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Medis Suite MR Cardiac diagnostics made simple.

Product Specification Sheet

M-MSP: Medis Suite Platform

- Support for Cardiac MR studies of all major MR vendors
- Access to Cardiac MR studies across the network
- Import of cardiac MR studies from local storage media (hard disk, • USB, and CD/DVD)
- DICOM connectivity, receiving cases, query and retrieve, pushing results to PACS
- Centralized database, thick client solution possible with multiple clients
- JPEG2000 and enhanced MR support
- AutoQ for preprocessing data •
- · Review series side by side, drag 'n drop series into the viewer, cross referencing tools, fast paging through series, simple caliper measurements
- Enhanced workflow, run multiple apps in parallel
- · Loading of prior exams in parallel
- · Enhanced clinical report, combining all measurements in a single report, snapshots, add comments, save as PDF, view in text format. Clinical XML and JSON output.
- User log in
- Role Based Access Control
- DICOM SR output for results of Clinical applications
- User interface and User manual available in multiple language for the clinical applications

M-MGM: QMASS Global Function Module (MR)

- Guided workflow
- LV and RV function analysis
- · Global function analysis (Simpson's method) on short axis or transversal stack of cines.
- Quantification of custom volumes, such as atrial volumes
- Area-length and Bi-plane volumetric analysis methods for long axis cines
- Enhanced: Deep learning contour detection for LV & RV in SAX
- Deep learning contour detection for LV in LAX

- · Semi-automatic contour detection for RV endocardium
- "LiveContour" algorithm to guickly detect endocardial contours
- "Time-Continuous" contour detection
- · 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

M-MRM: QMass regional function module (MR)

- · Analysis of regional parameters, such as wall motion, wall thickness, wall thickening and wall thickness changes over time
- Regional results are part of the XML and JSON report output

M-DCE: QMass Delayed Signal Intensity (DSI) module (infarct size, T2W analysis, combined DSI-T2W analysis)

- · Guided workflow for automatic infarct tissue quantification
- Transfer contours from short axis cine stack
- Various automated threshold calculation methods
- · Automatic infarct detection
- Quantification of infarct size (% and mass), infarct transmurality
- Quantifying regions of hyper-, intermediate and hypo-intense signal intensities •
- · Threshold per slice or per sequence of slices
- T2-weighted analysis, combined DSI-T2-weighted analysis
- T2-ratio

M-MSU: QMass Time Signal Intensity (TSI) module

- · Enhanced Contour registration to correct for breathing motion
- · Baseline correction methods
- Automatic calculation of relative upslope
- · Upslope curves per myocardial segment and user defined ROI's
- · Set transmural range for measurement of subendocardial and subepicardial perfusion curves
- · AHA 16 results are generated and are part of the XML and JSON report output

Legal Statements

Medis Suite CT 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 MRCT has market authorization in the EU, US, UK, Switzerland, Australia, Japan, Korea and Canada.



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M-TTM: QMass T2/T2* analysis module

- · Fast quantification of T2* decay time and decay rate
- Color overlay
- · Correct for breathing motion

M-TOM: QMass T1 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
- · Automatic Motion Correction
- Color overlay
- · Correction for breathing motion

M-FLX: QFlow app

- · Phase-contrast MR blood flow analysis
- · Automatic contour detection
- · Copy of contours in forward and backward diretion
- · Various background correction methods to correct for flow-induced artifacts.
- · "Stationary Flow Fit" and
- · "Phantom Correction"
- · Phase unwrapping to correct for aliasing
- · Color-coding to visualize velocities
- · Calculation of velocities and volumetric blood flow in up to 4 ROI's
- · Automatic calculation of regurgitant fraction and volumes
- · Display of min and max velocity pixels
- · Calculation of maximum pressure and mean systolic pressure gradient
- · Quantification of CSF flow

