BodyMap: the Esaote GPS Technology
2D navigation within any type of DICOM image

Precisely locating the position of lesions or other anatomical landmarks on real-time ultrasound, while taking advantage of 2D second modality, is a challenge in everyday clinical practice.

Estimating the correct position of the probe according to the mammography, x-rays, and so on, ensuring good precision and ideal tracking would be almost impossible without a GPS-like tracking system.

The answer is Esaote BodyMap: a unique Esaote technology which enables 2D navigation within any type of DICOM 2D image.

BodyMap technology enables the visualization of the probe as a green circle on a second modality image, such as mammography, RX, SPECT-CT, MRI Slice, and more besides.

With standard BodyMap 2D navigation, you can use all of the following modalities:

- B-Mode, Color, Power Doppler and XFlow
- microV: Esaote Advanced Hemodynamic Analysis
- elaxTo: Esaote Real time Elastosonography
- CnTI™: Esaote CEUS Technology

Potential applications with second modalities are limited only by your imagination.
The registration phase can be performed by selecting some easily recognizable natural skin markers on the reference image and on the patient’s body (such as nipple, areola or axilla). With at least three reference points, perfect registration between the real-time US and the reference image for 2D navigation is possible.

The pointing and selection of the reference points is done directly with the US probe, using the center of the array as pointer. Use of the 2D navigation BodyMap technology is always possible, with good correspondence between the probe representation (green circle) and the real probe position during real-time US.

BodyMap is not only a very useful tool for procedure recordings and for teaching purposes, but also a tremendous support for the accurate diagnosis and proper planning of surgery and interventional procedures.

**BodyCamera**

In addition to the possibility of navigating a second modality image, or the graphic representation of a body structure (Bodymark), with BodyMap technology, it is even possible to select a picture taken with the BodyCamera, thus enabling you to shoot a picture or record a real-time video of the area of the patient’s body under examination.