MyLab™X90

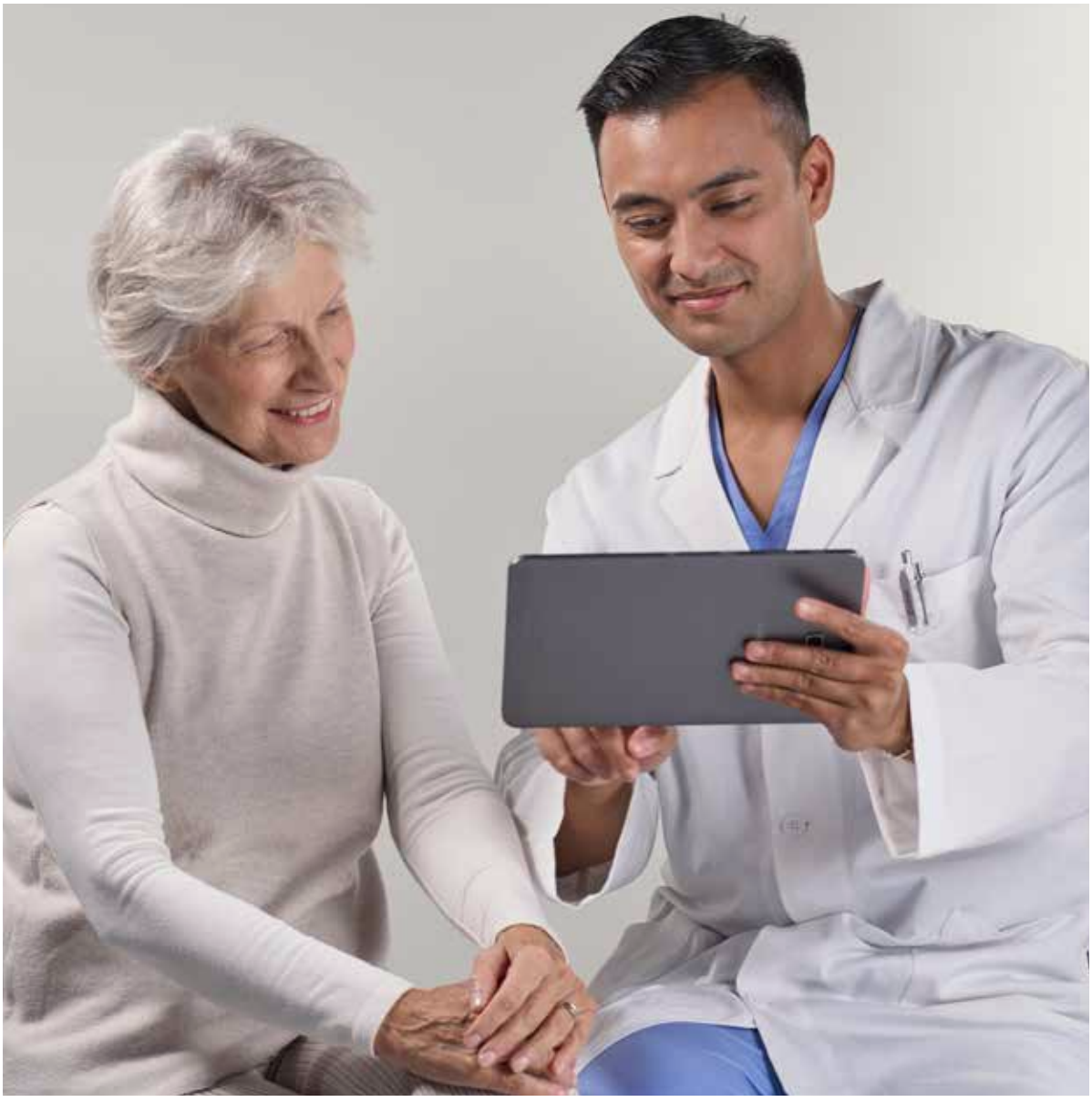
Premium Ultrasound
with Augmented Insight™

esaote
HEALTH WITH CARE

MyLab™X90

Premium Ultrasound with Augmented Insight™

When research is oriented towards the evolution of products and solutions for the continuous improvement of diagnosis in terms of imaging and workflow, when research is focused on expanding technological potential and exploring unexplored horizons, the result is pure innovation.



MyLab™X90

23.8” OPTI-LIGHT BARCO MONITOR

Latest LCD monitor technology to ensure superior detail enhancement.

OPTI-LIGHT

Optimal working environment with integrated lighting capabilities.

ULTRA-WIDE 15.6” TOUCHSCREEN

Ergonomic control with 15.6” touchscreen.

4+1 ACTIVE CONNECTORS

5 transducer connectors for immediate probe switching in fast-paced clinical settings.

3 YEAR WARRANTY

Essential protection to keep your investment running safely.

MyLab™X90

Experience Intelligent Imaging

A simple image can make the difference in treating your patients; Esaote is therefore committed now more than ever to providing you with the ultimate technologies in ultrasound imaging. MyLab™X90 is Esaote's premium ultrasound platform, designed to deliver outstanding image quality and advanced clinical solutions. Bridging the clinical information and an A.I.-driven workflow for the first time, with MyLab™X90, you will experience your first Intelligent Imaging ultrasound device.

