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
- Elastosonography 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
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

A probe designed for surgeons by a surgeon

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

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

| Clinical Need | Productivity-oriented workflow
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<td>Increased department efficiency and patient throughput. Reduced exam time.</td>
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| Solution       | • Double workflow with Annotations, Bodymarks and Measurements selection from both touchscreen and main display Menu • “e-touch” Special Button to define tailor-made protocols in one click. |

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

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

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

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

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.

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.

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

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Precise and accurate virtually guided Lesion Targeting: distance to target and directions are specified.
Fusion Imaging helps the operator, as by second modality imaging indication, to better understand the tissue’s morphology under Ultrasound examination.

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.

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

**Efficiency**

**Productivity**

**Value**

**US**
- Real-time
- Low cost examination
- No patient irradiation

**MR/CT/PET**
- Extended field of view
- Not patient depending
- Easy image interpretation

**Real-time**

**Low cost examination**

**No patient irradiation**

**Visualize lesions detected in CT/MR/PET not easily visible in ultrasound**

**Plan the best approach in difficult-to-scan patients**

**Plan Guide the operator to the region of interest easily and quickly best approach in difficult-to-scan patients**
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

Mitrval 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
High-quality Imaging with eHD Technology, contrast media procedures, Fusion Imaging and Elastosonography 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
- Elastosonography
- Shearwave Elastosonography
- Contrast Enhanced Ultrasound
- Volumetric Imaging
- Special Biopsy Probe
- Intraoperative Probe
- Hockey Stick Probe 18 MHz
- Virtual Biopsy
- Fusion Imaging

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