



**Legal statement**

QStrain Echo Research Edition is to be used for research use only, and not for clinical diagnosis.  
Medis Suite is cleared for market in the US, Canada, Australia, Japan and Europe

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# Medis<sup>®</sup> Suite Ultrasound Research Edition



# Product Specification Sheet

## **M-MSP: MEDIS SUITE PLATFORM (VIEWER, CONNECTIVITY, REPORTING)**

- Support for Cardiovascular Ultrasound (Echo), MR, CT & XA studies of all major vendors
- Access to Echo studies across the network
- Import of Echo 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 support
- Review series side by side, drag 'n drop series into the viewer, fast paging through series
- Enhanced workflow, run multiple apps in parallel
- Loading of prior exams in parallel
- User log in
- Role Based Access Control

## **M-SUS: QSTRAIN ECHO RESEARCH**

- M-Mode & period selector
- Semi-automated three-click contour detection, quiver mode
- Quantify strain in LV long (2ch/3ch/4ch) and short axis orientations, RV 4 Chamber, Atrial 2 Chamber
- Quantification of Global Function parameters: %EF, EDV, ESV
- Quantification of Global strain parameters: GLS, GCS, GRS and Fractional Area change
- 3-Parameter graph for comprehensive characterization of global function
- Quantification of delta rotation
- Generate results for endo, mid and epicardial wall
- Quantification of Left Ventricular segmental advanced deformation analysis parameters: Strain, Strain Rate, velocity and displacement
- **NEW: Export of regional values in XML and JSON files**
- **NEW: Improved manual contour editing options**

- Presentation of results in 16 segment AHA model or segmental curves over time
- Evaluation of mechanical dispersion using time to peak, and opposing wall delay
- Quantification of Right Ventricular segmental (septum and free wall) strain parameters: Strain, Strain Rate, velocity and displacement
- Quantification of Left Atrial segmental (Left Wall, Roof, Right Wall) strain parameters: Strain, Strain Rate, velocity and displacement
- Detailed results for research easily exported to .txt or .xml format directly opened in MS-Excel
- Visualization of deformation in 3D model and inward displacement in 2D graphs

## **M-INW: QSTRAIN INWARD DISPLACEMENT ADD-ON TO QSTRAIN ECHO R.E.**

- Quantification of Inward Displacement (InwD) and Inward Displacement Index (InwInd) allowing for the objective evaluation of regional dysfunction

## **M-HDF: HEMODYNAMIC FORCES ADD-ON TO QSTRAIN ECHO R.E.**

- Non-invasive calculation of Hemodynamic Forces (HDF) from routine apical views, based on a mathematical model validated against 4D Flow MRI. HDF analysis for the evaluation of Intra-Ventricular Pressure Gradients (IVPGs), a global property describing Left Ventricle function



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