

PRODUKTINFORMATIONEN

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4  m e d i c TM

Productivity
& Simplicity

Premium Performance
Portable Ultrasound

Ergonomics

Connectivity

Top Performance in Action

Alpha

WITH
eHD
Technology

"Never confuse movement with action"
Ernest Hemingway



MyLabAlpha
Cardiovascular

Premium Performance Portable Ultrasound



Productivity
& Simplicity

Premium Performance
Portable Ultrasound

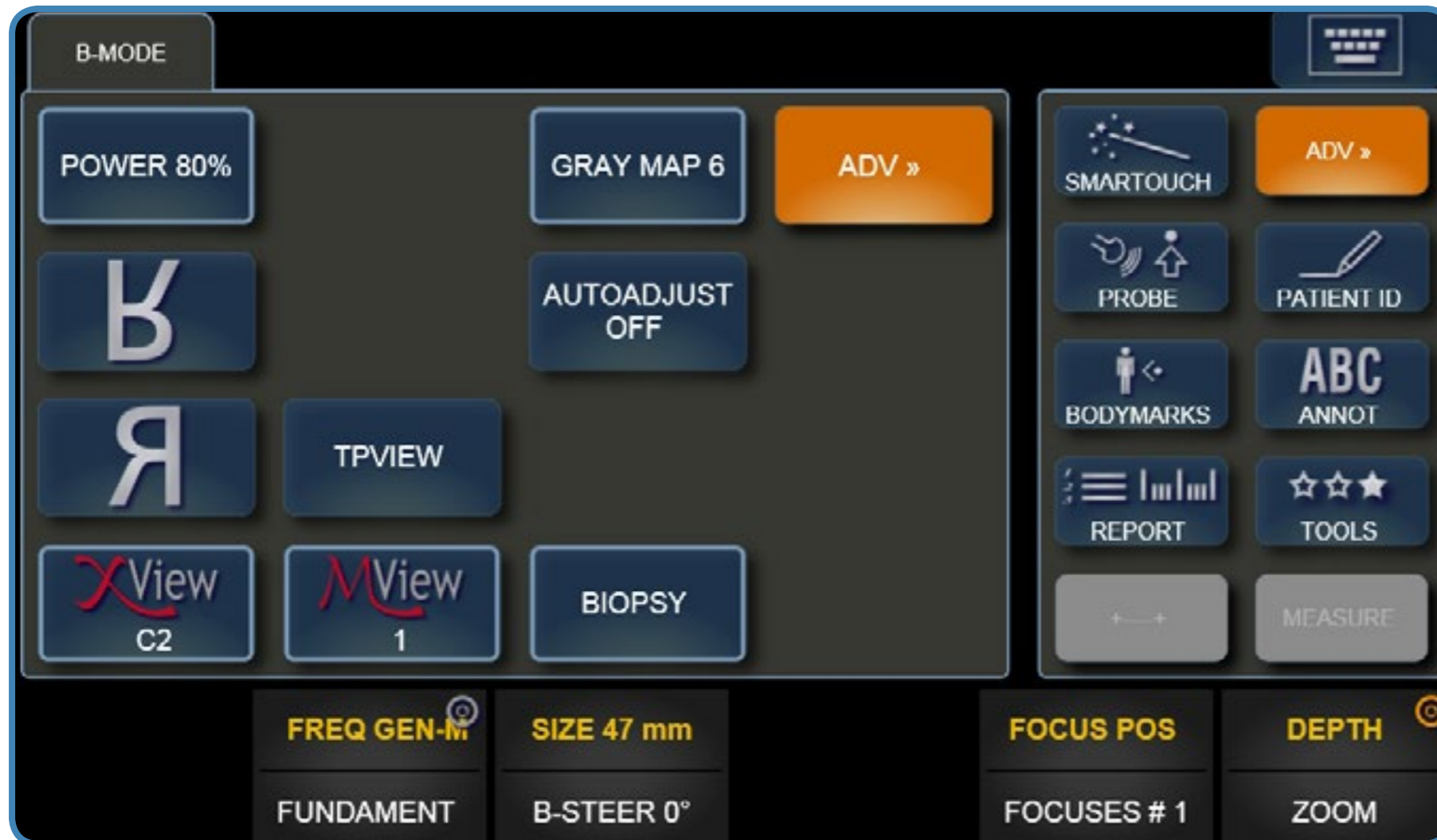
Ergonomics

Connectivity

Alpha 

High definition touch screen

The 8.9 inches high definition touch screen allows the user to easily reach the different functionalities and parameters. The MyLabAlpha is the only high end portable ultrasound system with an HD Colour touch screen that enhances the user friendliness and the productivity.



Basic area



Advanced area

 Click to enlarge

Productivity & Simplicity

High definition touch screen

Simple workflow

SmarTouch

E-Touch

ADM (Automatic doppler measurements)

Auto adjust

Custom settings

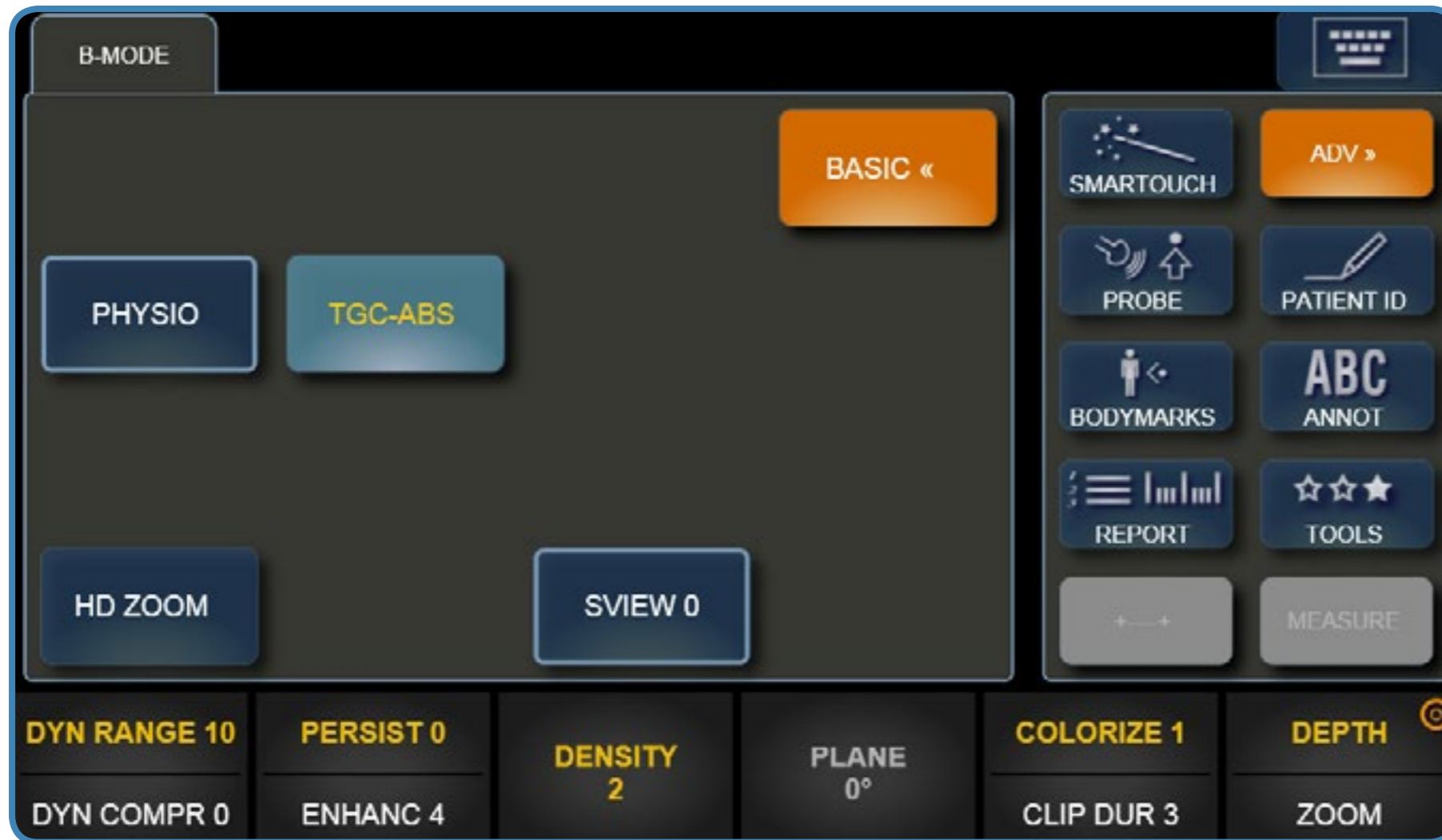
Premium Performance Portable Ultrasound

Ergonomics

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Advanced area



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Premium Performance Portable Ultrasound

Ergonomics

Connectivity

Simple workflow

The intelligent software and large sized touch-screen allow unique features to be delivered with MyLabAlpha.

The Productivity-Oriented Platform is the core of the architecture: easy access, customized settings and functions, standardized clinical protocols and immediate settings.

Simple user interface with less physical keys



Productivity & Simplicity

High definition touch screen

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SmarTouch

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Auto adjust

Custom settings

Premium Performance Portable Ultrasound

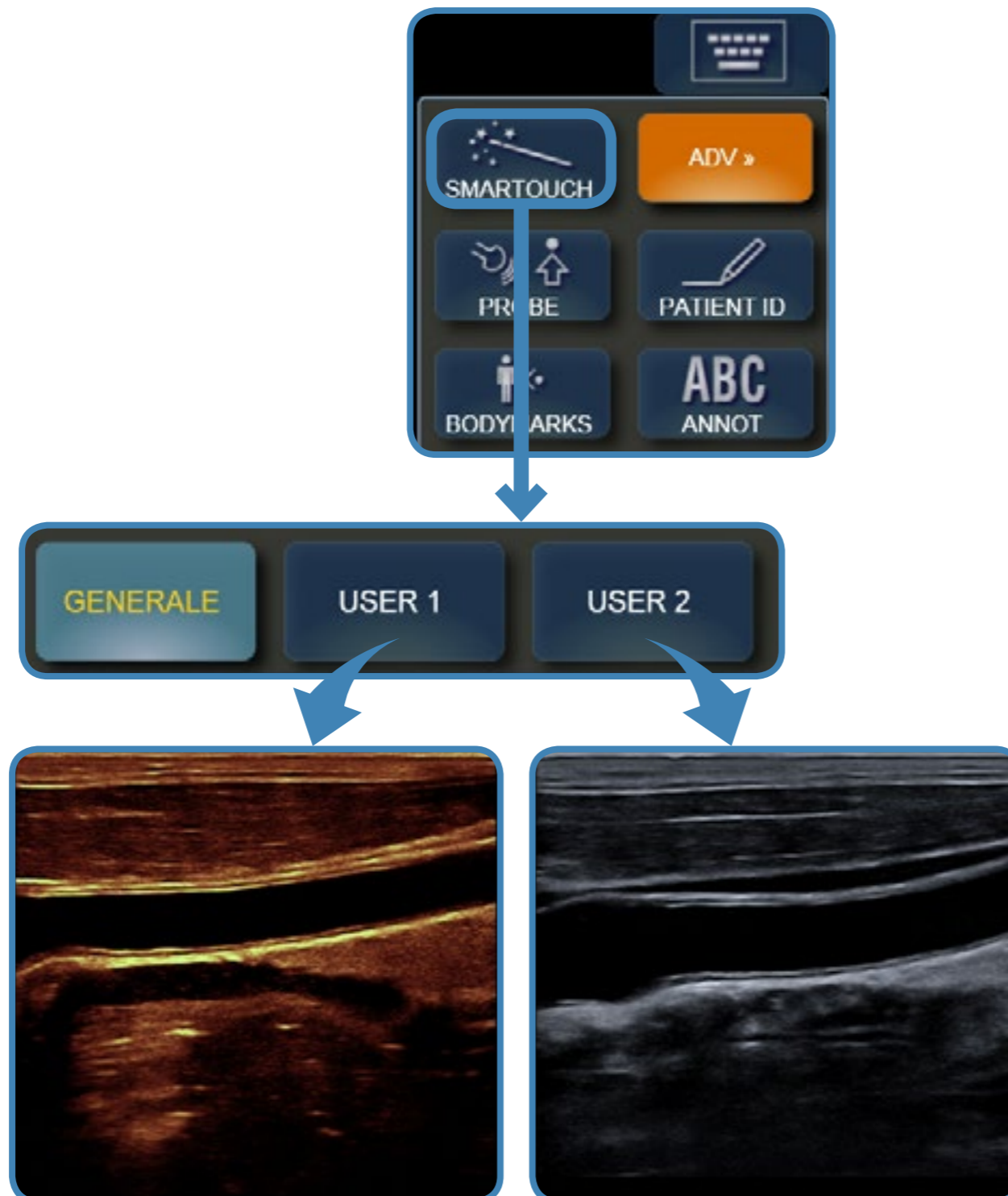
Ergonomics

Connectivity

SmarTouch

Wide ranging image settings, user preferences and clinical targets, normally require time and attention.

SmarTouch delivers dedicated settings for any anatomical district. Optimal images are displayed with just one touch.



Productivity & Simplicity

High definition touch screen

Simple workflow

SmarTouch

E-Touch

ADM (Automatic doppler measurements)

Auto adjust

Custom settings

Premium Performance Portable Ultrasound

Ergonomics

Connectivity

E-Touch

The eTouch represents a completely new concept among the ultrasound systems user interface management. It represents a new way to create a personal workflow in order to have the desired sequences of buttons/controls condensed in a single touch.

The MyLabAlpha ultrasound system allows the user to record sequences of key mixing functions of the touch screen and of the control panel.



Productivity & Simplicity

High definition touch screen

Simple workflow

SmarTouch

E-Touch

ADM (Automatic doppler measurements)

Auto adjust

Custom settings

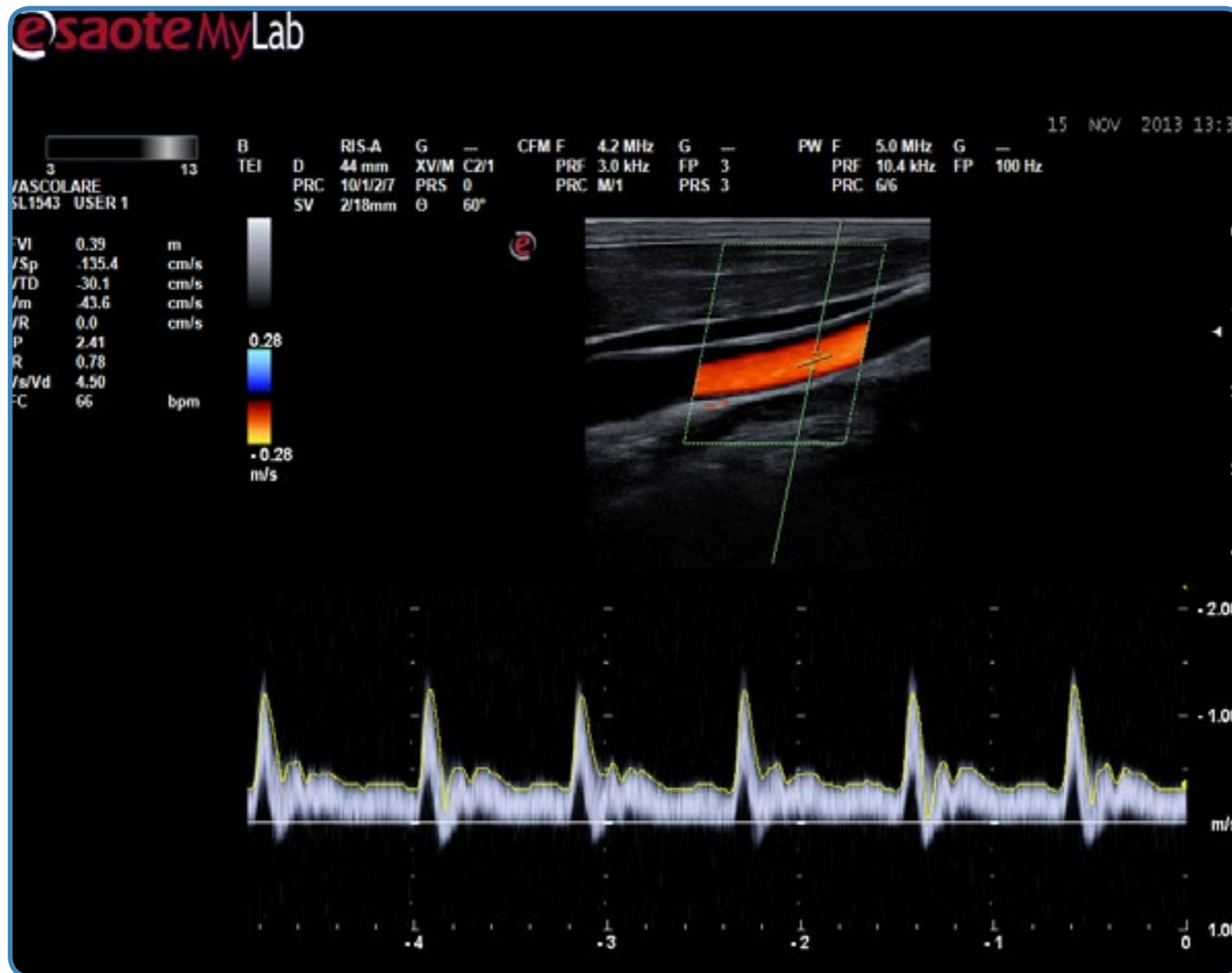
Premium Performance Portable Ultrasound

Ergonomics

Connectivity

ADM (Automatic doppler measurements)

ADM allows to calculate the most important parameters in a doppler trace automatically, in real-time or in freeze. By just pressing ADM virtual button in the touch screen the system will trace the flow profile automatically, and then it can be sent to the report.



