

Introducing 4D-MSPECT

Cardiac quantification & interpretation



4D·MSPECT

CARDIAC QUANTIFICATION & INTERPRETATION SOFTWARE

4D-MSPECT is a comprehensive nuclear cardiology application designed to review and quantitatively analyze cardiac SPECT studies. The 4D-MSPECT all-inclusive quantification package offers state-of-the-art interpretation and display tools.

The application provides tools for processing and displaying standard non-gated and ECG gated and non-gated cardiac SPECT volumes on both a slice-by-slice basis and as 3-dimensional surface-rendered images in many user selectable formats.

4D-MSPECT is an easy to use application offering customizable screen layouts and preference-based default settings. It also combines quantification with professional reporting tools which follow ASNC reporting guidelines, making it easy to create and send customized patient reports.

Specifically, 4D-MSPECT provides quantitative assessments of heart function by computing and displaying left ventricular chamber volumes, ejection fraction, and transient ischemic dilatation (TID) values. This information may be used to evaluate the anatomical and physiological functionality of the heart to assess for the presence of myocardial perfusion and function defects.

DIGIRAD®

4D-MSPECT effectively provides a single, user-friendly, intuitive environment that allows an operator, technologist or physician to efficiently process and review all Cardiac SPECT perfusion studies.

PROCESS & DISPLAY CARDIAC SPECT

- End diastolic (ED) and End Systolic (ES) Chamber Volume
- Ejection Fraction (EF)
- Myocardial Mass
- Cardiac Output Values (CO)
- Non-gated volume determinations
- Summed Stress score
- Transient Ischemic Dilatation (TID)
- Mid-myocardial, and left ventricular volume surface area

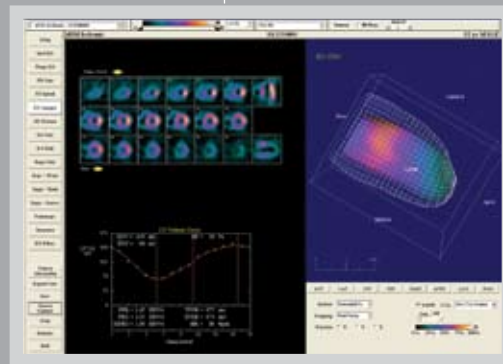
PROCESS & DISPLAY OF GATED BLOOD POOL STUDIES

- End diastolic (ED) and End Systolic (ES) Chamber Volume
- Ejection Fraction (EF)
- Cardiac Output Values (CO)

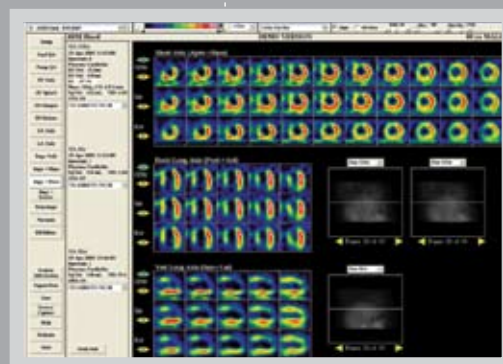
REPORT GENERATION

- Variable user defined list
- Rest only, Stress only, Rest/Stress
- Integrated with patient demographics and quality control
- Exported to HTML, MS-Word, XML, ASCII delimited text files and Microsoft Access SQL Database Tables

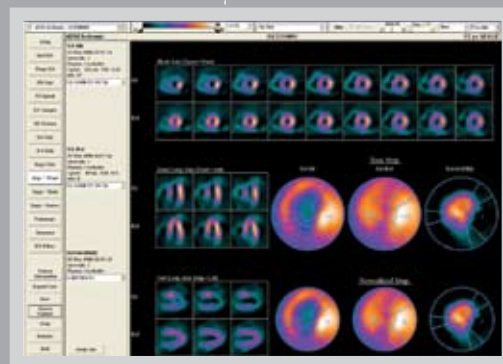
4D-MSPECT 3D AND IMAGES



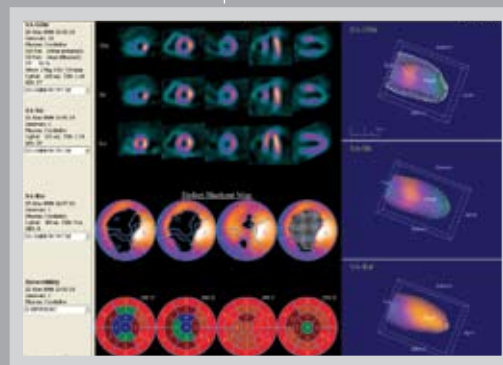
4D-MSPECT SLICES AND RAW DATA PAGE



4D-MSPECT MAPS AND CHARTS



4D-MSPECT USER SCREEN



4D-MSPECT MINIMUM SYSTEM SPECIFICATIONS	
HARDWARE	
CPU	Pentium 4 2.4 GHz
hard drive	80 GB free space
memory	DDR2 4200 533 MHz
drives	CD-R or CD-RW
peripheral interface	Parallel port or USB
graphics	DirectX 9.0 compatible video components capable to support the following configurations: Color resolution: 32 bit true color Screen resolution: 1280 x 1024
SOFTWARE	
OS	Microsoft Windows XP or 2000
Office application	Microsoft Office Pro 2003
Mirage Processing [A/PS]	version 5.310 or later
Mirage Processing workstation	version 5.310 or later
Mirage Processing software kit	version 5.310 or later
Mirage review software	version 5.310 or later

[Specifications are subject to change without notice]