Cardiovascular

More than a Portable System

MyLab™30Gold
Cardiovascular

esaote

More than Mobile

Setting a new standard:
the Premium-performance Mobile

- **A new class of systems:** the Gold Standard in terms of quality and solutions meets the portable ultrasound to deliver unmatched performance, defining a new class of systems.
- **Two electronic connectors:** Two probes simultaneously connected to the system allows fast selection and activation as well as extended range of applications even in the portable configuration. The high-level of the system ensures probe compatibility with top-end systems.
- **Ergonomic keyboard:** derived by top-end systems, it offers extended control panel and mode-dependent controls, to obtain the best imaging in the shortest time. Ease of use and user's comfort are guaranteed.
- **High performance 15" LCD monitor:** the most recent LCD technologies ensure clear image visualization, low reflection and eyestrain.
- **Integrated Battery:** thanks to the integrated lightweight battery, the high-level features of the MyLab30 Gold Cardiovascular can be brought where they are needed: innovative workflow and virtual movement of echo-lab near to the patient.

From stationary configuration...

MyLab30Gold
Cardiovascular

Virtually **move your cardiovascular echo-lab** to the point-of-care

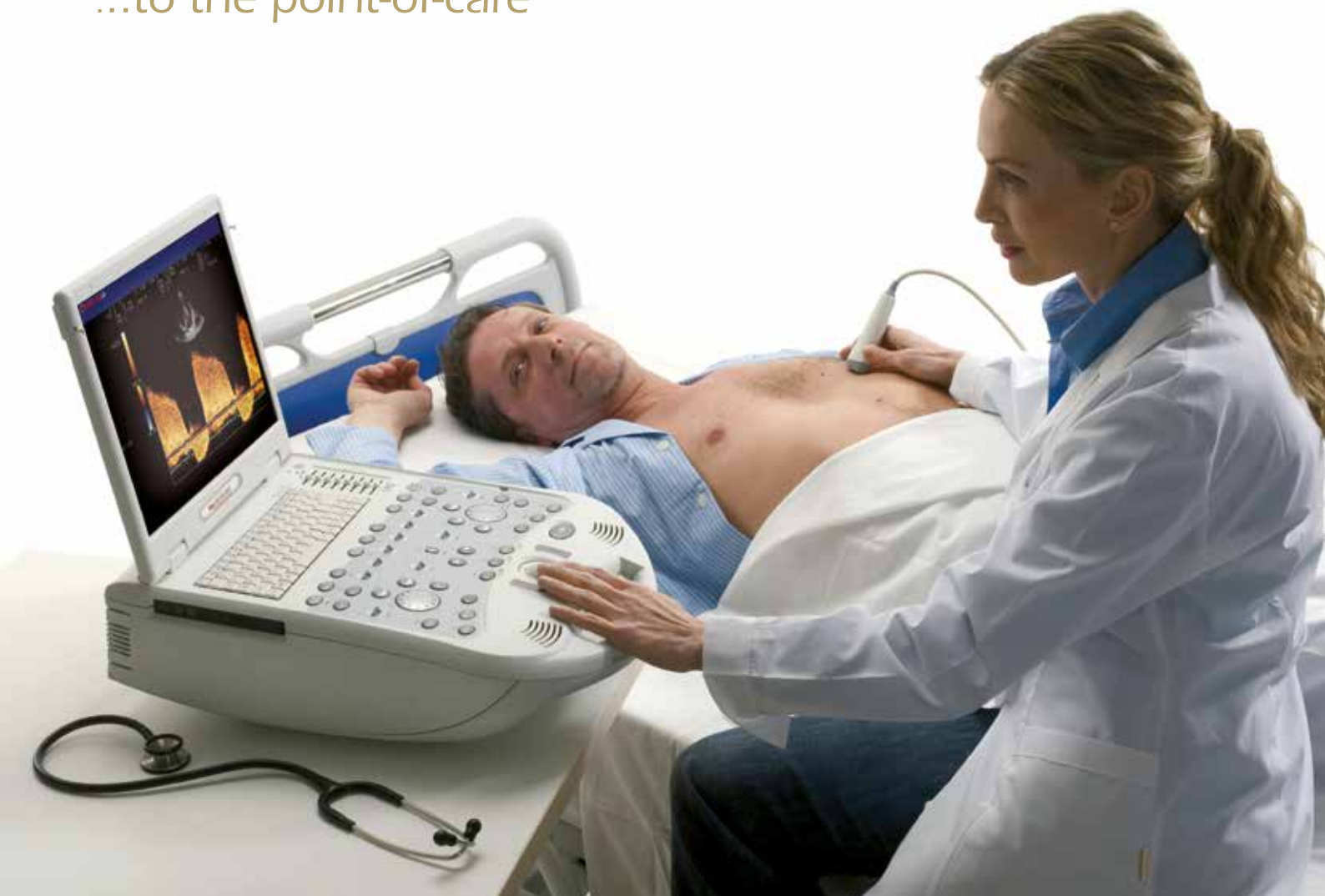
The new MyLab30 Gold Cardiovascular is able to perfectly match the latest technological innovations with ease of use and portability.