ULTIMATE DESIGN

XCRYSTAL TECHNOLOGY

CLEARWAVE ARCHITECTURE

AUGMENTED INSIGHT™

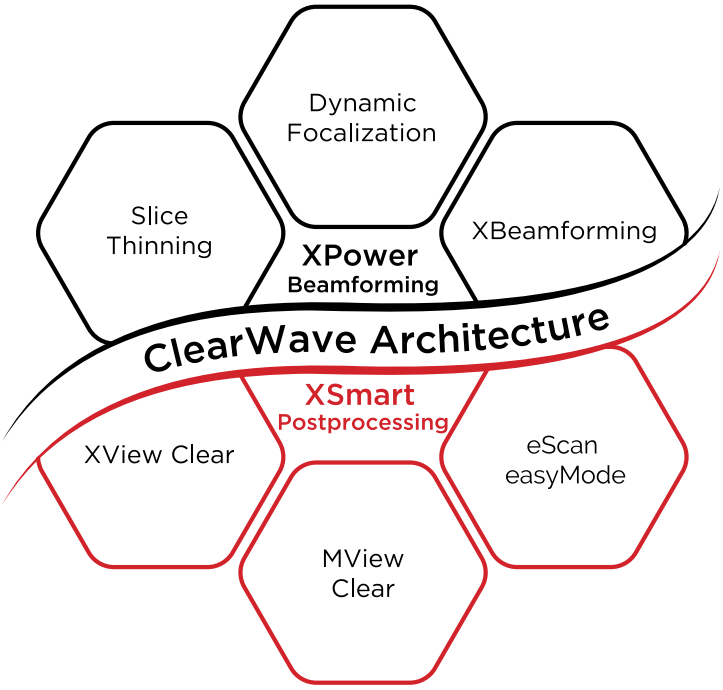
CLINICAL EXPERIENCE

ClearWave Architecture

ClearWave Architecture is the aggregation of the two components in image construction – Esaote's ultimate XPower Beamforming and XSmart Postprocessing technologies – to deliver a new standard in terms of image quality.

Embedding the latest generation of electronics and processors, MyLab™X90 is designed to face the new challenges of imaging stream management and authorizes connectivity with extreme security.

Providing a high level of protection against external threats, Windows®10 enables data transfer, offers peace of mind in compliance with the GDPR and ensures the safety of patient data, while the power of the MyLab™X90 GPU speeds up the transfer rate by up to four times*, facilitating the multimodality approach and the use of live streaming.



* Compared to the previous line

Top-class medical imaging visualization

Collaborating with Barco to equip its premium platform, Esaote demonstrates its product to be of the utmost quality.

MyLab™X90 embeds an exclusive eLed monitor developed by Barco and optimised for this platform.

Dual-Layer LCD technology, the top-class in terms of picture rendering, offers brilliant colors, infinite contrast, fast response rate and viewing angles with higher stability over time.

- 23.8” Full HD High Dynamic Range Monitor
- Dual-Layer technology
- Contrast resolution ratio x 40*
- Higher sensitivity in brightness and color
- Long lifespan and stability

*compared to conventional LCD technology

New workflow gestures

With its extensive touchscreen, MyLab™X90 is setting a new standard for workflow in ultrasound platform management, enabling intuitive real-time control of several parameters such as depth, zoom, sample gate, replay of cineloop or even certain measurements using only your fingers.

Optimal working environment

As a premium platform, MyLab™X90 embeds an exclusive light sensor for automatic optimization of brightness to the scanning environment, while the Opti-Light feature is backlit for real-time lighting, providing invaluable comfort in everyday use, depending on conditions in the scanning room.

Customizable workstation

MyLab™X90 has been designed for all expectations in terms of ergonomics.

Different sizes of probe holders are available to fit the endocavity and convex or linear probes can be placed on two lateral rails.

An integrated gel warmer can be added to the rail with the choice of two temperature settings to improve patient comfort.

The high-quality articulating arm and its friction mechanism offer the option of lifting the monitor easily, keeping it in the optimum position chosen, and locking it during transportation.

XCrystal Technology, micro-slice imaging

Esaote-developed XCrystal technology dramatically increases sensitivity and penetration, to provide sharper images and homogeneity.

Esaote, indeed a benchmark for high-performance probe manufacturing, has designed a new generation of transducers to channel the ClearWave Architecture supported by MyLab™X90, and to deliver top-class resolution imaging. The ergonomic shape designed by Esaote engineering provides true comfort in everyday use.

Conventional probe technology

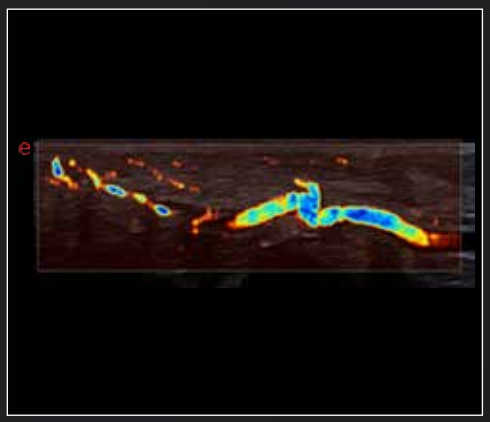
XCrystal
Technology

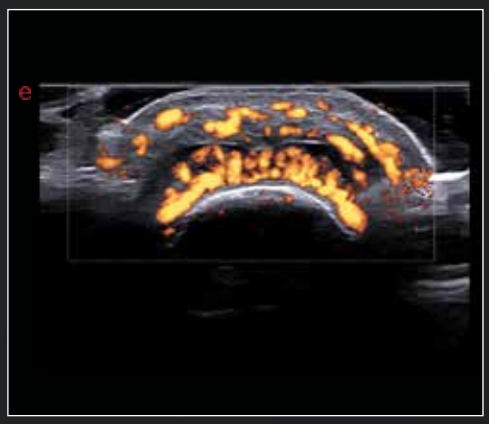
Lens shape
Thermal drain mechanism
HD elements/multi-layer matrix structure

