GE Healthcare

READY View

Quantified MR image analysis to help enable accurate, confident diagnoses.

Specialized Magnetic Resonance Imaging (MRI) methods such as diffusion weighted MR (DW-MR), dynamic (time-course) MR, spectroscopy, and functional methods have evolved to the point where they are able to provide unique measurements of tissue properties.

A multi-parametric MR approach generates zones within a lesion that reflect heterogeneity and often display characteristic patterns. These attributes have proven to be useful in the diagnosis of tumors, monitoring tumor growth, and guiding biopsies. Consequently, multi-parametric studies are often used in stroke diagnosis and in the diagnosis of cancer related lesions.

While extremely useful, quantifying the information from multi-parametric studies can be very challenging and time consuming. READY View streamlines multi-parametric analysis.

Overview

READY View helps you get the most from multi-parametric exams by enabling analysis of MR data sets with multiple images for each scan location. The user experience driven framework offers a combination of protocols and tools that help you make quantified analyses of multiple data sets quickly and easily.

READY View is available on VolumeShare 7, a multi-modality advanced visualization workflow solution that helps to enhance diagnostic precision and productivity.

Highlights

- Guided workflows with intelligent display based on smart layout to help analyze MR data.
- Adapt your application to fit personal and institution requirements for more standardized analysis and improved productivity
- Provides additional clinical information through (relative) ROI measurements curves, spectra and color parametric images.
- Enables fusion of color parametric images with anatomical 2D or 3D images with simple "drag and drop" method.
- Provides adaptive protocols for multi-parametric data processing.
- Enables MR to MR image registration to reduce patient motion effects.
- Accessible from PC, laptop, PACS/RIS workstation for streamlined workflow.

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Features

- Analyze the following type of MR data sets:
  - Time series
  - Diffusion weighted scan
  - Diffusion tensor scan
  - Variable echo imaging
  - Blood oxygen level dependent imaging
  - Spectroscopy (single voxel and 2D or 3D CSI)
  - Elastography[1] imaging
- Simple workflow to process and fuse functional data.
- Select and process functional data with One Touch single click capability.
- READY View automatically selects the most relevant protocol for you.
- Efficient multi-contrast exam reading using MR General Review based on smart layout technology.
- Adaptive multi-parametric protocols as guided workflow to streamline processing and analysis of multi-parametric studies.
- Display all multi-parametric images and get all related functional values from a single ROI deposition.
- Fully customizable workflows with adjustable layouts, personalized parameter and settings, custom review steps.
- Easy-to-use slide bars let you segment parametric images in real time.
- Display and export ROI statistics from the Summary table
- Export graph values as csv file
- Save State let you save and restore the state of the processed images at any stage.
- Contextual help pages that give general assistance about the image processing algorithms.
- Save all generated parametric images in one click.

System Requirements

- AW Server 3.1 and above and recommended monitor resolution is up to dual 2MP (1600 × 1200) or a single 3MP (1536 × 2048).
- AW VolumeShare7 Workstation and above
- Centricity™ Universal Viewer[2]

Software Requirements

- Integrated Registration is a prerequisite
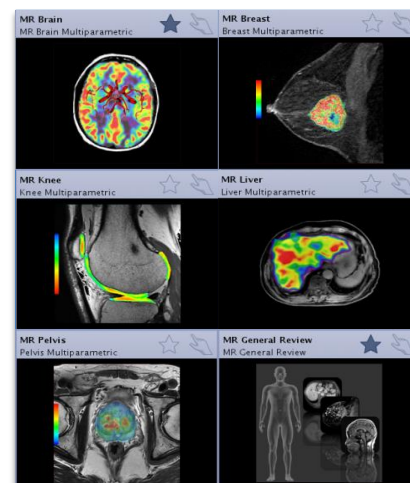- Certain functions require Body View, Brain View and MR Touch options

Indications for Use

READY View, is an image analysis software that allows the user to process dynamic or functional volumetric data and to generate maps that display changes in image intensity over time, echo time, b-value (diffusion imaging) and frequency (spectroscopy). The combination of acquired images, reconstructed images, calculated parametric images, tissue segmentation, annotations and measurement performed by the clinician enables a multi-parametric analysis and may provide clinically relevant information for diagnosis.

Regulatory Compliance

This product complies with the European Council Directive 93/42/EEC Medical Device Directive as amended by European Council Directive 2007/47/EC

GE imagination at work