This new concept reflects and fully satisfies the recent evolution of the users needs: high performance and reliability on top of compactness and portability.

While ensuring very high diagnostic confidence, the new MyLab30 Gold Cardiovascular offers a wide range of configurations to meet any clinical need and any user preference:

- **Portable:** thanks to the integrated lightweight battery, MyLab30 Gold Cardiovascular can easily work with full performance even in portable configuration. This feature easily extends ultrasound systems to growing fields, such as Mobile Services, Emergency, CCU, OR, and Anesthesia
- **Multi-site:** mobility is a rapidly growing request both in the private and public environment. MyLab30 Gold Cardiovascular offers a wide of range of trolleys and accessories providing the freedom to bring complete and reliable diagnostic capability wherever you need and whenever you want
- **Chart-based:** when positioned on the stationary trolley, it offers the consistency of a standard console system, including a large LCD monitor, extended back-lighted keyboard, probe holders and peripheral locations

...to the point-of-care



More than Flexible

Latest Innovation in Cardiology in your Hands

The Advanced Cardiac Package makes MyLab30 Gold Cardiovascular even more exclusive.

It represents the state of the art in terms of technologies and diagnostic capabilities in cardiovascular ultrasound: B-mode image optimization, advanced and innovative functional modalities, coherent review station for archiving and post-processing operations.

Advanced Cardiac Package:

- **TEI™** Tissue Enhancement Imaging
- **XView** Real-time Adaptive Algorithm
- **MView** Multiview Imaging
- **CMM Advanced M-Mode processing**
- **TVM** Tissue Velocity Mapping
- **Stress Echo** Comprehensive package
- **CnTI™** Contrast Tuned Imaging
- **XStrain™** 2D-based innovative method
- **MyLab Desk** Coherent Work Station software

XStrain

Why 2D-based XStrain overcomes any Doppler-based technology

The most important limitations of any Doppler-based technology are the angle dependence and the frame rate reduction. These intrinsic limitations allow the operators to describe only the longitudinal mechanics of the heart as a simple pump. 2D-based XStrain represents the most advanced method to correctly describe LV Myocardial Velocities, Strain and Strain-Rate, including radial and circumferential visualization.

MyLab30 Gold Cardiovascular, a new standard in cardiology.

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Innovation and Accuracy
in Vascular Imaging

An important issue in modern medicine.

The Advanced Vascular Package completes the MyLab30 Gold Cardiovascular configuration providing an additional exclusive solution to meet all the requests rising from both traditional and innovative diagnostic modalities.

Advanced Vascular Package:

- Application-dedicated transducers
- TCD-dedicated setting and report
- Image Optimization technologies (XView, MView, etc...)
- Easy and fast 3D acquisitions
- High-sensitive and low artifacts Doppler
- Complete and detailed measure and report package
- Innovative RF-based IMT measurement

RF QIMT

Why standard IMT becomes RFQIMT?

In addition to traditional parameters, intima media thickness value (IMT) is useful in helping to understand arteriosclerosis, its severity and progression.

An accurate cardiovascular management at an early stage can provide an advantage to plan an efficient prevention and treatment regime.