Productivity & Simplicity

High definition touch screen

Simple workflow

SmarTouch

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ADM (Automatic doppler measurements)

Auto adjust

Custom settings

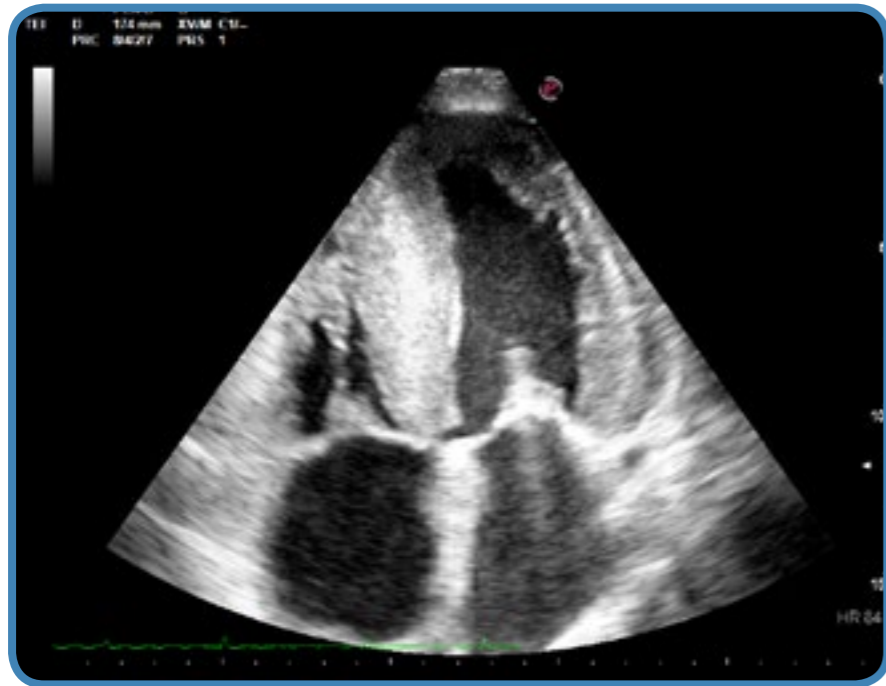
Premium Performance Portable Ultrasound

Ergonomics

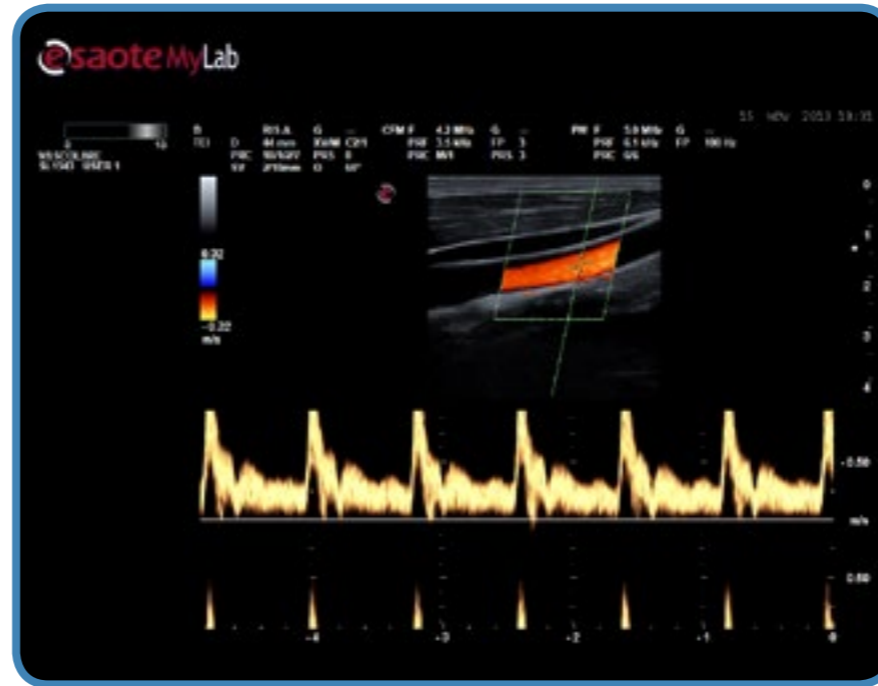
Connectivity


Auto adjust

Helps to improve the equalization of the gray distribution or the doppler trace scale and baseline with a click.



Before Auto adjust



 Click to Auto adjust

Productivity & Simplicity

High definition touch screen

Simple workflow

SmarTouch

E-Touch

ADM (Automatic doppler measurements)

Auto adjust

Custom settings

Premium Performance Portable Ultrasound

Ergonomics

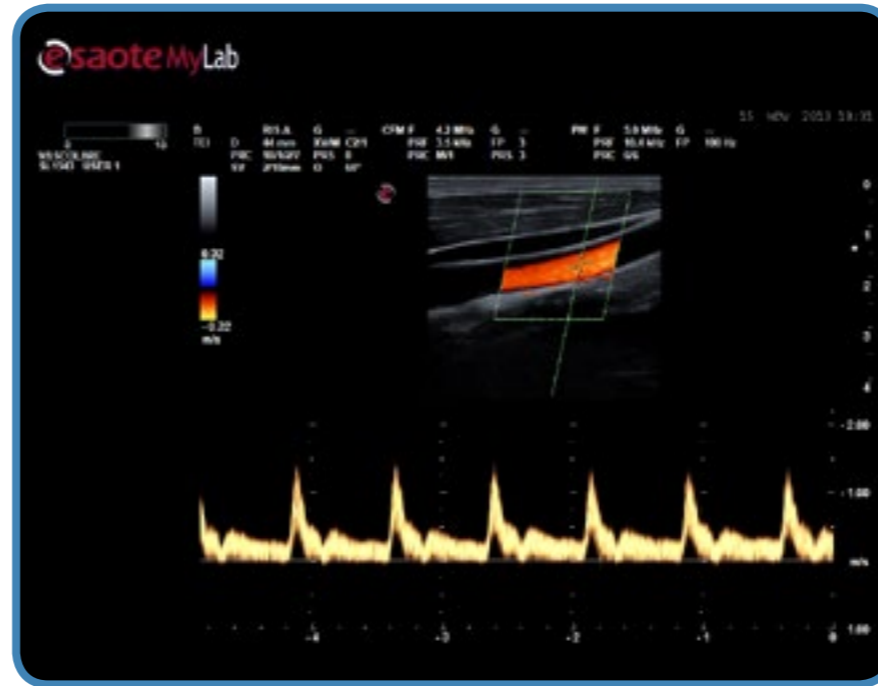
Connectivity


Auto adjust

Helps to improve the equalization of the gray distribution or the doppler trace scale and baseline with a click.



After Auto adjust



 Click to go back

Productivity & Simplicity

High definition touch screen

Simple workflow

SmarTouch

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Auto adjust

Custom settings

Premium Performance Portable Ultrasound

Ergonomics

Connectivity

Custom settings

Part of the MyLab™ P.O.P. platform concept is the ability to entirely customize the each user protocol, including the image settings, measurements, annotations, body marks, and even the position of the virtual buttons in the touch screen.



Customization menu

Productivity & Simplicity

High definition touch screen

Simple workflow

SmarTouch

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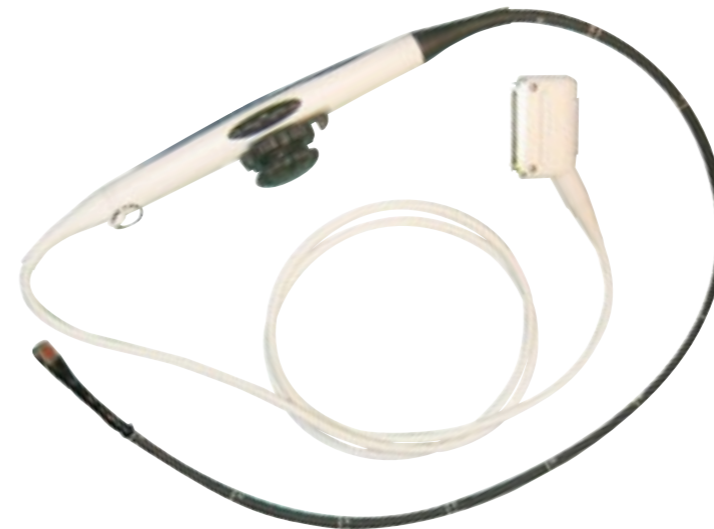
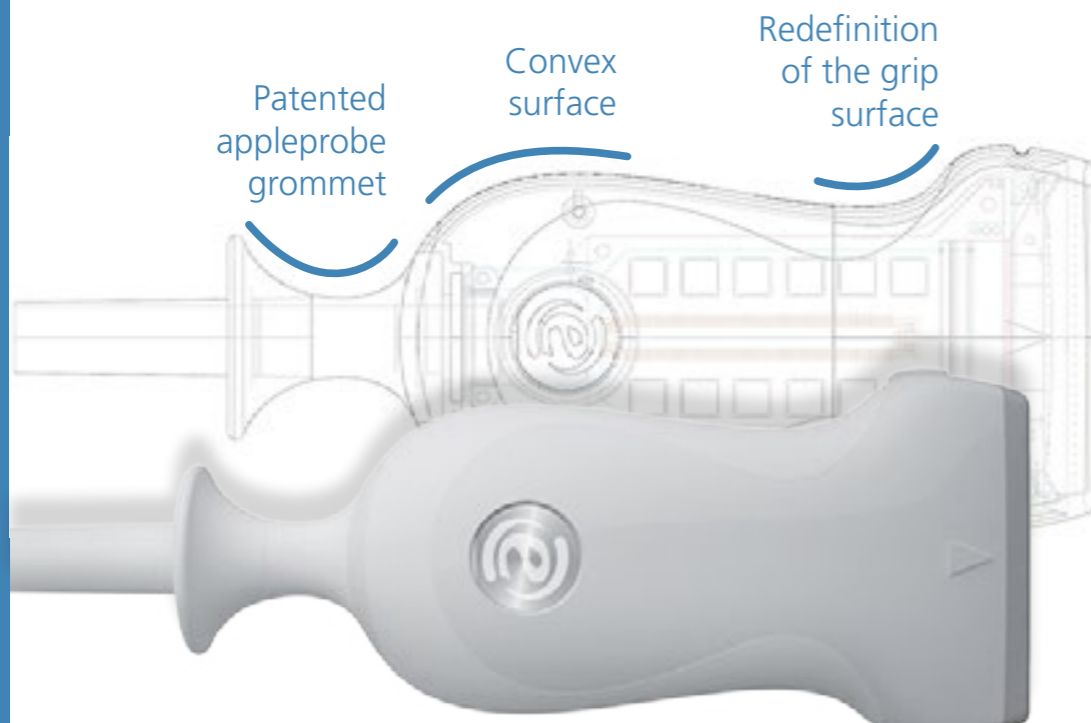
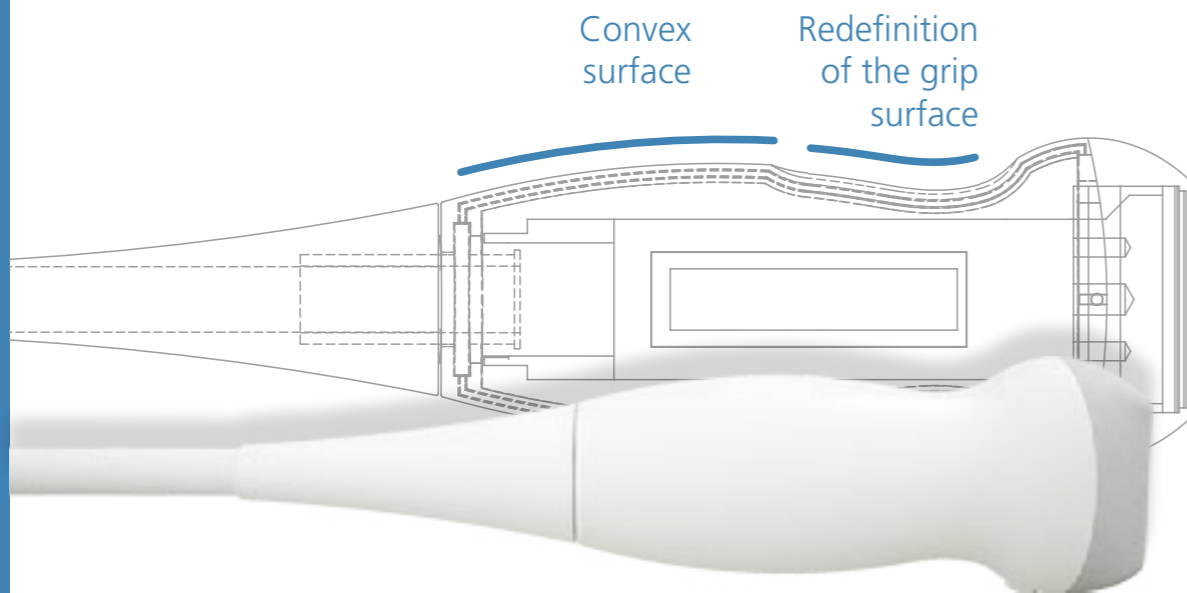
Ergonomics

Connectivity

iQ probes

The new generation IQ probes represents the keypoint of the new eHD technology concept. With the optimized electronics and acoustic materials that improves dramatically the image quality.

- Single crystal technology
- 5 matching layers
- New acoustic lens
- New filling material



Productivity
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eHD Technology

Tissue velocity mapping
(TVM)

Compass M-Mode
(CMM)

Stress-echo

XStrain 2D

XStrain 4D

Contrast Tuned imaging
(CnTI™)

Auto Ejection Fraction
(Auto EF)

eHD CFM

RF-based Quality Intima
Media Thickness (RFQIMT)

Ergonomics

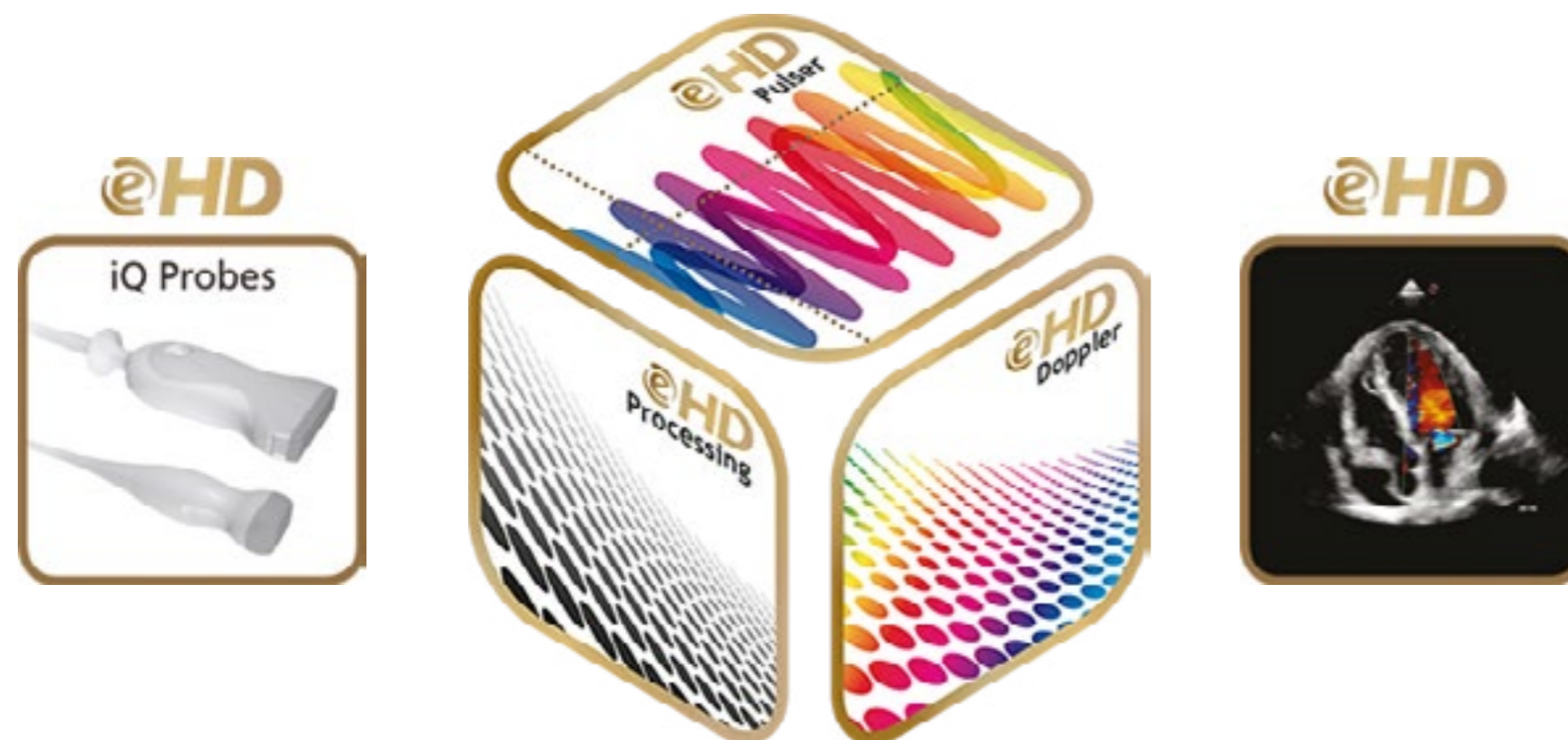
Connectivity

eHD technology

Diagnostic value enhancement and system usability optimization are the main key factors taken in consideration in the development of the eHD Technology.

