

APPLICATION

Vitreia software is an advanced visualization system providing comprehensive applications in a variety of IT environments.

APPLICABLE COMBINATIONS

The clinical solutions are applicable to the following systems:

- Canon Medical Systems MRI System

Supported Scanners	System Version
Vantage Centurian	V6.0 or later
Vantage Galan 3T	V4.0 or later
Vantage Titan 3T	V2.30 or later
Vantage Orian	V4.5 or later
Vantage Fortian	V8.0 or later
Vantage Titan	V2.31 or later
Vantage Elan	V3.0 or later

- Applicable Combinations of Olea Medical® Applications and MRI

	Vantage Centurian	Vantage Galan 3T	Vantage Titan 3T	Vantage Orian	Vantage Fortian	Vantage Titan	Vantage Elan
Relaxometry T2* map	V6.0 or later	V4.0 or later	V2.50 or later	V4.5 or later	V8.0 or later	V3.6 or later	V4.0 or later
Relaxometry T2 map			V3.5 or later				
Metabolic			V2.50 or later				
IVIM			V3.5 or later				

SUPPORTED DICOM AND DATA MANAGEMENT SERVICES

- DICOM® 3.0 export
- DICOM query/retrieve
- DICOM storage as SCU and SCP (receive and push)
- DICOM printing
- DICOM archival CD/DVD

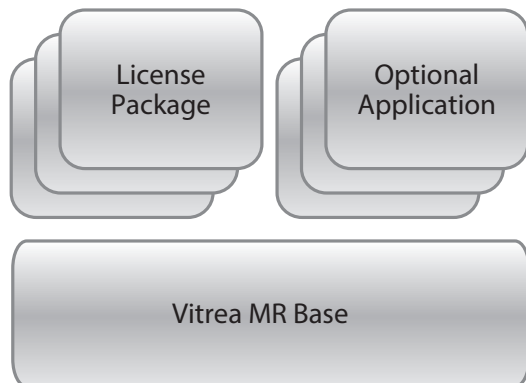
SECURITY STANDARDS

- Controlled user access

HARDWARE CONFIGURATION

Please refer to the latest version of Vitrea Advanced Visualization Technical Specifications document.
Product Data No. "MPDHI0017Exx".

SOFTWARE CONFIGURATION



SUPPORTED MONITOR RESOLUTIONS

All applications except the following are compatible with the 27-inch widescreen (native resolution : 3840 × 2160)

- MR Wall Motion Tracking Multi Chamber
- MR Coronary Tracking

VITREA MR BASE

Model Name: VLO-VMR/LO

This package is the foundation of Canon Medical Systems' advanced visualization. It includes 2D, 3D and 4D viewing with image subtraction and time intensity analysis. Post-processing tools such as whole body stitching and vascular analysis are available along with basic export and reporting.

Base Features

- Study List
 - Sortable and filterable listing of all studies
 - Customizable study list
 - Series thumbnail display indicates available series
 - Creation of user specific worklist filters to optimize data searching/selection for users
 - Interactive thumbnails for quick study/series preview
 - Launch directly into 2D or 3D workflow for a study or series
 - Intelligent Application Launcher automatically selects the data that matches the desired application
 - Results tab with viewable findings, exporting, deletion and report review
- Report Editor
 - Slide Tray containing snapshots, batches and movies saved in the Viewer window
 - Quick preview for snapshots, movies and batches
 - Multi-selection for direct DICOM export, adding to report page or deletion
 - Snapshot restoration
 - Report templates including protocol-based text report pages or image formats with various configurations
 - Report header that includes user configurable information
 - Ability to add comments and arrows to the images
 - Printing of the report on DICOM (on workstation only) or Postscript format printers, exporting to a DICOM image archive, posting on Vitrea software's Web server, recording on a CD or DVD, or exporting to a MS Word document.
- Data Publishing
 - Capture of key images and batches for export to PACS/EMR
 - Creation of movies for presentations
 - Export images in PNG, DICOM, and AVI format
 - Windows® and plain paper printing
 - Detailed image information retrieval from DICOM header
 - Create a CD or DVD with a viewer
- Built in user guide help available within each application
- Monitors*¹
 - Supports dual monitor with the same resolution to display both of data list and application on the same screen.

