

Cardiovascular

More than a Portable System

MyLab30Gold
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 MyLab30Gold can be brought where they are needed: innovative workflow and virtual movement of echo-lab near to the patient.

From stationary configuration...



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

The new MyLab30Gold 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 MyLab30Gold offers a wide range of configurations to meet any clinical need and any user preference:

- **Portable:** thanks to the integrated lightweight battery, MyLab30Gold 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. MyLab30Gold 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 MyLab30Gold 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
- Compass M-Mode Orientable processing line
- 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.

MyLab30Gold, a new standard in cardiology.

Innovation and Accuracy in Vascular Imaging

An important issue in modern medicine.

The Advanced Vascular Package completes the MyLab30Gold 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 ^{RF}QIMT?

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.

MyLab30Gold and built-in ^{RF}QIMT technology can provide accurate real-time IMT measurement (21 μ m) 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 MyLab30Gold, 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.





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 image 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.

CnTITM Contrast Tuned Imaging

Esote's revolutionary technology in combination with the latest generation of ultrasound contrast agents provide precise micro-bubble detection. MyLab30 GOLD 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.

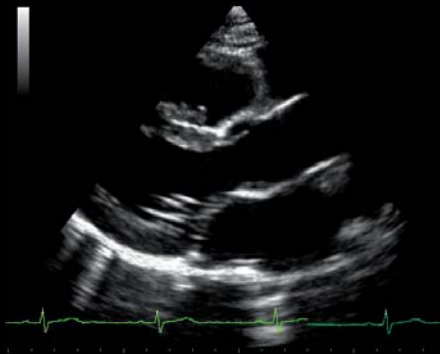
By offering a double approach (standard and innovative), the optimal solution can be always selected.



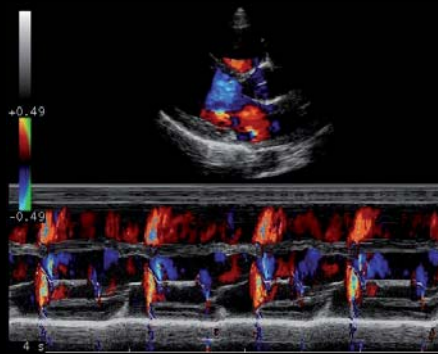
reddot design award
honourable mention 2008



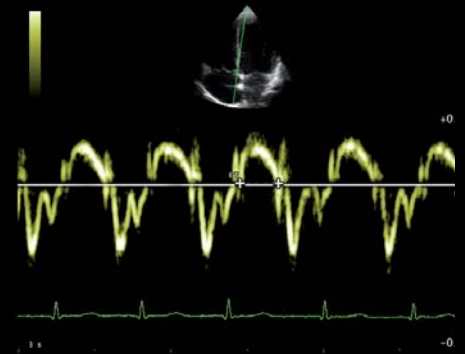
The clinical results reflect
diagnostic confidence



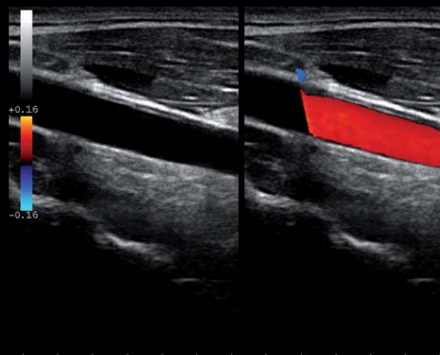
Parasternal long axis



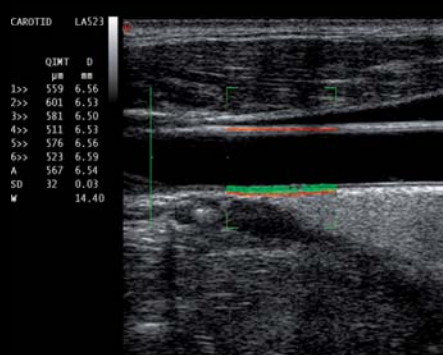
Color M-mode



TVM



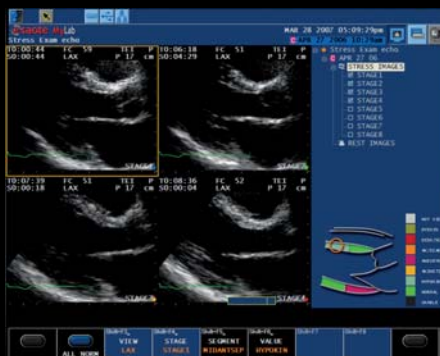
Dual CFM



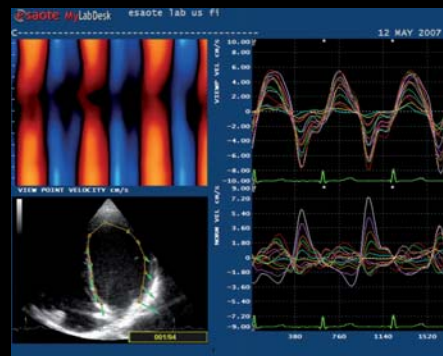
RFQIMT



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.

