



Delivering major advancements
in clinical first-pass imaging.

OnePass™ Nuclear Cardiology Imaging System

GVI's development of the OnePass system, the industry's only dedicated first-pass camera, was driven by the market need for a new generation technology to optimize FPRNA as a complimentary study to SPECT imaging protocols. The added diagnostic and prognostic value of first-pass imaging is well documented and has been the source of multiple clinical publications over many years.

The OnePass system provides the unique ability to acquire high resolution images clearly superior to multi-crystal cameras while the patient is at peak exercise or at rest. Highly intuitive software enables the user to generate precise LV and RV ejection fractions as well as other cardiac function information. Other key features include: simple system operation, fast automated processing, minimal floor space requirements, and quick installation virtually eliminating department disruption.

Technical Innovations:

Auto-Track ensures accurate detector-to-patient positioning during exercise by sensing changes in treadmill elevation and responding accordingly.

Auto-Start detects the bolus injection and automatically starts the acquisition hands free.

Advanced, automated motion correction software package enhances image quality.

Convenient patient imaging
exercising, standing, sitting.



Promotes Clinical Efficiency:

Acquires list mode stress or rest images in 30 seconds. Uses same radiopharmaceutical dose as Tc99m SPECT protocols, enabling the performance of both studies using a single injection. Highly automated processing software enables the user to generate reproducible LV & RV ejection fractions, functional images, cardiac output, and volumes in 30 seconds.

Detector Design Advancements:

Patented all digital detector electronics provide the high count rates required by first-pass acquisitions (500 kcps maximum and 250 kcps @ 20% count rate loss). Innovative design yields superior imaging performance characteristics essential for high resolution image quality (< 4mm intrinsic resolution, < 9.8% intrinsic energy resolution). The 8.5" x 8.5" useful field of view is the ideal size for cardiac imaging.

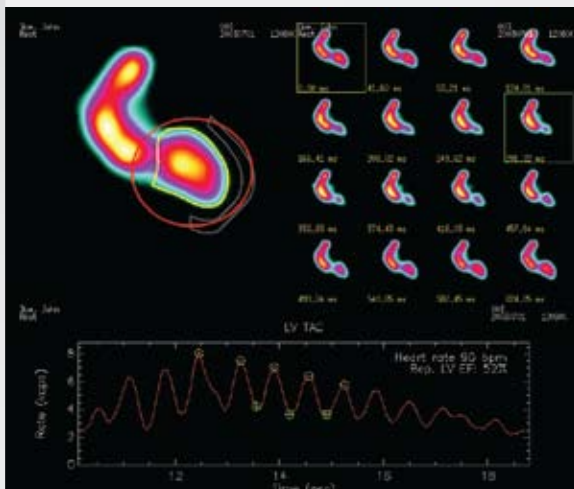
Ultra Compact System Footprint:

The system occupies only 21" x 52" of floor space, and can be installed in most stress lab environments on either side of the treadmill. Additionally, since the system weighs only 400 lbs., floor load requirements are minimal. A typical system installation can be completed in one day without disruption to clinical workload.

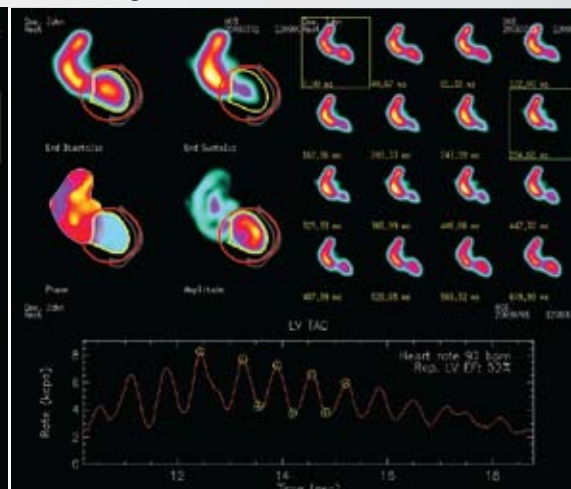
Focused on Excellence:

OnePass has a documented uptime > 99%. Remote diagnostics for instant technical analysis and real-time clinical support is a standard product benefit.

Intuitive Processing

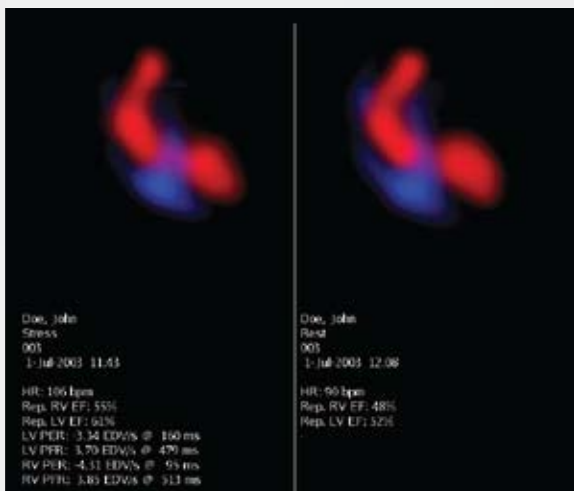


Automated ROI creation defines the ED blood pool and valve plane. The ROI can be easily updated using intuitive editing tools.



Phase and Amplitude images ensure accurate ROI placement and show ventricular function and synchrony.

Review Simplicity



Display includes side-by-side comparison of Stress and Rest First-Pass studies with color-coded ventricular overlay.



WebReview™ enables remote viewing with a standard internet browser.