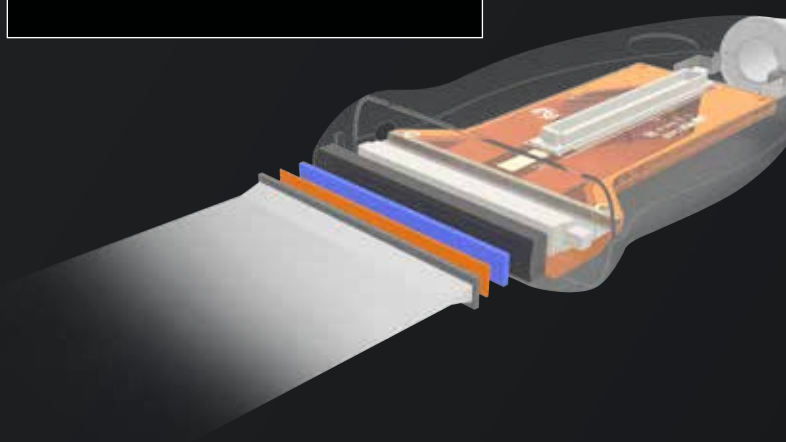
Towards excellence in very superficial imaging

With the offer of two high-frequency probes operating up to 25MHz, MyLab™X90 provides unprecedented clarity, even for the minutest details. Leveraging a genuine technological breakthrough, Esaote's ultimate HD Single Crystal probe, the LMX 4-20, combined with ClearWave Architecture, offers a very wide bandwidth. It can therefore scan extremely superficial areas without compromising deeper regions.

Additionally, our latest hockey stick probe, featuring an outstanding ergonomic design and shape, provides access to the narrowest zones with exceptional sub-millimeter resolution.







Augmented Insight™: Esaote intelligent solutions

Augmented Insight™ embeds all the solutions powered by Artificial Intelligence, developed by the Research & Development department at Esaote according to a multidisciplinary approach, across different modalities such as Ultrasound, MRI and Ebit.

Based on data-driven machine learning, Augmented Insight™ is designed to simplify the workflow in repetitive gestures, complex procedures and to support measurements or lesions analysis.

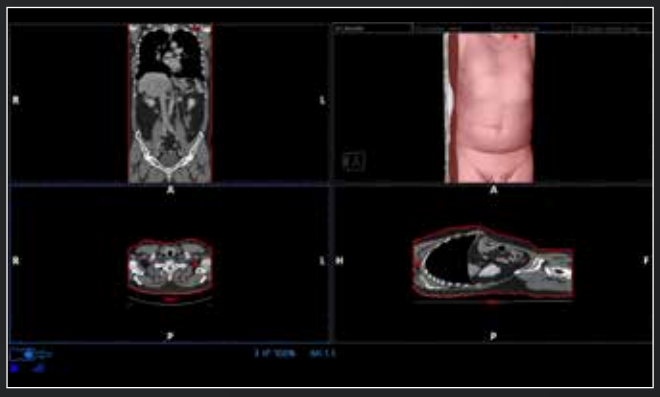
Breast

Breast Mass Analyser (BMA) and eDetect technologies assist you in easily segmenting and reliably evaluating suspected areas in the breast using BI-RADS® scoring. Meanwhile, the exclusive BreastNav™ MRI technology enables automatic segmentation of breast MRI and real-time fusion based on an adaptive 3D model.

Thyroid

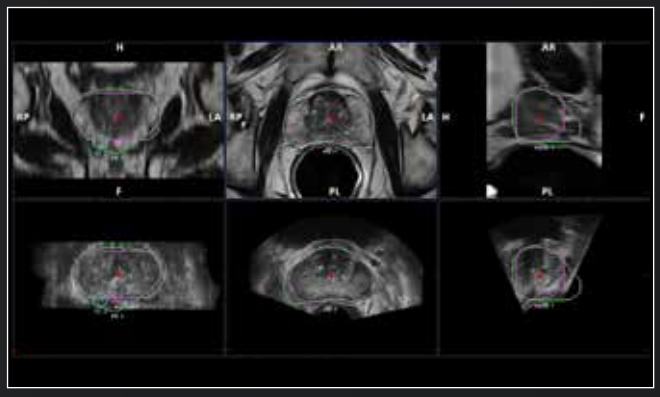
MyLab™X90 proposes automatic contouring and cross-dimensions of thyroid masses in suspicious areas (ROI) that have been flagged up.

