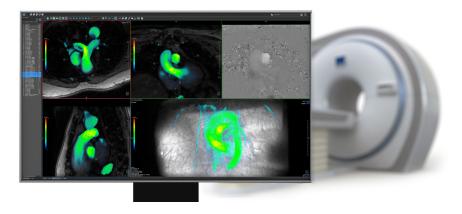


Simply accurate.

Medis Suite MR Cardiac diagnostics made simple.

A comprehensive, time-saving and validated solution for Cardiac MR post-processing

Product Specification Sheet



Medis Suite Platform

- Support for Cardiac MR studies of all major MR vendors
- Import of studies from local storage media or via DICOM connectivity from scanner or PACS.
- Centralized database, thick client solution possible with multiple clients
- AutoQ for preprocessing data and the generation of AI myocardial contours
- Effortlessly review series side by side, utilize cross-referencing tools, quickly page through series, and perform simple caliper measurements.
- Enhanced workflow by running multiple apps or prior exams in parallel
- Generate enhanced clinical reports that combine all measurements into a single document. Capture snapshots, add comments, save as PDF, and view in text format. Support for XML, DICOM Structured Report, and JSON output
- User log in and Role Based Access Control
- User interface and User manual available in multiple language for the clinical applications
- Seamless deployment of upgrade from server to clients
 NEW



QMass Function Module

- Automated LV and RV function analysis on SAX images by deep learning contours and automatic series detection NEW
- Area-length and Bi-plane volumetric analysis methods for long axis cines enhanced with deep learning contour detection.
- Quantification of custom volumes, such as atrial volumes
- Auto-detection of papillary muscles and trabeculae with "MassK mode"
- Quantification of EDV, ESV, SV, %EF, CO, CI, indexed values (BSA and height), (time to) peak filling and ejection rate
- Various BSA calculation methods for indexed results
- Latest normal ranges embedded and calculations of z-scores NEW
- Analysis of regional parameters, such as wall motion, wall thickness, wall thickening and wall thickness changes over time







QMass Delayed Signal Intensity (DSI) module and T2w analysis

- Various threshold calculation methods for automatic infarct detection
- Enhanced workflow by deep learning contours
- Quantification of infarct size (% and mass) and infarct transmurality
- Quantifying regions of hyper-, intermediate and hypointense signal intensities
- Threshold per slice or per sequence of slices
- T2 weighted analysis for oedema detection
- Combined DSI and T2 weighted analysis for calculating myocardial salvage
- T2-ratio

QMass Time Signal Intensity (TSI) module

- Enhanced Contour registration to correct for breathing motion
- Baseline correction methods
- Automatic calculation of relative upslope
- Signal intensity curves per myocardial segment and user defined ROI's
- Set transmural range for measurement of subendocardial and subepicardial perfusion curves
- Segmental results are generated and are part of the XML and JSON report output





QMass T1 and T2/T2* analysis module

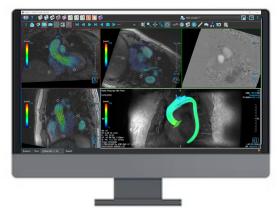
- Measure T1 value based on automatic motion corrected T1 Maps
- Calculation of T1 relaxation time in MOLLI and Look Locker sequences
- Calculation of residual maps
- Color overlay
- Quantification of iron overload from T2* analysis
- Fast quantification of T2 and T2* decay time and decay rate
- Correct for breathing motion



Simply accurate.

