



*Megas* **GPX**



G E N E R A L P U R P O S E



# The Ideal Solution

**ESAOTE**  
THE IMAGE OF INNOVATION™

# The Ideal Solution...



## **Digital Platform**

Megas GPX is the new Ultrasound Scanner designed by Esaote to fully meet all the requirements of General Purpose applications.

Thanks to its compact dimensions, the system can be used in different situations, even the most difficult ones, such as surgery and emergency rooms.

Megas GPX flexibility and upgradability make it the leader in both public and private environments for radiology, internal medicine, vascular studies, obstetrics, neonatology and cardiology.

## **Diagnosis and Therapy**

Using the most up-to-date technologies, Esaote has developed the "Diagnosis and Therapy" package, which includes a dedicated probe, a needle guide kit for biopsy and radiofrequency and advanced software for Contrast Agent Management.

Our special interventional probes, integrated with the "Diagnosis and Therapy" tools will ensure safe and easy procedures in most body districts.

## **Advanced Performance**

Megas GPX is a revolutionary machine created to meet high-level clinical requirements such as the CnTI Technology developed specifically to use Second Generation Contrast Media in Real Time - Low Mechanical Index examinations.

It includes a Real-Time Archive module and complete compatibility with DICOM® standard protocols.

Megas GPX offers expandable configuration in a transportable case of reduced size!



- High-Tech Configuration
- Color and Power Doppler
- PW and Steerable CW Doppler
- Integrated Stress-Echo
- Tissue Enhancement Imaging (TEI™)
- Contrast Agents Management
- New Advanced Transducers
- Diagnosis and Therapy Module
- Network Connection
- DICOM® Capability
- Archiving, Reporting and Printing

## ...for all Applications



### Versatility and High Quality Standard

Megas GPX was developed to provide complete, high quality operation and adaptability to different requirements and situations.

Using the same technology as in the premium systems, Megas GPX ensures high B-Mode image quality so that it can be your reliable every day companion, wherever you are: in hospital, clinical and private environment.

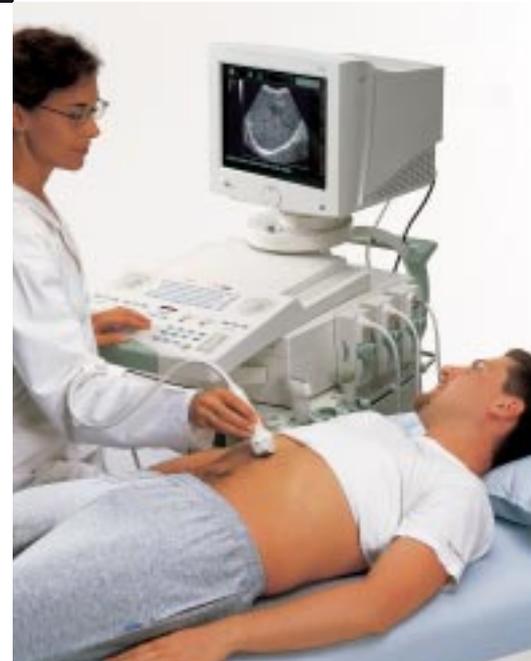
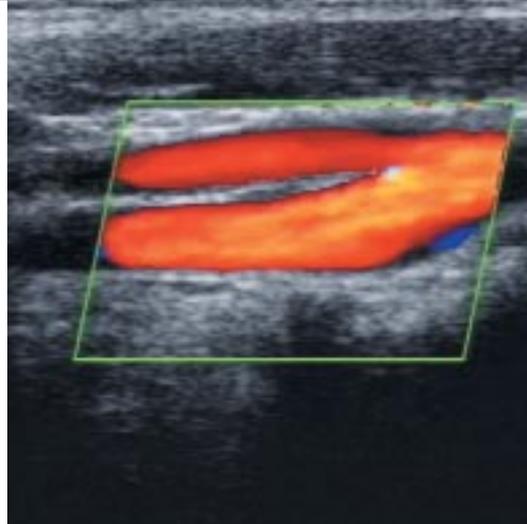


### Color and Power Doppler

Megas GPX includes a Color and Power Doppler module with high sensitivity and frame rate, which enables the finest details in high-speed flows and maximum sensitivity in extremely low-speed flows.

