Improved imaging in difficult to scan patients
Major technical improvements provided by CrystaLine include the CPI Technology to increase depth of field, improving the imaging of deep structures in difficult-to-scan individuals.

Adjustable imaging by the operator
The new XView+ speckle reduction technology which can be adjusted by the operator is now available with CrystaLine. It produces an optimal personalized image for every single clinician in a wide range of applications.

Increased Diagnostic Confidence
CrystaLine demonstrates extended configuration features, giving the physician the possibility to best perform in advanced procedures. It incorporates innovative solutions that now enable clinicians to confidently use ultrasound in several examinations.

Optimised Workflow
CrystaLine is aiming on reduced examination time and better workflow by means of a wide range of automatic process functions for Imaging, Doppler, Post-Processing, Measurements, Archiving and Connectivity.
eHD is the Esaote technology to innovate ultrasound imaging and improve the systems’ use. It represents our attention to the diagnostic value, optimizing all the aspects of the chain a signal has to travel through, starting from the echo generated by the patient’s body up to the arrival on the system’s monitor. It maximizes the efficiency of ultrasound scanning, leaving the sonographer free to concentrate on the patient.

The quality that improves your diagnostic confidence.
Advanced technologies

- **Latest Innovations**
- **Diagnostic Confidence**
- **Optimized workflow**

**Imaging Processing**
Esaote offers many technologies for imaging enhancement. With TEI the harmonic signal is fully preserved without degradation of the acoustic information. MView and XView improve the quality of the ultrasound images by reducing the presence of artifacts, shadowing and speckle.

**Raw data post-processing**
It allows the post-processing of images and video clips previously acquired and saved into the archive. This feature is very helpful in the clinical workflow and provides the physicians with image optimization and precise measurement even in the off-line stage. As a result, Raw data management brings to users’ comfort as well as improved productivity and clinical outcomes.

**XFlow Doppler**
**Extraordinary flow sensitivity and spatial resolution**
XFlow provides direct visualization of blood echoes, extending the wideband resolution, high frame rates and wide dynamic range of blood flow. The result is unbelievable spatial, temporal and contrast resolution in blood-flow display, which improves diagnostic confidence in the evaluation of complex hemodynamics, permits earlier detection of peripheral vascular disease, and providing more clinical information than other imaging modalities.

**CnTI™ Contrast Tuned Imaging**
Esaote’s proprietary CnTI™ (Contrast Tuned Imaging) provides high performance contrast enhanced ultrasound imaging with second-generation contrast media. Intermittent and real-time low-MI modalities give optimal results in left ventricle opacification (LVO) and myocardial perfusion analysis, both in rest and stress examinations.

**elaXto**
**Further step towards tissue characterization**
Non-invasive method to support the physician in assessing tissue elasticity. The differences in tissue responses are detected and visualized in real-time by the elaXto processing algorithms through different graphical representations.
The transducer is the first element which connects with the patient's body. It delivers the ultrasound beam and receives the backscattered echo; its technology is extremely important to obtain a high signal to noise ratio, a sharp signal to optimize.

Virtual Biopsy
Advanced Biopsy also in very difficult approaches
The Virtual Biopsy allows to follow percutaneous procedure superimposing the needle tracking information on the real-time ultrasound image. The main advantage is to get evidence of needle path in order to choose the suitable trajectory and assess the needle position once it is in the patient body. Virtual Biopsy makes possible to perform percutaneous procedure also in very difficult-to-approach body districts (e.g. lung biopsies) or cases (e.g. low echogenic or fatty patient).

Fusion Imaging
All the benefits of different modalities in the same exam
Fusion imaging applied to US enhances the information produced by an Ultrasound Scanner thanks to the combination with a second imaging modality (CT, MR, PET or 3D US) in real-time. Virtual Navigator is Esaote’s technology that supports Fusion Imaging in order to increase accuracy, gain confidence, propose a different point of view in evaluating the second modality, support in difficult-to-scan patients and reduce procedure time.

Innovation and Accuracy in Vascular Imaging
The measurements that are based on beyond state of the art RF-data technology, are real-time, accurate and provide measurement quality indicators overlaid on the B-mode ultrasound image. It makes it possible to measure automatically and accurately the positions of the anterior and posterior blood vessel wall, providing blood vessel wall diameter, change in diameter and blood vessel wall thickness of an artery as a continuous function of time.
Exclusive Premium Performance

- ElaXto Dual - Liver
- CNTI™
- TEI™ HD Zoom
- CPI - Liver BMI 52
- XLight
- TEI™ XView
- Automatic VRA
- X3D TPI
- HD CFM
The unique MyLab™Twice concept allows physicians to seamlessly integrate results from point-of-care exam with imaging from the standard workflow. The MyLab™One point-of-care unit moves to wherever it is needed, for faster diagnosis and improved patient care.

The integration of all clinical information will surely provide an improved workflow, providing better and safer diagnostic services.

**MyLabTwice**
- Efficiency and Productivity
- Integrated Patient Management
- Improved workflow
and Point-of-Care Ultrasound

MyLabOne
- Intuitive touch screen
- Fast
- Built-in Transducer Controls

Radiology (Breast, MSK)
Surgical
Emergency Medicine, Interventional Radiology

Internal Medicine, Gastroenterology Oncology

Rheumatology Endocrinology

Ob/Gyn Urology

Cardiology Anaesthesiology Critical Care/ICU

Vascular Pediatrics

Internal Medicine, Gastroenterology Oncology

Rheumatology Endocrinology

Ob/Gyn Urology

Cardiology Anaesthesiology Critical Care/ICU

Vascular Pediatrics
Ergonomics and Comfort in daily practice

- Intuitive interface
- High-quality touch screen
- Full ergonomics
- Compact system

**Opti-Light**
Optimal lighting has always been a crucial factor for ultrasound imaging. The latest Technology of wide LCD 19" monitor allows images to be clearly visualized in any situation. In addition, MyLabTwice introduces a further and unique feature: Opti-Light, the possibility to control the lighting room level directly from the touch screen. Once again, one step ahead in users’ comfort and patient care.
Easy Networking for integrated Patient Management

- Wireless technology
- Easy connectivity
- Data integration
- Accurate Patient Management

The new app to visualize images and videos on mobile devices

Mylab App
MyLabTwice
Two ways to be Unique

WITH
eHD Technology
CrystaLine

Technology and features are system/configuration dependent. CnTI™: The use of Contrast Agents in the USA is limited by FDA to the left ventricle opacification and to characterization of focal liver lesions. MyLab™Desk SW only viewer is not intended or provided for an official diagnostic interpretation. Specifications subject to change without notice. Information might refer to products or modalities not yet approved in all countries. Product images are for illustrative purposes only. For further details, please contact your Esaote sales representative.