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## **Esaote MRI and Ultrasound Launches at ECR**



Esaote is launching its next generation imaging technology in Dedicated MRI and Ultrasound at ECR in Vienna.

The eHD and eXP Technology, in Ultrasound and Dedicated MRI respectively, represent step-change innovations in the accuracy, quality, speed and flexibility of imaging technology.

“What we are launching represents a complete re-thinking and re-engineering of our technologies in Dedicated MRI and Ultrasound,” said Claudio Buffagni - Global Marketing Director at Esaote. “Our vision, investment and intense technical focus has enabled the realisation of technology capable of serving the demands of medicine now and for another generation.”

### **eHD Ultrasound Technology**

eHD is the culmination of a complete re-engineering process through the image capture, processing and display interfaces of Esaote’s MyLab™ ultrasound systems.

The eHD Technology features the eHD Pulsar creating optimal ultrasound beam waveform for ultimate image clarity with no frame rate reduction. eHD has also been applied to Esaote’s iQProbe to improve transducer bandwidth and deliver increased signal sensitivity. An appleprobe grip configuration provides greater operator control and comfort.

□ eHD features key software development to reduce interference and deliver better visibility of internal structures and improved readability and diagnosis. Esaote’s advanced Doppler technology has been updated with the introduction of eHD CFM which offers optimised vessel border detection with increased sensitivity and depth. For high resolution, high definition work, eHD XFlow is available to maximise spatial resolution and Doppler signal penetration.

Inside every Esaote eHD Technology optimised system is an array of the latest visualisation tools and technologies including Virtual Navigator and multi dimensional imaging capability, ensuring the very best diagnostic image is available to the operator in the most relevant format.

### **eXP MRI Technology**

Already acknowledged as a world leader in musculoskeletal Dedicated MRI systems, eXP pushes Esaote’s systems ever faster with more accurate acquisition and reconstruction processing for improved image quality. Scan times are dramatically reduced, as are overall power consumption and running costs.

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To increase the speed of image acquisition and reconstruction, eXP combines powerful GPU hardware with advanced software, producing superior quality images with substantially reduced scan times. For example, Fast Spin Echo (FSE) sequences can be obtained up to 40 percent faster with eXP Technology.

eXP features improved methods to manage the Echo Train Length combined with highly sophisticated algorithms for the acquisition and reconstruction of the K-space to improve diagnostic accuracy. Similarly, the use of Metallic Artefact Reduction (MAR) technique reduces artefacts and improves diagnostic quality when imaging patients with metallic implants.

A full product demonstration of eHD and eXP Technology are available at the Esaote website.  
<<http://www.esaote.com>>

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