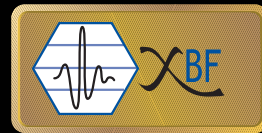
GOLD Platform

Extending Technological Content



eXtended Modular Architecture

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



eXtended Beam Former

The latest generation beam former allows a complex management of excitation waveform and can reach unmatched performance in all the modalities, including standard and harmonic imaging



eXtreme Focusing Technology

The high-level components and solutions enable special attention to spatial focalization and resolution, obtaining detailed and noise-free imaging in all the 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 investigation. The multiple transmission frequency allows the same probes to scan deeper structure



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

PLATFORM

Born from the new MyLab GOLD platform, MyLab 70 represents the state of the art in terms of architecture.

MyLabTM70
General Imaging

GOLD PLATFORM

Esaote's Research and Development departments selected the best in terms of components and solution, in order to deliver systems with exceptional features:

- **Impressive Image Quality:** MyLab70 provides a new standard of image quality in all the modalities and in a wide range of applications, including abdominal, small parts, vascular, cardiology, surgery and others
- **Advanced Architecture:** The revolutionary MyLab GOLD platform is based on the most updated electronic and informatic architectures and is able to manage even the latest solutions in terms of signal processing and treatment
- **Software-based Updating:** Thanks 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 system and enable new functions or technologies to always ensure the most updated diagnostic capability
- **Easy and Fast Interfacing:** The biggest potential of informatics is adding a consistent value to clinical results. These sophisticated elaborations are normally performed on powerful workstations and which is why MyLab70 has been designed to have unlimited capabilities in data transfer and sharing
- **Unique Versatility:** Versatility means the possibility to have a system always in evolution ensuring a continuous return of the investment

Tp-View

VPan

PBI

CnTI

3D/4D Imaging

RF OUTPUT

Tp-View

While using linear transducers and scanning extended structure, trapezoidal imaging permits an enlarged the field of view without losing resolution. This feature is very important in breast and vascular applications

VPan

Increasing the field of view of the 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 the confidence and allows a more accurate diagnosis

Pure Brilliance Imaging

Pure Brilliance Imaging technology optimizes and enhances the image quality. The gray scale usually obtained with the traditional ultrasound is enhanced by this brand new technique which automatically utilizes the entire dynamic range available and provides the automatic enhancement of the B-Mode image

Contrast Tuned Imaging (CnTI)

Esaote's revolutionary technology in combination with ultrasound contrast agents provides impressive clinical results due to the precise micro-bubble detection. MyLab70 manages this technology in all modalities, all applications and all probes

3D/4D Capability

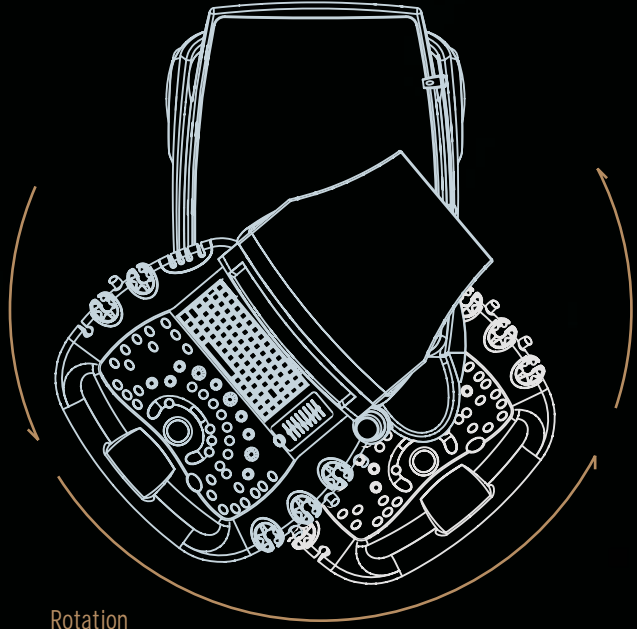
All the technologies and features concurring to provide new standard in 2D imaging are the basis on which sophisticated algorithms are able to deliver outstanding 3D volume reconstruction. With the latest introduced 4D technology, the ultrasound scanning becomes easy and as real as ever

RF signal output

MyLab70 is equipped with a dedicated output for RF signal. This is a very important feature for further elaboration, changing the diagnostic capabilities of the system and making tissue characterization easier and closer

GOLD Platform

Extending Ergonomics and Design



Rotation



Height adjustment



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

GOLD PLATFORM

Esaote's systems have always been recognized as leading-edge in terms of ergonomics, design and simplicity of use.