Applications

- Multi Modality Viewer
- MR Stitching
- Vitrea Peripheral Vessel Probe
- Global Illumination
- MR Vascular Analysis
- MR Abdominal Analysis
- MR Musculoskeletal
- MR Brain Tumor Analysis
- MR Breast

Optional Applications

- Filming (VLO-FILM/LO)
- SURE Volume Synthesis (VLO-VSYNTH/LO)

*1: Not compatible with PACS Integration

MR PACKAGES

Application	MR Body DWI Package	Vitre MR Basic Suite* ²	Vitre MR Neuro Advanced Package	Vitre MR Body Advanced Package	Vitre MR Breast Advanced Package	Vitre MR Ortho Expert Package	Vitre MR Cardiac Expert Package* ³	MR Strain/ Coronary Analysis* ³
Body DWI Score	✓							
DWI Stitching	✓							
Olea DWI option		✓			✓			
Olea Perfusion option		✓						
Olea Kinetics option		✓						
Olea Analysis option		✓						
Olea Mono Followup option		✓						
Olea MR Acute Care Stroke option		✓						
Olea MR Stroke DWI option		✓						
Olea Brain Tumor Streamlined option		✓						
Olea Head Neck Streamlined option		✓						
Olea Breast Streamlined option		✓						
Olea Female Pelvis option				✓				
Olea Prostate Streamlined option		✓						
Olea DTI option			✓					
Olea Permeability option			✓	✓				
Olea ASL option			✓					
Olea Brain Tumor Expanded option			✓					
Olea Brain Tumor DSCDCE Expanded option			✓					
Olea Brain Tumor DCE option			✓					
Olea Head Neck Expanded option			✓	✓				
Olea DTI Spine option			✓					
Olea IVIM option			✓	✓				
Olea Metabolic option				✓				
Olea Relaxometry option			✓	✓		✓		
Olea Breast Expanded option				✓				
Olea Prostate Expanded option				✓				
Olea Rectum Streamlined				✓				
Medis® Suite Cardiovascular MR							✓	
MR Wall Motion Tracking Multi Chamber							✓	✓
MR Coronary Tracking							✓	✓
Olea MSK Cartilage option						✓		
Olea Multi Followup								
Olea MSK Onco Inflammatory				✓				
Olea MR Breast Advanced					✓			
Olea MR Breast Biopsy								
Olea Functional MR (fMRI)* ⁴								
Medis 4D Flow* ⁵								
Medis QStrain* ⁵								

*2: MR Basic Suite is required to add and use Vitrea MR Neuro Advanced Package, Body Advanced Package, and/or Ortho Expert Packages.

*3: MR Cardiac Expert Package and Strain/Coronary Analysis do not require MR Basic Suite before they can be added and used.

*4: When this option is purchased, Vitrea MR Basic Suite and Vitrea MR Neuro Advanced Package need to be purchased.

*5: When this option is purchased, Vitrea MR Cardiac Expert Package needs to be purchased.

MR BODY DWI PACKAGE

Model Name: VLP-MBDWI/LO

MR Body DWI Package includes the Body DWI Score application and DWI Stitching application. It helps users for quantitative evaluation of specific areas such as tumors in whole body DWI examination.

Applications

- Body DWI Score
- DWI Stitching

VITREA MR BASIC SUITE

Model Name: VLP-BASUITE/LO

MR Basic Suite includes Diffusion, Perfusion, Curve Kinetics with streamlined application workflows across many different organs. This package provides access to features which enhance the clinical routine.

Applications

- Diffusion Weighted Imaging (DWI)
- Dynamic Susceptibility Contrast (DSC) Perfusion
- Kinetics
- Analysis
- Mono Follow-up

Application Workflows

- MR Acute Care (Stroke)
- MR Stroke DWI
- Brain Tumor Streamlined
- Breast Streamlined
- Prostate Streamlined
- Head and Neck Streamlined

VITREA MR NEURO ADVANCED PACKAGE

Model Name: VLP-MNEUAD/LO

MR Neuro Advanced Package includes Diffusion Weighted/Fiber Tracking, Permeability, ASL and expanded application work-flows for the brain. It provides users with the latest tools and applications for neuro imaging.