eHD Technology considers the whole ultrasound signal processing chain:

- Transducer
- Pulser
- Processing
- Doppler
- Visualization



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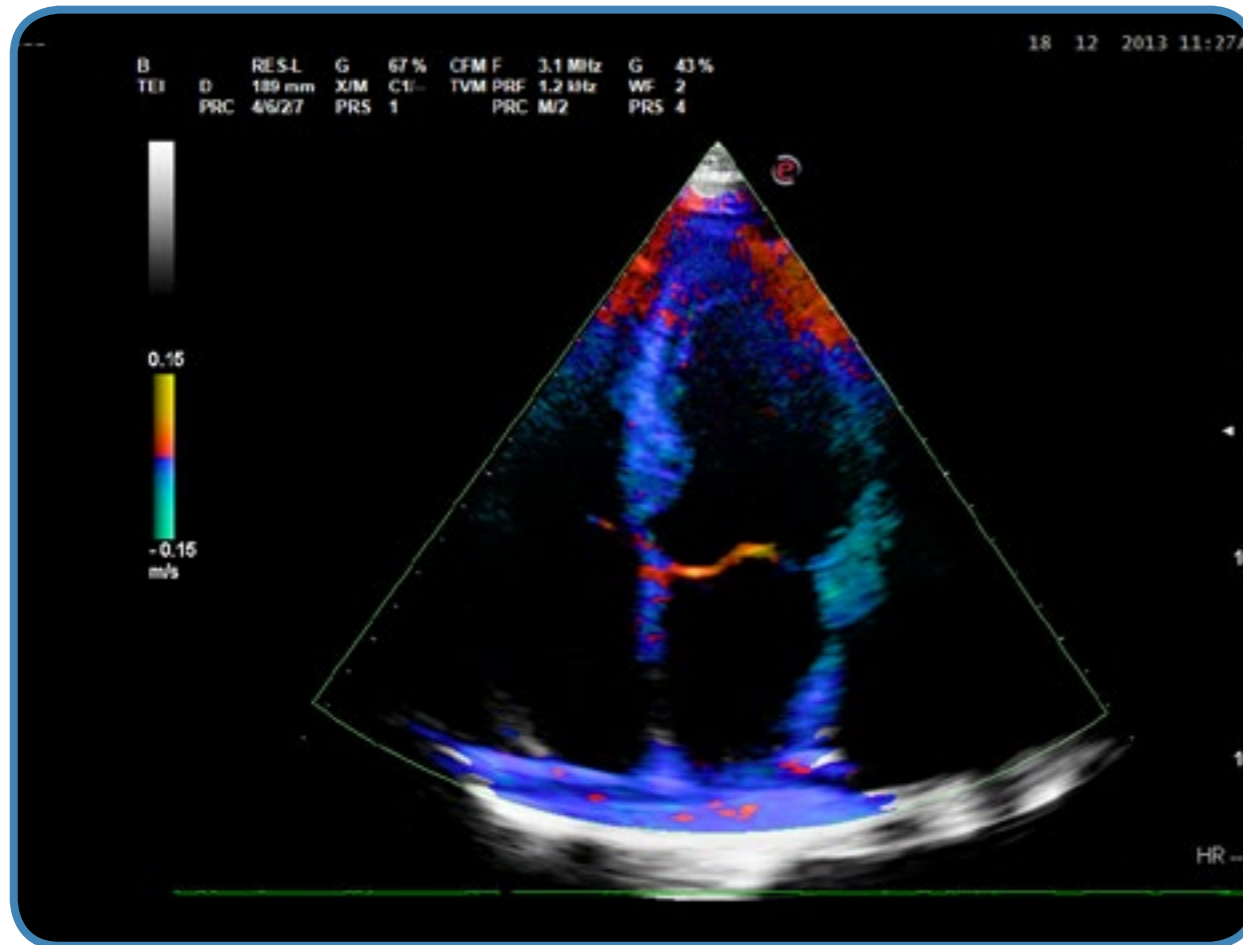
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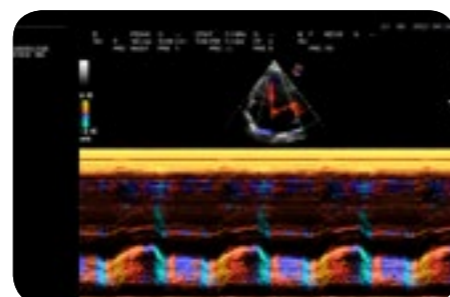
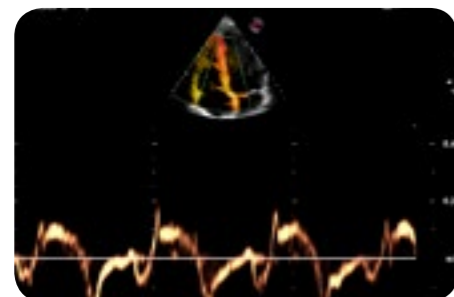
Connectivity

Tissue velocity mapping (TVM)

Tissue velocity mapping (Tissue doppler) is based on the same principles as pulsed-wave and color Doppler echocardiography for blood flow, it applies the doppler effect for the myocardial tissue analysis. The latest generation MyLabAlpha ultrasound system with eHD technology allows to get more precise color tissue doppler mapping and sharp tissue doppler traces thanks to the highest frame rates available in its class.



Color TVM



Click to enlarge

Productivity & Simplicity

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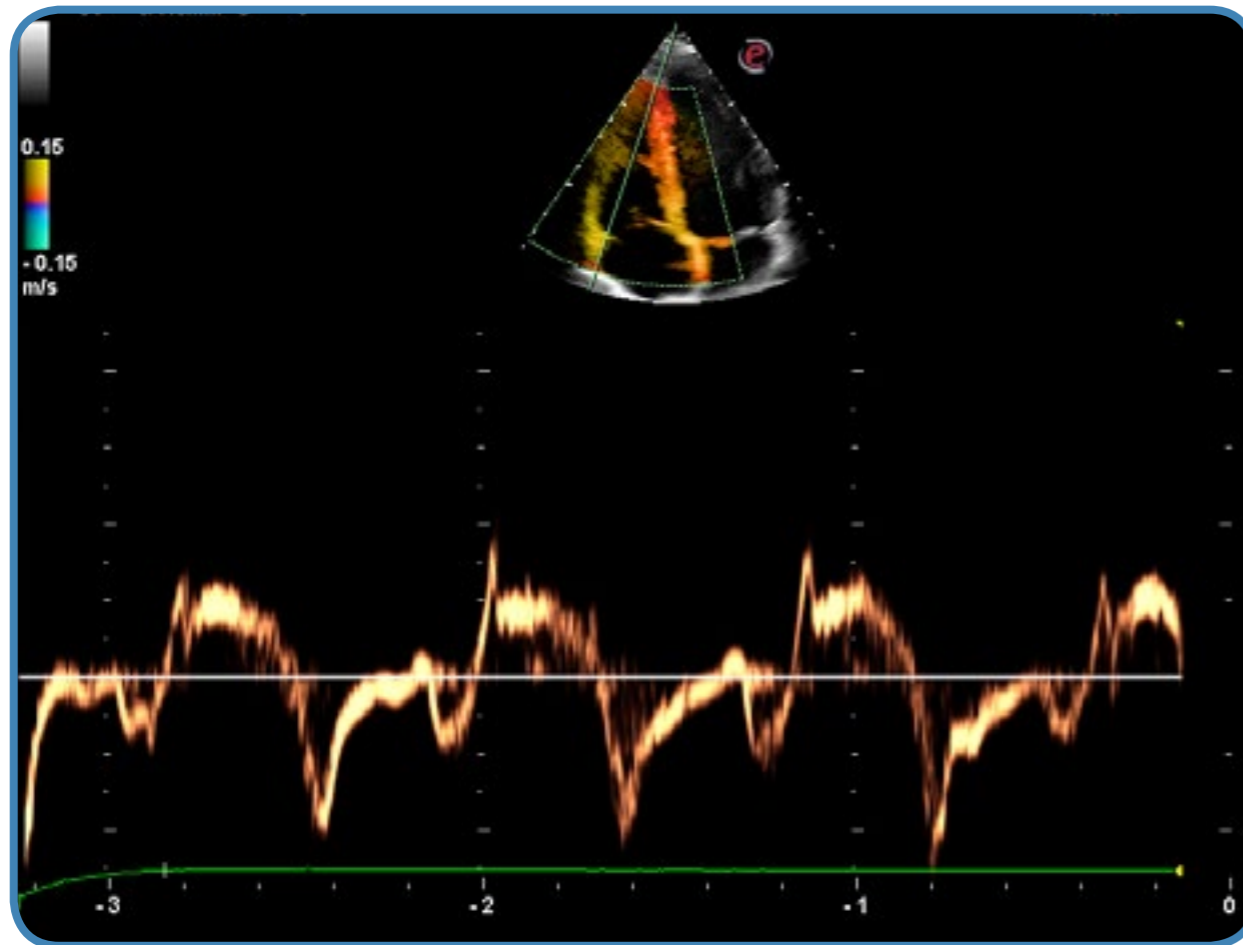
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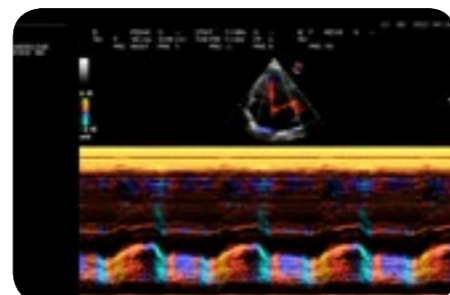
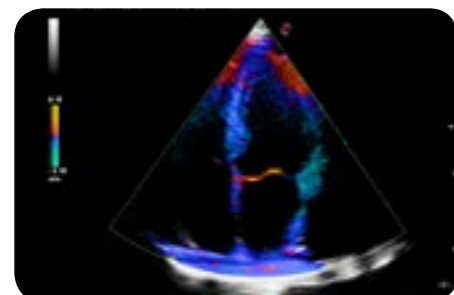
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Pulsed wave TV



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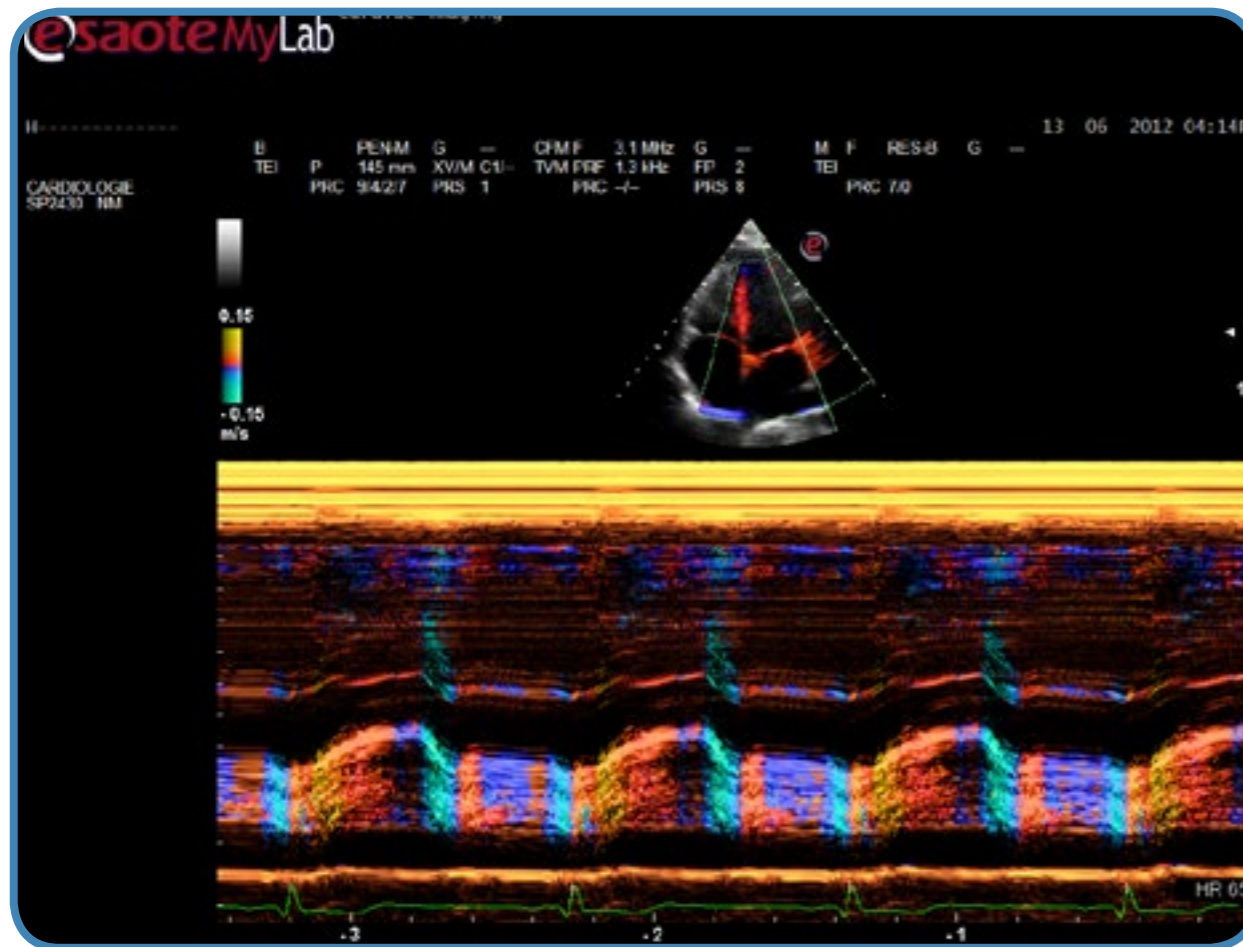
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Ergonomics

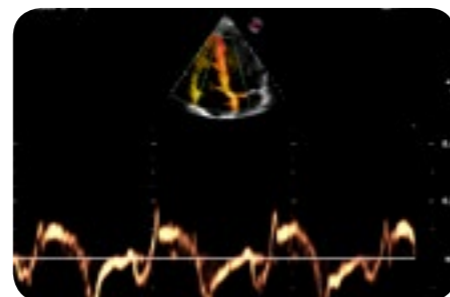
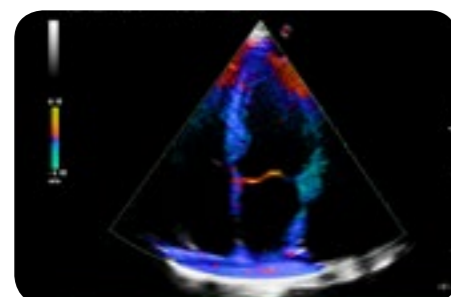
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Tissue Doppler M-Mode



 [Click to enlarge](#)

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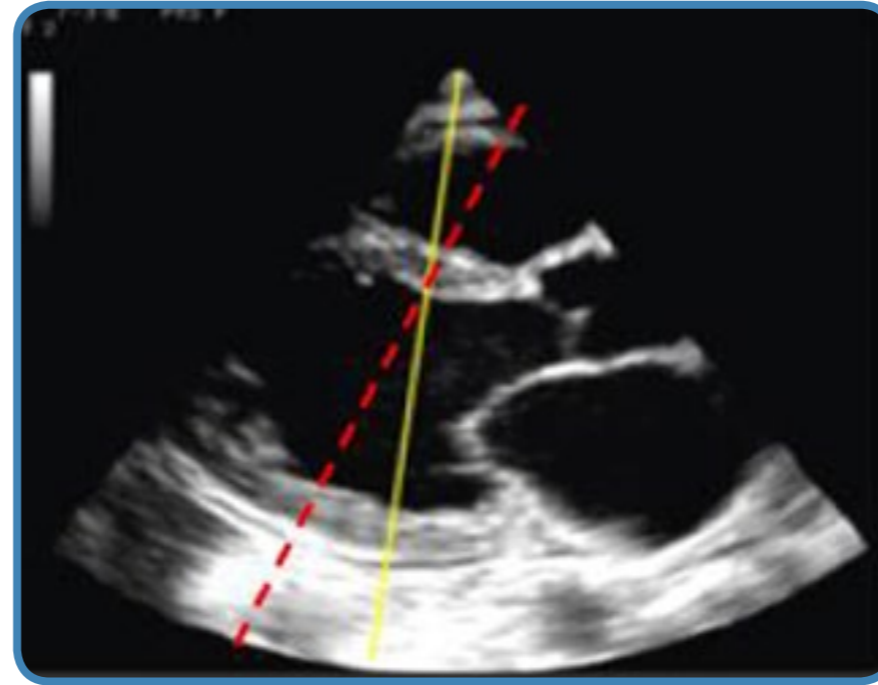
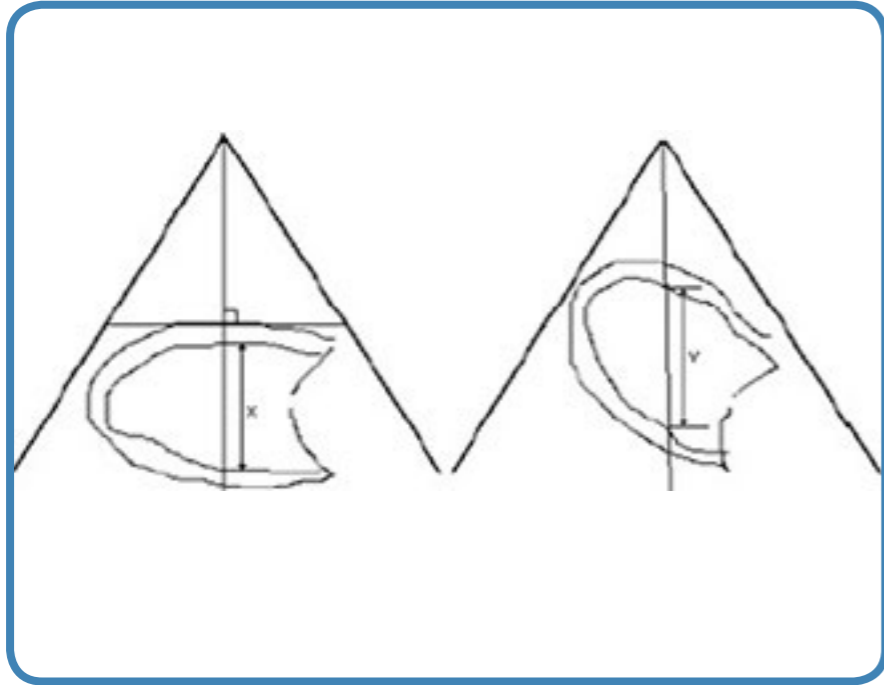
Contact Info


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Compass M-Mode (CMM)

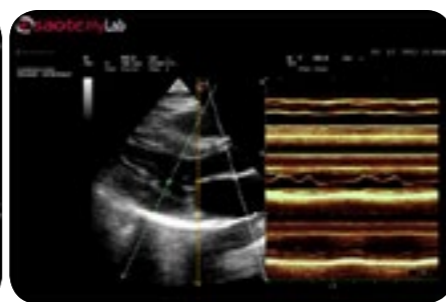
It allows to improve the M-Mode visibility during cardiac exams and acquire all information even in hard-to-scan situations with particular hard difficult heart positioning (Anatomical M-Mode).