MyLab30 Gold Cardiovascular and built-in RFQIMT technology can provide accurate real-time IMT measurement (21 µm) within one minute of exam, including a comprehensive report with IMT normal values over age. An enormous improvement compared to standard video-based processing.

More than Powerful

A **powerful platform** re-designed to meet a premium-performance mobile ultrasound system

A growing number of ultrasound users is today looking for an optimal solution where high performance meets mobile systems and portability.

With MyLab30 Gold Cardiovascular, any technological innovation and solution has been re-designed to be applied to the most advanced portable system, able to deliver unmatched performance, increased diagnostic confidence and an extreme ease of use at the same time.

Moreover, the high-level platform ensures extended modularity and upgradeability as well as easy and fast service diagnosis and recovery procedures.

Increased productivity and user comfort, maximized and protected value of the investment according to the longer product life.

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A **technological range** never expected in this class of systems

XStrain 2D-Based Strain-Strain Rate

The innovative XStrain technology provides an advanced and angle-independent 2D imaging-based tool for analyzing myocardial velocities, strain and strain rate detection. The quantification of these parameters is the most promising clinical technique for the early detection of myocardial contractility and distensibility impairment. XStrain provides an unmatched level of diagnostic capability and allows an innovative approach to further clinical procedures (i.e, CRT - Cardiac Resynchronization Therapy).

RFQIMT

RFQIMT technology can provide accurate real-time IMT measurement (21 µm) within one minute of exam, including a comprehensive report with IMT normal values over age. The accurate RF-based result allows a precise evaluation of patients' vascular conditions, on which prevention, treatment and follow-up plans can be defined.

XView Real-Time Adaptive Algorithms

The latest version of real-time complex image processing algorithm, XView, elaborates the pattern of every single frame at the pixel level, eliminating speckle and noise artifacts, dynamically enhancing tissue margins and improving tissue conspicuity. XView increases diagnostic confidence without any negative manipulation of the final image or loss of frame rate.

MView Multi-View Imaging

Combined contributions of standard and steered ultrasound beams allow optimized quality for comfortable detection of every anatomical structure and help to eliminate doubts in the final diagnosis. By reducing the presence of artifacts, shadowing and speckle, higher readability of the diagnostic images is guaranteed.

CnTI™ Contrast Tuned Imaging

Esaote's revolutionary technology in combination with the latest generation of ultrasound contrast agents provide precise micro-bubble detection. MyLab30 Gold Cardiovascular perfectly manages this technology and delivers impressive results in a wide range of application and probes.

More than Image Quality

The **Next Generation** of Transducers.

- **High performance** and high density array to always ensure the optimal image quality, even introducing application-specific transducers
- **Extended bandwidth** to deliver a wide range of settings for increased application of use, including standard and harmonic imaging
- **High sensitivity** for precise Doppler detection, reflected on CFM, Power and PW/CW signal
- **Light-weight and ergonomic approach** for user comfort in daily routine
- **Flexible cable** for easy maneuverability during the scanning
- **Elevate durability and reliability** to satisfy even the most productive hospital departments

appleprobes

An Innovative Approach in Ergonomics

The effects of sonographers' repetitive strain injuries due to muscles, tendons and nerves constant tension can be concretely reduced by the refined design.

Appleprobes keep the wrist in an aligned position, distributing the grip throughout the whole hand, as one grips an apple; when not scanning, sonographers can relieve tension on the fingers and the wrist, simply by keeping the probe between the fingers.

By offering a double approach (standard and innovative), the optimal solution can be always selected.

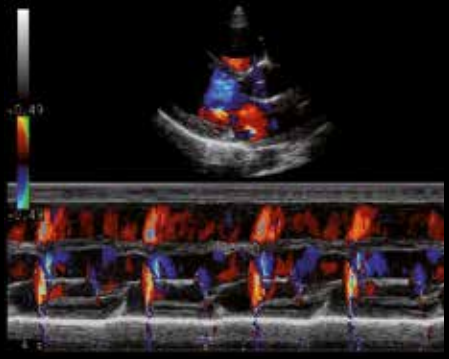
INTERNATIONAL DESIGN EXCELLENCE AWARDS '08
SILVER