To maintain this leadership so well appreciated by the users and even recognized by international awards, MyLab70 has been designed "together with the operator", where the latter has the most important role in the clinical workflow and the system is the most reliable assistant.

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

- 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-depending keys and controls
- Easy and **comfortable** peripherals location
- **Dedicated** controls to save user preferences and to quickly have the best preset to optimize image quality

All Inclusive Platform

New Transducers

One Touch Workflow

All inclusive Platform

The most up-to-date choices in platform design deliver unlimited potential in terms of upgrading as well as software-based kits usable on the field

New Transducers

The new family of transducers is very light and ergonomically designed in order to reduce the strain in daily practice. The extremely wide bandwidth allows the reach of impressive results and optimization of the systems configurations

One Touch Workflow

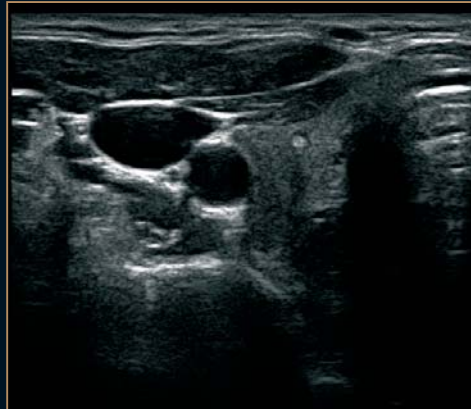
The system has been designed to be compliant with the latest clinical protocols. At the same time the data flow is organized to have clinical results exported in any format by merely pressing a button



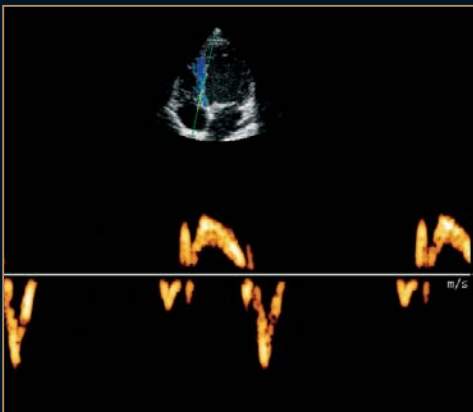
Extending
Diagnostic Confidence



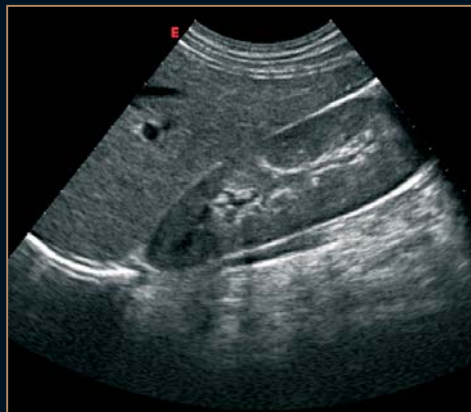
Liver scanning with a clear and homogeneous visualization of parenchyma and internal vessel



Thyroid with focus on micro calcification
Outstanding spatial and contrast resolution