1. Plane correction

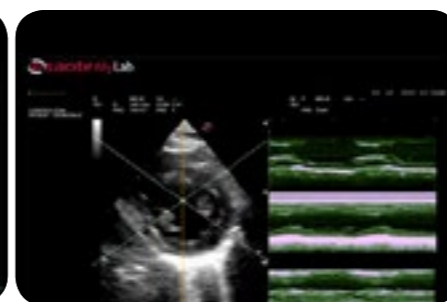
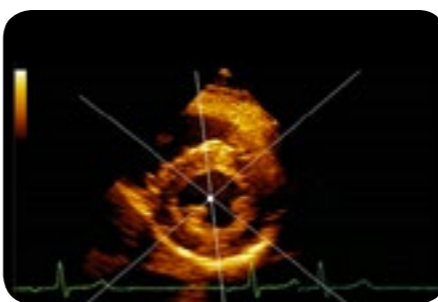


Result: Avoid overestimation of cardiac dimensions

2. Simultaneous traces



3. Temporal assessment



 Click to enlarge

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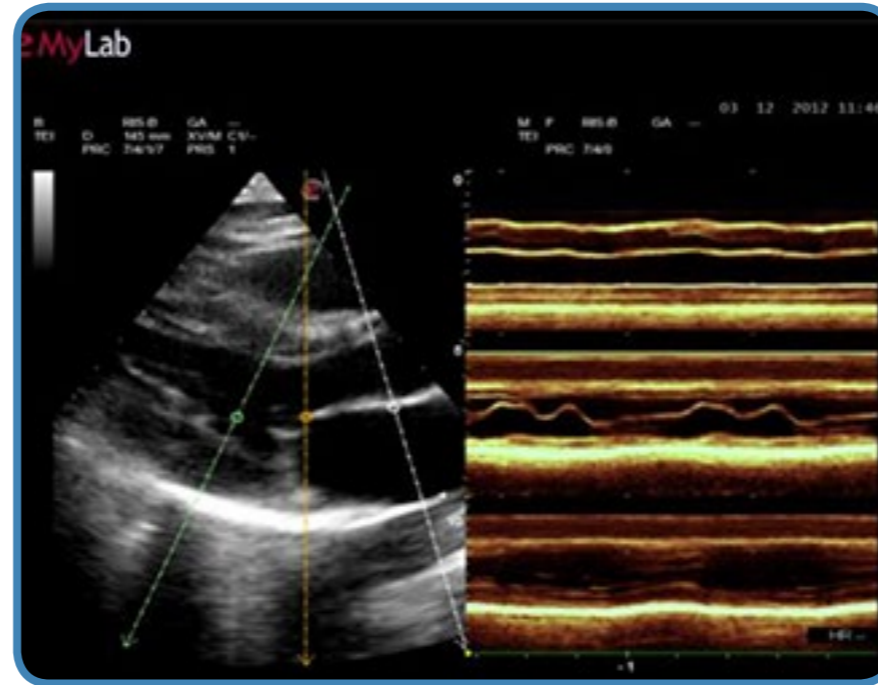
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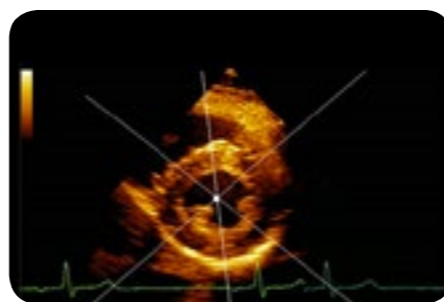
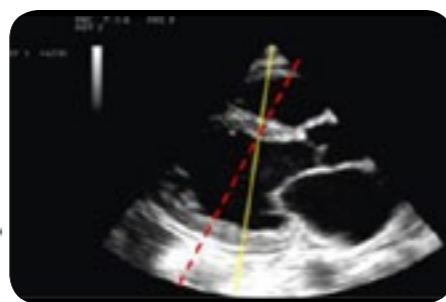


Result: Increase productivity by having up to 3 real time traces

1. Plane correction



3. Temporal assessment



 Click to enlarge

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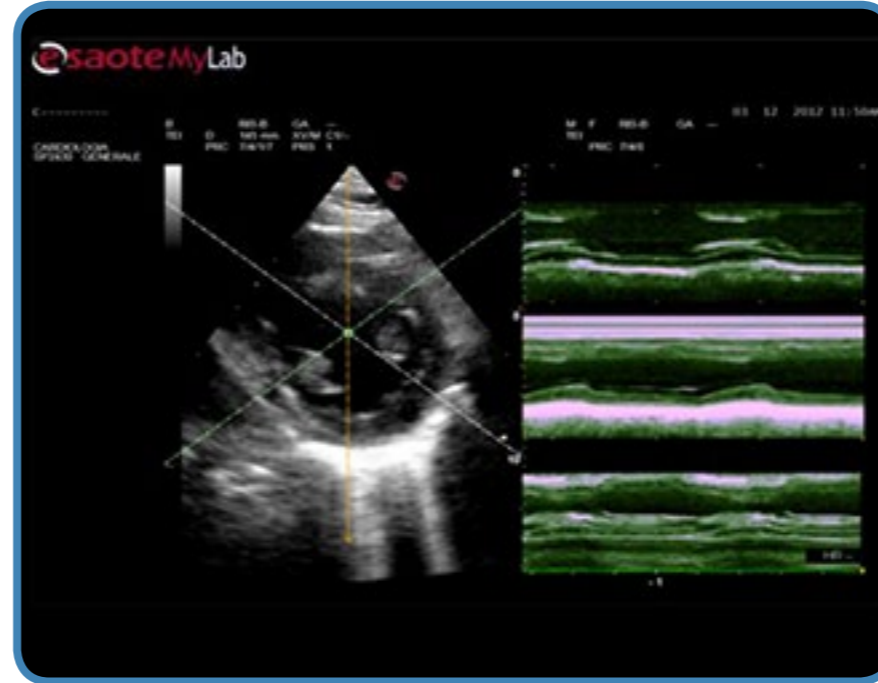
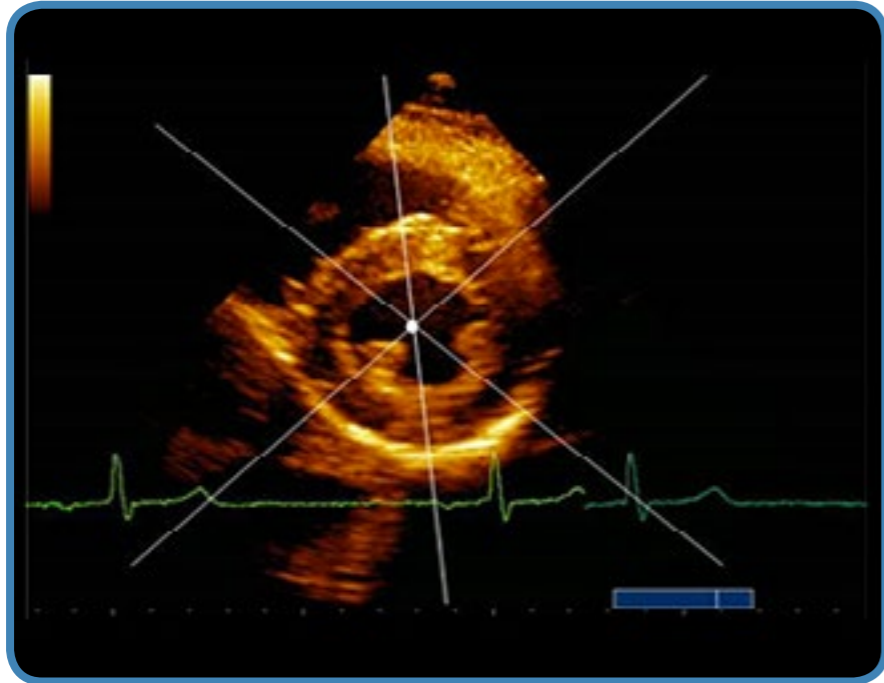
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3. Temporal assessment



Result: An additional tool for LV synchronicity

1. Plane correction



2. Simultaneous traces



 Click to enlarge

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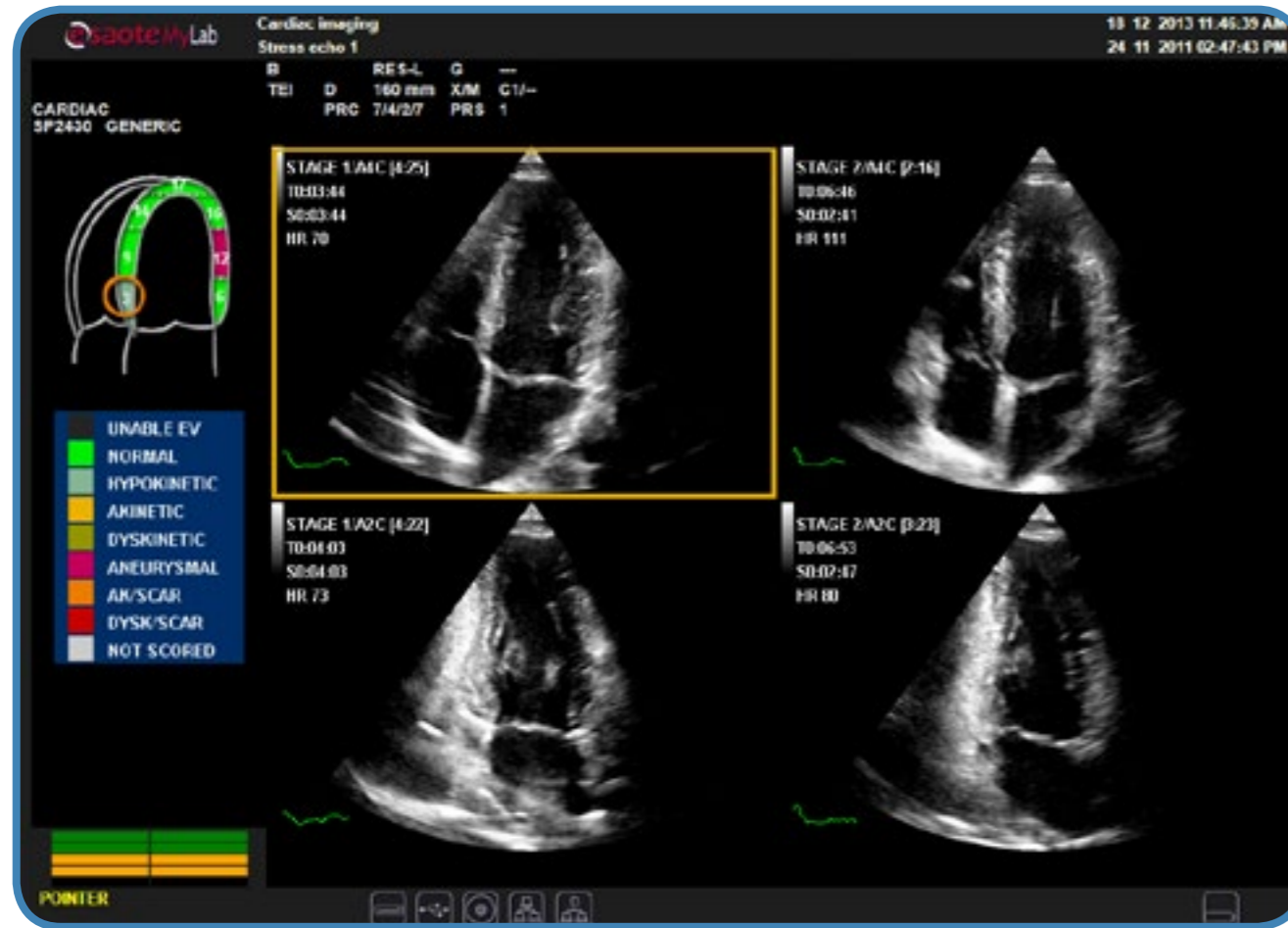


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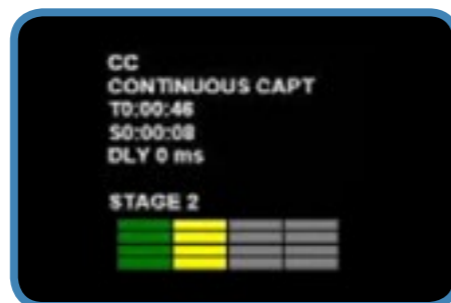
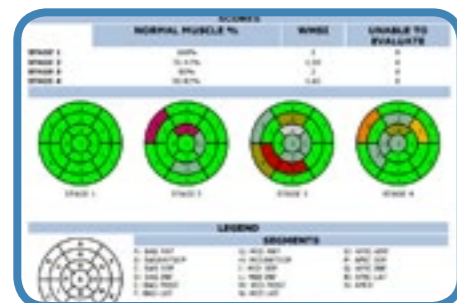
Stress-echo

A kinetic assessment of the Left Ventricle (LV) requires multiple echographic views to visualize all segments. Typically LAX, SAX, A4C, A2C. Esaote's integrated stress-echo software allows the user to acquire the loops with different protocols:

- Prospective
- Retrospective
- Continuous capture



Software layout



 Click to enlarge

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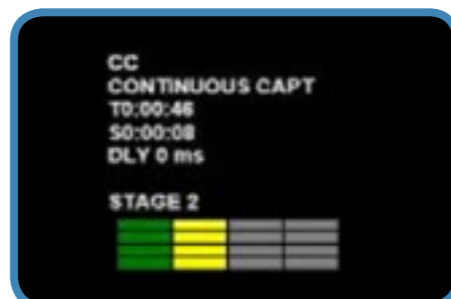
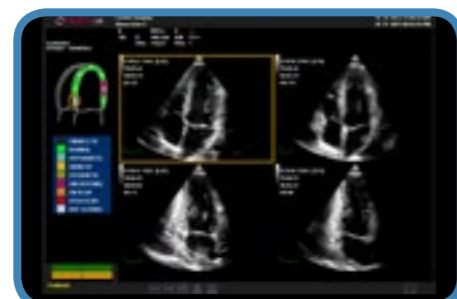
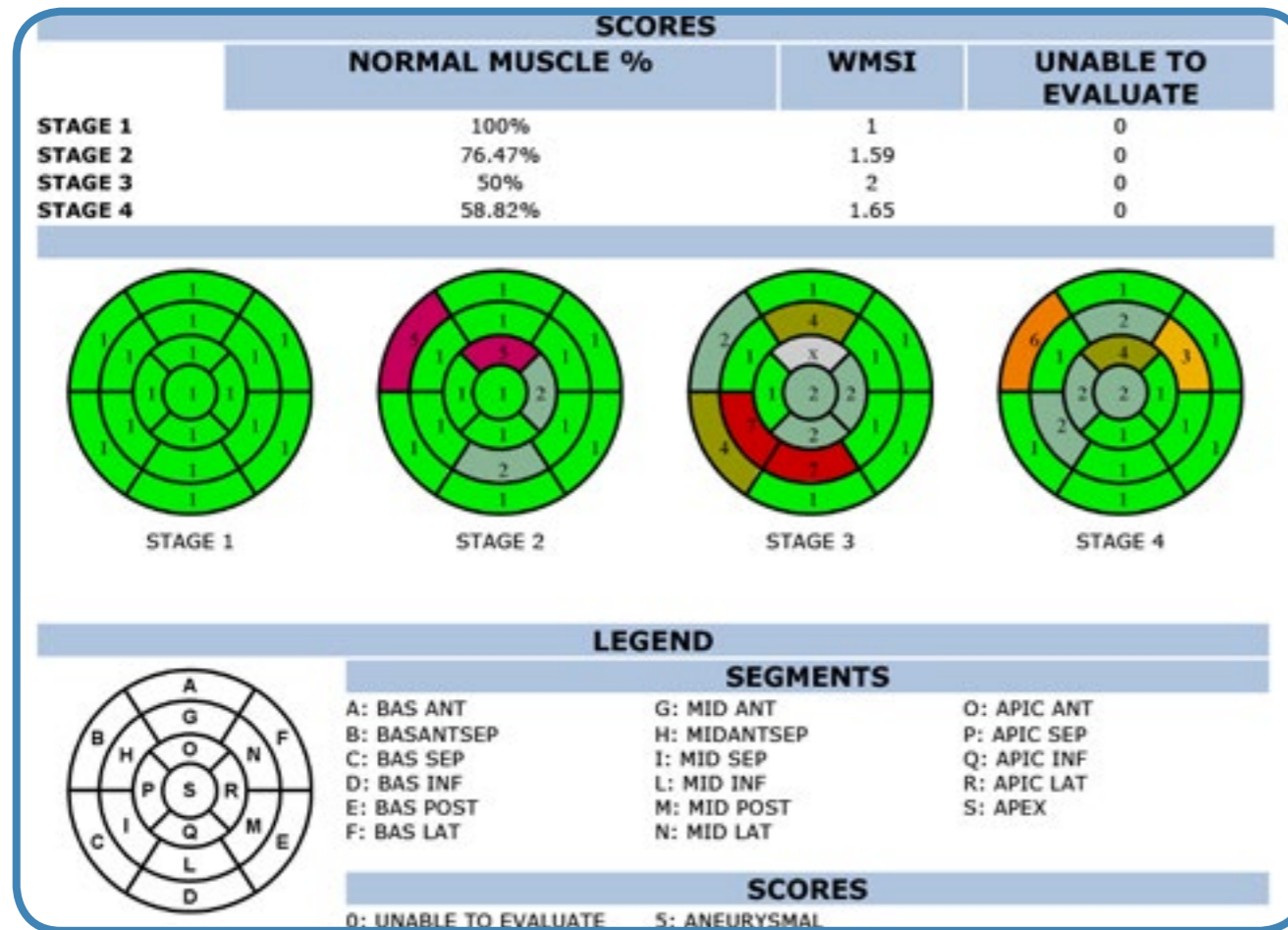
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Integrated report