Abdominal



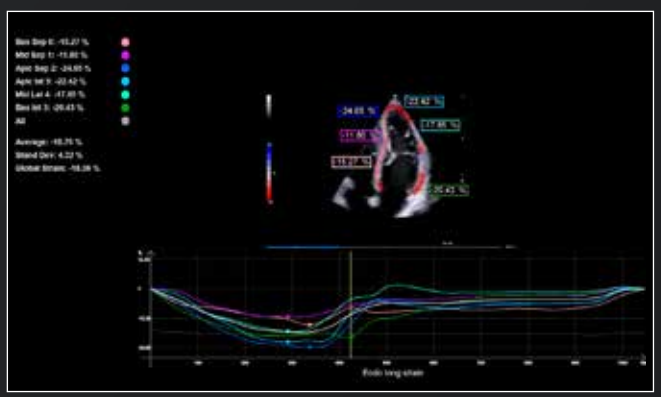
MyLab™X90 is equipped with LiverFusion technology to enable easy fusion imaging and support interventional procedures. The A.I.-powered automatic segmentation of the skin profile, combined with a 3D camera, makes abdomen registration even faster.

Urology



MyLab™X90 integrates UroFusion technology, Esaote's advanced A.I.-driven workflow solution to set new standards for prostate navigation. This technology simplifies procedures and boosts confidence through ultrasound and MRI prostate segmentation with automatic registration of both modalities.

Cardiology

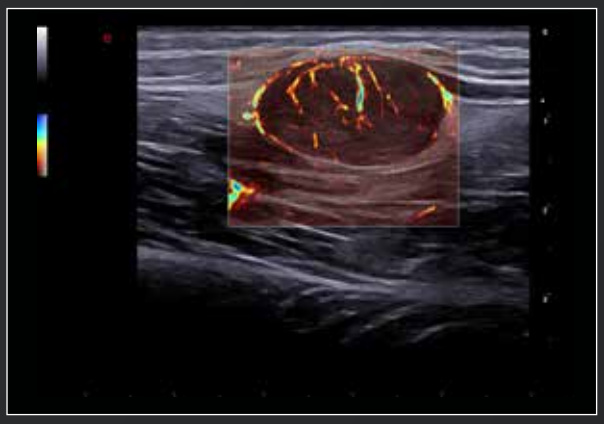


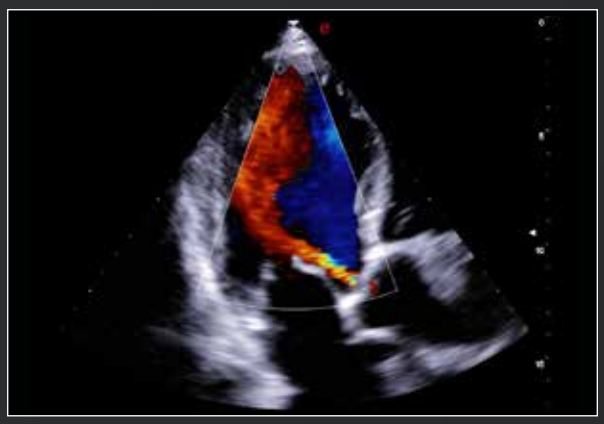
MyLab™X90 offers an extensive package of A.I.-driven automatic measurements to streamline workflow. Both the AutoEF and AutoCM features facilitate the assessment of standard left ventricle measurements in B and PW modes. Additionally, XStrain™ provides zero-click detection of endocardial border profiles in the LV, delivering comprehensive information on LV strain, including GLS.

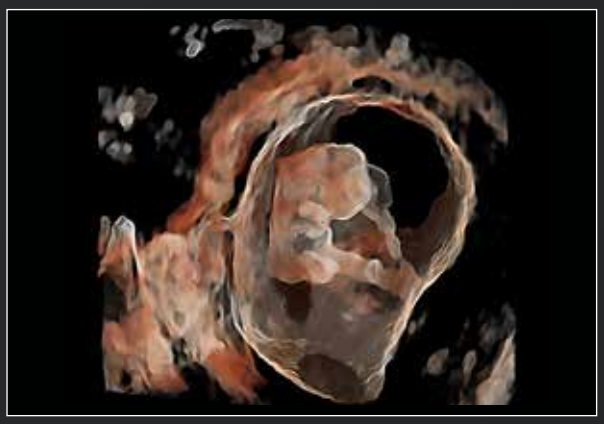
Obstetrics

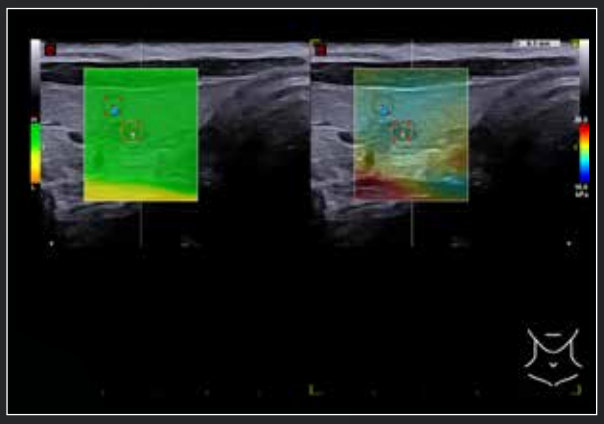
To enhance workflow in Women's Health applications, MyLab™X90 introduces AutoOB, integrating A.I. into primary fetal biometric measurements. The smart Auto scanplane feature, which automatically recognizes planes, further streamlines your workflow when combined with AutoOB, while allowing you to approve, correct, or perform manual adjustments.

