



General Imaging

# General Imaging

with Specific Solutions



# Our Vision

From the beginning of its activity Esaote devoted a major commitment in understanding and responding to the diagnostic needs perceived as most relevant: accuracy and precision of the clinical image as required by doctors on one hand, quality of diagnosis to improve the quality of life of the patients on the other.

## Prevention

Early management of disease leads to better patient care and reduces Socio-Economic impacts. This is why Esaote has been investing in preventive healthcare for many years.

## Diagnosis

Esaote aims to deliver precise and reliable diagnosis to meet any clinical need. Integrated solutions for data and image management ensure safe and streamlined workflow.

## Therapy

Interventional settings require dedicated features and solutions that allow the accurate treatment of any type of patient. Esaote is committed to providing the shortest and most effective path to patient care.



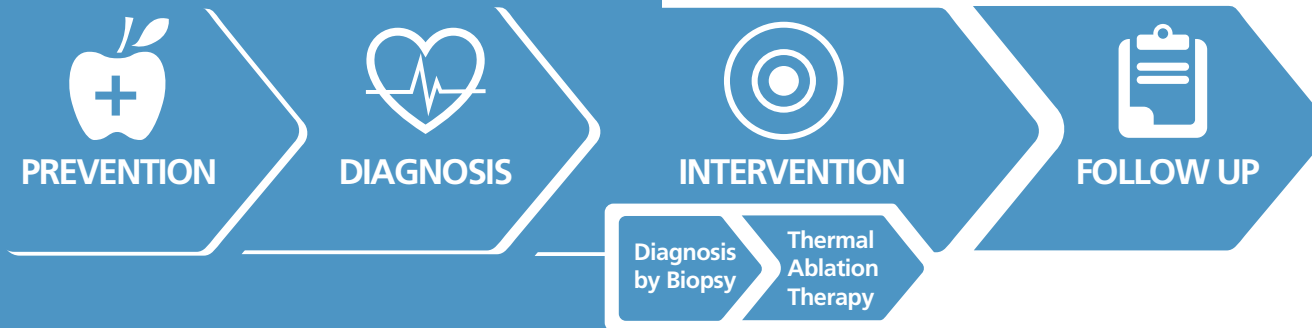
## Prevention and Diagnosis

- Amazing performance with difficult-to-scan patients
- Lesions detection and characterization by using contrast media
- Elastasonography in all districts



## Therapy and Follow-up

- Virtual Biopsy and dedicated special biopsy Probe
- Needle Enhancement
- Fusion Imaging for poorly visualized lesions
- Open surgery dedicated probe
- Imaging-guided procedures



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## Special Probes

- Linear Imaging 5 to 22MHz
- 18MHz Hockey Stick
- Extra-penetration Convex
- Dedicated Central Biopsy
- T-Shape Intraoperative
- Biplane Transrectal
- Laparoscopic and Transesophageal
- Volumetric Imaging



## Education

- Worldwide Reference Centres and International Schools
- Taylor-made Customers Trainings
- Symposia, Seminars and Forums

## Dedicated Probe for Biopsy Guidance and Percutaneous Procedure



- Dedicated biopsy angle: 0°, 5°, 15° and 30°
- Superior Image Quality and Doppler Sensitivity
- Contrast Enhanced Ultrasound Imaging
- Real-time Virtual Biopsy and Fusion Imaging

## Experience Superficial and Surgery Imaging with innovative shape



- Innovative hockey stick probe with high frequency range, 6-18 MHz
- Perfect for Intraoperative, MSK, Rheuma, Vascular, Thyroid and Pediatric
- Ergonomic and agile design

## A probe designed for surgeons by a surgeon



PROBE HANDLING 1

PROBE HANDLING 2

PROBE HANDLING 3



- Wide multi-band frequency probe for both superficial as well as far-field scanning
- Suitable for CnTIm (Esaote's Contrast Tuning Imaging) and ElaXto (Esaote's Elastasonography).
- Enhanced scanning plan thanks to a trapezoidal enlarged field of view
- Compact profile and ergonomic grip for performing compression maneuvers with different handling methods.

