

MYO

CARDIAC RECONSTRUCTION AND ANALYSIS  
- SIMPLE AND FAST

## SYSTEM REQUIREMENTS

	MINIMUM	RECOMMENDED
<b>Operating System:</b>	Windows 2000, XP	Windows XP Professional
<b>Software:</b>	iQ-VIEW®	iQ-VIEW®/PRO
<b>CPU:</b>	Pentium 1 GHz	Pentium 1,5 GHz
<b>Memory:</b>	512 MB RAM	1 GB RAM
<b>Graphics:</b>	16 bit color output 1024x768 pixel or more	24 bit color output 1280x1024 pixel or more
<b>Harddisk</b>	40 GB of empty hard disk space	120 GB fast local hard disc
<b>Network:</b>		100 MBit network adapter
<b>Peripherals:</b>		PostScript printer Scroll wheel mouse CD or DVD writer
<b>Hardware:</b>		Dell Hardware

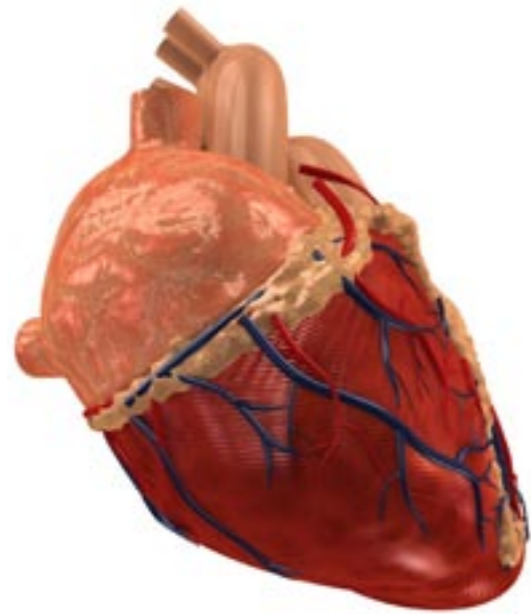
© 2005 IMAGE Information Systems Ltd. - For a Better View in Diagnostics! iQ-MYO 2.2.0 INT ENG 002R

# WHAT DOES YOUR HEART BEAT FOR?

## OUR SOLUTIONS FOR YOUR IMAGING NEEDS

- iQ-VIEW®** An easy-to-use DICOM image viewer
- iQ-VIEW® 3D** 3D post-processing workstation
- iQ-CAPTURE** Add-on module for capturing images from analog video sources
- iQ-WEBX** DICOM server for storage, teleradiology and image distribution
- iQ-RIS** The RIS that simplifies your work
- iQ-WORKLIST** DICOM worklist server optimizing your workflow
- iQ-ROUTER** Image compression for teleradiology and workflow management
- iQ-PRINT** DICOM paper print server
- iQ-ROBOT** Automatic burning and labeling of patient CDs
- iQ-NUC** Simple nuclear PACS integration
- DICOMReader** Read any DICOM CD into your PACS!
- OrthoView™** Add-on module for orthopedic templating and trauma planning





# iQ-MYO IS THE CARDIAC POST-PROCESSING WORKSTATION

... from the iQ-NUC software family and has been developed for the processing of gated and ungated SPECT studies.

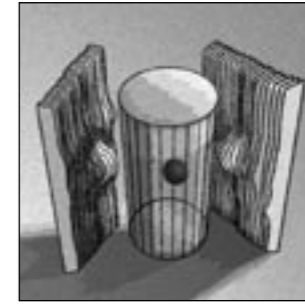
By using iQ-VIEW MYO you can become independent from your camera vendor and do your cardiac reconstruction and reorientation wherever convenient – whether on your PC, laptop or workstation. The tool has been developed for Microsoft Windows® operating systems and reads DICOM data, Interfile and even proprietary formats on request.

Most applications on the market use iterative algorithms for image reconstruction due to quality reasons or filtered back projections for speed reasons. IMAGE Information Systems engineers have developed a new means of 3D filtered back projection called FASTMYO combining the quality of iterative systems and the speed of classic back projections!

