



# ThinkingCardiology™

Cardiology has the second highest demand for imaging technology, next to radiology. Nuclear cardiology, echocardiography, and cardiac catheterization have been inseparable parts of the cardiology practice. In recent years we have seen the emergence of newer technologies such as cardiac CTA and cardiac PET. In the past, a few modality PACS (a.k.a. mini PACS) were developed to address specific needs of each modality. However, these mini PACS can no longer meet the growing demand for a comprehensive, integrated solution. Thinking Systems' ThinkingCardiology™, powered by its flagship ThinkingPACS™ and ThinkingRIS™, is designed specifically to meet such demand.

## *The Thinking Systems Difference*

Thinking Systems is the one and only PACS company that provides comprehensive functionality for nuclear cardiology, in addition to echocardiography, cath lab, cardiac CTA and ECG. Thinking Systems leads the industry in providing cutting-edge PACS/RIS solutions with its ThinkingPACS™ and ThinkingRIS™ products.



## *Advanced Features*

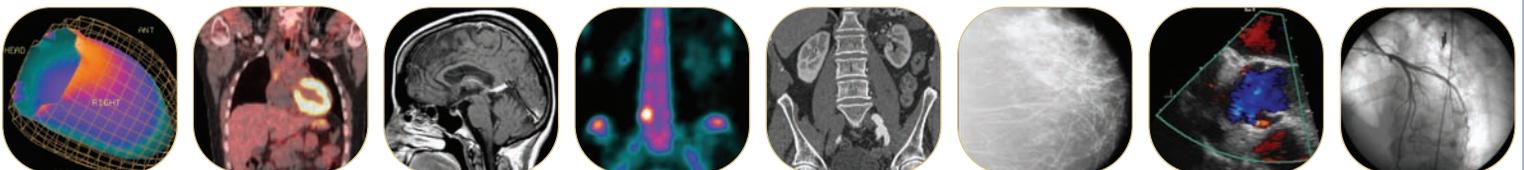
The advanced features provided by ThinkingPACS™ and ThinkingRIS™ include nuclear cardiology processing and quantification analysis, cardiac PET quantification analysis, echocardiography review and measurements, cath lab review and measurements, advanced cardiac CTA 3D visualization, ECG review, template driven nuclear and echo cardiology reporting, and connectivity to DICOM and non-DICOM modality scanners and workstations.

## *Seamless Workflow*

Powered by Thinking Systems' ThinkingPACS™ and ThinkingRIS™ with a single database, ThinkingCardiology™ provides seamless workflow from patient registration, exam ordering, scheduling, scanning, diagnostic reading, report generation, to report distribution.

## *Multimodality Support*

Multimodality support is what sets Thinking Systems' ThinkingPACS™ and ThinkingRIS™ apart from all other vendors' PACS and RIS. Clinicians no longer have to hop from one workstation to another. Instead, from one single workstation or web portal, clinicians can access all modalities with the right clinical tools, from general radiology (CT, MR, CR, DR, and ultrasound) to cardiology (nuclear, echo, cath lab, ECG, and cardiac CTA), molecular imaging (PET-CT, SPECT-CT, and nuclear medicine), mammography, advanced 3D processing, and orthopedic templating.





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## Web-based

What makes Thinking Systems' web solutions different is the breadth of technologies — it offers three tiers of technologies with each designed to meet specific needs: thin-client with server-side computing (ThinkingWeb™), thick-client with data streaming (ThinkingNet.Net™), and client-less with HTTP (ThinkingWebLite™).

ThinkingWeb™ provides full workstation functionality via the web on any Windows based computer. The server-side computing technology eliminates the need for data downloading and provides the complete spectrum of tools for all modalities, encompassing radiology, cardiology and molecular imaging with complete features from general radiology review to PET-CT fusion and nuclear cardiology processing and quantification analysis.

ThinkingNet.Net™ is designed to provide a full-fledged diagnostic workstation anywhere in the world with a high speed Internet connection. It utilizes lossless or configurable lossy compression and encryption for real-time secure data streaming via the Web.

ThinkingWebLite™ is designed for client-less, pure browser-based image viewing. It provides quick, easy, and simple image viewing for all modalities on any computer platform with a web browser, such as Windows, Mac, UNIX, and PDA. Ideal for your referring physician network.

## Key Features

- Simultaneous nuclear stress/rest study processing
- Nuclear cardiology quantification analysis with Cedars Sinai's QGS/QPS and Emory Cardiac Toolbox
- Nuclear MUGA processing
- PET Rubidium and FDG cardiac quantification analysis with Emory Cardiac Toolbox
- Static and cine display for echocardiography and cath lab images
- Cine display control with speed adjustment, fast forward and backward, frame by frame, pause and stop
- Size, angle, area, perimeter for echocardiography and cath lab images
- Doppler velocity and depth measurements for echocardiography images
- Image manipulation with zoom, pan, magnifying glass, and window/level adjustment
- Cardiac CTA vessel analysis with advanced 3D visualization
- ECG display
- Template driven reporting for nuclear and echo cardiology
- Side-by-side comparison among cardiology modalities
- Connectivity to DICOM and non-DICOM modality scanners and workstations