12-2865-2006PD appleprobe

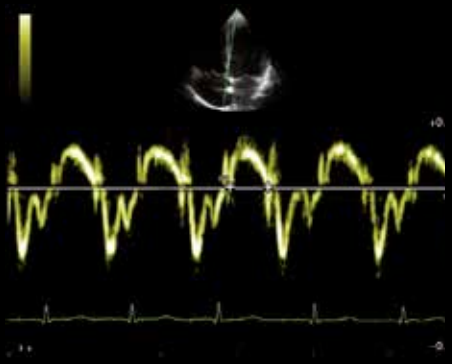
reddot design award
honourable mention 2008

The clinical results reflect **diagnostic confidence**

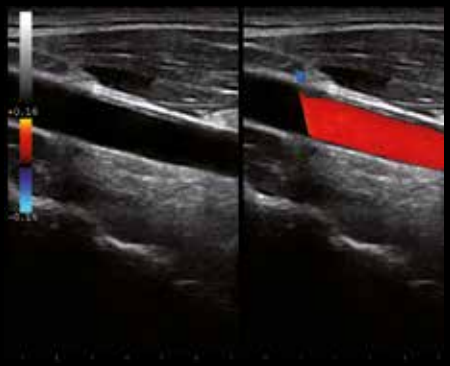
Parasternal long axis



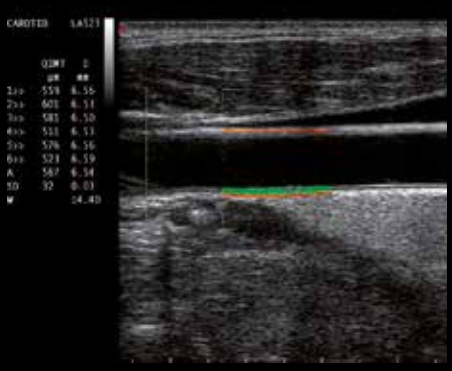
Color M-mode



TVM



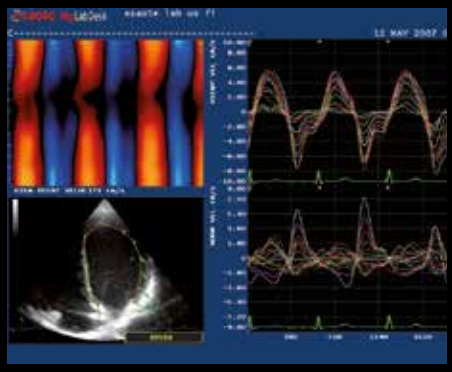
Dual CFM



[RF]QUIMT

Transcranial Power Doppler

Stress-echo



XStrain

XStrain

More than Data Management

The key to enter today's medical world

Healthcare standards have changed compared to the past and the evolution is well visible both in the public and private environment.

Hospitals and big clinics are more and more oriented to RIS/PACS systems, with special attention to DICOM and IHE compliance.

Private offices are anyway evolving, and physicians ask for easy and fast modalities to export, review, report and share clinical data.

