

APPLICATION

Vitre software is a multi-modality 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 Angio Workstation (AWS) for Angiography System

Supported version of AWS

V6.1 or later

- Canon Medical Systems CT System

Supported Scanners

Aquilion ONE series

Aquilion series

- 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				

- Canon Medical Systems UL System

Supported Models

Aplio i900, Aplio i800, Aplio i700

- Canon Medical Systems NM System

Supported Models

Cartesion Prime

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

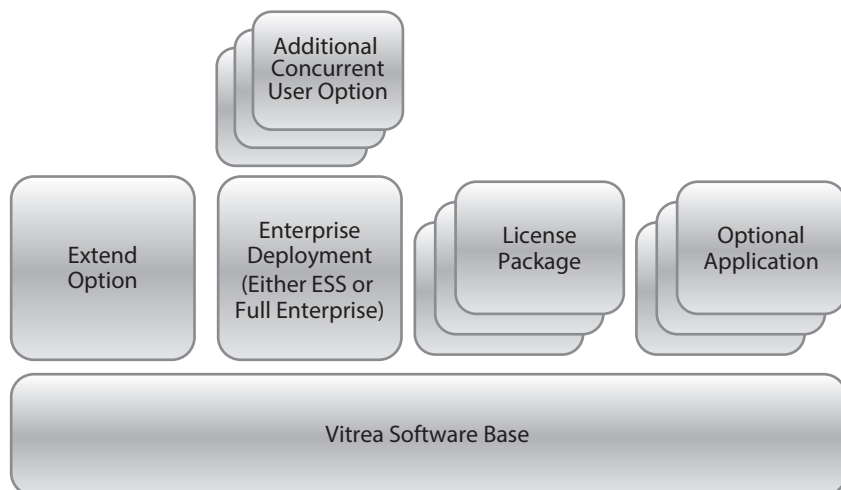
SECURITY STANDARDS

- 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
- Embolization Plan

VITREA BASE

Model Name: VLO-BASE/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
- CT Abdominal Analysis
- CT Circle of Willis
- CT Carotid
- CT Larynx Airway
- CT Musculoskeletal
- CT Renal
- CT Runoff Analysis
- CT Urogram
- CT Aorta Analysis

Optional Applications

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

*1: Not compatible with PACS Integration

VITREA EXTEND OPTION

Model Name: VLO-EXTO/LO

A workstation based system supplying up to three concurrent users with advanced visualization. This deployment option helps to improve patient care by reducing information delays and by providing quick access to the exams required by your clinical workflows. A centralized database and multiple access points ensure that clinicians can share work without being affected by disparate databases, different clinical tools or unfamiliar interfaces.

VITREA ENTERPRISE DEPLOYMENT

Model Name: VLO-EPD/LO

Advanced 3D visualization and analysis solution that delivers an easy-to-use suite of advanced multi-modality clinical applications and tools, which can be accessed anywhere and anytime. Enables up to two Multi Modality Viewer dedicated nodes with four users each, for a total of eight.

VITREA ADDITIONAL CONCURRENT USER OPTION

Model Name: VLO-ADDCCU/LO

Additional Concurrent User option is required per Additional user.

VITREA ADDITIONAL CONCURRENT USER OPTION - FIVE-PACK

Model Name: VLO-AD5CCU/LO

Additional Concurrent User option - Five-pack is required per 5 Additional users.

VITREA ENTERPRISE SINGLE SERVER DEPLOYMENT

Model Name: VLO-EPD/LO + VLO-ADDCCU/LO or VLO-AD5CCU/LO

This cost-effective single-server-based solution is a turn-key Vitrea Advanced Visualization deployment option for up to six concurrent users. Supports both workgroup deployments and domain deployments, including support for PACS integration when on a domain. Enterprise Single Server leverages Remote Desktop for access with RDS CALs.

