

# The Power to Save Lives is in Your Hands



Powerheart® AEDs in Law Enforcement

# Empower Your Officers to Save Lives

Discover why police departments rely on Powerheart® AEDs



When a 911 call is placed, police are typically first on scene to a sudden cardiac arrest (SCA) emergency – a condition that kills more than 369,000 people annually in the United States.<sup>1</sup> Because the only effective treatment for SCA is an immediate shock from an automated external defibrillator (AED), police must act quickly.

AEDs can also help to protect your officers and staff members: Data show that, due to high stress levels and workload, law enforcement is among the highest-risk professions susceptible to SCA.<sup>2</sup> Moreover, officers are more susceptible to SCA when pursuing or restraining suspects.<sup>3</sup>

Cardiac Science understands the critical role law enforcement plays during a cardiac emergency and has developed a suite of Powerheart AEDs that are ready to use, intuitive, and rugged.

## An ideal partner

An ideal AED partner should understand the inner workings of a police department or sheriff's office. Perhaps this is why Cardiac Science is so successful working with law enforcement agencies to implement life-saving AED programs: We know law enforcement and build AEDs accordingly.

A few of our many satisfied customers include:

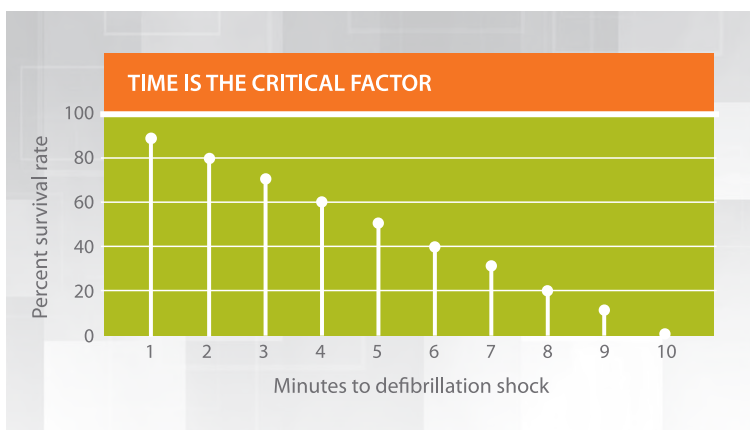
- Orlando Police Department
- Kansas Highway Patrol
- Michigan State Police
- Oklahoma County Sheriff's Office
- Nevada Highway Patrol

## Adding AEDs to the budget

Budget constraints and state tax laws can delay funding for AED deployments. Our Certified AED Specialists have the experience and know-how to implement an AED initiative. We have teamed with departments of every size to outfit vehicles and facilities with Powerheart AEDs.

As a leading provider of AEDs to law enforcement, our years of experience can help departments develop or strengthen an AED program.

**The critical factor?** Having an AED within reach. Fast.



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.
2. Albert CM, Mittleman MA, Chae CU, et al: Triggering of sudden death from cardiac causes by vigorous exertion. *N Engl J Med*, 2000.
3. *BMJ* 2014; 349 doi: <http://dx.doi.org/10.1136/bmj.g6534> (Published 18 November 2014) Cite this as: *BMJ* 2014;349:g6534.





**SCA Survivor:  
Lt. Regis Thimons**

Lieutenant Regis Thimons, a detective at the St. Joseph County Police Department in Indiana, was found by a fellow officer in the restroom – unresponsive, no pulse, in a pool of blood from where his head had hit the floor. He had collapsed from SCA. Quick-thinking officers began chest compressions and located a Powerheart AED. He received four shocks, and his pulse returned by the time paramedics arrived.

The availability of the AED that saved his life is the product of years of preparation – for which Thimons himself is largely responsible. Years earlier, Thimons worked with HeartReach Michiana, an organization that purchases and distributes AEDs as part of its non-profit mission, to equip his department’s patrol vehicles, the county jail, and the courthouse with AEDs.

“If it wasn’t for one of these devices, I probably wouldn’t be here today,” said Thimons.

|                            | Powerheart® G3 Plus  | Powerheart® G5   |
|----------------------------|--|--|
| <b>Ease of Use</b>         | Clear voice prompts and helpful text prompts on a backlit display guide the user through the entire rescue operation.  | 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.         |
| <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. |  |





# 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>4</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>5</sup>

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.

4. 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.

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

## At the Heart of Saving Lives®

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