# Innovative clinical solutions that increase

Esaote provides the latest and greatest software and hardware upgrade configuration powered by eHD Technology boosting productivity, increasing image quality and adding new techniques.

## Productivity-oriented workflow



### Clinical Need

Increased department efficiency and patient throughput. Reduced exam time.

### Solution

- Double workflow with Annotations, Bodymarks and Measurements's selection from both touchscreen and main display Menu
- "e-touch" Special Button do define tailor-made protocols in one click.

### Advantage

Increased number of patients scanned by ultrasound departments with proper diagnostic confidence.

# productivity, efficiency and create value

## Difficult-to-scan patients

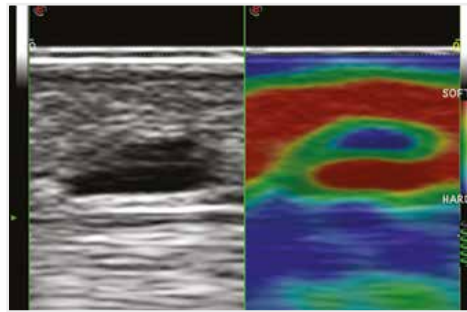


Difficult-to-scan patients are increasing and represents a big challenge in ultrasound.

- Dedicated pulse wave to increase penetration in abdomen: now up to **44.3 cm**
- Arterial phase enhancement while performing **contrast-enhanced ultrasound** procedures with **Esaote's CnTI™** Technology.

Increased number of patients scanned by ultrasound departments with proper diagnostic confidence.

## Elastosonography



Ultrasound elastography to assess lesion stiffness by evaluating tissue distortion in response to stress in different part of the body and pathologies.

Elastosonography is available in Linear probes, Endocavity and Intraoperative and Convex also with **Shearwave Technology**.

Strain elastosonography with advanced analysis tools in all districts and dedicated Shearwave Package.

## Virtual Biopsy

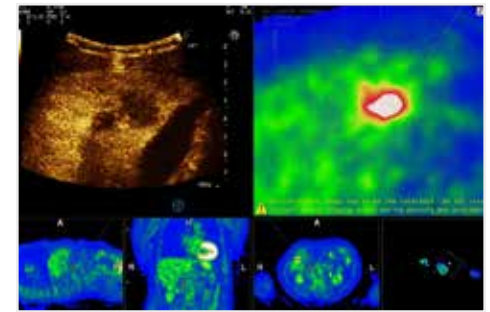


Difficult biopsy on liver and prostate due to deep lesions, small windows, needles not clearly visualized.

Needle can be electromagnetically tracked and is highlighted by the **Virtual Needle in real-time ultrasound plane** and in a special Real-time 3D rendering.

Precise and accurate virtually guided Lesion Targeting: distance to target and directions are specified.

## Fusion Imaging



Increased number of difficult lesions, that needs precise estimation, definition of the best access path and possibly the correlation with other modalities.

Simplified workflow and perfect merge with the **Automatic Registration** of Real-time Ultrasound with MR/CT/PET.

Esaote Fusion Imaging is twice faster and accurate, with on-board video tutorials to support beginners' learning curve.

# Virtual Navigator

**US**

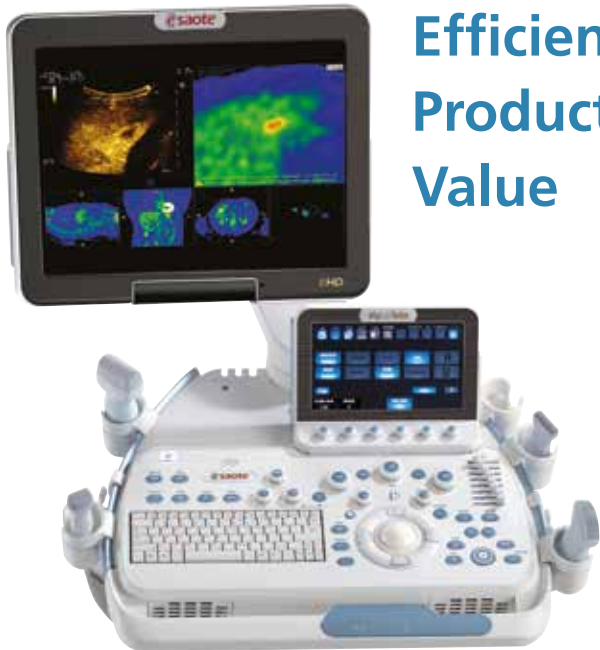
Real-time  
Low cost examination  
No patient irradiation

Fusion Imaging helps the operator, as by second modality imaging indication, to better understand the tissue's morphology under Ultrasound examination.