XA/CT PACKAGES

Application	Vitreia Non-US Package-1 w/ CT Lung Package	Vitreia Non-US Package-3 w/ CT Lung Package	Vitreia Non-US Package-4 w/ CT Lung Package	Vitreia CT Lung Package	Vitreia CT Cardiac Package	Vitreia Revitalize Option Package for CT
Vitreia XA 3D-Angio						
Cerebral Aneurysm Analysis						
Embolization Plan						
Vitreia CT EP Planning						✓
Vitreia CT Endovascular Stent Planning (EVSP)			✓			✓
Vitreia CT Liver Analysis						✓
Vitreia CT TAVR Planning						✓
Vitreia CT Colon Analysis	✓	✓	✓			✓
Vitreia CT Lung Analysis	✓	✓	✓	✓		✓
Vitreia CT Lung Density Analysis	✓	✓	✓	✓		✓
Vitreia CT Brain Perfusion 2D with Bayesian			✓			✓
Vitreia CT VScore	✓	✓	✓		✓	✓
Vitreia CT Cardiac Analysis	✓		✓		✓	✓
Vitreia CT Cardiac Functional Analysis	✓		✓		✓	✓
Vitreia CT Multi-Chamber Functional Analysis						✓
Vitreia CT Fat Measurement						✓
Vitreia CT ^{SURE} Plaque option			✓		✓	✓
Vitreia CT Myocardial Perfusion						✓
Vitreia CT Brain Perfusion 4D			✓			✓
Vitreia CT Body Perfusion 4D						✓
CT Carotid Auto Vessel						
Open Rib						
iCAD VeraLook® CT Colon CAD						
MeVis® Visia™ CT Lung CAD						
CT Dental option						
Dynamic Myocardial Perfusion						
CT Respiratory Analysis						
Vitreia CT DE image View						
Auto MPR Brain						
Lung CAD						
Subtraction Viewer						
Mirada® Oncology Fusion Advanced						
Mirada Oncology Fusion Standard						
Mirada Oncology Fusion Core						
Filming						
^{SURE} Volume Synthesis						
Vitreia Image Denoising	✓	✓	✓	✓		✓

Description	Model Name
Vitre Non-US Package-1 w/ CT Lung Package	VLP-NOUS1L/LO
Vitre Non-US Package-3 w/ CT Lung Package	VLP-NOUS3L/LO
Vitre Non-US Package-4 w/ CT Lung Package	VLP-NOUS4L/LO
Vitre CT Lung Package	VLP-VLUNG/LO
Vitre CT Cardiac Package	VLP-VCARDI/LO
Vitre Revitalize Option Package for CT	VLP-ROPCT/LO

VITREA XA 3D-ANGIO

Model Name: VLO-XA3D/LO

XA 3D-Angio provides visualization and analysis tools for rotational images acquired in angiography labs. 3D angiography provides enhanced 3D views of complex anatomy.

CEREBRAL ANEURYSM ANALYSIS

Model Name: VLO-CAA/LO

CAA supports cerebral aneurysm rupture risk assessment through visualization and quantification tools.

EMBOLIZATION PLAN

Model Name: VLO-EMB/LO

Embolization Plan is a dedicated software for advanced embolization it supports an efficient planning for liver tumor treatments.

It is applicable to CT volumes of CTHA and /or CTAP acquisitions and XR LCI volumes.

VITREA CT EP PLANNING

Model Name: VLO-EP/LO

CT EP Planning automatically segments the left atrium and pulmonary veins to enable analysis and assessment which are used in procedural planning and can be exported for 3D road mapping during electro-physiology procedures.

VITREA CT ENDOVASCULAR STENT PLANNING

Model Name: VLO-EVSP/LO

CT Endovascular Stent Planning (EVSP) enables visualization and measurements of aortic vessels for evaluation, treatment and follow-up for aortic vascular disorders. It automates 3D segmentation of the aorta and initializes stent measurements, based on a template provided by stent manufacturers for a highly efficient workflow.

VITREA CT LIVER ANALYSIS

Model Name: VLO-LIVER/LO

CT Liver Analysis provides tools for segmenting and quantifying the liver and liver-related tumors. It provides automatic registration for display of multiple series, optimized screen layouts and quantification tools for routine clinical measurements, including surgical liver resection planning tools.