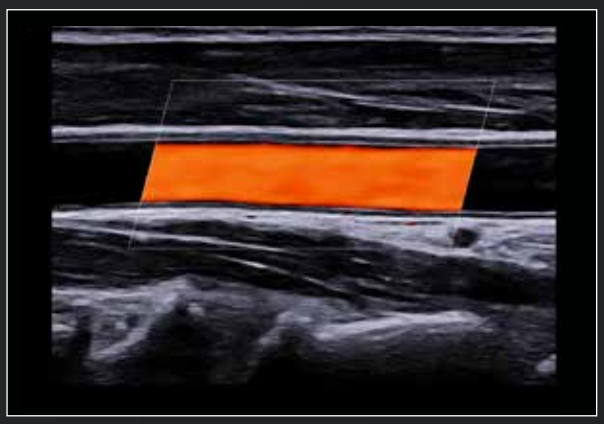
MyLab™X90 in Action

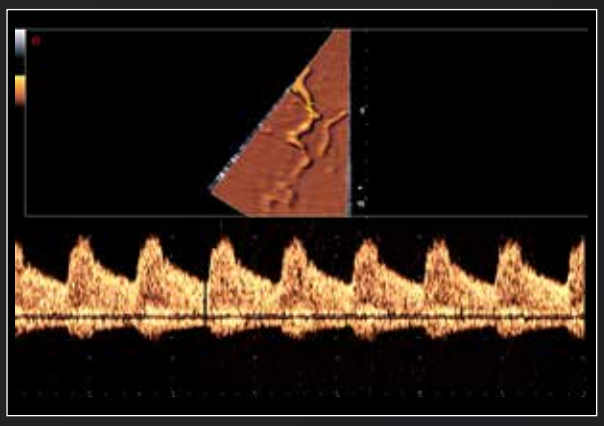






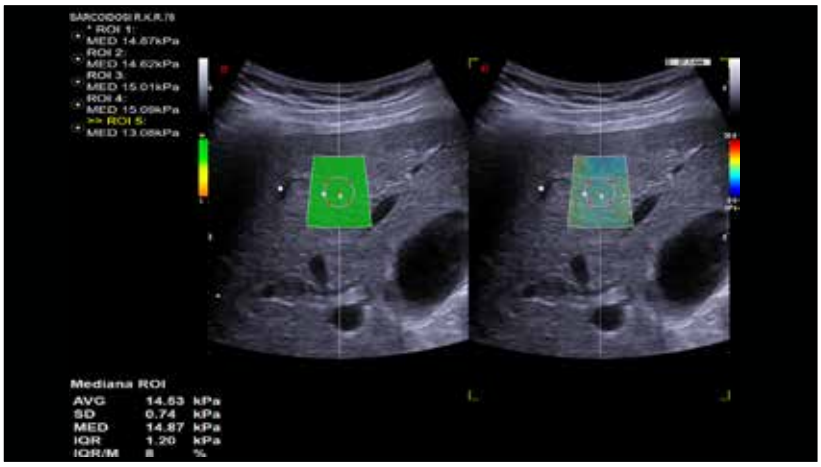


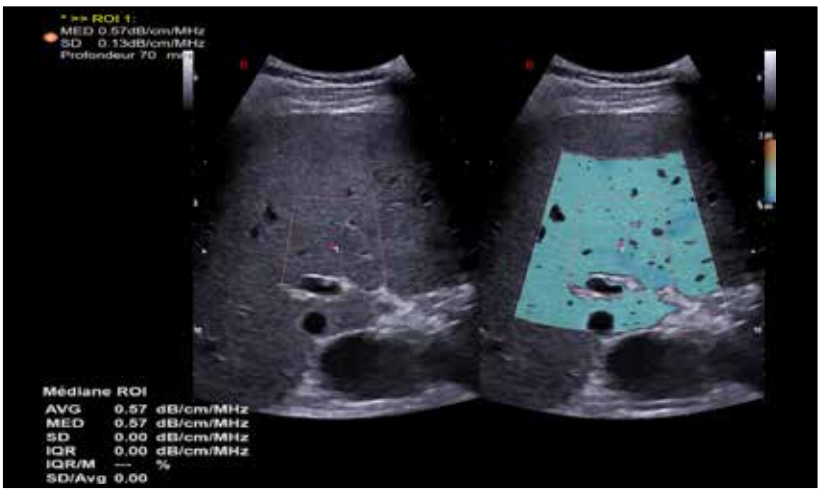


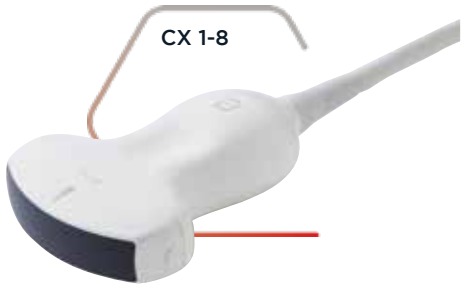


Diffuse liver disease assessment

MyLab™X90 offers a comprehensive multiparametric package for diffuse liver disease assessment. Esaote's QAI (Quantification Attenuation Imaging) technology provides mapping and quantification of attenuation along the liver depth, to evaluate hepatic steatosis. It complements the stiffness evaluation provided by QElaXto 2D, sophisticated Esaote shearwave elastosonography software with adjustable rejection tool and dispersion map visualization. Data are automatically summarized in a multiparametric report with clear graphical representations to support diagnosis and facilitate follow-up.







