



Creativity in Healthcare

## **EVOLUTION'14, THE LATEST IMAGING SYSTEM UPGRADE PACKAGE FROM ESAOTE: KEEPS USERS 'ONE STEP AHEAD' THANKS TO IMPROVED WORKFLOW, HIGH DIAGNOSTIC CONFIDENCE AND ENHANCED PATIENT THROUGHPUT – FOR ALL DEDICATED MRI SYSTEMS**

25<sup>th</sup> August [GENOA, ITALY] **Esaote**, one of the world's leading manufacturers of medical diagnostic systems, introduces **Evolution**, the latest version of its continuous improvement program: with **Evolution'14** ongoing close collaboration between clinicians and Esaote's R&D team ensures that the Esaote range of Ultrasound, Dedicated MRI and Healthcare IT products remains at the cutting edge in terms of software and hardware capability, increasing the value of the investment.



**MRI EVOLUTION'14, with eXP technology and coil upgrades, brings improved workflow, high diagnostic confidence and enhanced patient throughput for all dedicated MRI systems.**

- **Increased image quality** without extending exam time, thanks to eXP technology, a combination of sophisticated software algorithm (SpeedUp technology) and graphic processing unit (GPU)
- **Reduced acquisition time** by as much as 30%, with the latest eXP technology
- **Increased signal homogeneity and SNR** thanks to the multichannel lumbar and cervical spine coils

With this new eXP technology, Esaote has achieved a reduction in scan time of up to 30%, which translates into a consistent increase in patient throughput, thus improving system economics. Eugenio Biglieri, MRI Global Marketing Director explains, “The eXP technology developed for the Evolution'14 upgrade has been engineered to achieve the ‘seemingly impossible’: improve image quality yet reduce scan time.”

Along with further ‘evolutions’, customers can keep pace with healthcare’s changing landscape, run their MRI services more efficiently, and provide a competitive edge - well into the future.

### **eXP Technology Boosts Efficiency**

The new eXP upgrade improves efficiency by enhancing diagnostic visualization and enabling smoother integration in evolving environments. The upgrade includes the new **SpeedUp** technique for improved workflow by reducing acquisition and reconstruction times by up to 30%. Since SpeedUp can be applied to almost all 2D and 3D pulse sequences used in daily practice, physicians can expect substantial workflow and improved patient throughput.

The new upgrade also includes new **imaging sequences** that increase signal to noise ratio, yet also reduce scan time. Visualization is improved using enhanced image contrast and metallic artefact reduction (**MAR**) technology.

Operators will achieve further improvements in terms of a reduction of examination times through the use of advanced multitasking, protocol automation and faster sequences.

### **eXP Advanced Spine Package**

The new **eXP Advanced Spine Package** boosts the quality of Esaote's S-scan or G-scan MRI systems. The new advanced spine coils feature multiple phased arrays that work in parallel to extend anatomical coverage, improve image quality while assuring fast patient positioning and comfort.

- **Phased array C-spine coil**

The new C-spine coil creates a homogenous field of view all the way to the edges of the coil, providing an extended view of patient anatomy.

A complete set of pads enhances patient comfort, and the spacious design comfortably accommodates larger patients.

- **Phased array L-spine coils**

To accommodate a wider range of L-spine and hip patients, the package includes a medium and large L-spine coil. Each coil comprises four phased array channels which deliver better signal uniformity throughout the field of view to visualize deep anatomy with more clarity and precision. Improved signal to noise ratio increases image clarity, and better uniformity improves overall image quality. Multiple coil sizes ease patient positioning, and a complete set of pads enhances patient comfort during the examination.

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#### **About Esaote**

With €276.1 million in consolidated sales in 2013 (of which 65% were generated from international markets), Esaote Group is a leading player in the biomedical equipment sector, with a particular focus on ultrasound, dedicated magnetic resonance, and software for managing the diagnostic process. Esaote has over 1,335 employees, 19% of which are employed in R&D activities. Esaote has industrial and research units in Italy (Genoa, Florence, Naples), the Netherlands (Maastricht) and China (Shenzhen). Esaote is internationally recognised as one of the "**Top Ten**" diagnostic imaging companies in the world and enjoys the co-operation of worldwide scientific and clinical research centres and universities. Esaote has filed more than 120 international patents.

Information about the Esaote Group and its products is available at [www.esaote.com](http://www.esaote.com)

Technology and features are system/configuration dependent. Specifications subject to change without notice. Information might refer to products or modalities not yet approved in all countries. For further details, please contact your Esaote sales representative.