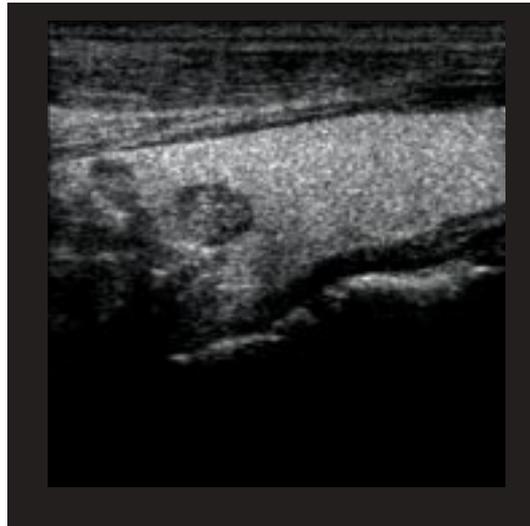
The Color Signal has been enhanced with a noise-free algorithms and the introduction of new Color Doppler maps provide the easiest diagnosis.

- Abdominal
- Vascular
- Cardiological
- Gynecological
- Obstetric
- Small parts
- Pediatric
- Interventional
- Laparoscopic
- Intraoperative
- Transcranial



## Tissue Enhancement Imaging (TEI™)

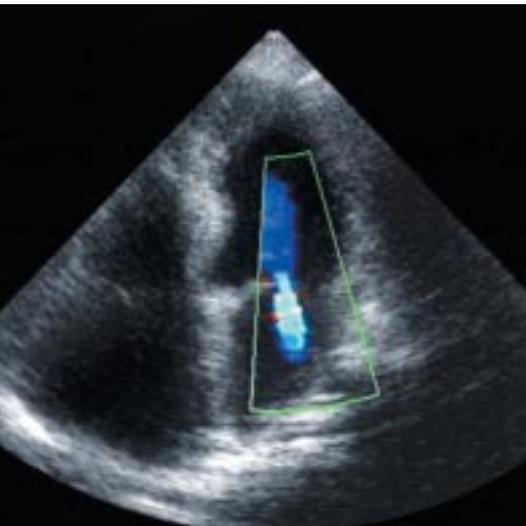
Megas GPX, by analyzing the harmonic signals, accurately detects any difference in tissue density, reducing noise and enhancing the resolution. Thanks to the Penetration and Resolution modalities even the most difficult patients can be studied in the easiest way.



## The Transducers

You will have the best diagnosis in cardiology, abdomen, small parts, thanks to a wide range of probes covering all the frequency spectrum. In addition, high-tech special probes cover any specific application:

- endocavitary
- microconvex
- bioptic convex probe complete of needle guide
- laparoscopic probe
- intraoperative probe

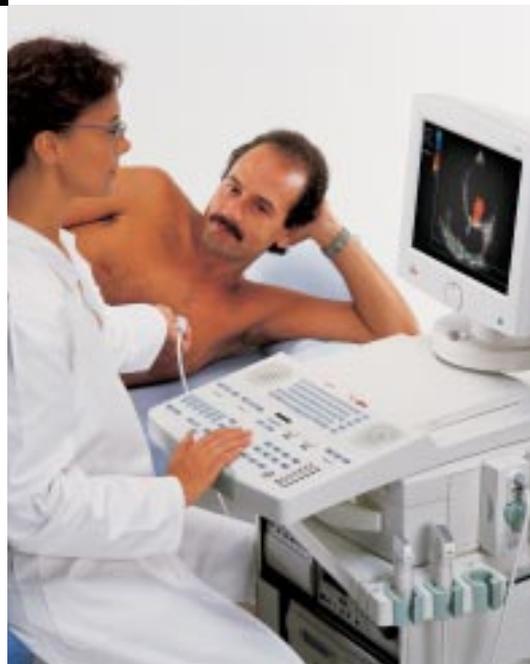


## Archiving, Printing and Connectivity

The Megas GPX digital platform can communicate with the outside world. The Real-Time Archiving modality, the direct connection to a PC and the printing to a standard ink jet printer will satisfy your everyday needs.

The interconnection via DICOM® protocols provides standard communication across the network.

The new Biopacs™ multilanguage workstation represents a complete and ergonomic interface for clinical data management and a new reference for contrast ultrasound examinations.