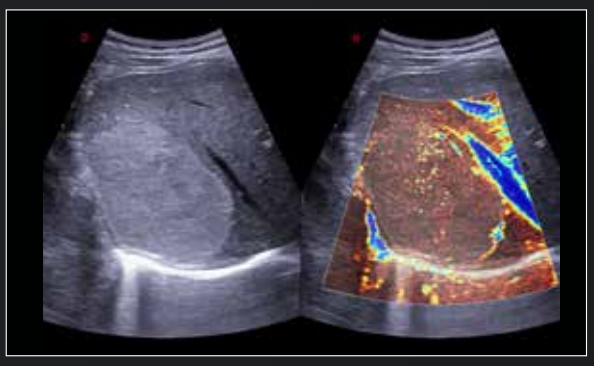
Early detection to therapy for liver lesions

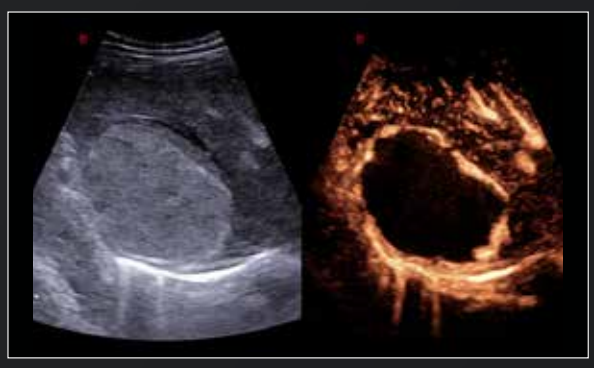
To leverage the detection and characterization of suspect lesions, Esaote's Liver Package supports homogeneous first-class-quality images through a wide selection of probes, enhancing details with sharpness and clarity even in challenging patients, while the evolution of microV technology takes advantage of its sensitivity with a higher frame rate and provides an outstanding visualization of the lowest flows.

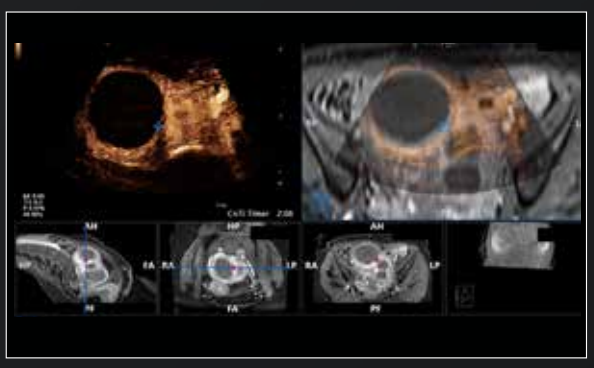
MyLab™X90 offers a panel of advanced tools for deeper examinations, to provide you with further information on complex clinical cases.

CnTI™ Clear, the latest implementation of Esaote's Contrast Enhanced Ultrasound technology, increases performance via considerable persistence of contrast media and improves coverage of the deepest areas with information for liver tissue microperfusion.

Supporting interventional procedures, Virtual Navigator enables easy fusion imaging through an ultra-simplified workflow. It includes advanced tools such as breathing and movement compensation, as well as needle tracking. Esaote's innovative and exclusive AI-driven AutoSync function enables automatic synchronization using 3D camera registration.







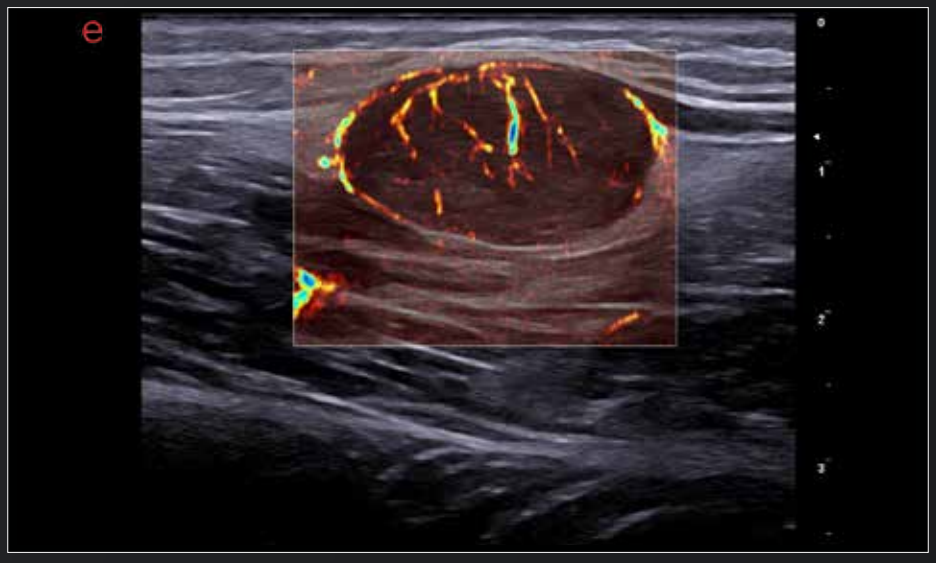
Detail imaging as a new benchmark in musculoskeletal imaging

As an historic specialist in high-frequency probe manufacturing, Esaote offers a broad portfolio of transducers to cover various clinical needs in superficial examinations.

Thanks to XCrystal array technology, MyLab™X90 provides an unparalleled level of detail imaging, from the ultra-near-field to deeper areas.

