



The Problem

Cardiac MRI (CMR) is the gold standard for cardiac diagnosis, and according to the Oct 2021 guidelines from the American Heart Association¹, a Tier 1 imaging modality for the evaluation of stable angina. CMR has many advantages when compared to alternative imaging modalities and more invasive procedures, yet its adoption has been limited due to a lack of trained technologists, high costs, long scan times, and complexity of use.

The Vista.ai™ Solution

Our FDA-cleared One Click™ MRI software elevates the standard of care for cardiac imaging. With One Click MRI scanning is simple, time-efficient, highly consistent, and more comfortable for patients.

One Click MRI takes direct control of your existing MRI machine and performs a scan with only one mouse click. A full exam takes a fraction of the time of a traditional CMR, using AI to automate localization, dynamic stress imaging, LV function, and myocardial delayed enhancement.

“Vista.ai’s software is a vital tool to enhance the consistency and productivity of cardiac magnetic resonance studies, across all levels of CMR expertise.”

Dr. Raymond Kwong

Director of Cardiac Magnetic Resonance Imaging at Brigham and Women’s Hospital and Professor of Medicine at Harvard Medical School

Key Benefits

Automated, streamlined exam

Scans completed within a standard MRI time slot, enabling scheduling flexibility on mixed-use scanner

Any MRI technologist can perform the exam

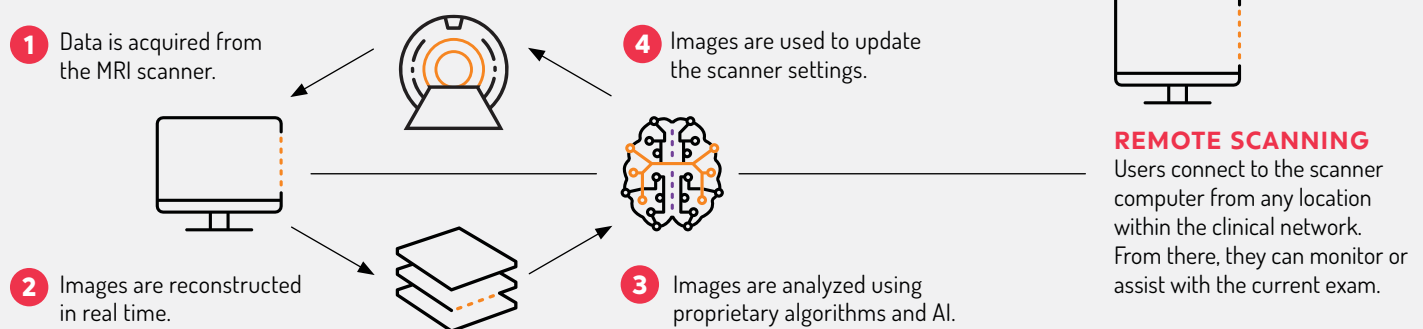
Less stressful and tactical workflow, allowing technologist to focus on patient comfort and care

Greater image consistency across exams

Improved patient convenience and comfort (shorter exams with fewer breath holds)

Available on GE and Siemens scanners

Our Process



¹ Writing Committee Members, & ACC/AHA Joint Committee Members (2022). 2022 AHA/ACC/HFSA Guideline for the Management of Heart Failure. Journal of cardiac failure, 28(5), e1-e167. <https://doi.org/10.1016/j.cardfail.2022.02.010>

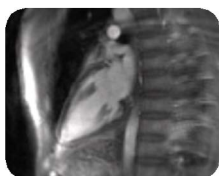
Over 30 FDA-Cleared Cardiac Applications²

CARDIAC LOCALIZATION

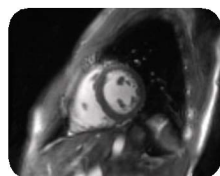
Uses AI to find the cardiac imaging planes in as little as 15 seconds.



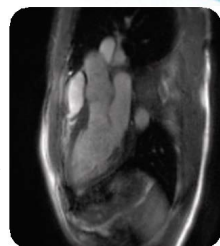
Axial Localization



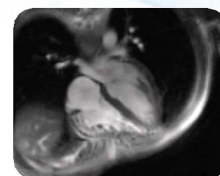
2-Chamber



Short-Axis



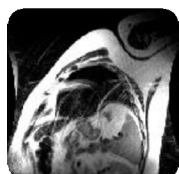
3-Chamber



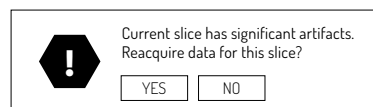
4-Chamber

ARTIFACT DETECTION

Uses AI to detect motion artifacts, and if they are present, prompts the user to rescan.

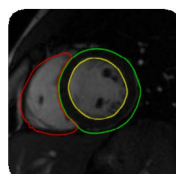


Automatically detects artifacts and, if they are present, prompts the user to rescan.



SHORT-AXIS SEGMENTATION & ANALYSIS

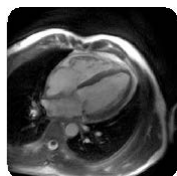
Automatically segments short-axis images and determines functional parameters.



ejection fraction
cardiac output
left ventricular mass
regional functional assessment

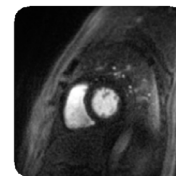
LEFT VENTRICULAR FUNCTION

Assesses cardiac function and visualizes wall motion in real time.



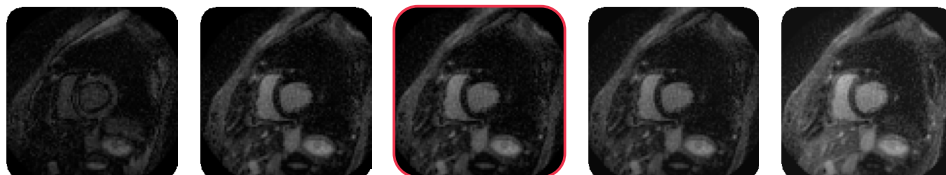
TIME-COURSE GRE

Acquires up to 7 slices per heart beat.



DELAYED ENHANCEMENT WITH CONTRAST-OPTIMIZED TI

Uses AI to compute the inversion time for optimal myocardial contrast.



Other Applications Include:

- Real-time Color PC
- SPAMM Tagging
- Cine Spiral SSFP
- Black-Blood FSE
- 3D Delayed Enhancement
- T1, T2, and T2* Mapping
- Gated 3D MRA
- Cine Flow



MIX AND MATCH SIEMENS PULSE SEQUENCES WITH VISTA.AI's PULSE SEQUENCES

² All AI outputs are reviewed and accepted by a CMR technologist and/or radiologist.

Vista.ai uses AI to improve access to MRI technology and patient care. Founded in 2012 as HeartVista with roots dating back to Stanford Magnetic Resonance Research Laboratory (MRSRL) a decade prior, the company rebranded as Vista.ai in Nov. 2022.