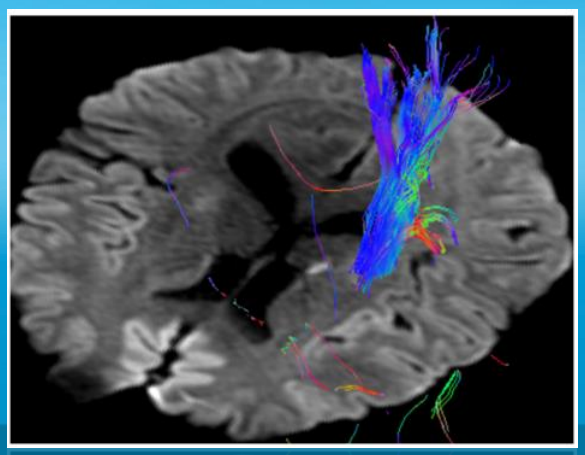
GE Healthcare



Brain View

Beyond conventional brain anatomical images.

Advanced Magnetic Resonance Imaging (MRI) methods such as Spectroscopy, Diffusion Weighted Imaging (DWI) and Diffusion Tensor Imaging (DTI), Time Course series, and Functional Imaging have significantly improved the ability to image conditions of the brain. Beyond conventional anatomic and structural data, these advanced techniques provide physiological information on metabolism and hemodynamics.

Overview

Integrated with the READY View platform, Brain View offers you advanced techniques designed for easy and confident analysis of information from a variety of MR brain-specific imaging data sets.

Brain 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 and color parametric images.
- Enables fusion of color parametric images with anatomical 2D or 3D images with simple “drag and drop” method.
- Provides an adaptive protocol for brain 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

Brain View offers four advanced protocols:

- Arterial Spin Labeling (ASL) for contrast-free assessment of cerebral blood flow. ASL uses water in arterial blood as an endogenous contrast media to visualize tissue perfusion and help evaluate vascular-deficient or vascular-rich brain regions.
- BrainStat with Gamma Variate Fitting (GVF).
- BrainStat with deconvolution of arterial input function (AIF) and time series 1-Click motion correction. It generates hemodynamic information such as
  - relative Cerebral Blood Flow (rCBF)
  - relative Cerebral Blood Volume (rCBV)
  - Mean Transit Time (MTT)
  - Time To Peak (TTP)
  - Bolus Arrival Time (BAT)
  - Time to maximum value of the residue function (Tmax).
- FiberTrak for tracking White Matter fibers in all orientations & restore them with Save State. FiberTrak provides detailed information on tissue microstructure by reconstructing fiber pathways from diffusion tensor series.
- Brain View offers an adaptive protocol to process multi-parametric brain data. This factory protocol is adjustable and can be customized to fit your personal requirements in terms of
  - display & workflow (layouts, review steps)
  - parameters and settings
- 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 x 1200) or a single 3MP (1536 x 2048).
- AW VolumeShare7 Workstation and above
- Centricity™ Universal Viewer[1]

Notes:

[1] AW Server 3.1 is not compatible with Centricity Universal Viewer

Software Requirements

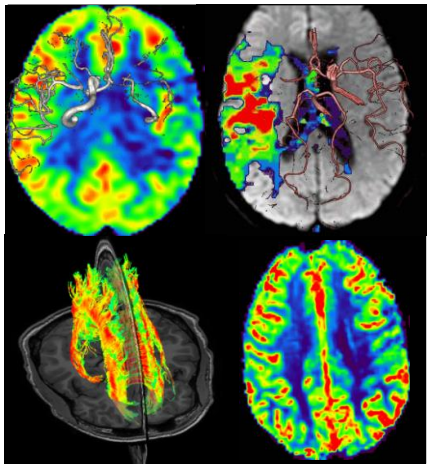
- Brain View requires READY View as prerequisite.

Product Description

Brain View, is an image analysis software option of READY View that allows the user to view and process Magnetic Resonance (MR) images of the brain.

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

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