VITREA CT TAVR PLANNING

Model Name: VLO-TAVR/LO

CT Transcatheter Aortic Valve Replacement (TAVR) Planning provides automatic valve plane recognition and semi automated measurement tools.

VITREA CT COLON ANALYSIS

Model Name: VLO-COLON/LO

CT Colon Analysis provides clinicians with the ability to perform CT colonography. It provides optimized layouts for 2D and 3D examination of the lumen, including tools for quantitative analysis of suspected polyps, showing the polyp volume, measurement and distance to rectum.

VITREA CT LUNG ANALYSIS

Model Name: VLO-LUNGNO/LO

The semi-automated tools in CT Lung Analysis help to efficiently determine nodule growth over time. Assesses nodule morphology and volume, whilst offering comparison to prior imaging.

VITREA CT LUNG DENSITY ANALYSIS

Model Name: VLO-LUNGAN/LO

CT Lung Density Analysis semi-automatically segments lung tissues with quantifiable results to aid in the diagnosis of certain respiratory conditions.

VITREA CT BRAIN PERFUSION 2D WITH BAYESIAN

Model Name: VLO-2DBPEF/LO

CT Brain Perfusion 2D provides 2D visualization and perfusion mapping of CT perfusion imaging. In acute stroke cases, it can help physicians determine the presence of acute cerebral infarcts and aid treatment planning decisions. Selection of Bayesian, Singular Value Decomposition (SVD) and delay-insensitive Singular Value Decomposition (SVD+) algorithms.

VITREA CT VSCORE

Model Name: VLO-VSCORE/LO

CT VScore is a calcium scoring application that allows users to visualize, measure and export a report of coronary calcification and calculate the patients calcium score using a non-contrast cardiac CT exam, which facilitates coronary risk assessment.

VITREA CT CARDIAC ANALYSIS

Model Name: VLO-CARDI/LO

CT Cardiac Analysis enables physicians to assess coronary disease by displaying the extracted anatomy in a variety of 2D, 3D and 4D views and using a number of advanced imaging tools, allowing the assessment of both structural heart and coronary artery disease.

In addition to the automated segmentation and labeling of the three main coronary vessels, there's an option to automatically probe up to 20 branch vessels.

VITREA CT CARDIAC FUNCTIONAL ANALYSIS

Model Name: VLO-CFA/LO

CT Cardiac Functional Analysis (CFA) utilizes 4D CT images of the heart to assist cardiologists and radiologists in assessing the function and morphology of the left ventricle. Clinicians are able to view the cardiac phases in 4D and review the quantified calculated results.

VITREA CT MULTI-CHAMBER FUNCTIONAL ANALYSIS

Model Name: VLO-MCCFA/LO

CT Multi-Chamber CFA utilizes 4D CT images of the heart to assist cardiologists and radiologists in assessing cardiac function of the all the heart's individual chambers. It allows the full 4D visualization of a cardiac cycle. CT Multi-Chamber CFA computes functional measurements for multiple chambers, such as stroke volume, ejection fraction and cardiac output.

VITREA CT FAT MEASUREMENT

Model Name: VLO-FAT/LO

CT Fat Measurement is a noninvasive post-processing application designed to isolate and quantify subcutaneous and visceral fat. The CT Fat Measurement application calculates body fat area based on a single slice of non-contrast enhanced CT data.

VITREA CT^{SURE} PLAQUE OPTION

Model Name: VLO-SUREP/LO

CT^{SURE} Plaque provides the visualization and measurement of vessel walls and plaque characteristics in arterial vessels. Using color defined Hounsfield Unit (HU) ranges, plaque characteristics can be assessed, which can assist in the stratification of patients identified to have atherosclerosis. The Perivascular CT Density tool assists clinicians in evaluating the characteristics surrounding the blood vessels.