**MR  
CT  
PET**

Extended field of view  
Not patient depending  
Easy image interpretation

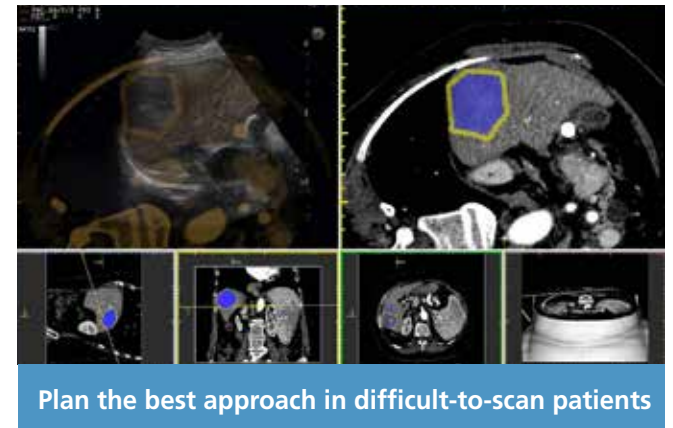
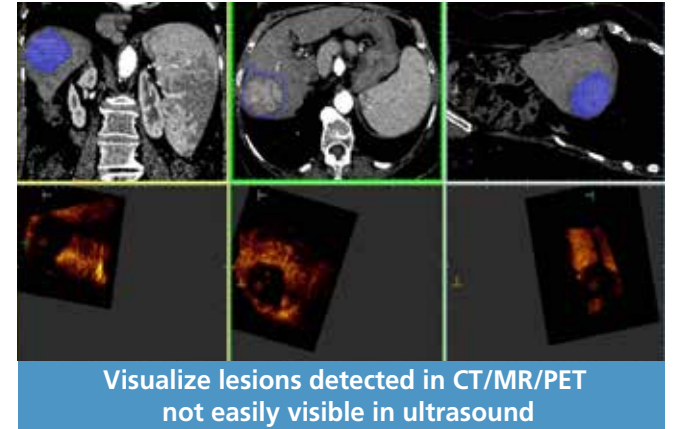
Virtual Navigator takes advantages from all Imaging modalities and match with extended field of view, patient independence and easy interpretation with Real-time, low-costs and without radiations.



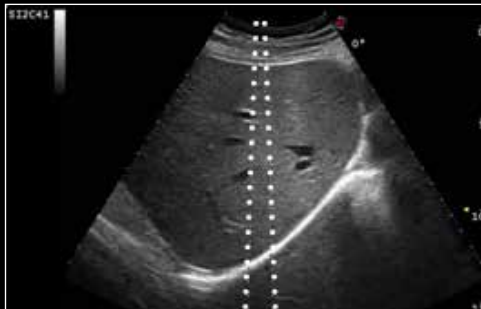
**Efficiency  
Productivity  
Value**

Virtual Navigator aims to support interventional procedures including lesion marking with Automatic Registration, Injections, Drainage, Ablations, conventional Surgery and more, thanks to:

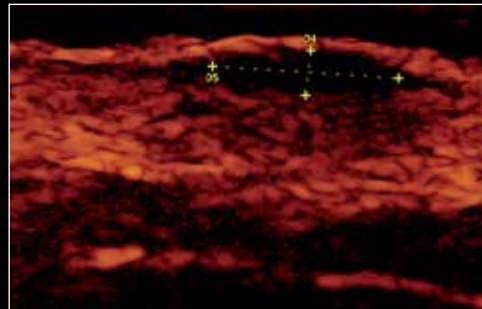
- Semiautomatic delineation of lesion margins
- Computed calculation of lesion volume
- Definition of expected necrotic ellipse
- Needle tracking capabilities