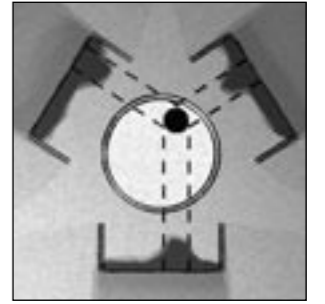
The results provided by iQ-MYO using the FASTMYO algorithm have been confirmed by using phantoms and by comparing patient data generated by magnetic resonance imaging.

iQ-VIEW MYO offers you all the features you need for your heart analysis! The multimodality viewer can display any ultrasound, CT, MRI and nuclear data for intermodal evaluations! You may preview your recorded nuclear sequences, choose various filters and projections if desired or complete a full cardiac reconstruction in less than 10 seconds even automatically! The heart axis will be automatically detected based on a cluster analysis and following this an automatic assessment of the ventricle's geometry oc-

*iQ-MYO uses an innovative 3D filtered backprojection. This procedure combines the speed of 2D backprojections with the quality of iterative algorithms! More than 90% of datasets can be reconstructed in less than 3 seconds!*



3D Filter



Filtered backprojection

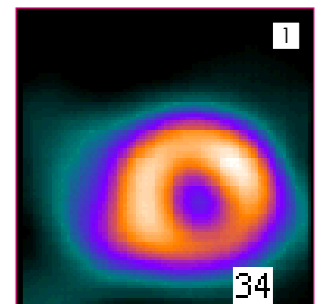
curs. The values suggested by iQ-VIEW MYO can be modified if desired.

The system provides you with real values for defective areas, information about ventricle volumes, the left ventricular function, sum scores, as well as normative comparisons.

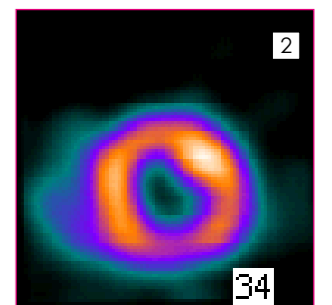
Further helpful and user-friendly features such as the Windows Print, DICOM print, burning CD's or sending studies by DICOM email are also included. It is possible to individually customize the results screens to a format that you are familiar with from your existing software applications.

iQ-VIEW MYO furthermore represents a tool for the simple creation and management of a normals group. Users have the option to utilize all the tools related to normals groups for the evaluation of patient data. Due to the interactive user interface, work tasks become significantly easier and quicker to complete. iQ-MYO is fully compliant with the DICOM 3.0 standard and can therefore be easily integrated into your local PACS.

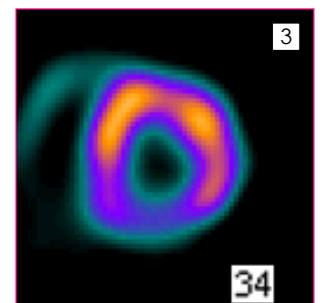
iQ-VIEW MYO is a new and innovative solution for cardiac post-processing. Leading nuclear imaging centers in Europe rely on the unique features. Ask your representative for a reference!



