



cvi⁴²_cmr⁴²

Comprehensive MR cardiac post-processing and visualization solution for clinical and research cardiac needs.

cvi⁴²_cmr⁴², distributed by GE for Circle Cardiovascular, is a leading application that offers a complete and comprehensive toolset and workflow for the evaluation of any cardiovascular MR images. The software runs on the AW workstation or AW Server.

Automated algorithms and contour tools with an intuitive and adaptable toolset in cvi⁴²_cmr⁴² allow for rapid analysis with exceptional accuracy included detailed quantitative analysis and reporting. This results in beneficial time savings for physicians and improved patient management.

cvi⁴²_cmr⁴² is available on VolumeShare 7, a multi-modality advanced visualization workflow solution that helps to enhance diagnostic precision and productivity.

Features

- View 2D, 3D
- 4D and MPR modules are available on AW4.7 only
- Compose series
- Multi-planar reformat
- Heart function
- Tissue characterization
- T1 mapping
- T2 mapping
- Perfusion
- Reporting available to share images & quantitative values

Highlights

- All cardiac MR viewing and analysis in a single package
- Intelligent data management – series sorting, protocols, window/level settings
- Synchronization options for cine, zoom and contour
- Modular structure allows fast integration of new protocols
- Fully customizable to adapt to various user preferences
- Automated report population and generation
- Reproducible algorithms
- Quantitative analysis
- Sub-pixel analysis
- Supports multi-vendor data
- Dual Screen functionality only on AW Server
- 4D and MPR functions only on AW workstation
- Accessible from AW 4.7 or AW Server 3.2



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System Requirements

- AW Server 3.2 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

Software Requirements

- Volume Share 7

Regional Availability

cmr⁴² is available in Austria, Belgium, Canada, Cyprus, France, Germany, Iceland, Ireland, Israel, Italy, Kuwait, Liechtenstein, Luxemburg, Malta, Netherlands, Philippines, Poland, Qatar, Saudi Arabia, Slovenia, Spain, South Africa, Switzerland, Thailand, United Kingdom and United States.

Indications for Use

cmr⁴², a module within cvi⁴², is intended to be used for viewing, post-processing and quantitative evaluation of cardiovascular magnetic resonance (MR) images in a Digital Imaging and Communications in Medicine (DICOM) Standard format. It enables;

- Importing cardiac MR images in DICOM format

- Supporting clinical diagnostics by qualitative analysis of the cardiac MR images using display functionality such as panning, windowing, zooming, navigation through series/slices and phases.
- Supporting clinical diagnostics by quantitative measurement of the heart and adjacent vessels in cardiac MR images, specially distance, area, volume and mass.
- Supporting clinical diagnostics by using area and volume measurements for measuring LV function and derived parameters cardiac output and cardiac index in long axis and short axis cardiac MR images.
- Flow quantifications based on velocity encodes images.

It shall be used by qualified medical professionals, experienced in examining and evaluating cardiovascular MR images, for the purpose of obtaining diagnostic information as part of a comprehensive diagnostic decision-making process. cmr⁴² is a software application that can be used as a stand-alone product or in a networked environment.

The target population for the cmr⁴² is not restricted, however the image acquisition by a cardiac magnetic resonance scanner may limit the use of the device for certain sectors of the general public.

cmr⁴² shall not be used to view or analyze features of any part of the body except the cardiac magnetic resonance images acquired from a cardiovascular magnetic resonance scanner.