Applications

- Diffusion Tensor Imaging (DTI)
- Dynamic Contrast Enhanced (DCE) Permeability
- Arterial Spin Labeling (ASL)
- Intravoxel Incoherent Motion (IVIM)
- Relaxometry

Application Workflows

- Brain Tumor DSC DCE Expanded
- Brain Tumor DCE
- Brain Tumor Expanded
- DTI Spine
- Head and Neck Expanded

VITREA MR BODY ADVANCED PACKAGE

Model Name: VLP-MBODAD/LO

MR Body Advanced Package provides expert users with access to the latest tools and applications for Breast, Prostate and Body Imaging.

Applications

- DCE Permeability
- Metabolic
- Relaxometry
- IVIM

Application Workflows

- Breast Expanded
- Prostate Expanded
- Rectum Streamlined
- Head and Neck Expanded
- MSK Onco-Inflammatory
- Female Pelvis

VITREA MR ORTHO EXPERT PACKAGE

Model Name: VLP-MORTH/LO

MR Ortho Expert Package includes dedicated solutions for expert users who want access to the latest tools and applications for Orthopedic Imaging.

Application

- Relaxometry

Application Workflow

- MSK Cartilage

VITREA MR CARDIAC EXPERT PACKAGE

Model Name: VLP-MCARD/LO

MR Cardiac Expert Package includes Global and Regional Function, Flow Quantification and Tissue Characterization. It provides access to the latest tools and applications for Cardiac MRI.

Applications

- QMass®
- QFlow®

Application Workflows

- Medis Suite Cardiovascular MR (CVMR)
- MR Wall Motion Tracking Multi Chamber
- MR Coronary Tracking

MR STRAIN/CORONARY ANALYSIS

Model Name: VLP-MTOSC/LO

MR Strain/Coronary Analysis Package includes strain analysis and coronary assessment for Cardiac MRI.

Applications

- MR Wall Motion Tracking Multi Chamber
- MR Coronary Tracking

VITREA MR BREAST ADVANCED PACKAGE

Model Name: VLP-MBREAD/LO

MR Breast Advanced Package provides users with the latest tools and applications for detection and characterization assistance of breast lesions.

Applications

- Diffusion Weighted Imaging (DWI)
- Olea MR Breast Advanced

OLEA IVIM OPTION

Model Name: VLO-OIVIM/LO

Olea IVIM features the Bayesian post-processing method, a rigorous probabilistic estimation of diffusion parameters. Includes Electronic b, multiple b, values automatic computation, allowing shorter acquisitions while increasing diagnostic confidence.

Quantitatively assesses the microscopic translational motions that could contribute to the signal acquired with diffusion MRI.

OLEA METABOLIC OPTION

Model Name: VLO-OMETA/LO

Olea Metabolic investigates tissue characteristics in hepatitis, cirrhosis, cancer and other disorders, by measuring the Hepatic Fat Fraction (HFF), through a non-invasive method.

OLEA MR BREAST ADVANCED

Model Name: VLO-OBRAVD/LO

Olea MR Breast Advanced provides intuitive features for breast MR characterization and follow-up.

Features

- Automatic subtraction
- 4D automatic MIP mode
- Automatic metrics computation
- 3D, MIP, MPVR, 3D volume rendering
- Lesion follow-up: MR, US, MG DICOM series
- Integrated BI-RADS® ATLAS report

OLEA MR BREAST BIOPSY

Model Name: VLO-OBRBIP/LO

Olea MR Breast Biopsy provides features for assistance of MR guided breast intervention planning.

Features

- Identical environment (Breast Advanced)
- Grid template

OLEA FUNCTIONAL MR (FMRI)

Model Name: VLO-OFMRI/LO

Olea Functional MR is a seamless and intuitive brain mapping application to help assess critical areas and help improve surgical planning.

Features

- 3D visualization
- Laterality index
- Automated co-registration
- Motion correction
- Advanced pre-processing
- Compatible with neuronavigation systems
- Bonferroni correction

MEDIS 4D FLOW

Model Name: VLO-MDS4DF/LO

Medis 4D Flow, one of the elements that can be added to Medis Suite Cardiovascular MR, provides visualization tools and a quantitative analysis of 4D Flow MR data.

Note: Canon MRI Scanner currently does not support 4D Flow sequence.

MEDIS QSTRAIN

Model Name: VLO-MDSQST/LO

Medis QStrain, one of the elements that can be added to Medis Suite Cardiovascular MR, measures ventricular and atrial strain using long axis and short axis SSFP images.

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