2D Filtered backprojection

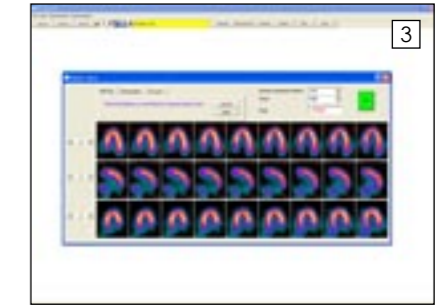
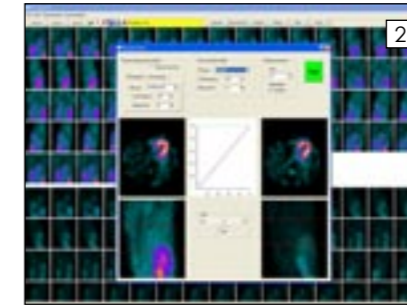
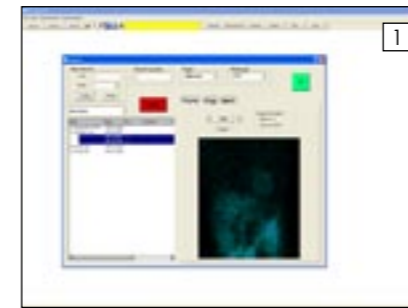
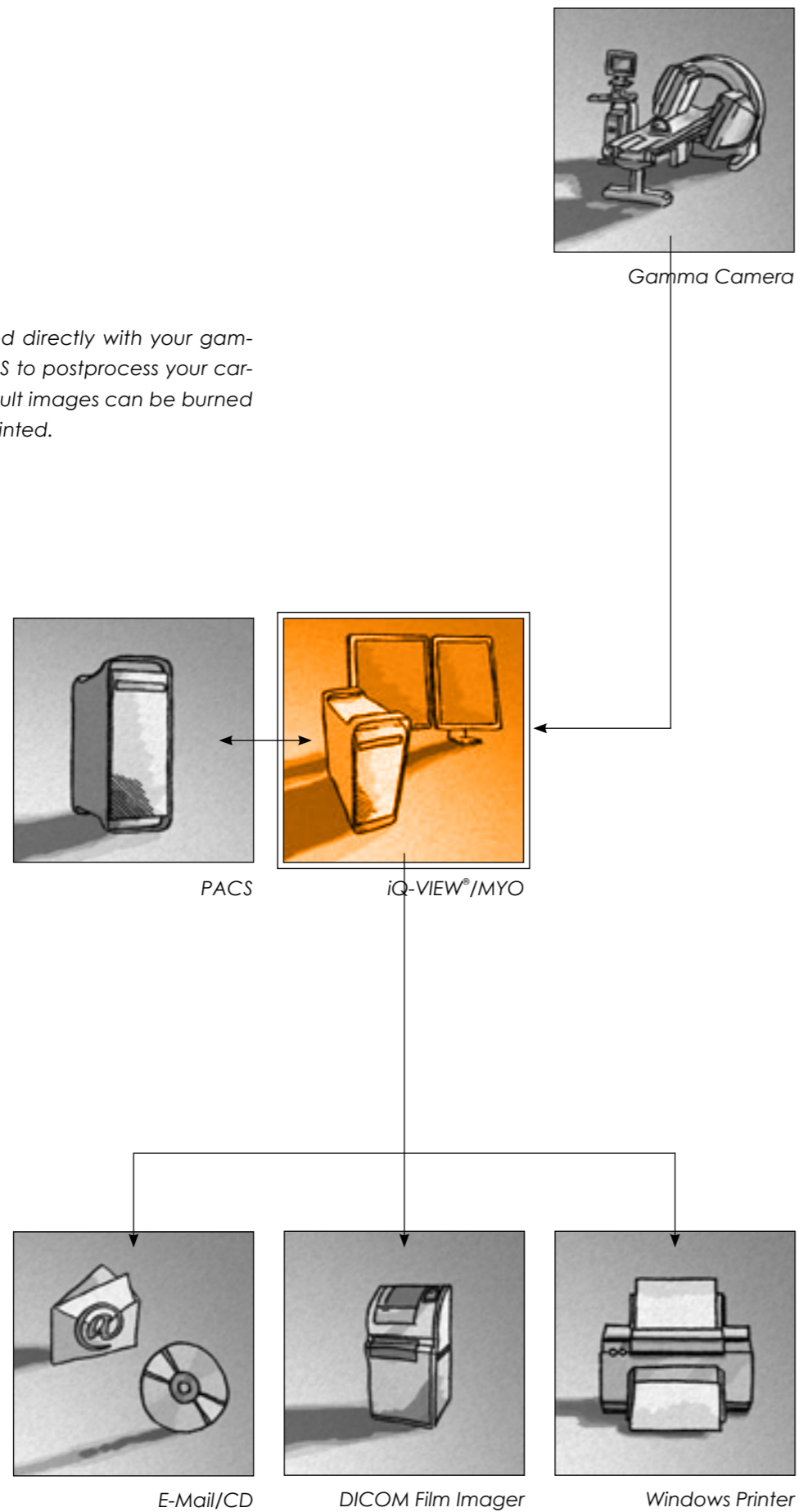


3D Filtered backprojection



Iterative backprojection

iQ-MYO can be connected directly with your gamma camera and your PACS to postprocess your cardiac scans. Calculated result images can be burned to CD, stored to PACS or printed.