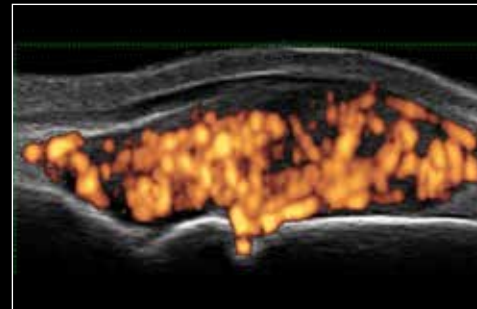
# Covering any clinical need



0 Degrees Biopsy  
CrystaLine Imaging



Superficial Lesion (mole)  
22 MHz Imaging



16.7 MHz Power Doppler  
XFlow Imaging



Muscle Reconstruction  
Panoramic Imaging



Mitral Valve Insufficiency  
Transesophageal Imaging



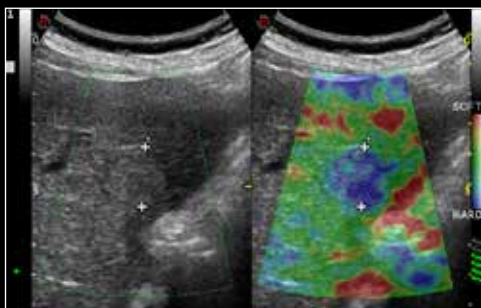
Endo Gynecology  
MView Imaging



Obstetric Measurements  
XView Imaging



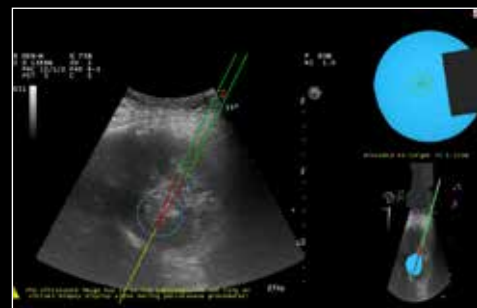
Real Time 3D Scan  
X4D Imaging



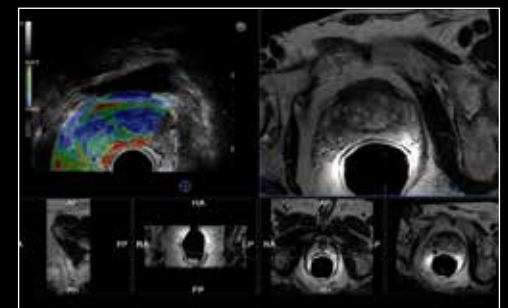
Abdominal Elastosonography  
ElaXto Full Body Package



Liver Lesion  
CnTI™ Imaging



Difficult Biopsies  
Virtual Biopsy



Application Specific Fusion Imaging  
Virtual Navigator



MyLab Alpha    MyLab Seven    MyLab ClassC    MyLab Twice

High-quality Imaging with eHD Technology, contrast media procedures, Fusion Imaging and Elastasonography Imaging are available in console systems and premium performance portable units to perform diagnosis, therapy and follow-up at best.

Superior CrystaLine Imaging	★	★		★★
High-Frequencies 18 and 22Mhz	★	★	★	★
eTouch & Custom Protocols	★	★		
Elastasonography	★	★	★★ <sup>1</sup>	★★★★ <sup>1-2</sup>
Shearwave Elastasonography				★
Contrast Enhanced Ultrasound	★	★	★	★★★★
Volumetric Imaging	★	★	★	★★★★
Special Biopsy Probe Intraoperative Probe	★	★	★★	★★★★ <sup>3</sup>
Hockey Stick Probe 18 MHz	★	★	★	★
Virtual Biopsy			★★★★	★★★★
Fusion Imaging			★★★★	★★★★

<sup>1</sup> Research Package

<sup>2</sup> Linear, Convex and Endocavity

<sup>3</sup> Elastasonography and CEUS



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