VITREA CT MYOCARDIAL PERFUSION

Model Name: VLO-MYOPEF/LO

CT Myocardial Perfusion enables the visualization and analysis stress and rest examinations to assess the presence of perfusion deficits in the myocardium. Semi-automated segmentation and registration compute the analysis in a streamlined workflow.

VITREA CT BRAIN PERFUSION 4D

Model Name: VLO-4DBPEF/LO

CT Brain Perfusion 4D aids with assessing the whole brain and evaluating perfusion deficits by displaying 4D-Digital Subtraction Angiography (DSA) views of blood flow in the vessels and 3D perfusion maps. Advanced tools such as perfusion maps supports the physician in visualizing the apparent blood perfusion in brain tissue affected by acute stroke. Selection of Bayesian, SVD and SVD+ algorithms.

VITREA CT BODY PERFUSION 4D

Model Name: VLO-BODYP/LO

CT Body Perfusion 4D enables whole organ functional assessment using Canon Medical Systems' Aquilion ONE family CT scanner. Parametric maps, based on the contrast flow through an organ, provide additional information to aid clinical decision-making. Views and layouts for dynamic display of images are created throughout the duration of the scan.

CT CAROTID AUTO VESSEL

Model Name: VLO-CAROAV/LO

CT Carotid Auto Vessel further simplifies the workflow with the automatic segmentation of the internal carotid arteries and vertebral arteries. This application allows the initialization results to be adjusted as needed.

OPEN RIB

Model Name: VLO-ORIB/LO

Open Rib analyses Chest CT images and offers visualization of the unfolded rib cage. It allows physicians to instantly view the full rib anatomy and should be used as an additional view in adjunct to conventional multiplanar reformat views. Open Rib offers geometric and HU measurement tools. In addition to standard CT projections, the Open Rib application can also display the unfolded rib view in both SVR and Global Illumination.

Provides automatic processing and export to PACS.

ICAD VERALOOK CT COLON CAD

Model Name: VLO-ICAVLK/LO

VeraLook CT Colon computer-aided detection (CAD) from iCAD uses sophisticated image processing software to automatically identify polyps in CTC images.

MEVIS VISIA CT LUNG CAD

Model Name: VLO-MEVLCA/LO

Visia CT Lung by MeVis Medical Solutions is a CAD system for chest multi-slice CT exams. Visia automatically detects potentially actionable lung nodules from 4 mm to 30 mm in size, not just round objects or regions of interest. Sophisticated volumetric segmentation excludes normal anatomy and detects nodules based on size, shape, density and anatomical context.

CT DENTAL OPTION

Model Name: VLO-CTDENT/LO

CT Dental Analysis produces images necessary for dental treatment planning and dental implant sizing, and helps identify diseases of the teeth and oral cavity.

DYNAMIC MYOCARDIAL PERFUSION

Model Name: VLO-DMYOP/LO

CT Dynamic Myocardial Perfusion enables the quantitative assessment of dynamic stress and rest CT examinations. The application provides multiple quantitative results such as myocardial blood flow (MBF) and coronary flow reserve (CFR) for data sets acquired with Aquilion ONE CT.

CT RESPIRATORY ANALYSIS

Model Name: VLO-CTRESP/LO

CT Respiratory Analysis software provides an easy-to-use and intuitive user interface to analyze both 3D and 4D CT data sets to assess respiratory conditions.

3D data sets allow assessment of the area, diameter and volume of the trachea and airways. Also, lung volume and lung density can be measured, which can aid in the assessment of disease progression and treatment response. Using a 4D data set, changes within the airways over an entire breath cycle can be evaluated by visualizing the airway area, diameter, volume and percentage change.

VITREA CT DE IMAGE VIEW

Model Name: VLO-CTDEIV/LO

Vitreia CT DE Image View enables users to review and report CT Dual Energy images which are acquired using different tube voltages and/or tube currents. The application has multiple functions which enable users to evaluate and characterize body material composition using the attenuation coefficient energy dependence of different materials.

Note: Vitrea CT DE Image View only supports Canon Dual Energy datasets.