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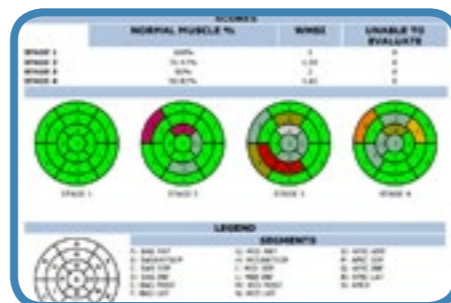
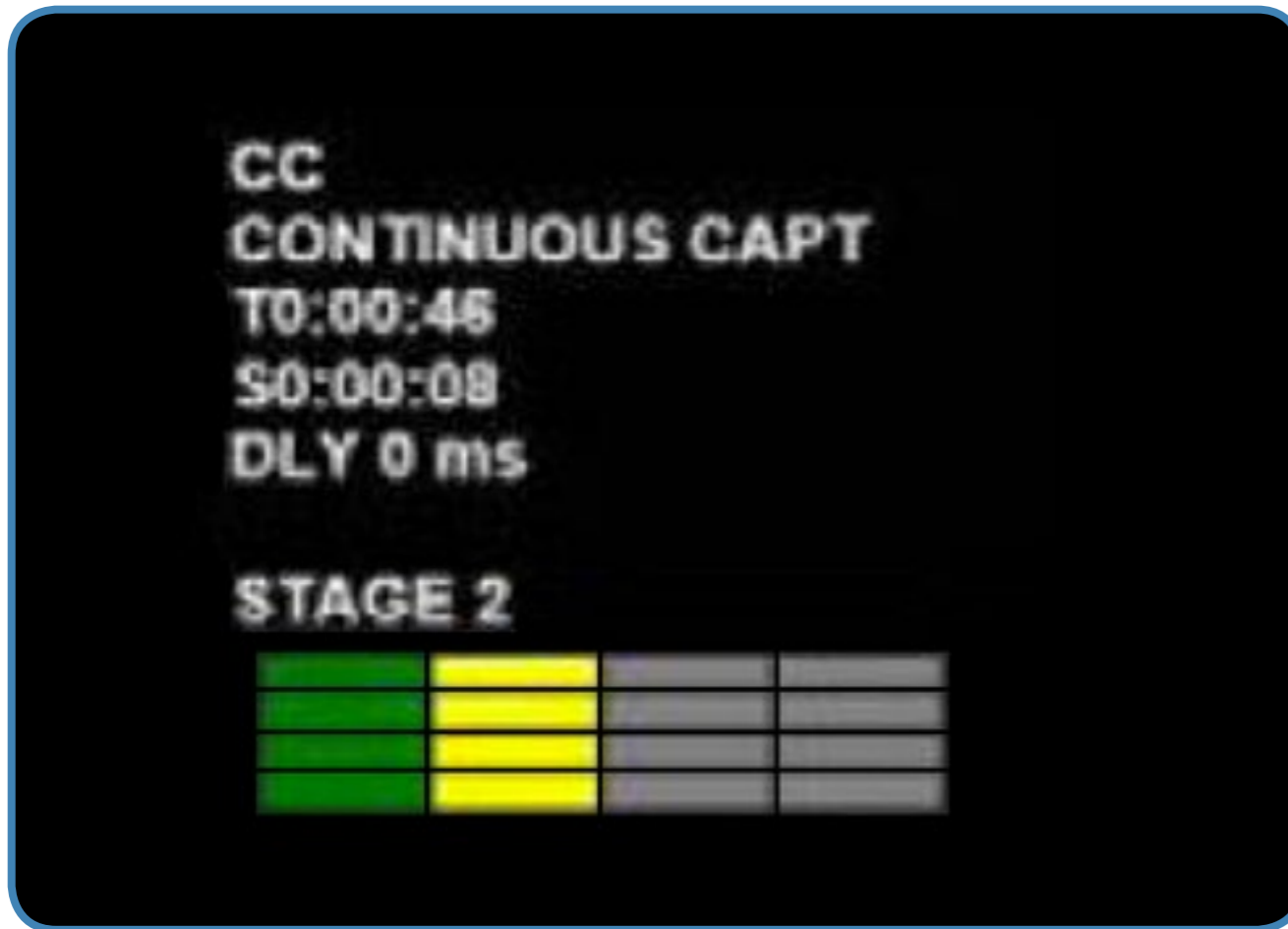
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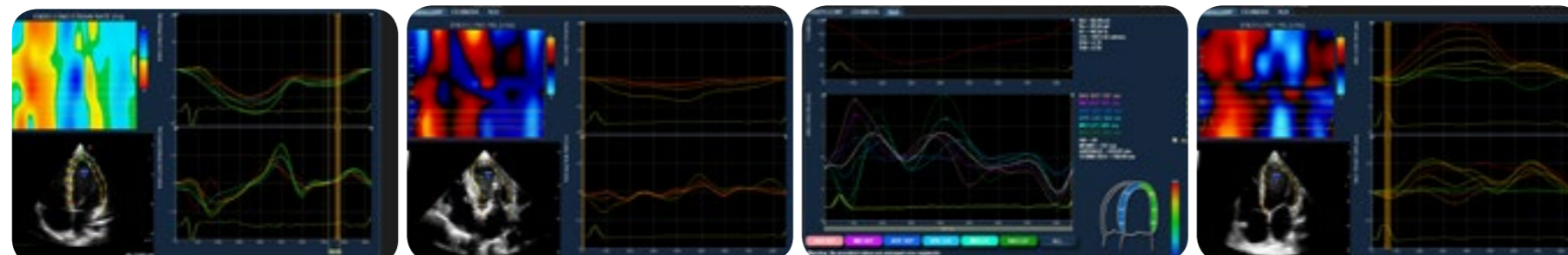
XStrain 2D

An angle-independent imaging method to estimate and quantify endocardial velocities of contraction and relaxation, and estimate and quantify local deformation of the heart (strain and strain rate).

XStrain allows to track the whole myocardial motion in different views.



Automatic Global Strain



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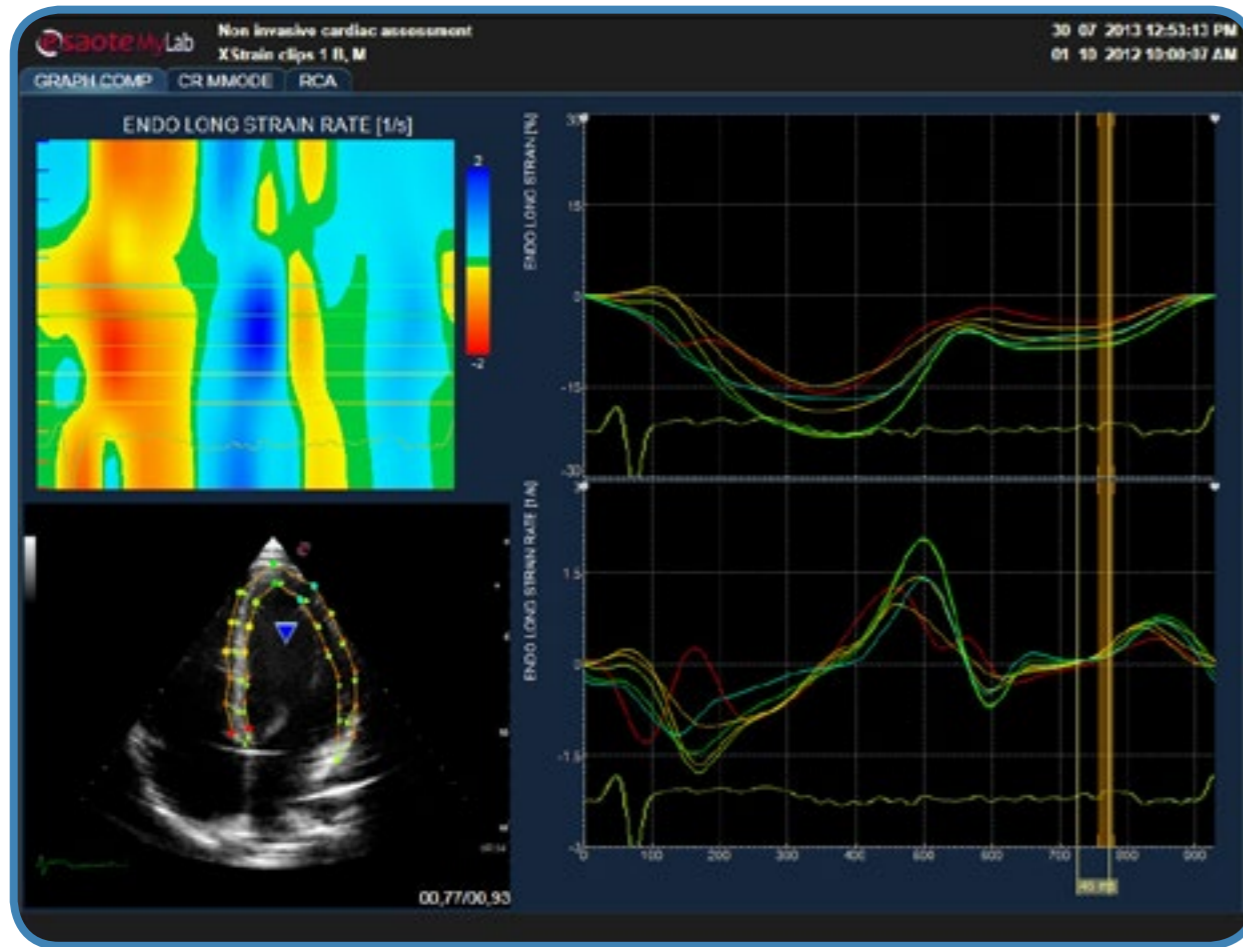
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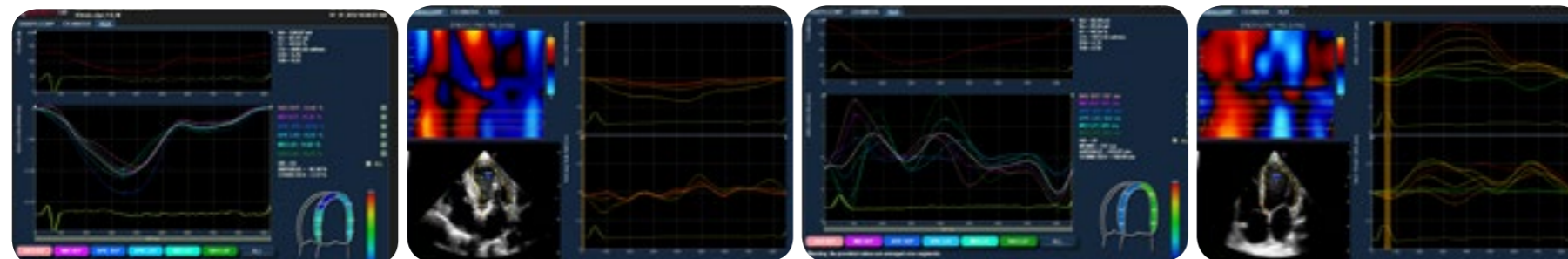
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Strain/Strain rate graphs



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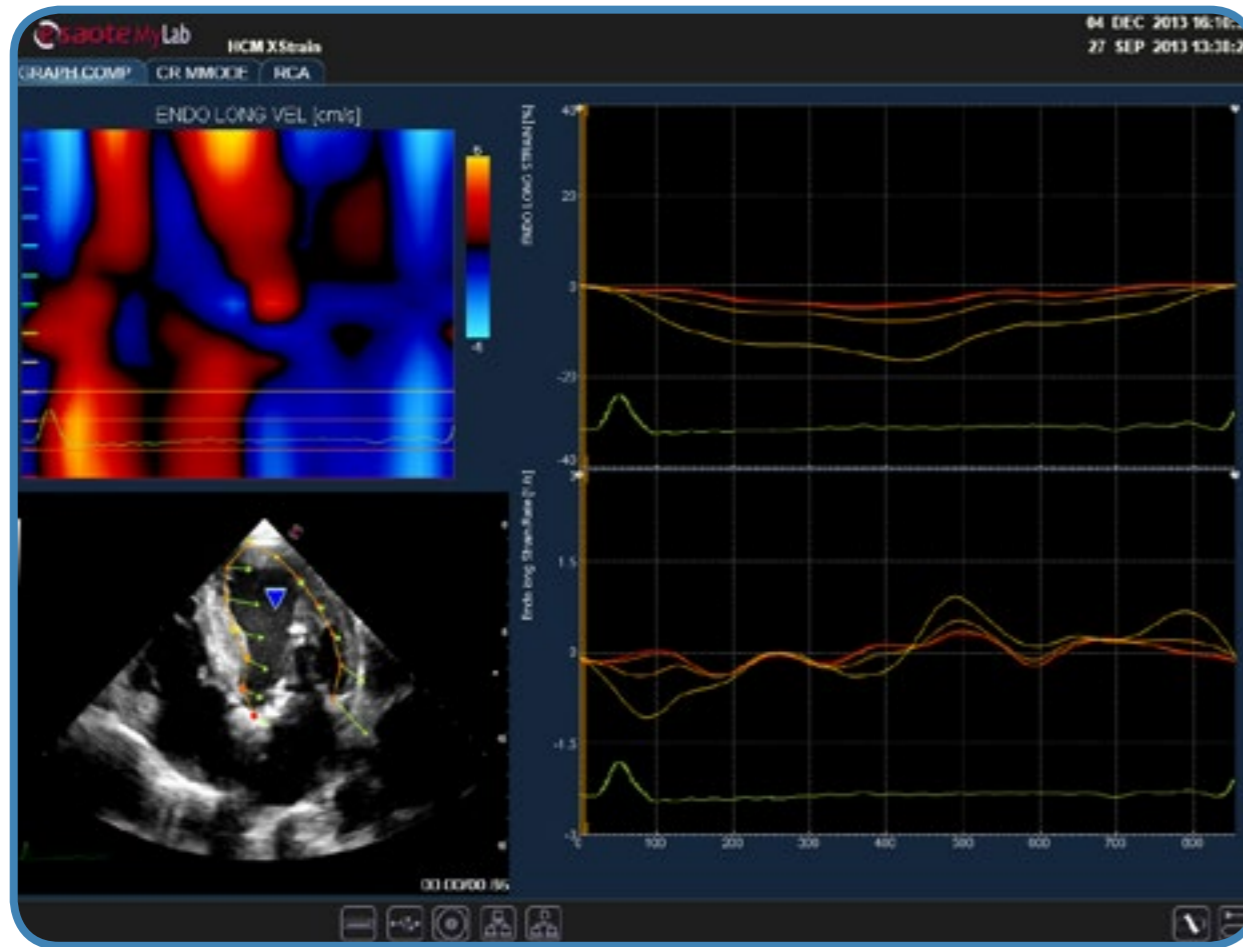
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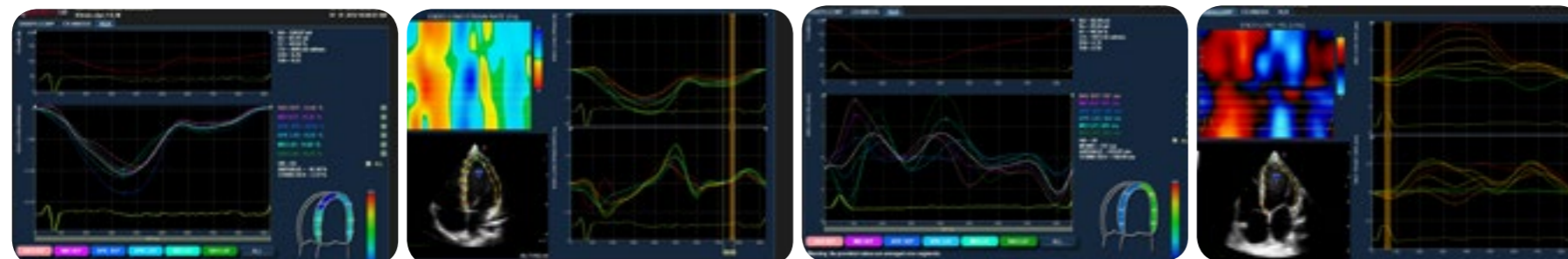
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Abnormal Strain/Strain rate curves