QFlow module

- Phase-contrast MR blood flow analysis
- Automatic contour detection
- Various background correction methods to correct for flow-induced artifacts
- Phase unwrapping to correct for aliasing
- Color-coding to visualize velocities
- Display of min and max velocity pixels
- Calculation of velocities, blood flow, regurgitation in up to 4 ROI's
- Calculation of maximum pressure and mean systolic pressure gradient
- Quantification of CSF flow





QFlow 4D module

- Automatic mitral valve tracking for flow and regurgitation
 quantification NEW
- Support for manual tricuspid, aortic and pulmonary valve tracking
- Simple MPR (multi planar reformatting) tool to quantify flow volumes, regurgitation fraction and peak flow velocity
- Automatic noise removal NEW
- Phase unwrapping functionality to correct for aliasing
- Automatic background offset correction NEW
- Various overlay options are available, including color overlays for speed, streamlines, and vectors.
- Visualize flow patterns on 2D anatomical images

QStrain

- Automatic strain quantificiation for LV, RV, LA and RA using deep learning contour detection and automatic series detection **NEW**
- Quantification of global longitudinal, radial and circumferential strain as well as regional analysis
- Rubber banding and other contour editing tools to allow for easy contour manipulation
- Quantification of delta rotation
- Quantification of 16 segment AHA strain parameters: strain, strain rate, velocity and displacement
- Generate results for endo, mid and epicardial wall
- More extensively research report can be exported in XML and MS-Excel
- Quantification of Inward Displacement (InwD) and Inward Displacement Index (InwInd) allowing for the objective evaluation of regional dysfunction



Simply accurate.





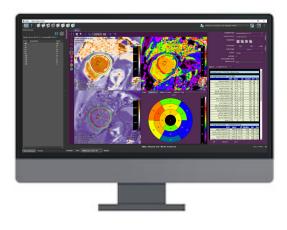
3DView module

- Viewing 3D MR and CT Angiography series, double oblique viewing, MPR, MIP, slabbed MIP, VR
- CPR (Curved Planar Reformatting)
- Efficient caliper measurements, including double distance measurement
- Sculpting (isolating custom volume of interest)
- Create reformats

QMap T1, T2 and ECV mapping For research use only

- Create parametric maps for T1, T2 and ECV
- Comprehensive results for myocardial segments represented in a bullseye plot and up to 4 user-defined ROIs per slice
- Display of relaxation or decay curves
- Automatic Motion Correction for pre- and post-contrast T images
- Flexible manual motion correction
- Flexible co-registration of T1 native (pre-contrast) and T1 post-contrast maps
- The 16 segment model results are part of the XML and JSON report output
- Save maps as DICOM and results to MS Excel





QStrain Hemodynamic Forces and PV loop For research-use only

- Instant calculation of Hemodynamic Forces from routine apical views, based on a mathematical model validated against 4D Flow MRI
- Hemodynamic Forces (HDF) analysis for the evaluation of IntraVentricular Pressure Gradients (IVPGs), a global property describing LV function
- Calculation of non-invasive PV loops from routine apical views including a simulator tool.



Available packages

Medis Suite MR		Packages				
	Modules	Premium Plus	Advanced	Essentials	Add-on 4DFlow	Add-on PV-loops
	Medis Suite Platform	~	~	~		
	AutoQ	~	~	\checkmark		
Clinical	3D View	~	~	~		
	Function Global	~	~	~		
	Function Regional	~	~			
	DSI	~	~	~		
	TSI	~	~			
	T1	~	\checkmark			
	T2/T2*	~	~			
	2D Flow	✓	\checkmark	\checkmark		
	4D Flow				\checkmark	
	Strain LV	✓				
	Strain RV and Atrium	✓				
	Inward Displacement	~				
Research	T1	~	~			
	T2/T2*	~	~			
	ECV	~	~			
	Hemodynamic Forces	~				
	PV-Loops					\checkmark

Legal Statements

Medis Suite MR is based on image processing algorithms, developed at the Division of Image Processing, Department of Radiology, Leiden University Medical Center, the Netherlands. Medis is a registered trademark of Medis Associated BV. Medis Suite MR has market authorization in the EU, US, UK, Switzerland, Australia, Brazil, Japan, Korea and Canada.



Medis Medical Imaging Systems BV Schuttersveld 9, 2316 XG Leiden P.O. Box 384, 2300 AJ Leiden, The Netherlands P +31 71 522 32 44 F +31 71 521 56 17 E sales@medisimaging.com

© 2025, Medis Medical Imaging 8.21.220.40.6

www.medisimaging.com MedisImaging