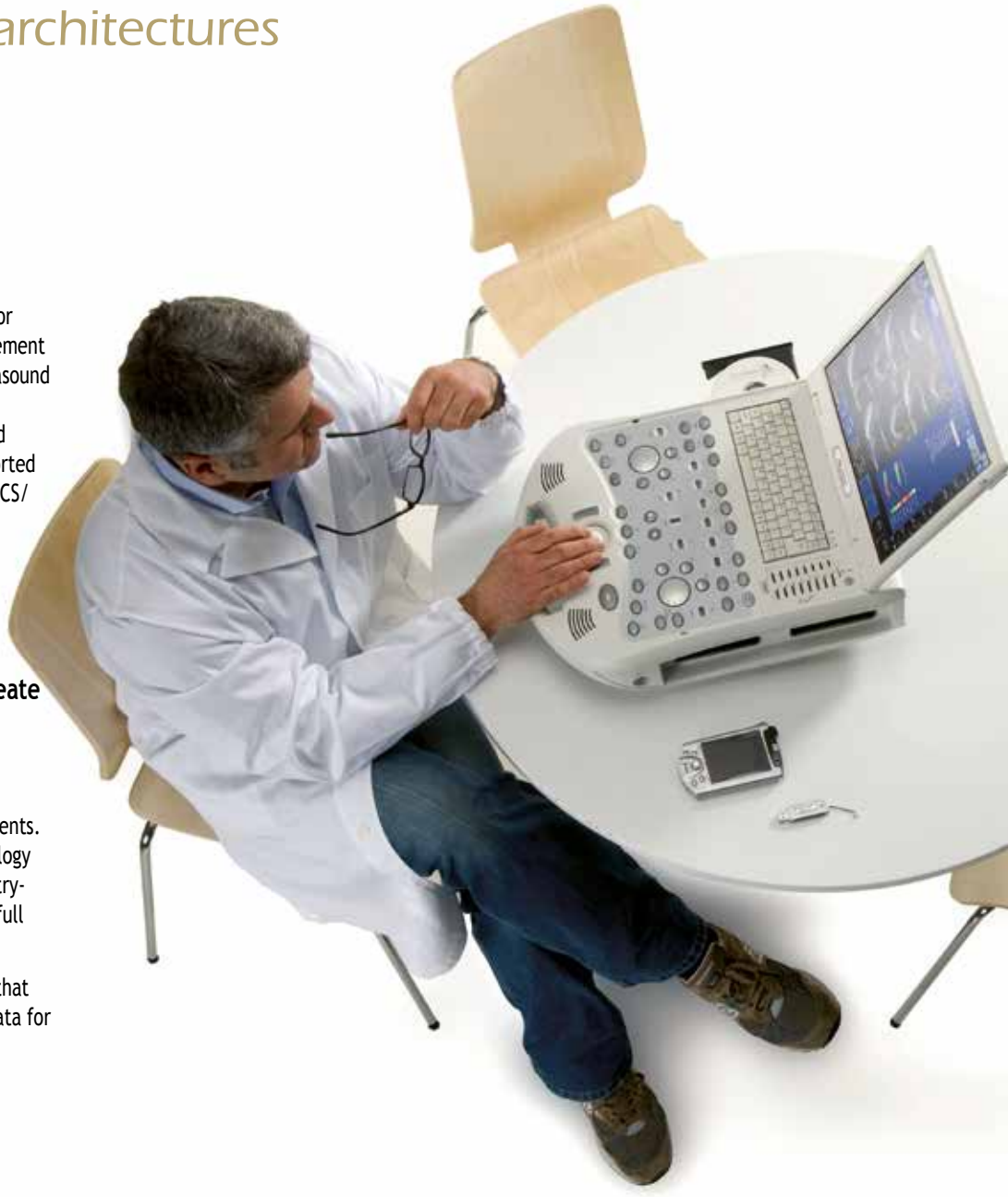
MyLabDesk

MyLab30 Gold Cardiovascular offers the **MyLabDesk software package**, an exclusive Esaote solution allowing the user to install the same software running on the ultrasound system on any PC.

MyLab30 Gold Cardiovascular offers the most up-to-date solutions:

- High capacity (>120 GB SATA) for internal data storage
- USB 2.0 and CD/DVD to export clinical data (proprietary, Windows® and DICOM format)
- Integrated network board for direct connection to LAN
- Direct Connection to external PC or workstation
- Compatibility with mobile devices
- Easy connection to Windows®/Dicom printers
- Wireless connection capability

Modular solutions to face more complex architectures



BioPACS

BioPACS: your personal imaging assistant.

A Single-Server mini-PACS configuration for patient-oriented Ultrasound data management able to manage a limited number of ultrasound diagnostic modalities with DICOM output. Clinical data, acquired from all supported devices, can be archived, reviewed, reported and printed or forwarded to any other PACS/ mini-PACS architecture.

Org@nizer™

Org@nizer: improve efficiency, create convergence, optimize workflow.

A scalable platform for the combined management of US images and clips, ECG waveforms and standard Windows documents. Developed for both Radiology and Cardiology environment, it can be used from the entry-level Single-Server configuration up to a full Client-Server solution.

Org@nizer includes a Web access option that allows physicians to access the clinical data for remote viewing and reporting.

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