



iCAD

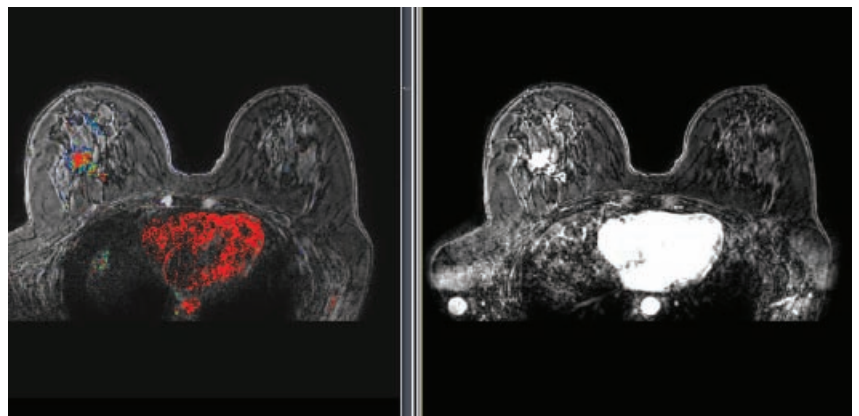
# SpectraLook

## Computer-enhanced breast MR analysis streamlines workflow and generates more robust information.

SpectraLook™, iCAD's breast MR analysis solution provides more diagnostic information by encompassing all available time points creating colorized images based on signal changes defined by tumor physiology. All-Time Point (ATP) analysis is based on an advanced pharmacokinetic model that calculates numerical values of key physiological parameters allowing the user to discern the different biological processes taking place in malignant versus benign tumors. These key physiological markers can aid in the analysis of large MR datasets.

CADvue™ image review and analysis software provides maximum functionality facilitating the analysis of ATP colorized images and quantitative data. Standard and customized reports can be created that enable the user to communicate time-sensitive breast MR study results to referring physicians. Customized reports provide detailed and comprehensive information critical to assisting the radiologist in the differentiation of lesions. 3D colorized images within the report help clinicians more accurately locate the lesion as part of their interventional planning and more effectively communicate with their patients.

SpectraLook and CADvue are specifically designed to improve the analysis workflow, interventional planning and reporting of Breast MR results. After initial setup the pharmacokinetic analysis is performed automatically and the results are transferred to the viewer for the radiologist to review. The result is a radical reduction in the time required to generate ROI curves and a significant improvement in streamlining the radiologist's workflow and diagnosis.



## Increased diagnostic confidence through an advanced post-processing algorithm powered by ATP technology.

ATP analyzes ALL available time points in dynamic contrast enhanced MR images of the breast. The algorithm conducts a continuous analysis of the entire dataset versus an analysis of a few discrete time points. As a result, the performance of ATP is independent of dynamic protocol changes and of contrast injection timing. Unlike other technologies, ATP uses all available time points to generate enhancement curves that are less affected by noise or other external factors.

ATP uses the whole signal enhancement curve to perform pharmacokinetic analysis on a voxel-by-voxel basis. The physiologic parameters are calculated and used for tissue differentiation and may aid in distinguishing benign versus malignant lesions. Based on the value of those parameters, voxels are colorized with a specific color hue and intensity that helps distinguish between benign and malignant lesions.

## Seamless DICOM integration with existing radiology workflow.

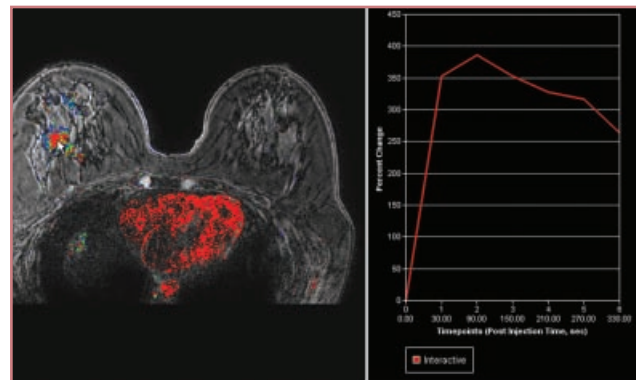
SpectraLook and CADvue provide the most powerful and flexible DICOM connectivity solutions – enhancing workflow and enabling seamless integration with all leading acquisition systems, review workstations, and PACS solutions. Flexible integration options can send and receive original and parametric images to and from any DICOM viewer or PACS device in your network.

## SpectraLook enhances your imaging workflow and increases your diagnostic confidence while reducing operating costs and increasing patient value.

- Full PACS storage and retrieval capability
- Calculates physiological parameters of tumors:
  - Extracellular Volume Fraction
  - Vascular Permeability
- Generates tissue physiology histogram

## CADvue image review and analysis software – facilitates the analysis of ATP colorized images and quantitative data.

- Customizable hanging protocol
- One-click ROI
- 3D visualization
- Multi-planar reconstruction
- Fully integrated BI-RADS® reporting
- Customizable analysis and reporting tools
  - Reports, movies, charts can all be archived to PACS
  - Provides lesion statistics



98 Spit Brook Road, Suite 100 Nashua, NH 03062  
+1 866 280 2239 toll free +1 937 431 1464 phone sales@icadmed.com email  
[www.icadmed.com](http://www.icadmed.com)