Evaluation of the movement of the septum through T.V.M. and T.V. modalities



Kidney with focus on a lesion placed in the deeper

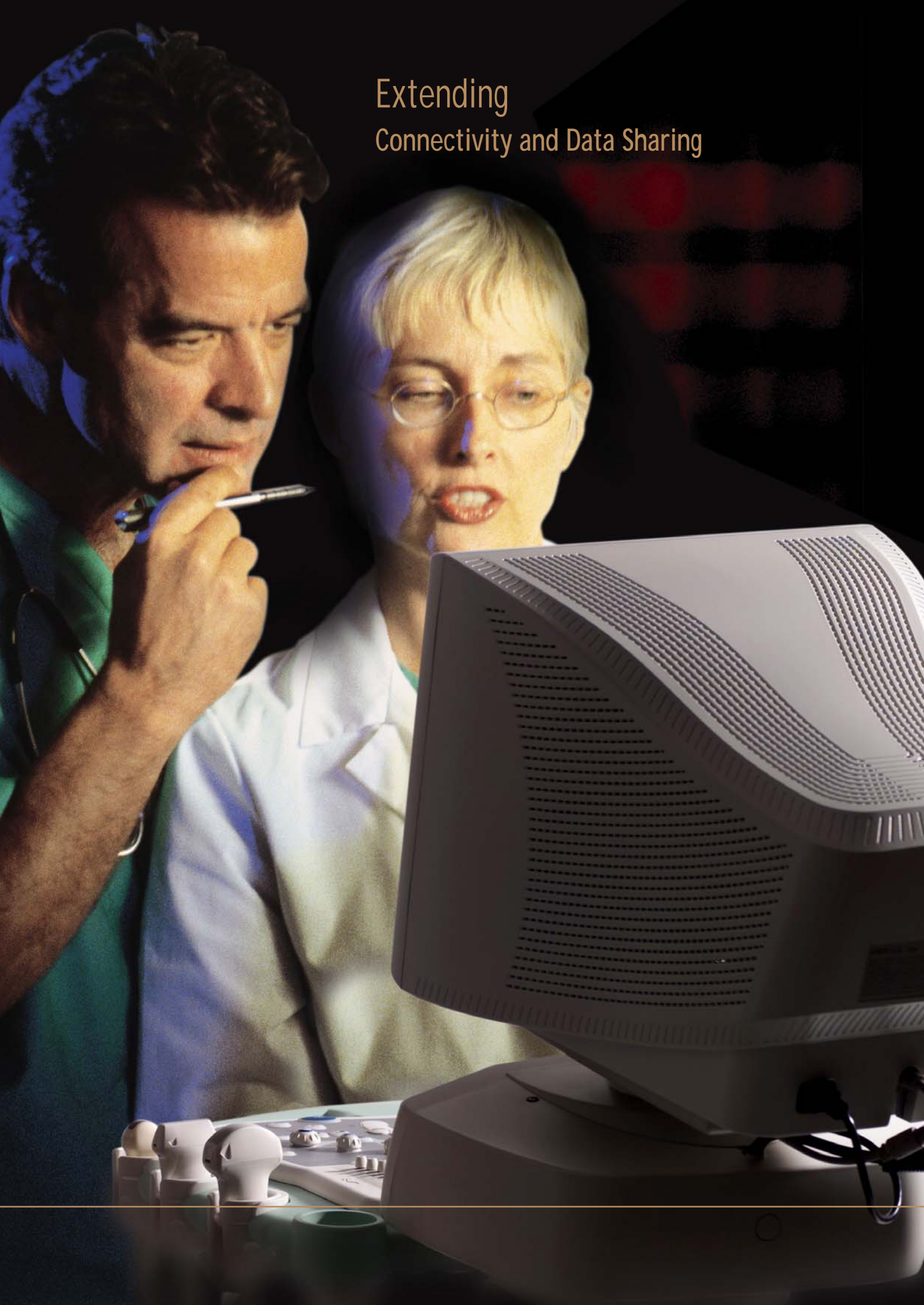


Carotid Flow - Very precise resolution and representation



Testicle - Detailed representation of very superficial areas resulting from the extended bandwidth

Extending
Connectivity and Data Sharing



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

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The high performance of the system combined with high-level connectivity capabilities to increase the clinical workflow, expand the productivity of laboratories and reduce the cost of daily activities.

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

All of these features are addressed by the MyLab 70 digital architecture, which is able to offer several features that will raise the standard of daily practice.

Real-time archiving of the active examination

Immediate connectivity to PC world

Up-to-date peripheral configuration

Wi-Fi and Bluetooth connection

DICOM compliance

**Direct connection to BioPACS-Org@nizer Suite
and other Workstations**

- **Real-time archiving** of the active examination: without interference with scanning, without a decrease in performance during storing, without using "freeze". Just pressing a button
- **Immediate connectivity** to PC world: video clips and still frames can be quickly exported to a PC, using a wide assortment of available formats and compressors
- **Up-to-date peripheral configuration:** 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 Writer, for a structured and safe backup of clinical data
- **Wi-Fi and Bluetooth** connection: all peripherals supporting these communication protocols can be inserted into the local network structure, to increase the efficiency and the technological level of the laboratory
- **DICOM compliance:** MyLab70 can be easily inserted in the most advanced hospital architectures, fully implementing all the needed DICOM classes (Store SCU, Media Exchange, Worklist and Print)
- **Direct connection** to BioPACS-Org@nizer Suite and other Workstations: 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 a more comfortable analysis (reviewing, measuring, reporting, printing, ...) or for further post-processing elaborations, based on sophisticated algorithms and applications running on PC platform

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