

# The Power to Save Lives is in Your Hands



Powerheart® AEDs in Fire and EMS

# Empower Your First Responders to Save Lives

Discover why fire and EMS professionals trust Powerheart® AEDs

As an emergency first responder, you know that time is of the essence when you're called to the scene of a sudden cardiac arrest (SCA) – a condition that kills more than 369,000 people annually in the United States alone.<sup>1</sup> Because the only effective treatment for SCA is an immediate shock from a defibrillator, you must provide emergency care to the victim quickly. The Powerheart G5 AED can help you provide life-saving therapy.

## Designed for professionals

Whether it is located on an engine, in a supervisor vehicle, or in the jump bag of a rig, the Powerheart G5 is ready for quick, simple operation in demanding environments.

This AED is designed with emergency first responders in mind and provides you with:

- Advanced prompt configuration for professional responders and enhanced prompting for lay responders in the community.
- Variable escalating energy that determines the electrical impedance of each patient to customize the energy level delivered and escalates the energy delivery if the patient does not respond to the first shock.
- Sub-10 second shock time to decrease hands-off time.
- Synchronized shock to effectively convert abnormal heart rhythms.
- Customizable settings to match your medical director's shock and CPR protocols today, and the flexibility should they change in the future.
- Event data that can be collected via a standard USB stick or USB cable, which can expedite uploading critical data and help speed up transfer of care.

## An ideal partner

Cardiac Science understands what it means to be Rescue Ready®. Perhaps this is why we have built successful relationships with fire and EMS departments across the country.

A few of our many satisfied customers include:

- Los Angeles Fire Department
- St. Louis Fire Department
- San Diego Fire-Rescue
- Gurnee, IL, Fire Department

## Adding AEDs to the budget

Budget constraints and state tax laws can delay funding for AED deployments. Our Certified AED Specialists have the experience to help implement your AED initiative. We have teamed with departments of every size to outfit stations, fire apparatuses, medic units, and fire staff vehicles with Powerheart AEDs.

No department is the same. We have been successful in leveraging a number of approaches to help many departments develop their AED programs.





**AED Heroes:  
St. Louis Fire Department**

The St. Louis Fire Department manages one of the largest Public Access Defibrillation (PAD) programs in the United States. It includes the city's Emergency Medical Services Bureau and the Fire Department which encompass 30 stations, 36 fire apparatus, 13 medic units, and 90 fire staff vehicles. There are more than 800 employees covering 63 square miles with a daytime population of more than 1.5 million people.

Today, the St. Louis Fire Department is at the forefront of medical response. During local events they use 10 mountain bikes and two Vespas for fast response. Each vehicle, bike, and Vespa is equipped with a Cardiac Science AED to ensure quick availability of a life-saving shock in the case of cardiac arrest.

"When you are dealing with a cardiac arrest incident, every second counts. Having AEDs with us every time we respond has made a world of difference."

– Douglas Randell, EMS Training Officer (who is a paramedic and trained as a firefighter)

	Powerheart® G3 Pro	Powerheart® G5
<b>Ease of Use</b>	A color ECG displays the victim's heart rate, waveform, number of shocks delivered, and the elapsed rescue time – exactly what emergency workers need to know.	Clear voice prompts and backlit text screen guide the user through the entire rescue. With a single touch, the G5 instantly switches to an alternate language without delaying the rescue. Optional Intellisense™ CPR Feedback monitors chest compression rate and depth.
<b>Ruggedness</b>	Backed by a 7-year warranty, this AED features an Intellisense® non-rechargeable battery that includes a 4-year performance guarantee.	Backed by an 8-year warranty, this AED features a high water and dust ingress protection rating (IP55), and an Intellisense non-rechargeable battery that includes a 4-year performance guarantee.
<b>Readiness</b>	Each day, patented Rescue Ready® technology automatically self-checks main AED components (battery, hardware, software, pad presence, and defibrillation pad functionality). The AED also completes a partial charge of the high-voltage electronics weekly, and a monthly full charge to ensure readiness.	
<b>Advanced Technology</b>	Patented RHYTHMx® technology distinguishes between shockable and non-shockable heart rhythms. Sophisticated STAR® biphasic technology calculates electrical impedance and tailors the shock to the patient. Energy is escalated to deliver therapy at an appropriate higher level should a patient require a second shock.	



1. A.S. Go et al. Heart Disease and Stroke Statistics – 2013 Update. A report from the American Heart Association. Circulation, 127 (2013): e6-e245.

# 5 Reasons to Choose a Powerheart® AED



1

## PATENTED RESCUE READY® TECHNOLOGY

Powerheart AEDs perform automatic daily, weekly, and monthly self-tests to monitor critical components including the internal circuitry, software, and medical-grade battery for readiness; the pre-connected defibrillation pads are also tested for both presence and functionality. If anything is amiss, the Rescue Ready indicator immediately changes from green to red and emits an audible distress tone to cue users that attention is required.

2

## EASY WITHOUT COMPROMISE

Extensive rescue and CPR prompts guide first-time rescuers through the stressful situation. Our innovative RescueCoach™ technology, backed by research,<sup>2</sup> guides first-time responders through the entire rescue process. And it delivers the confidence to perform a rescue. The fully automatic shock delivery feature eliminates user hesitation.<sup>3</sup> Intellisense™ CPR Feedback monitors the quality of both chest compression depth and rate. If either compression rate or depth is outside the 2015 American Heart Association acceptable parameters, the rescuer will receive a short corrective prompt to ensure effectiveness.

3

## ADVANCED PATIENT CARE

Each Powerheart AED includes patented RHYTHMx® technology to assess the patient's heart rhythm. Sophisticated STAR® biphasic technology delivers a customized shock at an appropriate energy level.

4

## FLEXIBILITY AND DURABILITY

Powerheart AEDs are designed to be tough and have been deployed in the most challenging settings. The high-impact AED meets rugged military standards and a high ingress protection rating (IP55) against water and dust. The Powerheart G5 lets you choose from an array of prompt settings, shock protocols, and CPR settings to meet specific requirements.

5

## THE PEACE OF MIND IN WORKING WITH CARDIAC SCIENCE

For more than 20 years, Cardiac Science has developed patented technologies such as fully automatic AED operation, pre-connected pads, and many other innovations that shape how first responders use AEDs to save lives. Each Powerheart is supported by an experienced global staff of AED Certified Specialists and a team of select partners to provide expert deployment consultations and training. Finally, Powerheart AEDs are built to last with a multi-year device warranty program, the industry's strongest indemnification policy, and a 4-year full operational guarantee on genuine Intellisense® non-rechargeable medical-grade batteries.

2. Peer reviewed study by Benjamin S. Abella et. al. "Untrained Volunteers Perform High Quality CPR When Using an Automatic External Defibrillator with a CPR Voice Prompting Algorithm," *Circulation*. 2007; 116:11\_437.

3. Note: Fully automatic models are not available in every country.

## At the Heart of Saving Lives®

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