esaote

A Step ahead in Fusion Imaging





Esaote S.p.A.



www.esaote.com



Specifications subject to change without notice
Information refer to products or modalities not approved in all co



Tel. +44 118 965 3500, Fax +44 709 288 0231 benelux@pie.nl infoUK@esaote.com HONG KONG AND FAR EAST CHIN/ Esaote Shenzhen Medical Equipmen 18/F, 135 Bonham Strand Trade Centre, Room 2608, Tower B 135 Bonham Strand, Sheung Wan, Hong Kong Beijing Global Trade Center Tel. +852 2545 8386, Fax +852 2543 3068 36 North Third Ring Road East, esaote@esaotechina.co Dongcheng District, 100013, Beijing

UK

Esaote UK

400 Thames Valley Park Drive,

Reading, Berkshire. RG6 1PT

Tel. +86 010 58257766, Fax +86 010 52257760

NORTH AMERICA Esaote North America, Inc. 8000 Castleway Drive, Indianapolis, IN 46250

Tel. +1 317 813 6000, Fax +1 317 813 6600 info@esaoteusa.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@yandex.ru

Virtual Navigator is not available for sales in the USA.









Fusimaging

Fusion Imaging of Real-time Ultrasound & CT/MR

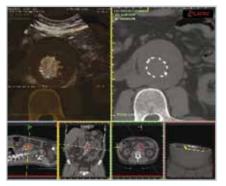
Esaote's Virtual Navigator Technology combines two different imaging modalities: real-time ultrasound scanning and static imaging (e.g. CT/MR) to guide the user inside the human body to reach the desired target.

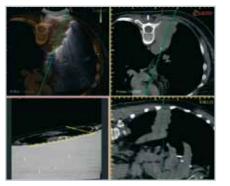
The **Fusion Imaging** and **Tracking System** features result in a perfect correlation of ultrasound and CT/MR images. This can significantly increase the precision and accuracy of image-guided diagnosis and procedures.

The **Virtual Navigator** is the ideal solution to improve practice workflow, for example by identifying internal liver lesions and supporting interventional imaging quickly and easily.

The Virtual Navigator, moreover, allows CT/MR images to be merged with contrast ultrasound real-time scanning, which can increase user confidence through different modalities.

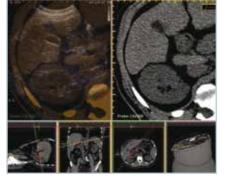
The Virtual Navigator is fully integrated in Esaote's MyLab70 XVision ultrasound system.





a compete

VISION

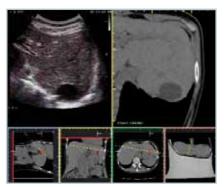


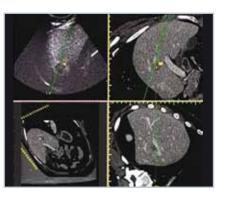
Courtesy of R. Lencioni, MD - Cisanello Hospital, Pisa, Italy; A. Martegani, MD - Valduce Hospital, Como, Italy; L. Solbiati, MD - "Ospedale di Circolo", Busto Arsizio, Varese, Italy.

Exam Procedure

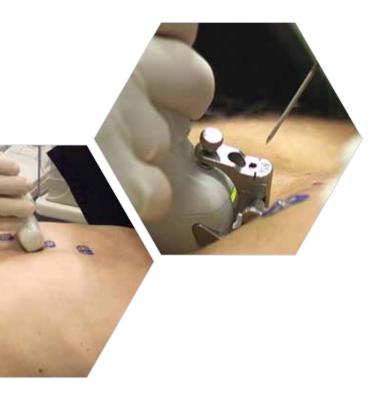
The conventional **Virtual Navigator** examination consists of different phases which allow the operator to obtain the best results in the shortest amount of time:

- > STANDARD CT/MR EXAMINATIONS
- > DICOM DATA LOADING The CT/MR images can be transferred via media or network (PACS).
- > CORRELATION PROCEDURE Virtual Navigator produces the best volume matching due to three different techniques:
- Skin Markers: the best user-independent recording technique. Specific skin markers are applied on the patient before the CT/MR acquisitions. Maintained during the ultrasound scan, the markers allow for automatic spatial correlation.





Virtual Navigator



- Manual: the fast and easy technique for every CT/MR scan. The user can select a random plane on both ultrasound and CT/MR images to be correlated.
- Internal Markers: the advanced feature for internal correlation. The user is free to select the anatomical structures or pathologies of interest (vessel bifurcation, cyst, etc.) as internal positioning markers.

> NAVIGATION - During the real-time ultrasound modality, the user can simultaneously display the same arbitrary CT/MR planes visualized in the ultrasound scanning, maintaining a perfect and precise spatial correlation.

Additionally, **Virtual Navigator's** overlapping feature, double biopsy line and measurements capability on both ultrasound and CT/MR volumes allow the user to receive constant and real-time feedback on the image correlation status.



Fusion Imaging