No limits to the visualization of microvascularization

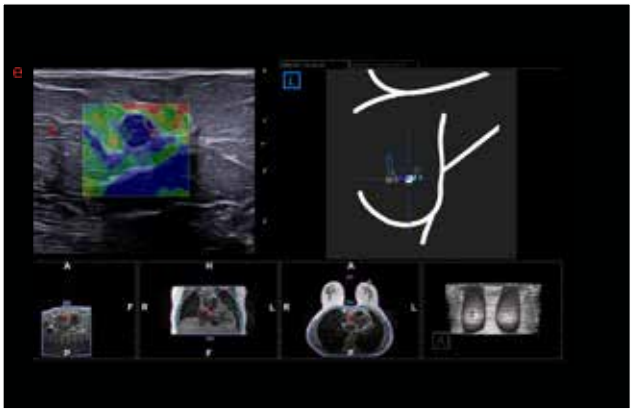
Esaote pushes the limits of microvascularization imaging one step further, with the latest implementation of microV technology to detect the minutest flow, bringing precious clinical value in the early detection, diagnosis and follow-up of musculoskeletal injuries or lesions characterization.



Early detection in breast imaging, supported by A.I. solutions

Driven by Artificial Intelligence, Esaote's breast ultrasound imaging solutions open new horizons in early detection and second-look examinations.

The Breast Interactive Workflow (BIW) features a dedicated touchscreen menu that provides a smart dashboard with all the information related to suspicious areas, and includes eDetect and BMA functions. These two technologies, both powered by A.I., increase the speed and consistency of lesion segmentation, offering reliable evaluation of suspected areas.



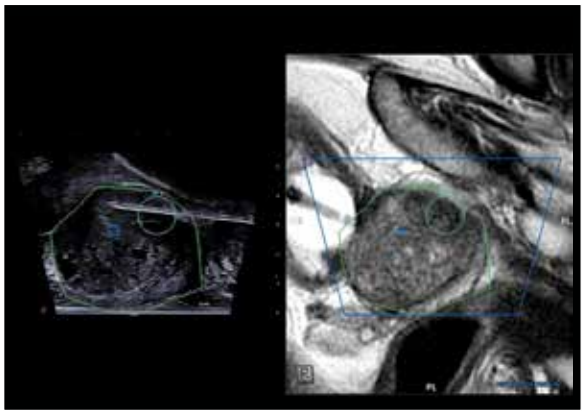
Additionally, BreastNav™ and BreastNav™ MRI provide a comprehensive breast imaging package for a multimodality approach. Specifically, BreastNav™ MRI enables fusion imaging based on a 3D model, combining prone MRI dataset and real-time supine ultrasound, with A.I. providing automatic support for MRI breast segmentation.

New standards in urology supported by A.I. workflow

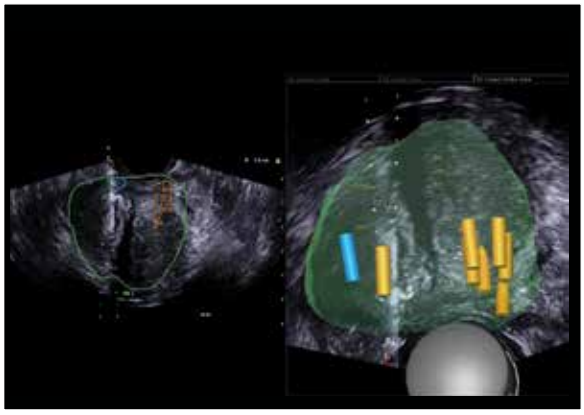
Esaote provides a comprehensive package of dedicated tools to meet all your urology needs, whether in screening or interventional phases.

MyLab™X90 integrates UroFusion, Esaote's advanced A.I.-driven workflow solution for prostate navigation. Simplifying fusion like never before, UroFusion enables automatic segmentation of both ultrasound (US) and MRI prostate datasets, offering automatic registration to facilitate procedures and boost your confidence. UroFusion, compatible with both transperineal and transrectal approaches, allows the combination of multiple series to easily identify targets and works with advanced modalities, including sample mapping, microV, CnTI™, and QElaXto 2D.

With stepper compatibility, the MyLab™X90 is an expert solution for supporting your biopsy or focal treatment procedures.



TLC 3-13



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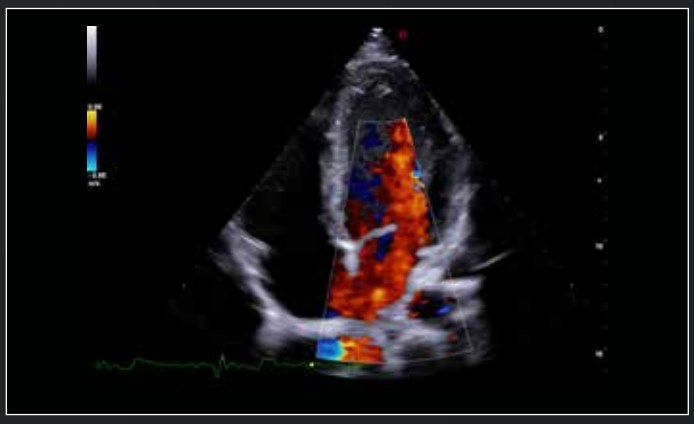
Comprehensive offer in cardiovascular and women's health applications

