

HeartSine Technologies



HEARTSINE™
TECHNOLOGIES

*A history of innovation...
A future of lifesaving technologies.*



Helping you... Obtain Clinical Excellence.

- Extensive research and patented technology
- Building on over 30 years experience
- Skilled defibrillator development team
- Advancing the science of cardiovascular research

Product development based on a proven history of research and development activities in the field of cardiac defibrillation.

HeartSine Technologies, Inc. was founded in 1997 for the purpose of developing a family of products focused on emerging growth segments within the cardiac medical device marketplace. HeartSine established R&D activities in Northern Ireland and initiated a formal collaboration with the University of Ulster's Bioengineering Center (NIBEC) and its partner, the Royal Victoria (RVH) a local teaching hospital, to augment and enhance our in-house development activities. HeartSine's engineering team has focused on developing leading edge, innovative technology components for use in their new generation of Automated External Defibrillators (AEDs), that will provide life saving therapy to victims of sudden cardiac arrest (SCA).

The Belfast Experience - It all started in 1967

In 1967, Dr. Frank Pantridge and his team from the Royal Victoria Hospital in Belfast, Northern Ireland, initiated a study to improve the survival rate of out-of-hospital cardiac arrest. They deployed the world's first mobile coronary care unit and demonstrated for the very first time that early defibrillation - outside of the hospital - can dramatically improve survival from sudden cardiac arrest.

"The innovative program became the catalyst for the development of ALS systems throughout the United States."*

Professor John Anderson, HeartSine's Senior Vice President of Science and Technology, was involved in this early ground breaking work and was instrumental in developing one of the first truly mobile defibrillators in 1967. He has since continued advancing the science of defibrillation as the Head of the University of Ulster's School of Electrical and Mechanical Engineering, and as Director of Northern Ireland Bio-Engineering Center. Today, this wealth of experience is embodied in all of HeartSine's products.

AED Development and Innovative energy waveform technology

Our AED development program is utilizing leading edge technology and a knowledge base developed in collaboration with NIBEC and the RVH in Northern Ireland. Our research, design and development activities have focused on specific technologies related to cardiac defibrillation, arrhythmia detection, cardiac pacing, cardioversion, diagnostic cardiac algorithm, electrode and energy delivery systems and design. These efforts have resulted in the identification and development of an innovative SCOPE® biphasic energy system and cardiac rhythm detection which the Company has incorporated into the design of the Samaritan® AED device for performing automated external defibrillation.

Core Technologies

- Cardiac defibrillation and pacing
- Biphasic waveform technology
- Arrhythmia detection
- Diagnostic algorithms
- Innovative sensor technology

*Paris M.D., Paul. "Pushing the Envelope to Save More Lives." The Life You Save...Community Defibrillation Programs & the Emergency Care Responder, An Educational Supplement - The National Center for Early Defibrillation, 2002: 15



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