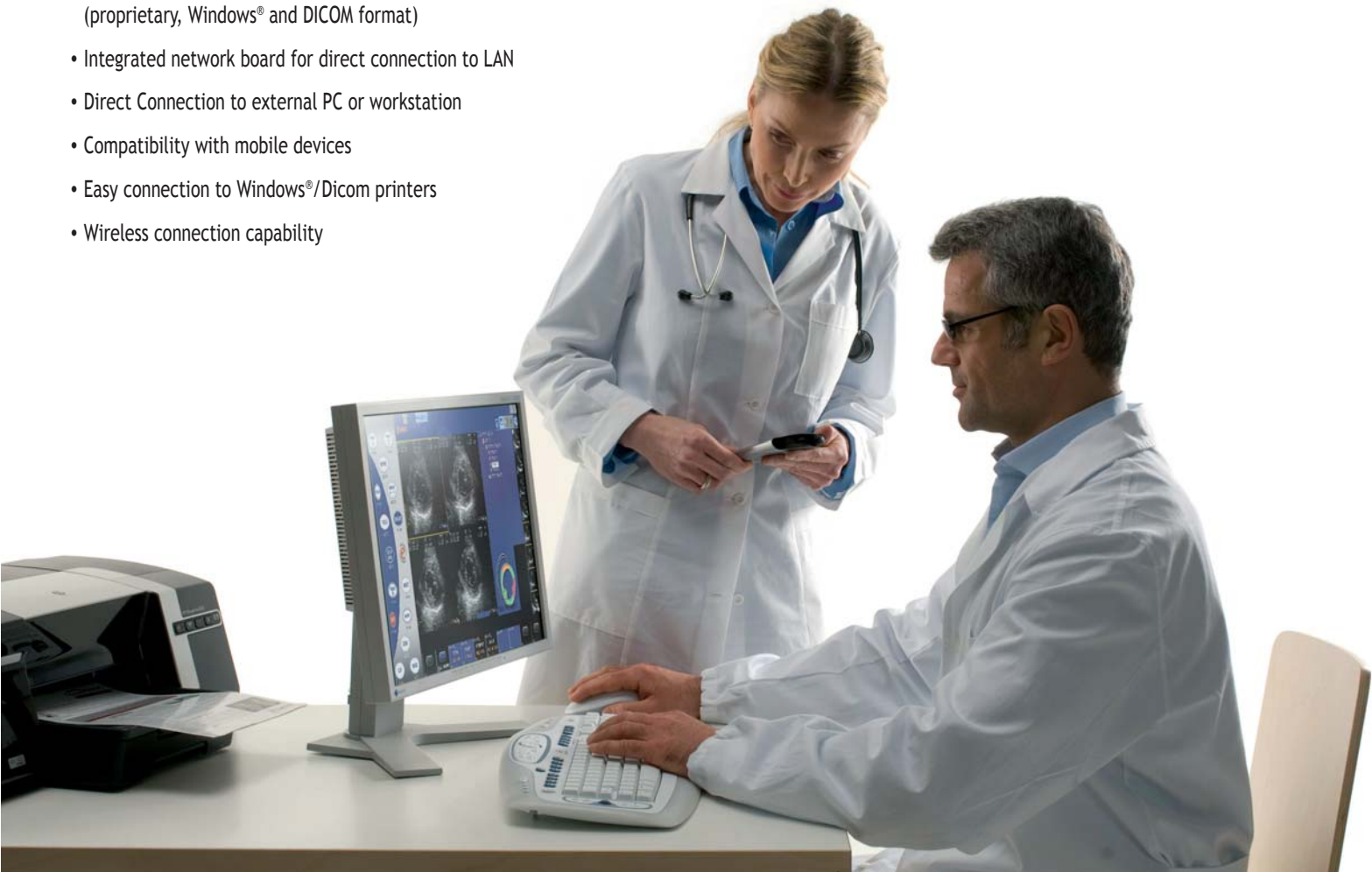
Private offices are anyway evolving, and physicians ask for easy and fast modalities to export, review, report and share clinical data.

