

CADstream[®]
the standard of care

MERGE[®]
Healthcare

Merge CAD provides the peace of mind essential for building and expanding an MRI practice through leadership in innovative technology and world-class customer support. Merge CAD develops and markets CADstream, an MRI-CAD system that revolutionizes MRI study analysis and reporting through automated and standardized processing. Thousands of physicians at nearly 1,500 facilities partner with Merge CAD each day to provide premium patient care.

CADstream automates the analysis and interventional planning of MRI studies, providing higher quality imaging studies, lower costs for radiology practices and improved communication tools for physicians and patients. CADstream can be integrated into any workflow scenario and is compatible with all MRI scanners and PACS.

Merge CAD strives to exceed customer expectations through exceptional service and support. Merge CAD's experienced customer support team is a resource for seamless service, as well as training and education programs that instill confidence and assist practices in achieving their program goals.



Defining the Standard of Care

Supported by extensive peer-reviewed research and used by thousands of customers worldwide, CADstream defines the standard of care in MRI-CAD. CADstream improves quality, standardization and efficiency of MRI study analysis, reporting and interventional planning.

Encompassing 7 years of product refinement, CADstream is the most complete, full featured MRI-CAD system available today. CADstream is optimized for fast, easy, reliable and integrated analysis and interpretation of studies.

CADstream is available with customized applications. Applications are available for breast, liver and prostate MRI.



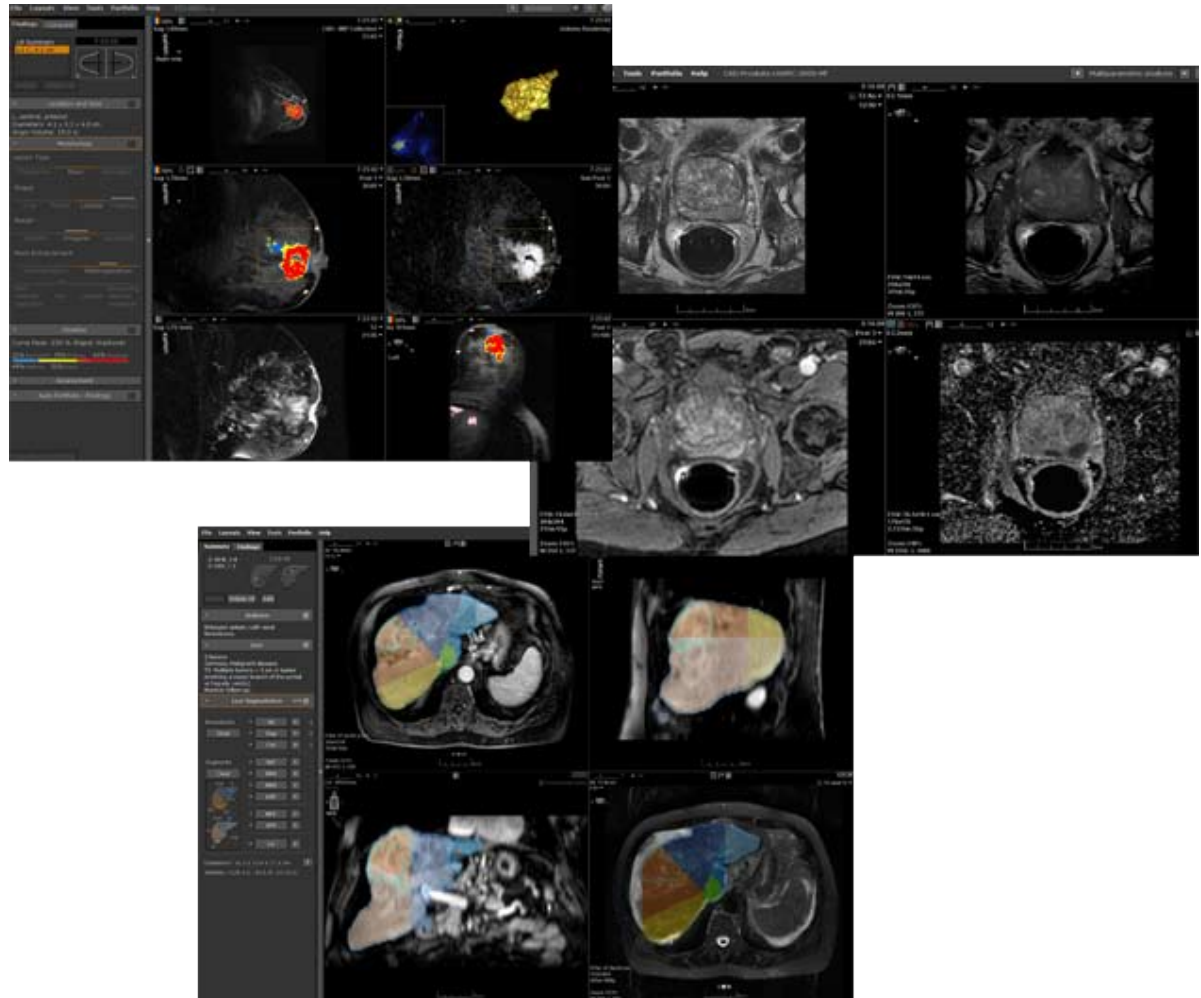
CADstream Core Features & Customizable Applications

