



CardIQ Suite

An integrated suite of CT Cardiac post processing tools, built for automation and workflow efficiency

Cardiovascular disease remains one of the most common health issues in the world today. As with many conditions, early detection and patient risk assessment are vital to preventing or minimizing long-term negative effects. Utilization of cardiac CT for calcium scoring and Coronary CT Angiography (CCTA) have been established as clinically useful tools for establishing the presence or absence of cardiac disease.

Overview

CardIQ Suite provides an integrated workflow to seamlessly review calcium scoring and CCTA data. The fully automated calcium scoring algorithm identifies calcium burden and location providing a total and per territory score within seconds of loading. Users can immediately move into the CCTA review, using cine capability for motion studies and double oblique tools for viewing the vasculature for a full review of coronary arteries and chambers. Results, when correlated with patient's personal information, may support physician's determination in yielding estimation of a patient's risk for cardiac events.

Highlights

- Seamless workflow between CACS and CCTA reviews
- Coronary 2D Review for full qualitative review of single and multi-phase cardiac images
- Automatic calcium scoring and labeling of coronary artery territories
- >95% detectability in exams with AJ130 scores >0
- Automatically produced total AJ130 score aligns with CAC-DRS classification grouping in >90% of exams
- Improves user efficiency by >90% over a manual scoring approach

| Coronaries | AJ130 | + |
|---------------|------------|---|
| LAD territory | 305 | |
| LCX territory | 222 | |
| RCA territory | 294 | |
| Total | 821 | |



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General Features

Calcium Scoring:

- Deep Learning model automatically labels coronary artery territories
- Deep learning model automatically scores calcifications within the coronary artery territories
- Automatically generated total calcium score aligns with the CAC-DRS risks-based thresholds >90% of the time when compared to manually scored results
- Identifies the presence of coronary artery calcifications for >95% of exams with a score >0, based on the AJ-130 score.
- Coronary artery territories are accurately labeled > 90% of the time
- >90% accuracy of AJ130 total score
- Ability to assign calcifications to individual coronary artery branches
- Ability to score and label calcifications found in the aorta and cardiac valves
- Ability to apply general labels for non-specific calcific findings.
- Results available according to the AJ130 and Volume scoring methods
- DICOM SR export

- Export data in alternative formats for reporting and research needs.

Cardiac Review:

- Easily transition from Calcium Scoring to CCTA review through the integrated workflow
- Ability to load multi-phase gated acquisitions
- Cine mode to view multi-phase data in motion
- Oblique Reference Line tool to generate views in any orientation
- Easy access to additional rendering modes (MIP, MinIP and Average) for enhanced visualization
- Measurement tools for distance and ROI generation

System Requirements

Refer to AW Applications platform compatibility document.

Indications for Use

CardIQ Suite is a non-invasive software application designed to provide an optimized application to analyze cardiovascular anatomy and pathology based on 2D or 3D CT cardiac non contrast and angiography DICOM data from acquisitions of the heart. It provides capabilities for the visualization and measurement of vessels and visualization of chamber mobility.

CardIQ Suite also aids in diagnosis and determination of treatment paths for cardiovascular diseases to include, coronary artery disease, functional parameters of the heart, heart structures and follow-up for stent placement, bypasses and plaque imaging.

CardIQ Suite provides calcium scoring, a non-invasive software application, that can be used with non-contrasted cardiac images to evaluate calcified plaques in the coronary arteries, heart valves and great vessels such as the aorta. Calcium Scoring may be used to monitor the progression/regression of calcium in coronary arteries overtime, which may aid in the prognosis of cardiac disease.

Regulatory Compliance

This product complies with the Regulation (EU) 2017/45 of the European Parliament and the Council of medical device (MDR)

Rx Only

This product or its features may not be available in some countries or regions. Please contact your sales associate.