# CnTI™ Contrast Tuned Imaging



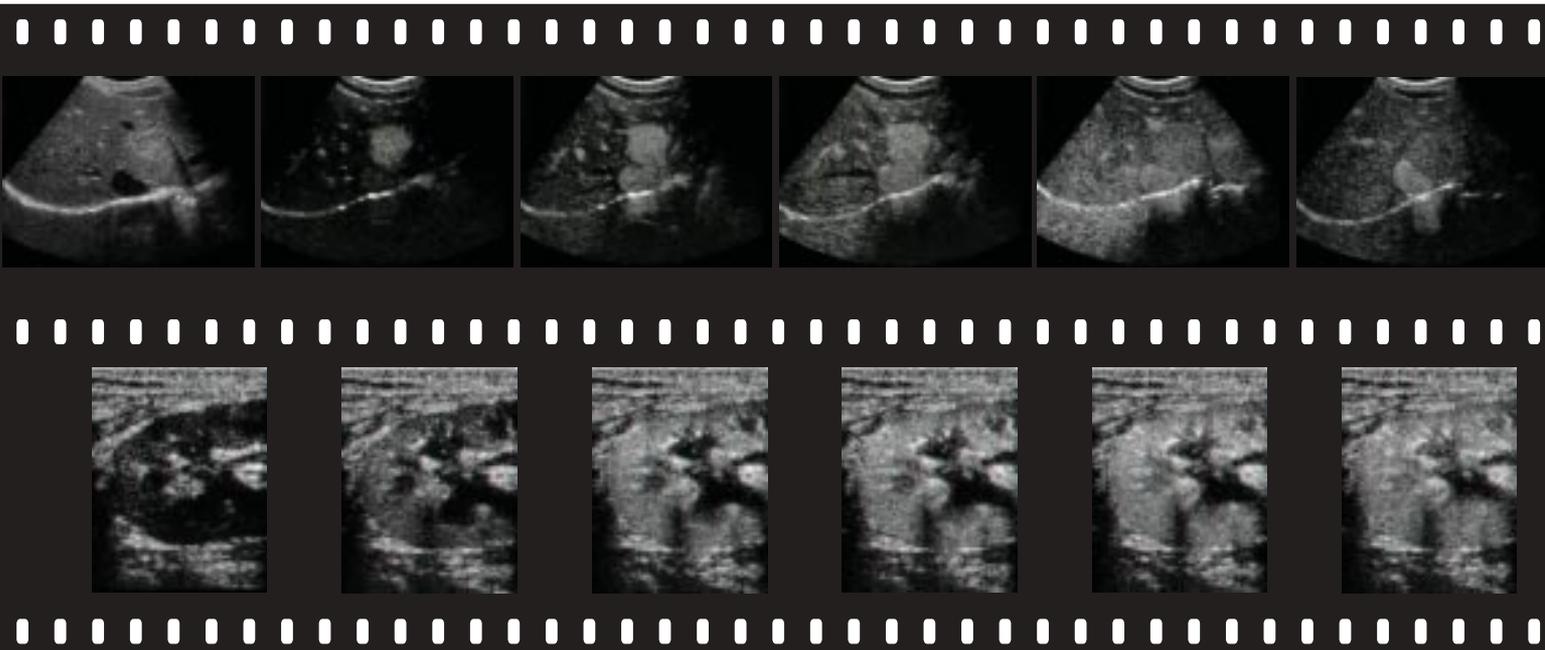
## Using Second Generation Contrast Agents

CnTI™ Technology, fruit of our Advanced Research Labs, enables you to use the new Second Generation Ultrasound Contrast Agents. Based on a Low Mechanical Index during Real-Time scanning, it achieves striking diagnostic results in the detection and characterization of lesions. The system selectively tunes the echo coming from the contrast agents, eliminating all useless-for-diagnosis signals without destroying the microbubbles, so that you can work in Real-Time. Using high-frequency transducers, CnTI™ technology permits a revolutionary approach to vascular and small part applications while the Phased Array Probe enables to discover the latest frontiers in cardiac diagnosis.

## Imagine the same sequences in Real-Time

### Sequence 1

Characterization of FNH (Focal Nodular Hyperplasia)



### Sequence 2

Vascularization with contrast of transplanted kidney



# Probes Family





**Megas GPX**



EN 46001 ISO 9001  
ISO 13485



DICOM® is a registered trademark of National Electrical Manufacturers Association  
Windows NT® is a registered trademark of Microsoft Corporation  
Pentium® is a registered trademark of Intel Corporation  
contrast module is under license of SCHERING Patent N. EP 0357164



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