Core Features

- Automated analysis
- 2D/3D image registration
- Multiplanar reformatting
- Subtraction images
- Kinetics
- Diffusion Analysis
- Morphology reporting
- Maximum intensity projections (MIPs)
- Segmentation and volume summaries
- Patient monitoring analysis
- Portfolio for reporting
- SureLoc® for interventional guidance
- Work-list integration with PACS
- 1024 matrix capabilities
- CADalog, CADstream's study library

Customizable Applications

As a dedicated MRI-CAD system designed to optimize workflow of MRI study analysis and reporting, CADstream offers applications for breast, prostate and liver MRI studies.



Integration to Optimize Workflow

CADstream customizes to any program infrastructure, integrating with existing equipment and providing access to studies everywhere on the network. Whether beginning or expanding an MRI program, CADstream scales to fit customer needs.

CADstream scalability accommodates program growth, including increases in study volume, readers and reading locations.

Scalable configurations include:

CADapult

CADapult is specifically designed for low volume sites and includes CADalog, CADstream's study library, and SureLoc, an interventional guidance tool.

CADstream Distributed System

CADstream Distributed is specifically designed for medium volume sites and includes CADalog, CADstream's study library, and SureLoc, an interventional guidance tool.

Recommended for: 1-10 studies per day | 1-5 physicians reading

CADstream Enterprise

CADstream Enterprise is specifically designed for high volume sites and can accommodate high matrix size studies. CADstream Enterprise includes CADalog, CADstream's study library, and SureLoc, an interventional guidance tool.

Recommended for: 10-20 studies per day | 5-10 physicians reading

Customizable CADstream Applications

Breast

CADstream's application for breast MRI was designed for standardized and efficient analysis, reporting and interventional planning.

Workflow preferences can include CADstream's core features such as:

- Automated processing
- 2D/3D adaptive image registration
- Subtraction images
- Angiogenesis Maps and curves
- Portfolio for reporting and SureLoc® for interventional guidance
- Volume data
- Patient monitoring capabilities
- Multiplanar reformatting
- Maximum intensity projections (MIPs)
- Diffusion analysis

The breast MRI application also includes a customizable BI-RADS®-centric (American College of Radiology's Breast Imaging Reporting and Database System®) user interface that accommodates a variety of user experience levels and promotes standardized interpretation and reporting.

In the July 2007 issue of *Radiology*, researchers at the University of Washington and Seattle Cancer Care Alliance reported that CADstream may improve standardization, and assist in the analysis of benign and malignant lesions of the breast.

CADstream continues to be validated by a growing body of published research for breast MRI including:

- Improved standardization and analysis of studies¹
- Increased confidence in interpretation with automatic volume analysis²
- Increased efficiency and quality in breast MRI evaluation³
- Improved interpretation with breast-specific image registration for reduction in artifacts⁴
- Improved evaluation of kinetics in breast MRI interpretation⁵



Customizable CADstream Applications

Prostate

CADstream automates study processing, corrects for patient movement and creates detailed, image-rich reports for referring physicians and patients while helping physicians interpret the thousands of images generated in MRI studies. With CADstream, study analysis and reporting are standardized and efficient, ultimately leading to increased confidence in prostate MRI study results.