M-4DV: QFlow 4D app

- Simple MPR tool (multi planar reformatting)
- · Single click noise removal
- Single click Background offset correction (1st, 2nd & 3rd order)
- · Color overlay displaying the speed
- · Allow launching of QFlow guantification of volumes, regurgitant
- fraction and peak flow velocity (see M-FLX QFlow app, separate license)
- · Visualization of Streamlines in 2D and 3D
- · Enhanced visualization of vectors
- · Review flow as overlay on Cine SSFPs in 2D
- · Single click phase unwrap functionality

M-MRA: 3DView app

- · 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
- · Add temporal resolution

M-SMR: QStrain MR

- · Enhanced: Deep learning contour detection in SAX for LV and RV
- NEW: Deep learning contour dection in LAX for LV, RV, LA, and RA
- · Automatic 2CH/3CH/4CH view recognition
- · Automatic mirroring of Long Axis images
- Rubber banding and other contour editing tools
- · Quantify strain in SSFP images for LV in either LAX or SAX, RV in 4CH, LA in 2CH or 4Ch and RA in 4CH
- Quantification of global (GLS, GCS and GRS) and regional strain based on feature tracking
- Quantification of delta rotation
- Quantification of 16 segment AHA strain parameters: Strain, Strain Rate, velocity
- Quantification of RV segmental (septum and free wall) strain parameters: Strain, Strain Rate, velocity
- Generate results for endo, mid and epicardial wall
- The AHA segment model results are part of the XML and JSON output
- More extensively research report can be exported in XML and MS-Excel

M-INW: QStrain Inward Displacement add-on

- · Quantification of Inward Displacement (InwD) and Inward Displacement Index (InwInd) allowing for the objective evaluation of regional dysfunction
- · Modality independent, works on MR as well as CT series

M-HDF: QStrain Hemodynamic Forces add-on 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 Intra-Ventricular Pressure Gradients (IVPGs), a global property describing LV function

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Available packages

Medis Suite MR		Packages				
	Modules	Essentials	Advanced Edition	Premium Edition	Premium Plus	Dedicated Strain
Clinical	3D View	~	~	~	~	
	Function Global	~	~	~	~	
	Function Regional		~	~	~	~
	DSI	~	~	~	\checkmark	
	TSI		~	~	\checkmark	
	T1		\checkmark	\checkmark	\checkmark	
	T2/T2*		~	~	\checkmark	
	2D Flow	✓	~	~	\checkmark	
	4D Flow					
	Strain LV			\checkmark	\checkmark	\checkmark
	Strain RV and Atrium			~	~	~
	Inward Displacement			\checkmark	\checkmark	
Research	T1				✓	
	T2/T2*				✓	
	ECV				\checkmark	
	Hemodynamic Forces				~	

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MS-ECV: QMap ECV

For research use only

- Create parametric maps for T1-ECV
- Quantification of delta T1 (pre and post adenosine stress exams)
- Supports LL, MOLLI, SR, console generated maps
- Correction factor
- · Offset, scaling, fit residual error
- Display of relaxation graphs
- Automatic Motion Correction for pre- and post-contrast T1 images
 (either one by one or simultaneously)
- Flexible manual motion correction
- Flexible co-registration of T1 native (pre-contrast) and T1 post-contrast maps
- Comprehensive results for myocardial segments and up to 4 ROI's and segments
- The 16 segment model results are part of the XML and JSON report output
- Save maps as DICOM
- · Save results to MS-Excel

MS-REL: QMap T1&T2 relaxometry

For research use only

- Create parametric maps for T1, T1*, T2 and T2*
- Supports LL, MOLLI, SR, T2 prep and console generated maps
- Correction factor
- · Offset, scaling, fit residual error
- Display of relaxation graphs
- Flexible manual motion correction
- Flexible co-registration of T1 native (pre-contrast) and T1 post-contrast maps
- Comprehensive results for myocardial segments and up to 4 ROI's and segments
- · AHA 16 segment model results and bull's eyes
- Save maps as DICOM
- Save results to MS-Excel



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