MyLab30Gold 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

MyLabDesk

MyLab30Gold 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.



Modular solutions to face more complex architectures

BioPACSTM

BioPACSTM: your personal imaging assistant.

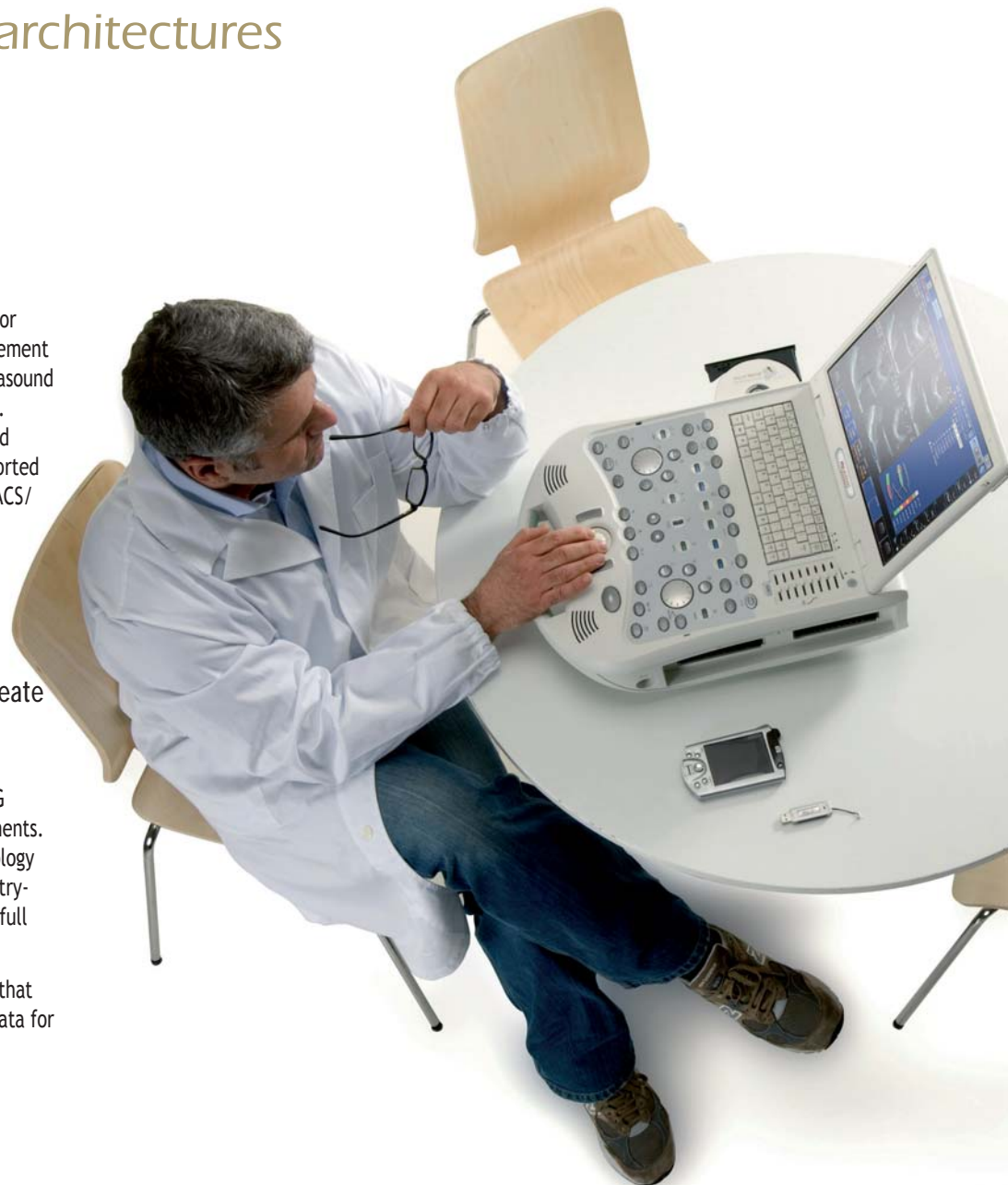
A Single-Server mini-PACS configuration for patient-oriented Ultrasound data management able to manage a limited number of ultrasound diagnostic modalities with DICOM output. Clinical data, acquired from all supported devices, can be archived, reviewed, reported and printed or forwarded to any other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

Org@nizerTM

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.





MyLabTM30Gold

Cardiovascular

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ISO 13485:2003 ISO 9001:2000

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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
esaotemoscow@mtu-net.ru info@esaote.ru

ARGENTINA

Esaote Latinoamérica S.A.
San Martin 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