The iQ-MYO module guides you through the reconstruction and reading process.

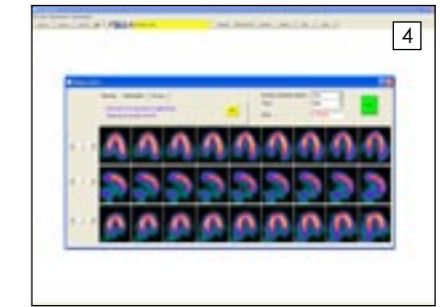
1 The cine preview gives you a preview of studies to verify the scan and to visually check the quality.

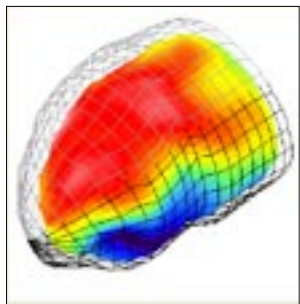
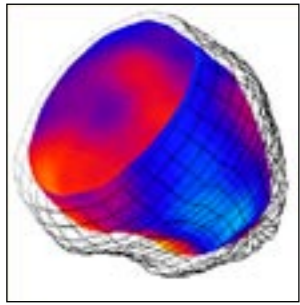
2 Selection of filters, the reconstruction algorithm and the area of interest.

3 Preview of sectional images in 3 planes (short axis, long axes).

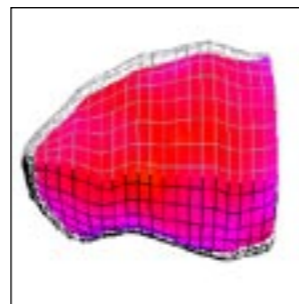
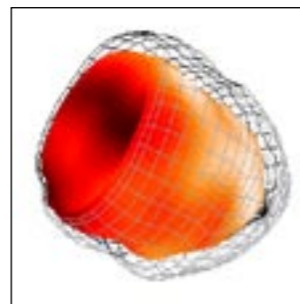
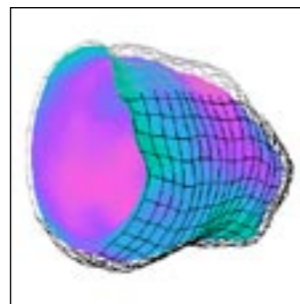
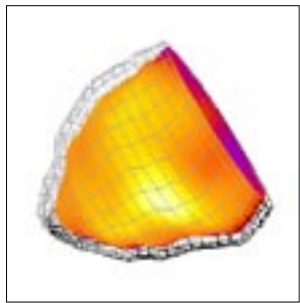
4 The heart axis will be automatically detected. Manual adjustment of reorientation is possible.

5 Display of various customizable result screens including bulls eye, defect size, 3D view and ejection fraction and more.





*iQ-MYO supports various color models to give you a familiar image impression.*



## iQ-MYO FEATURES

### GENERAL

- Flexible Local Database
- Modification of contrast
- Annotation
- Windows Print

### SUPPORTED FILE FORMATS

- DICOM
- Interfile
- Proprietary formats of gamma camera manufacturers on request

### SUPPORTED DICOM FEATURES

- DICOM 3.0 conformity
- Store to PACS
- Query/Retrieve
- DICOM Print using iQ-VIEW®

### TRACER

- MIBI
- TI-201
- Tc 99-m (MyoView™)\*

### RECONSTRUCTION FILTERS

- Butterworth
- Ramp
- Shepplogan
- Hann
- Hamming
- Parzen
- Cosine and more...

### REORIENTATION

- Automatic reorientation
- Manual adjustment of reorientation
- Bulls eye and 3D view for reorientation

### LUT SUPPORT

- Blackbody, bone, bone inverse, gold, GE color, hot iron, rain ramp and more...

### RESULT PAGE

- Bulls-Eye
- Bulls Eye with defect size
- Ejection Fraction
- Summary

### SOFTWARE

- 30 day trial version
- Activation by software key

### CERTIFICATION

- In preparation for CE class IIb



\* MyoView is a Trademark of General Electric Company