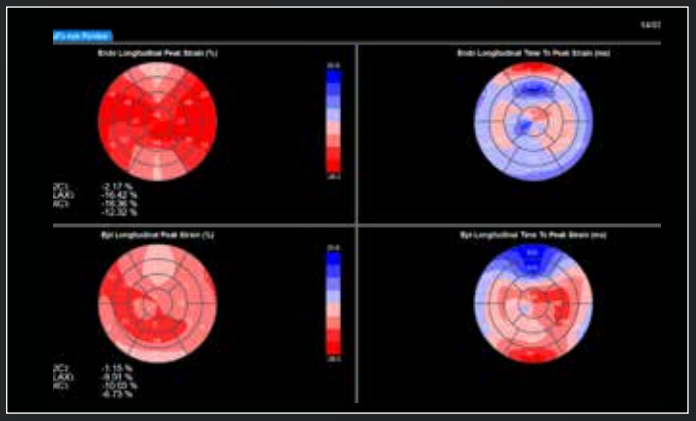
MyLab™X90 offers a comprehensive 360° shared-service solution, integrating A.I.-powered workflow enhancements in cardiovascular and women's health applications to accelerate standard measurements.

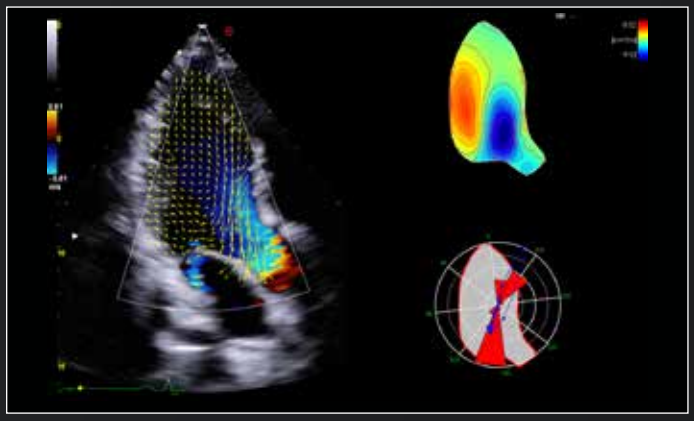
It comes equipped with a full suite of zero-click tools designed to streamline the quantification of cardiovascular functions, including AutoEF, AutoCM, XStrain™, HyperDoppler, QIMT, and QAS.

XStrain™ and HyperDoppler tools enable advanced cardiac function analysis. XStrain™ allows for detailed exploration of strain in the left ventricle (LV), right ventricle (RV), and left atrium (LA). Meanwhile, HyperDoppler provides visualization of intracardiac vortices, offering deeper insights into cardiac dynamics.

In addition to cardiac function analysis, MyLab™X90 offers a comprehensive solution for advanced examinations in obstetrics and gynecology. It embeds 3D flow representation, via BrightFlow technology and an A.I.-powered automatic plane recognition algorithm, combined with the AutoOB package to facilitate the workflow in fetal biometric measurements. For advanced examinations, MyLab™X90 offers a complete solution in 3D/4D, for both obstetrics and gynecology, to provide volumetric representations.




Endo Longitudinal Peak Strain (%)
Endo Longitudinal Time To Peak Strain (ms)
Epi Longitudinal Peak Strain (%)
Epi Longitudinal Time To Peak Strain (ms)

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Ventr L — mm
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GA 32S6G RG % 18.3
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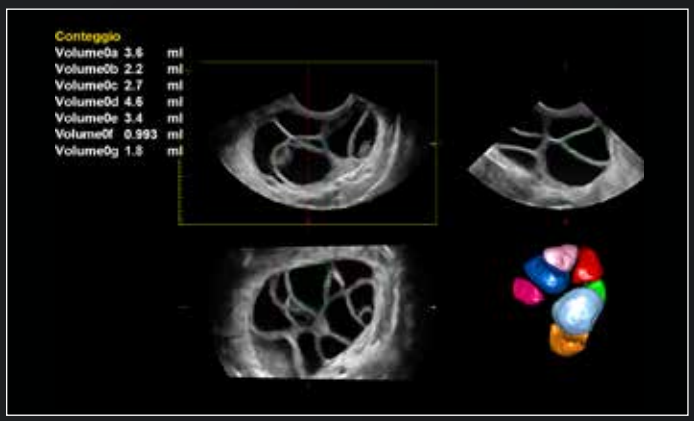
Conteggio
Volume0a 3.6 ml
Volume0b 2.2 ml
Volume0c 2.7 ml
Volume0d 4.6 ml
Volume0e 3.4 ml
Volume0f 0.993 ml
Volume0g 1.8 ml

Versatile connectivity

Supported by a powerful architecture and high-tech components, MyLab™X90 embraces the new trends in term of medical data streams with a complete offer of connectivity tools, such as MyLab™Desk, MyLabRemote and eStreaming.

The DICOM multimodality license enables a side-by-side display of any other DICOM dataset with real-time ultrasound scanning, which also opens up the cross-modality approach to perform navigation procedures with fluidity and speed courtesy of the high-capacity SSD and RAM.

eStreaming, for secure sharing of live scans

Either for education purposes such as collaborative and application and training sessions, eStreaming technology offers real-time streaming of ultrasound, together with picture-in-picture camera on your tablet, phone or laptop.

Customer Care

3-YEAR SERVICE COVERAGE

REMOTE TECHNICAL SUPPORT

PROBE COVERAGE

Conditions for service coverage may vary depending on your country.

esaote

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Esaote S.p.A. - sole-shareholder company

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