AUTO MPR BRAIN

Model Name: VLO-AMPR/LO

Auto MPR Brain utilizes anticipatory processing, or Just-In-Time (JIT) processing, for CT brain images. It receives volumetric CT brain image data and automatically aligns the multiplanar reformatted images into a standard anatomical position based on the OM line. There is no user involvement in this automated process, thereby eliminating the need for manual image alignment and reformat.

LUNG CAD

Model Name: VLO-LCA/LO

Lung CAD is a computer-aided detection (CAD) system for chest multi-slice CT exams. Lung CAD automatically detects potentially actionable lung nodules from 4 mm to 30 mm in size. Lung nodules detected in Lung CAD can be shown within CT Lung Analysis.

SUBTRACTION VIEWER

Model Name: VLO-SUBV/LO

Subtraction Viewer provides a workflow solution to review Subtraction CT (SCT) images processed from Canon CT Scanners. This allows for interactive simultaneous review of the SCT volumes and the associated multiphase volumes.

MIRADA ONCOLOGY FUSION ADVANCED

Model Name: VLO-OFUADV/LO

Oncology Fusion Advanced is an integrated multiple modality software application for the evaluation of oncologic disease. It combines the abilities of CT, MR, PET and SPECT imaging into a single viewer on enterprise platform.

This includes following features.

- Quantitative PET measurements (SUV, Mean, Max)
- SPECT measurements
- Follow-up scan comparison
- Snapshots
- Support for 4D (gated) multi-time point data
- Support for multi-sequence, multiple time point MR
- Support for multi-phase, multiple time point CT
- Automatic alignment of studies using deformable registration
- Three-way fused views
- Advanced modality optimized deformable image registration
- Save session: State, bookmarks, VOIs and rulers to PACS
- Derive ruler from VOI
- MR/PET/CT review
- Distribute findings (report)
- RECIST, WHO, and PERCIST measurements
- CT Segmentation Tool

Note: This option supports up to 5 concurrent users.

MIRADA ONCOLOGY FUSION STANDARD

Model Name: VLO-OFUSTD/LO

Oncology Fusion Standard is an integrated multiple modality software application for the evaluation of oncologic disease. It combines the abilities of CT, MR, PET and SPECT imaging into a single viewer on enterprise platform.

This includes following features.

- Quantitative PET measurements (SUV, Mean, Max)
- SPECT measurements
- Follow-up scan comparison
- Snapshots
- Automatic alignment of studies using deformable registration
- Save session: State, bookmarks, VOIs and rulers to PACS
- Derive ruler from VOI
- Distribute findings (report)
- RECIST, WHO, and PERCIST measurements

Note: This option supports up to 5 concurrent users.

MIRADA ONCOLOGY FUSION CORE

Model Name: VLO-OFUCO/LO

Oncology Fusion Core is an integrated multiple modality software application for the evaluation of oncologic disease. It combines the abilities of CT, MR, PET and SPECT imaging into a single viewer on enterprise platform.

This includes following features.

- Quantitative PET measurements (SUV, Mean, Max)
- Follow-up scan comparison
- Snapshots

Note: This option supports up to 5 concurrent users.

VITREA IMAGE DENOISING

Model Name: VLO-DENOIS/LO

Image Denoising is a software-based, post-processing filter designed to be used in conjunction with original image data. It assists clinicians in the enhancement of CT and 3D-XA image presentation by enabling pixel noise reduction while preserving edge detail, spatial size and 3D structure within the original images. Image Denoising is accomplished by using Structure Preserving Diffusion Algorithm (SPD).

MR PACKAGES

Application	MR Body DWI Package	Vitrea MR Basic Suite* ²	Vitrea MR Neuro Advanced Package	Vitrea MR Body Advanced Package	Vitrea MR Breast Advanced Package	Vitrea MR Ortho Expert Package	Vitrea 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 workflows 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-OBRADV/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.

CEDARS SINAI QPET*⁶

Model Name: VLO-CSQPET/LO

Cedars Sinai QPET provides automatic segmentation, quantification and analysis of static and gated myocardial perfusion PET.