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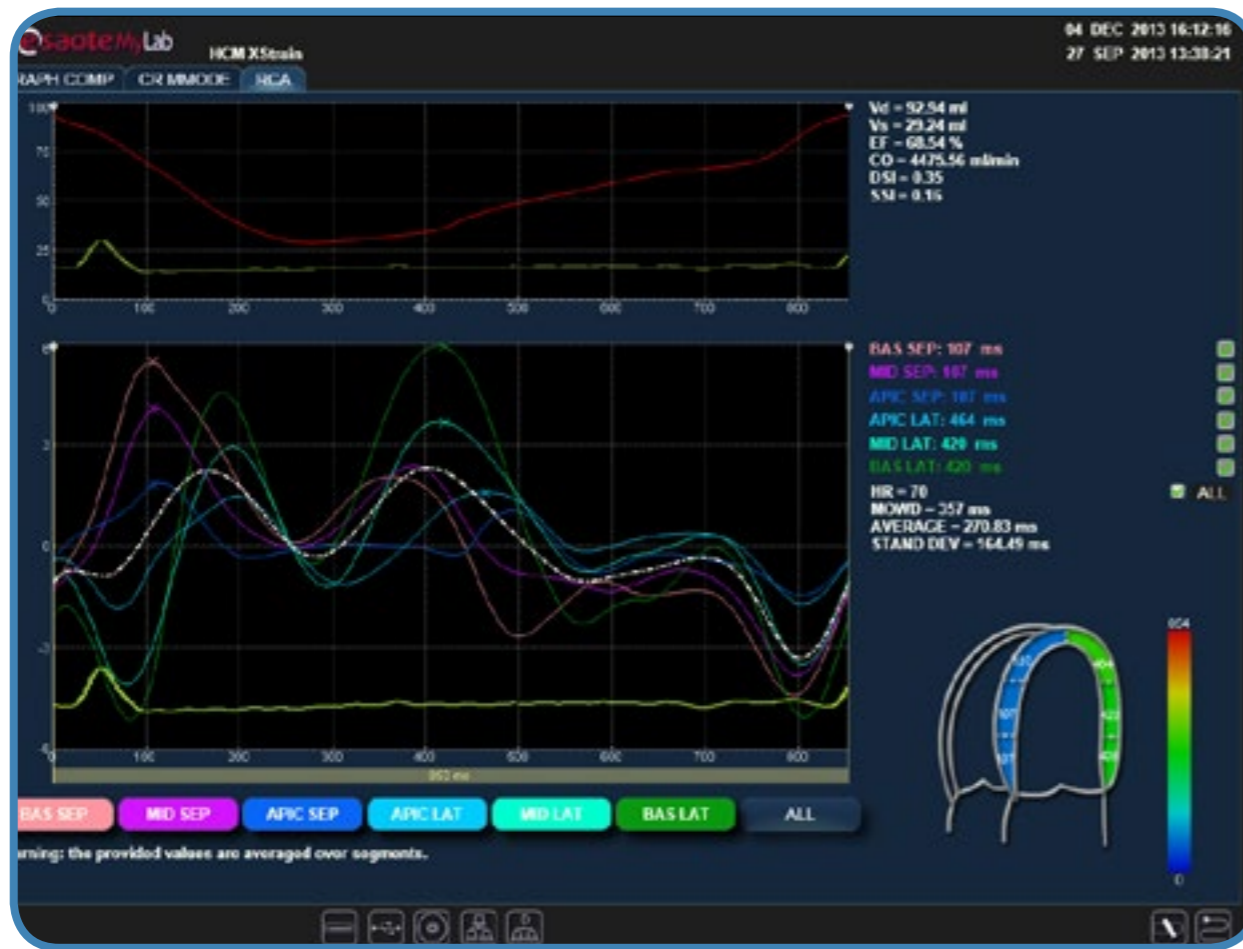
Connectivity

Contact Info

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Abnormal LV synchronicity

Contact Info



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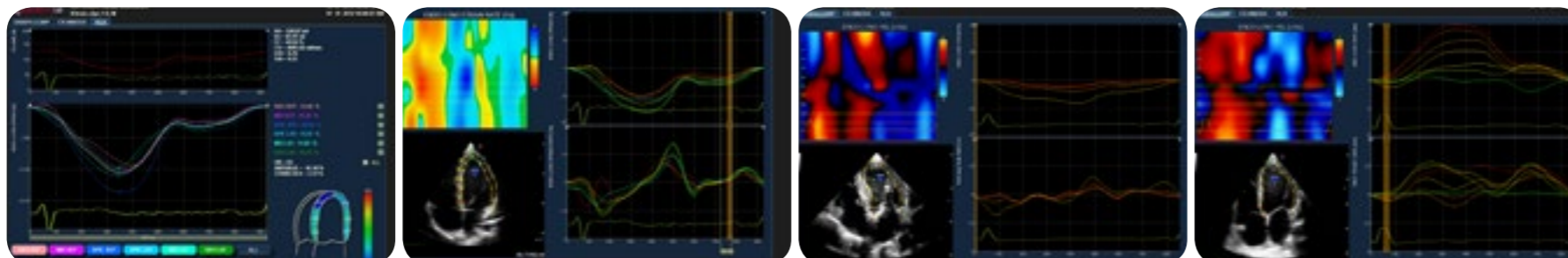
Auto Ejection Fraction (Auto EF)

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RF-based Quality Intima Media Thickness (RFQIMT)

Ergonomics

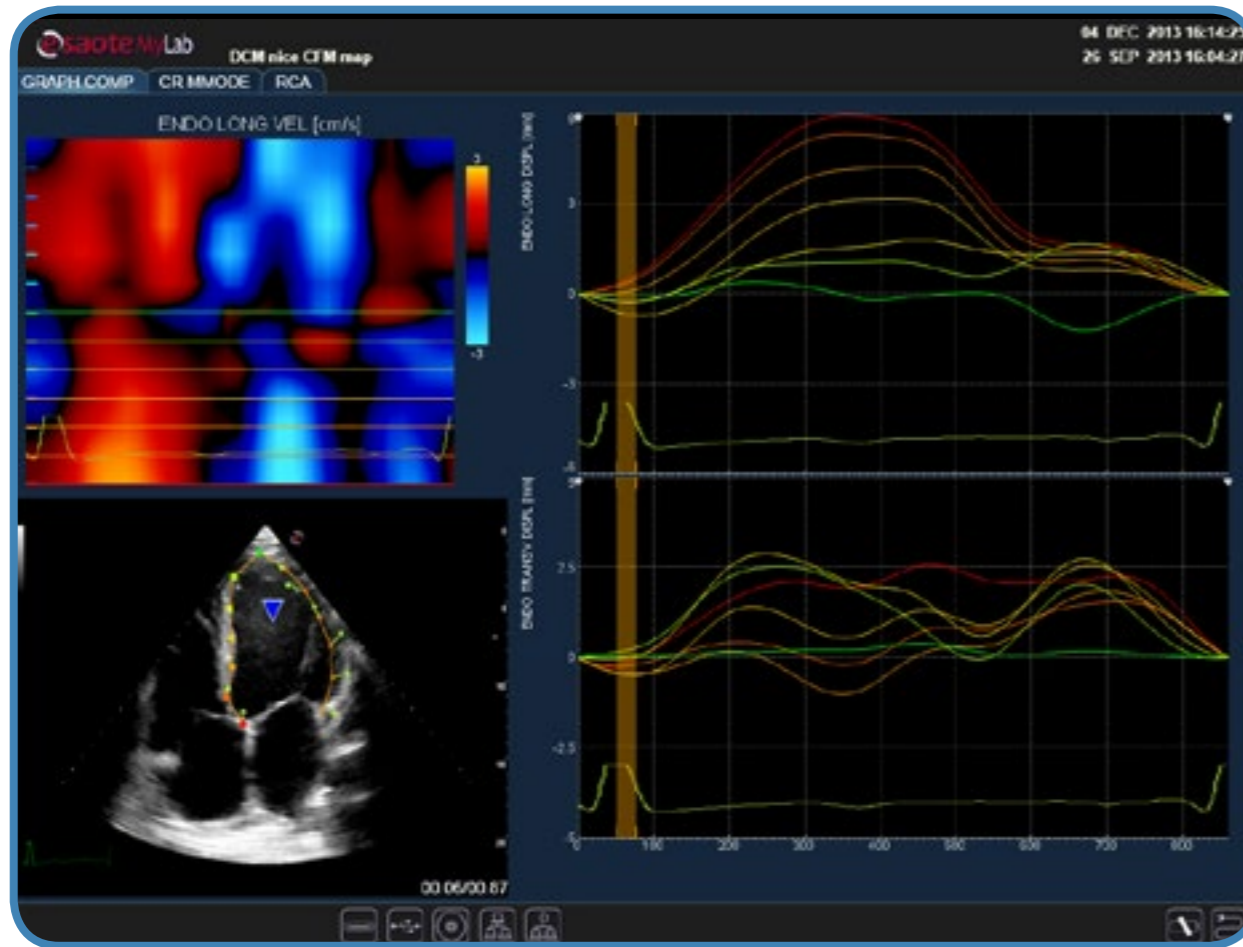
Connectivity



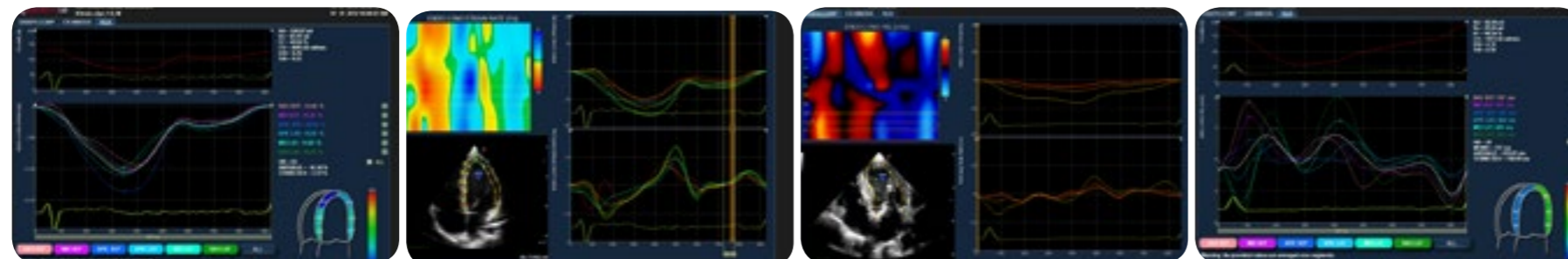
XStrain 2D

An angle-independent imaging method to estimate and quantify endocardial velocities of contraction and relaxation, and estimate and quantify local deformation of the heart (strain and strain rate).

XStrain allows to track the whole myocardial motion in different views.



Longitudinal displacement



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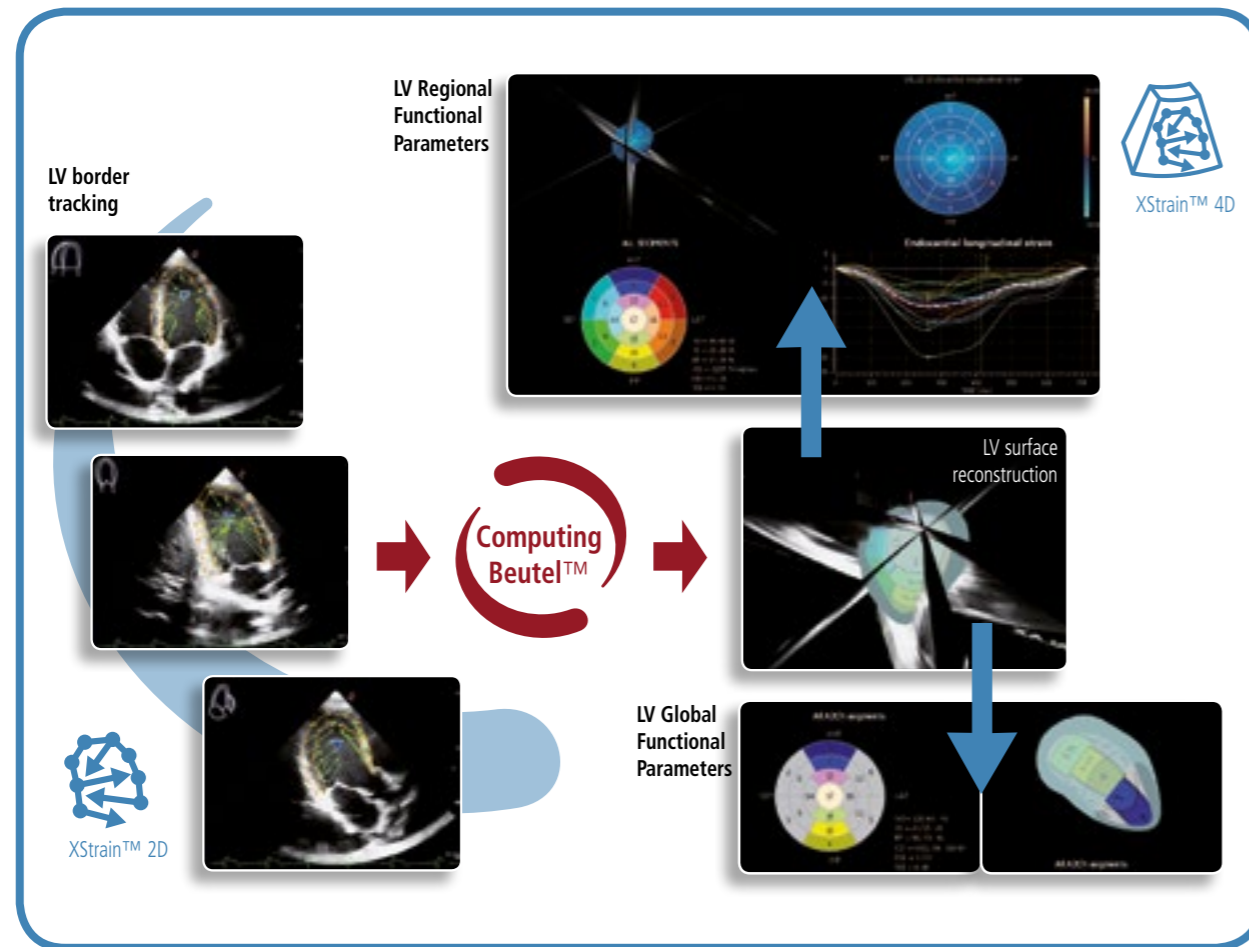
Ergonomics

Connectivity

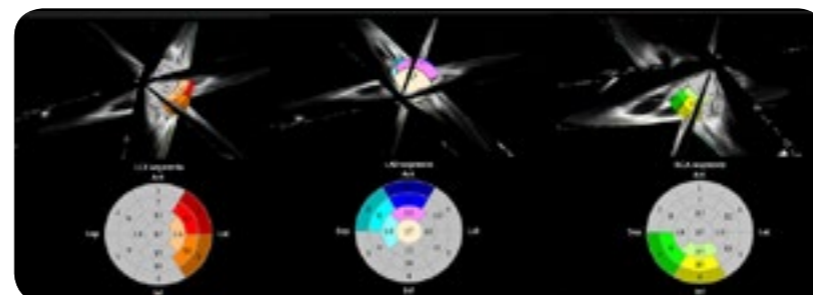
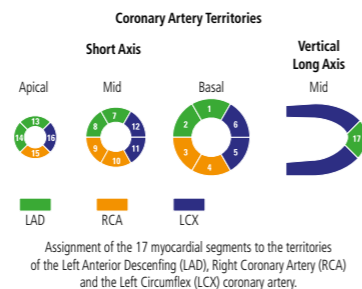
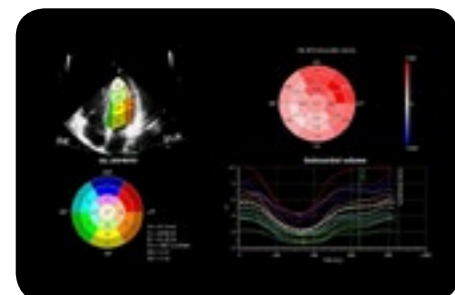
XStrain 4D

XStrain 4D is a brand new technology which provides a volumetric model of the heart's function by combining 2D apical planes acquisition using a standard transducer.

This will improve the quality of the diagnosis delivered to patient and so becomes more appropriated for the daily routine.