Workflow preferences can include CADstream's core features such as:

- Automated processing
- 2D/3D adaptive image registration
- Subtraction images
- Multiplanar reformatting
- Maximum intensity projections (MIPs)
- Alignment of T1 and T2 images
- Coil artifact removal
- Color overlays
- Portfolio for reporting
- Diffusion analysis

Prostate MRI is increasingly recognized as a valuable study in peer-reviewed publications:

Imaging plays an important role in establishing the diagnosis, staging and monitoring the therapeutic response in prostate cancer.

-V. Kundra, et al. *AJR* 2007; 189:830-844

MR is increasingly recognized as a sensitive tool for the noninvasive evaluation of prostate cancer. MRI significantly improves prostate cancer staging.

-A. Tanimoto. *J.Magn. Reson. Imaging*. 2007; 25: 146-152



Prostate cancer is the second most common malignancy in American men, after skin cancer, and the second leading cause of cancer death in men. The need for prostate health management is growing rapidly, due to the awareness that early detection will lead to better long-term survival rates. When prostate cancer is detected earlier (when it is still confined to the prostate gland), the long-term survival rates are high for most men.

Prostate MRI also enables the physician to target areas more precisely for biopsy and plan targeted treatment.

Customizable CADstream Applications

Liver

MRI is a vital imaging modality for the evaluation, assessment and management of the liver. There are more than one million liver MRI studies performed in the U.S. annually. With CADstream, physicians can automate the analysis and standardize the interpretation of liver MRI studies, ultimately lowering radiologist practice costs and improving communication between physicians and patients.

CADstream's application designed specifically for liver includes:

- 3D image registration
- Subtraction images
- Multiplanar reformatting
- Maximum Intensity Projections (MIPs)
- Volume Segmentation
(Including whole organ, Couinaud segments and lesion segmentation)
- Kinetic analysis
- Diffusion analysis
- Patient monitoring capabilities
- Portfolio for reporting



Reliable Support

Merge CAD strives to exceed customer expectations by delivering exceptional service and support. Merge CAD's experienced customer support team is your resource for seamless service, as well as training and access to education programs that instill confidence and assist in achieving program goals.

Merge CAD Customer Support is a team comprised of experienced technologists and technical personnel who are available online and via telephone. Using remote access technology, Customer Support can instantly access CADstream systems for service and upgrades.

Merge CAD Support provides:

- 24-hour phone and online support
- Software updates within platform
- Clinical applications training
- Technical Support

Customer Training Center

Merge CAD provides an array of educational and training options for CADstream users for topics such as clinical reading, technical operation and administration of CADstream. Visit Merge CAD's Customer Training Center at www.merge.com/CAD to learn more about CADstream educational and training opportunities.



Training options include:

- Recorded Training Tutorials
- CADstream Training Webinars
- Custom Online Training
- Onsite Training

Education Programs:

- Professorships
- Case Review Consults

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1. Teresa C. Williams, MD,MA; et al. Breast MR Imaging: Computer aided Evaluation Program for Discriminating Benign from Malignant Lesions. Radiology. 2007; 244: 94-103.
2. Bonnie N. Joe, MD, et al. Automated Breast MR Tumor Volume Measurements for Prediction of Outcome in Breast Cancer Patients on Neoadjuvant Chemotherapy. RSNA 2006.
3. Vilanova, JC, et al. Effectiveness of CAD (computer-aided detection) in the evaluation of breast cancer by breast MRI and pathology. RSNA 2005.
4. Michael Middleton, MD, et al. Quality control study of image registration in 40 breast cancer MR imaging patients using Confirma CADstream software. ARRS 2004.
5. Lilian Wang, MD, et al. MRI Detected Suspicious Findings: Comparison Detected of Kinetic Features Measured by Computer aided Evaluation in Benign and Malignant Lesions. RSNA 2007.

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