- Support for short axis and transverse datasets
- Tracer kinetics including MBF and CFR quantification
- Normal databases for Rb-82 and N-13 are included
- Viability analysis with scar and mismatch quantification

CEDARS SINAI SPECT PERFUSION + BP BASIC*⁶

Model Name: VLO-CSSPB/LO

Cedars-Sinai SPECT Perfusion+BP Basic includes QGS, QPS, Companion, and Blood Pool. QBS provides quantification of gated blood pool (red blood cells, RBC) images. QGS provides automatic segmentation, quantification, analysis and display of gated myocardial perfusion images. QPS provides automatic segmentation, quantification, analysis and display of static (ungated) short-axis myocardial perfusion SPECT images. The Companion option for QGS/QPS includes Diastolic function assessment (PFR, PER, RRPf), AHA automated 17 segment scoring, and eccentricity calculation.

*6: This option requires the purchase of one license per concurrent user.

CEDARS SINAI SPECT PERFUSION + BP DELUXE*⁶

Model Name: VLO-CSSPD/LO

Cedars-Sinai SPECT Perfusion +BP Deluxe includes QGS, QPS, Companion, Blood Pool and Plus Pack. QBS provides quantification of gated blood pool (red blood cells, RBC) images. QGS provides automatic segmentation, quantification, analysis and display of gated myocardial perfusion images. QPS provides automatic segmentation, quantification, analysis and display of static (ungated) short-axis myocardial perfusion SPECT images. The Companion option for QGS/QPS includes Diastolic function assessment (PFR, PER, RRPf), AHA automated 17 segment scoring, and eccentricity calculation. The Plus Pack includes Stress/Rest, motion frozen, QGS phase information, and shape index.

Package Configuration

	SPECT Perfusion, Basic	SPECT Perfusion, Deluxe
QGS	✓	✓
QPS	✓	✓
Companion	✓	✓
QBS	✓	✓
PlusPack		✓

CEDARS SINAI MOTION CORRECTION + AUTORECON*⁶

Model Name: VLO-CSMCAR/LO

Cedars Sinai Motion Correction + Autorecon combines both Motion Correction and Autorecon.

CEDARS SINAI MOTION CORRECTION*⁶

Model Name: VLO-CSMC/LO

Cedars Sinai Motion Correction provides automatic and manual correction of SPECT acquisition motion artifacts. Pattern matching and segmentation algorithms are used in conjunction to minimize motion error metrics over the set of acquired projections; the resulting motion corrected projections are then presented to the operator for validation or modification.

CEDARS SINAI AUTORECON*⁶

Model Name: VLO-CSAR/LO

Cedars Sinai Autorecon reconstructs the data from projections using a variety of algorithms including iterative reconstruction.

MIRADA RTX POWER

Model Name: VLO-MIRTXP/LO

Mirada RTx Power provides a comprehensive toolset to support radiation therapy planning for deformable registration and contouring, auto-contouring, 4D, adaptive therapy and re-treatment decision support.

Note: This option supports up to 3 concurrent users.

MIRADA RTX SINGLE USER

Model Name: VLO-MIRTXS/LO

Mirada RTx Single User provides a single user license for Mirada RTx Power.

MIRADA RTX ADDITIONAL USER

Model Name: VLO-MIRTXA/LO

This option is required for purchasing additional concurrent user licenses for Mirada RTx Power.

INVIA 4DM ESSENTIALS - SPECT+PET

Model Name: VLO-INS/LO

INVIA 4DM Essentials - SPECT+PET includes:

- SPECT: Advancements in attenuation correction and provides a single application for both SPECT and Gated Blood Pool SPECT studies.
- PET: PET imaging capabilities, such as FDG Viability and Standard Uptake Values (SUV) while increasing the number of normal databases.

Note: This option supports up to 5 concurrent users.