XStrain 4D Acquisition



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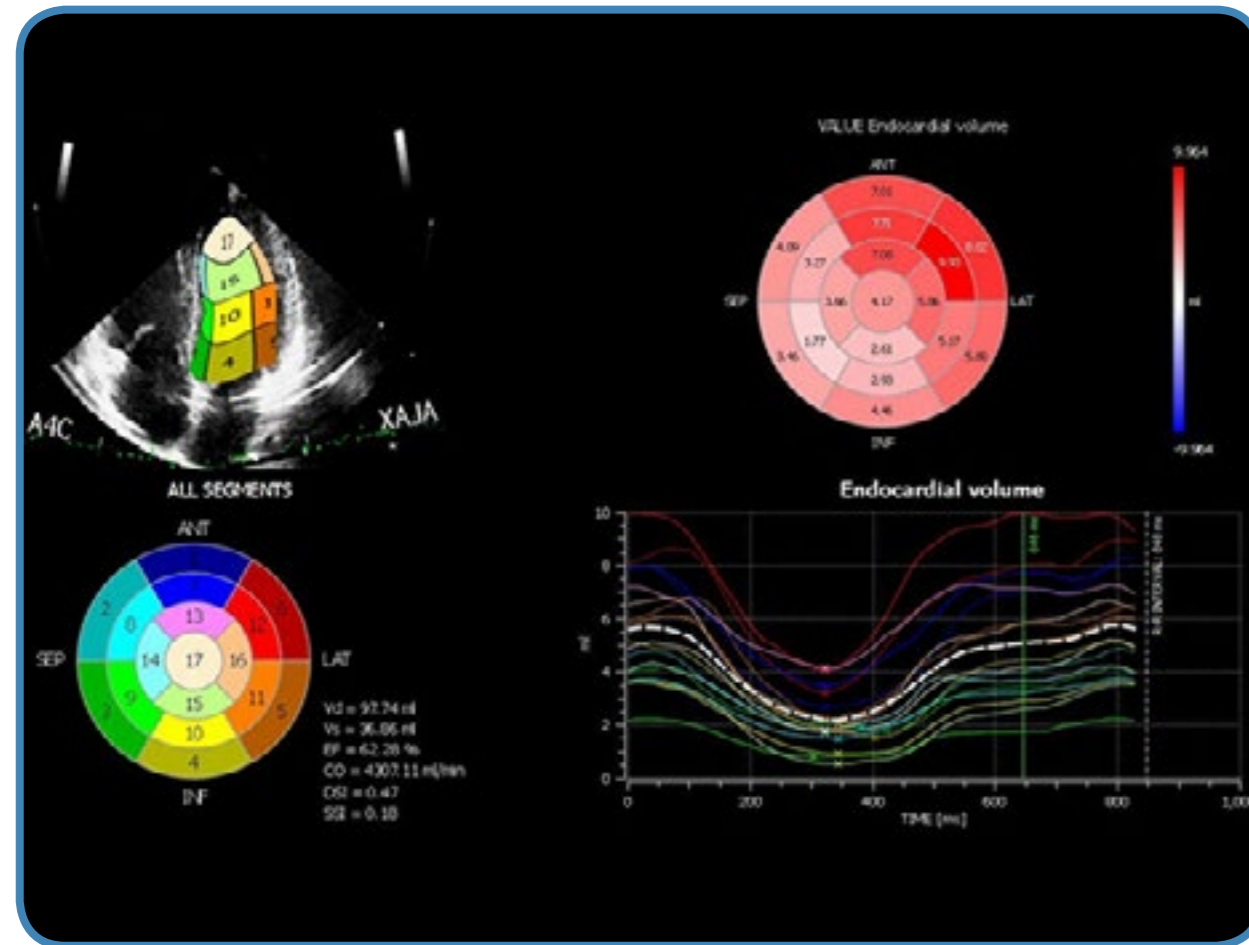
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XStrain 4D main layout

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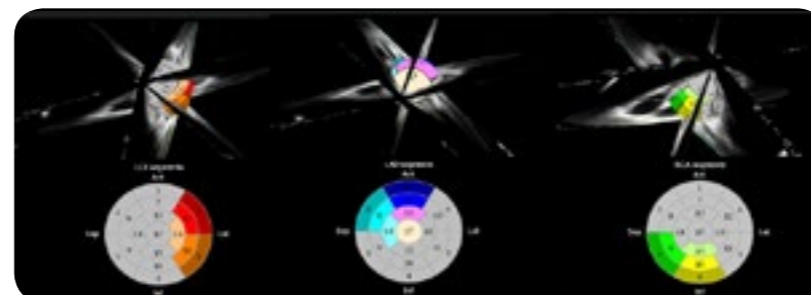
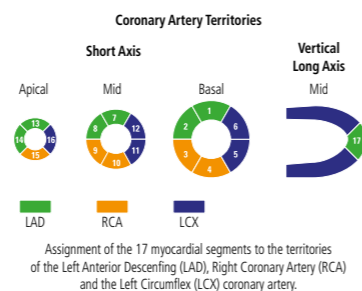
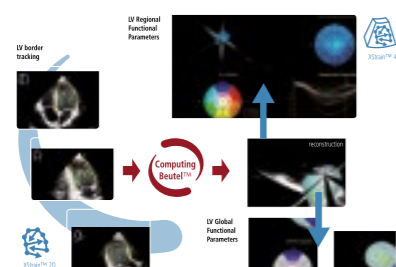
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RF-based Quality Intima Media Thickness (RFQIMT)

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Connectivity

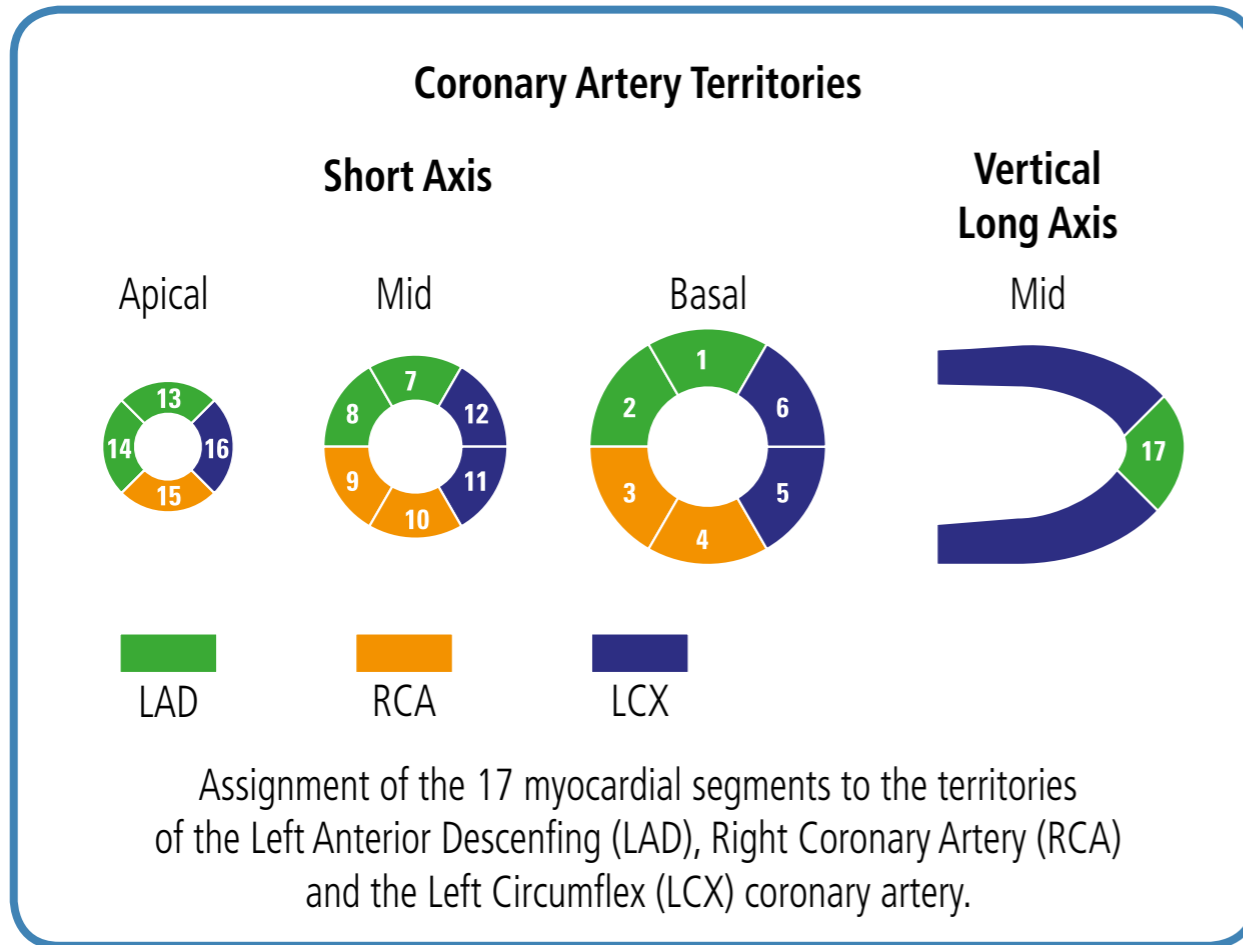


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Coronary territories analysis



Productivity & Simplicity

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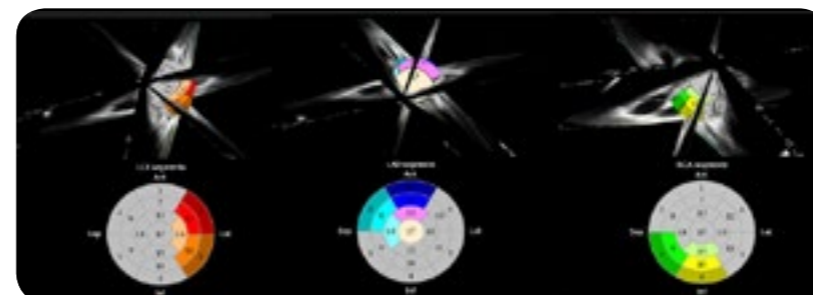
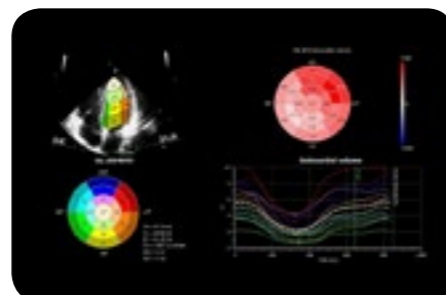
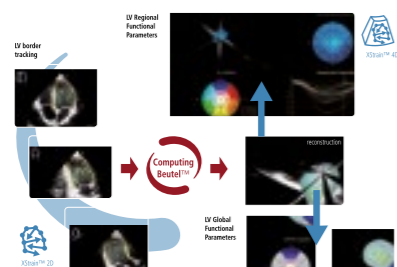
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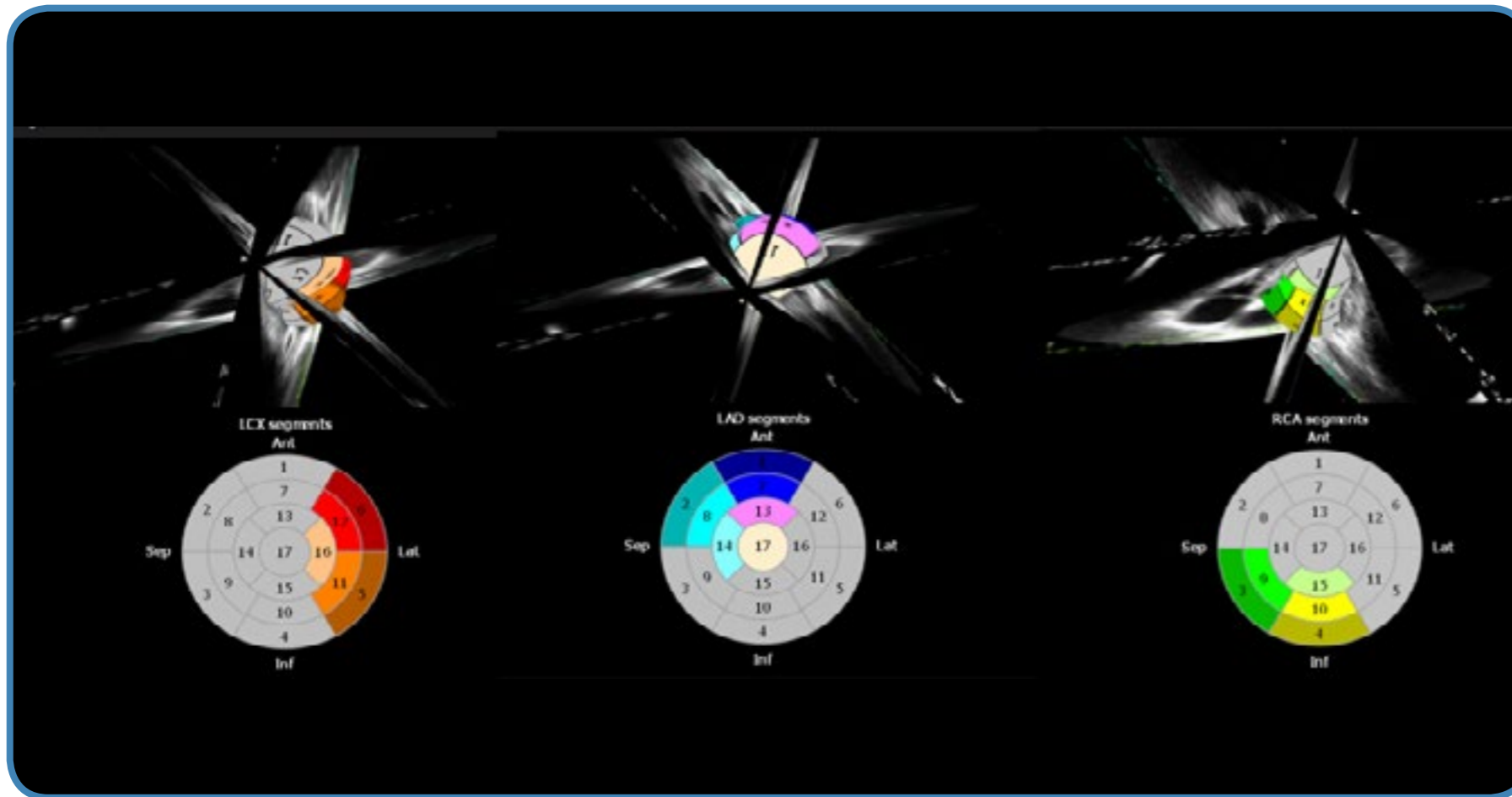
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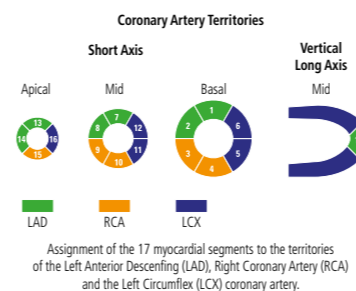
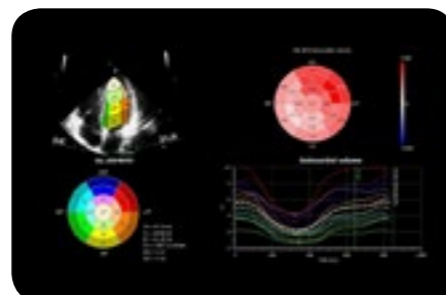
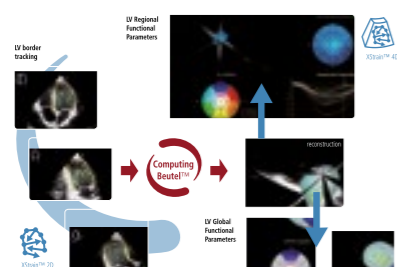
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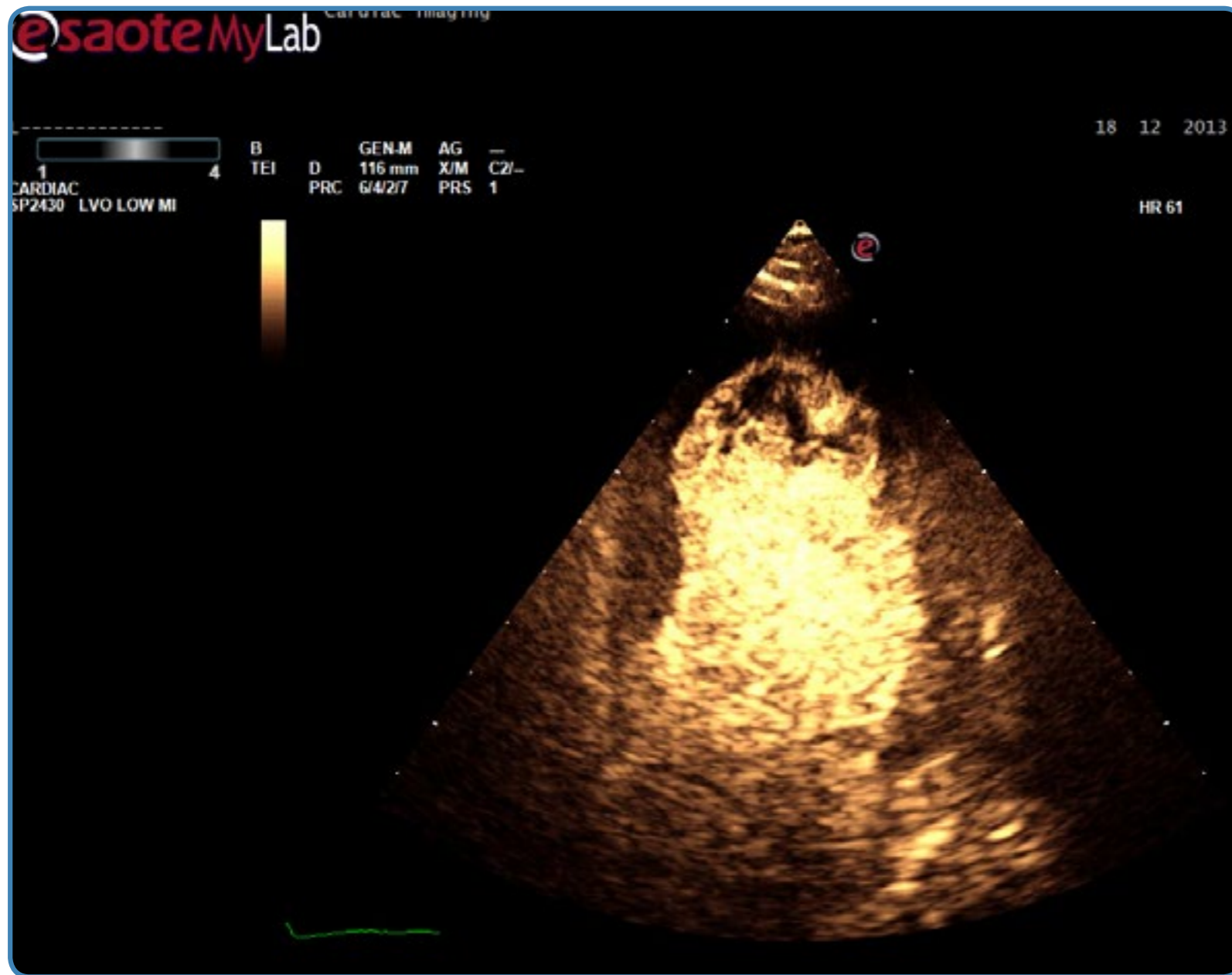
Ergonomics

Connectivity



Contrast Tuned imaging (CnTI™)

CnTI™ is the Esaote's advanced software designed for the use of Ultrasound contrast agents for LV opacification (LVO) and LV endocardial border definition (EBD) in patients with technically suboptimal echocardiograms under rest conditions.



LVO examination

Productivity
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**Contrast Tuned imaging
(CnTI™)**

Auto Ejection Fraction
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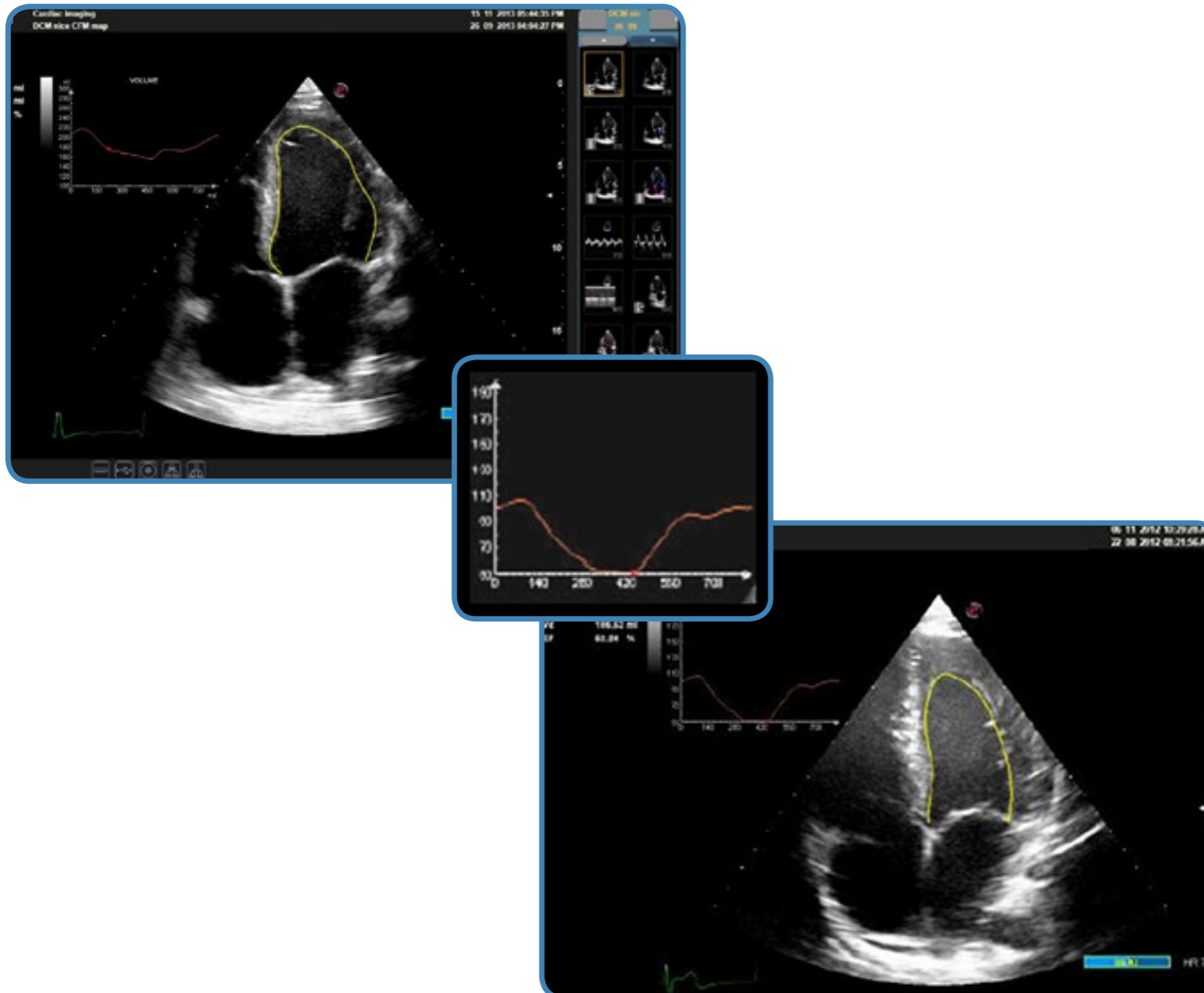
RF-based Quality Intima
Media Thickness (RFQIMT)

Ergonomics

Connectivity

Auto Ejection Fraction (Auto EF)

Based on the speckle tracking technology allows to track accurately the endocardial border to get an automatic calculation of the EF, with improved reproducibility.



Productivity
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Contrast Tuned imaging
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**Auto Ejection Fraction
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eHD CFM

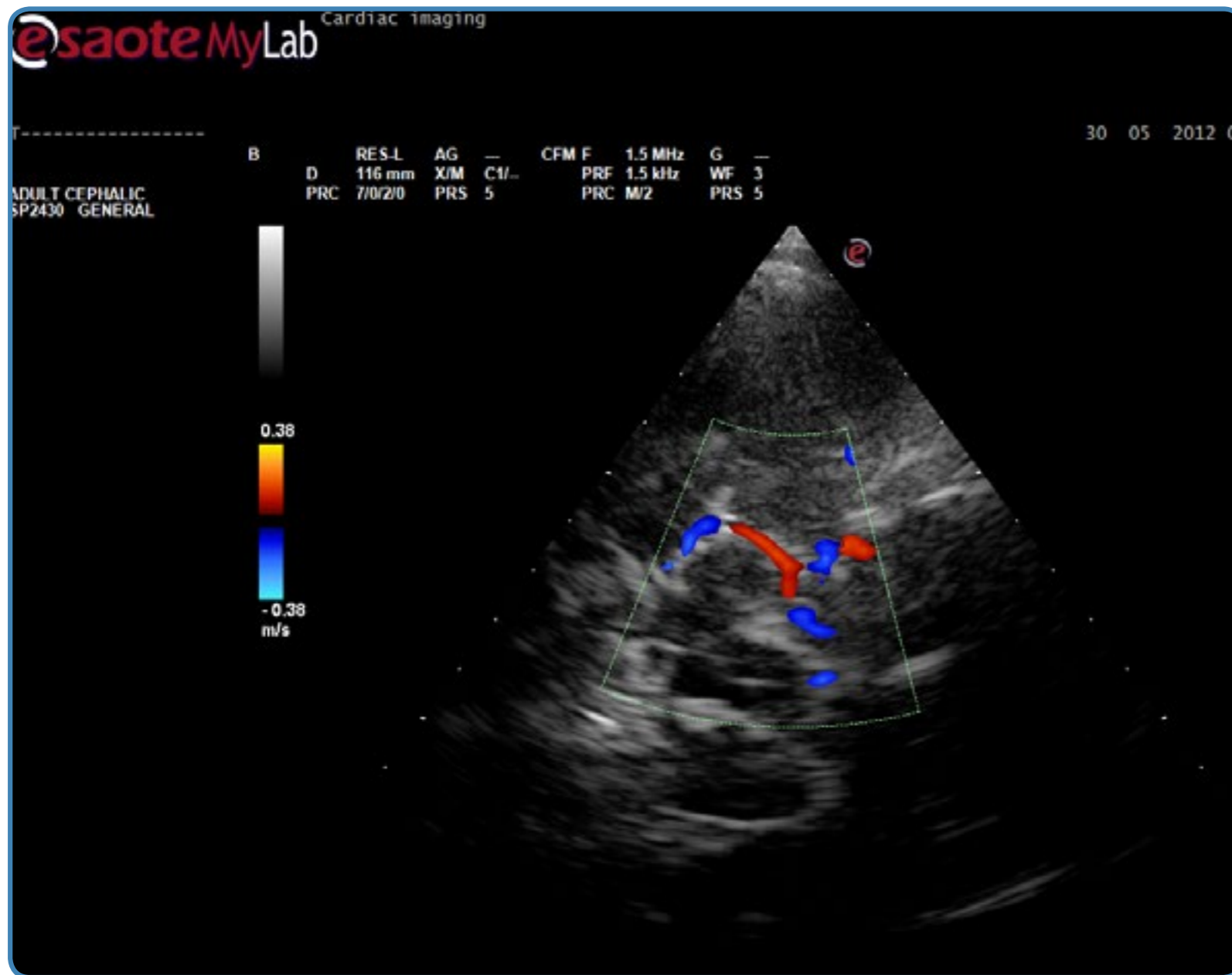
RF-based Quality Intima
Media Thickness (RFQIMT)

Ergonomics

Connectivity

eHD CFM

HD CFM represents an extra-sensitive Doppler signal color mapping representation whose powerful architecture is based on extremely large transducer's bandwidth and innovative Doppler signal processing algorithms based on multiple dedicated Digital Signal Processing processors (DSPs) and fine tuned hardware and software components.



Cerebral hemodynamics

Productivity
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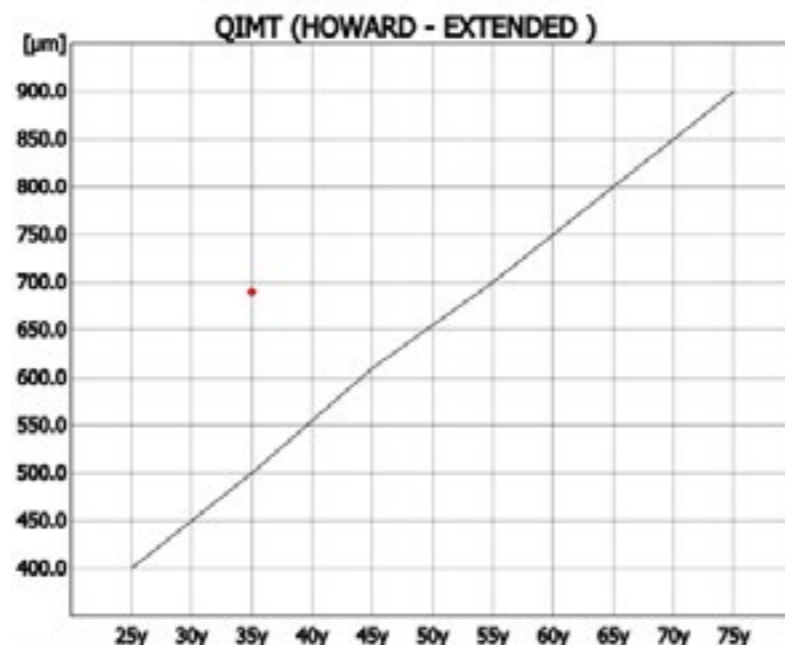
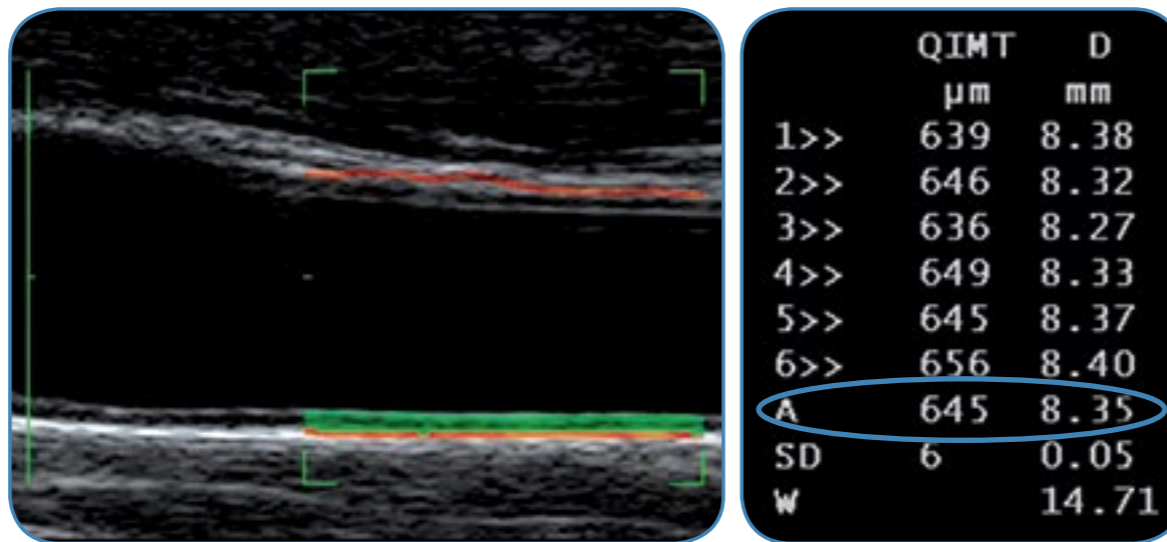
RF-based Quality Intima
Media Thickness (RFQIMT)

Ergonomics

Connectivity

RF-based Quality Intima Media Thickness (^{RF}QIMT)

RF-based Quality Intima Media Thickness (^{RF}QIMT) method is the next generation IMT real-time measurement for high accuracy and reproducibility in early detection of cardiovascular diseases (e.g. diabetes, hypercholesterolemia, hypertension, etc.) and for detecting early atherosclerosis. Based on the direct analysis of the radiofrequency signal, this technique is a gold standard for diameter, changes in diameter and wall vessel measurements with high spatial resolution.



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**RF-based Quality Intima
Media Thickness (^{RF}QIMT)**

Ergonomics

Connectivity

Mobility at the top

The MyLabAlpha is the most advanced portable ultrasound scanner available, thanks to its unique features and unparalleled flexibility.

- Easy Portability
- Innovative “ready-to-go” solutions
- Comfortable workstations
- Wide range of accessories
- Internal battery



Click to enlarge



Productivity
& Simplicity

Premium Performance
Portable Ultrasound

Ergonomics

Mobility at the top

Probe connectors

Wide screen
swivel monitor

appleprobe

Connectivity

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Connectivity

Probe connectors

The new generation Ziff socket connectors are lighter and easier to handle. The pinless technology allows the system to manage a higher number of channels in smaller dimensions.

MyLabAlpha is the only portable ultrasound scanner with 2 probe connectors on-board.



Productivity
& Simplicity

Premium Performance
Portable Ultrasound

Ergonomics

Mobility at the top

Probe connectors

Wide screen
swivel monitor

appleprobe

Connectivity

Wide screen swivel monitor

The MyLabAlpha has a 14" High Definition LCD screen, that can be rotated 90°. Its wide format allows to optimize the layout of the screen, and this is another unique characteristic available only for this exceptional device.



Productivity
& Simplicity

Premium Performance
Portable Ultrasound

Ergonomics

Mobility at the top

Probe connectors

**Wide screen
swivel monitor**

appleprobe

Connectivity

appleprobe

The appleprobe design of the transducers helps the sonographer to reduce musculoskeletal discomfort and strain injuries thanks to the innovative grip, the lightness and small size.

iQProbes



12-2865-2008PD appleprobe
reddot design award
honourable mention 2008



Productivity
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Premium Performance
Portable Ultrasound

Ergonomics

Mobility at the top

Probe connectors

Wide screen
swivel monitor

appleprobe

Connectivity

Easy data export

The MyLabAlpha has 4 USB ports and a CD/DVD burner, ready for exams exporting and peripherals connection.

Its also equipped with a large internal Hard Disk drive that allows to store thousands of clinical cases.



Productivity
& Simplicity

Premium Performance
Portable Ultrasound

Ergonomics

Connectivity

Easy data export

MyLabDesk³ & MyLabApp

Advanced connectivity

DICOM connectivity

Low consumption

MyLabDesk³ & MyLabApp

MyLabDesk³ is a software designed for export, review and post-process ultrasound exams. The SW can be installed by users on personal PC in order to review study acquired on the MyLabAlpha.

MyLabDesk³ SW only viewer is not intended or provided for an official diagnostic interpretation.



MyLabApp



Productivity
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Advanced connectivity

DICOM connectivity

Low consumption

Advanced connectivity

In the rear panel there's a new generation HDMI (High-Definition Multimedia Interface) port, that is useful for external monitor connection with minimal loss of image resolution.

Network connection

With the MyLabAlpha is possible to create a simple or a complex network, in order to integrate the system to an institutional network or to simply connect it to a single user PC, using the LAN (Local Area Network) port.

Integrated Wi-Fi

The MyLabAlpha has the Wi-Fi capability embedded in the system in order to easily connect the system to a wireless device like a mobile device, a wireless printer or an external PC.



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Low consumption

DICOM connectivity

MyLabAlpha system supports the following DICOM service classes:

- Verification service class as the SCU and SCP
- Modality Worklist management service class in the role of SCU
- Modality Performed Procedure Step (MPPS) class in the role of SCU
- Storage service class as a SCU
- Storage Commitment service class as SCU
- DICOM Print SCU

IHE connectivity

Integrating the Healthcare Enterprise (IHE) is an initiative by the healthcare industry and professionals to improve the way computer systems in healthcare share information. System developed in accordance with IHE communicate with one another better, are easier to implement and enable care providers to use information more effectively.



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Low consumption

The MyLabAlpha is an eco-friendly device, thanks to its lower power consumption and minimal heat generator.



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Advanced connectivity

DICOM connectivity

Low consumption



ISO13485:2003 ISO 9001:2008

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