INVIA 4DM ADVANCED - SPECT+PET+CT

Model Name: VLO-INSPC/LO

4DM Advanced - SPECT+PET+CT includes:

- SPECT: Advancements in attenuation correction and provides a single application for both SPECT and Gated Blood Pool SPECT studies.
- PET: PET imaging capabilities, such as FDG Viability and SUV while increasing the number of normal databases.
- CT: Includes co-registered ECT and CT studies, ECT-CTA Fusion, CT Viewing, and Calcium Scoring.

Note: This option supports up to 5 concurrent users.

*6: This option requires the purchase of one license per concurrent user.

INVIA 4DM PREMIUM – SPECT+PET+CT+MFR

Model Name: VLO-INSPCF/LO

4DM Premium - SPECT+PET+CT+MFR includes:

- SPECT: Advancements in attenuation correction and provides a single application for both SPECT and Gated Blood Pool SPECT studies.
- PET: PET imaging capabilities, such as FDG Viability and SUV while increasing the number of normal databases.
- CT: Includes co-registered ECT and CT studies, ECT-CTA Fusion, CT Viwing, and Calcium Scoring.
- MFR: Myocardial Flow Reserve (MFR) quantification for dynamic PET is designed to measure absolute blood flow in coronary arteries.

Note: This option supports up to 5 concurrent users.

INVIA SPECT RECONSTRUCTION

Model Name: VLO-INSR/LO

Invia SPECT Reconstruction add-on provides nuclear cardiology technologists with a single interface for quality assurance, reconstruction, and processing of SPECT myocardial perfusion, viability, and SPECT gated blood pool studies.

Package Configuration

	Essentials	Advanced	Premium
SPECT	✓	✓	✓
PET	✓	✓	✓
SPECT + PET	✓	✓	✓
Hybrid CT + SPECT		✓	✓
Hybrid CT + PET		✓	✓
Hybrid CT + SPECT + PET		✓	✓
MFR + SPECT			✓
MFR + PET			✓
MFR + PET + Hybrid CT			✓
MFR + SPECT + PET + Hybrid CT			✓

Note: This option supports up to 5 concurrent users.

SYNTERMED NEUROQ BASE

Model Name: VLO-NQBASE/LO

NeuroQ is one of the most widely utilized neuroradiology solutions in the world for diagnosing dementia, epilepsy and many other neurodegenerative diseases. NeuroQ has been developed to aid in the assessment of human brain scans through quantification of mean pixel values lying within standardized regions of interest, and to provide quantified comparisons with brain scans derived from PET/SPECT studies of defined groups having no identified neuropsychiatric disease or symptoms, i.e., asymptomatic controls (AC).

SYNTERMED NEUROQ AMYLOID*7

Model Name: VLO-NQAMY/LO

NeuroQ/Amyloid is an option in NeuroQ for quantified comparisons with brain scans derived from Amyloid agents including Amyvid (Eli Lilly), NeuraCeq (Piramal), and Vizamyl (GE). All agents have been validated in accordance with agent vendor requirements.

SYNTERMED NEUROQ SPECT*7

Model Name: VLO-NQSPE/LO

NeuroQ/SPECT is an option in NeuroQ for quantified comparisons with brain scans derived from TC-99 m ECD and technetium-99 m HMPAO SPECT agents.

SYNTERMED NEUROQ DATSCAN*7

Model Name: VLO-NQDS/LO

NeuroQ/DatScan is an option in NeuroQ for quantified comparisons with brain scans derived from loflupane I123 (DaTscan) injections. Although DaTscan does not diagnose a Parkinsonian Syndrome (PS) or Essential Tremor (ET), the findings of SPECT imaging with DaTscan may be used, in addition to other clinical tests, to help make a diagnosis.

SYNTERMED NEUROQ EQUAL*7

Model Name: VLO-NQEQL/LO

NeuroQ/EQuAL is an option in NeuroQ for EQuAL (Extent specified Quantified Asymmetry-of-Lobe analysis) which may be useful for assessing maximal temporal asymmetry over a specified proportion of the temporal lobe. This may help to predict whether patients will be free of seizures during the years after neurosurgical resection of epileptogenic tissue.

*7: This option requires the purchase of Syntermmed NeuroQ Base.

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