HeartSine®
Inventor. Innovator. Lifesaver.

HeartSine samaritan® PAD 500P

With CPR Advisor

Defibrillation is easy, CPR is the hard part...

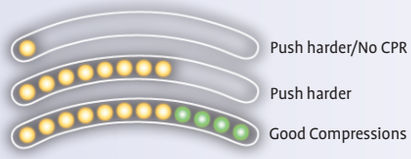
Regardless of whether it is a lay person or a professional rescuer, the AHA/ERC guidelines place a greater emphasis on the importance of CPR and advocate the prompt initiation of effective bystander CPR to significantly reduce mortality due to out-of-hospital Cardiac Arrest (CA). HeartSine can now provide a device to support these guidelines by the introduction of **the HeartSine samaritan PAD with CPR Advisor model 500P**.

Easy-to-follow Visual and Verbal Guides

Built-in confidence. The samaritan PAD 500P uses an Impedance Cardiogram (ICG) to assess the effectiveness of the CPR.

User-friendly. Easy-to-understand visual and voice prompts guide a user through the entire process.

Always ready. A System Status Ready Indicator flashes to show that the complete system is operational and ready for use. Device automatically runs self check each week.



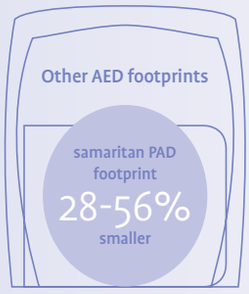
Visual indicators let the user know if effective CPR is being administered.

Voice prompts let the user know if chest compressions are being given correctly. Aural "clicks" help the user keep time.

Compact in Size, Long on Ability

Durable. The samaritan PAD 500P resists shock and vibration and carries an IP56 Rating, the industry's highest rating against dust and water. It also carries a 10-year unit warranty.

Advanced technology. The samaritan PAD 500P utilizes proprietary electrode technology, advanced and stable firmware, and proprietary SCOPE™* Biphasic Technology (an escalating and low-energy waveform that automatically adjusts for patient impedance differences) to assess rhythm and recommend defibrillation if necessary.



Advanced technology balanced against the demands of real world use. At HeartSine, our innovation changes lives. **And saves lives.**

Real Economy for the Real World

Two parts, one expiration date. Pad-Pak™ cartridge combines battery and electrode pads, with one expiration date to monitor.

Low cost of ownership. Cartridge has a shelf life of 4 years from date of manufacture, offering significant savings over other defibrillators that require separate battery and pad units.

Pad-Pak and Pediatric-Pak with pre-attached electrodes.

The HeartSine PAD's built-in intelligence and unique pediatric Pad-Pak ensure the appropriate energy level is delivered for children.

The CPR Advisor is deactivated when the Pediatric-Pak is in use.

*Self-Compensating Output Pulse Envelope technology automatically compensates energy, slope and pulse envelope for the patient.

Technical Overview

GUIDELINES CPR ECC 2010

Physical	With Pad-Pak™ Inserted
Size:	8.0 in x 7.25 in x 1.9 in (20cm x 18.4cm x 4.8cm)
Weight:	2.4 lbs (1,1 kg) including Pad-Pak Battery

Defibrillator	
Waveform:	Self-Compensating Output Pulse Envelope Biphasic waveform. Optimized biphasic escalating waveform compensates energy, slope and envelope for patient impedance

Energy Selection	
Adult:	1. Shock 150J 2. Shock 150J 3. Shock 200J
Pediatric:	1. Shock 50J 2. Shock 50J 3. Shock 50J

Charging Time	
New Battery:	Typically 150J in <8 sec., 200J in < 12 sec.
After 6 Discharges:	Typically 150J in <8 sec., 200J in < 12 sec.

Patient Analysis System	
Method:	Evaluates patient's ECG, signal quality, electrode contact integrity and patient impedance to determine if defibrillation is required
Sensitivity/Specificity:	Meets ISO 60601-2-4 and AAMI DF80:2003

Environmental	
Operating/Standby Temperature:	0°C to 50°C (+32°F to +122°F)
Temporary Transportation Temperature:	–10°C to 50°C (14°F to 122°F) for up to two days. Unit must be returned to standby/operating temperature for 24 hours before use.
Relative Humidity:	5% to 95% (non-condensing)
Water Resistance:	IEC 60529/EN 60529 IP56
Altitude:	0 to 15,000 feet (0 – 4,575 meters)
Shock:	MIL STD 810F Method 516.5, Procedure I (40G's)
Vibration:	MIL STD 810F Method 514.5+ Category 4 Truck Transportation – US Highways Category 7 Aircraft – Jet 737 & General Aviation (Exposure)
EMC:	EN 60601-1-2, Second Edition: 2002

Environmental (continued)	
Radiated Emissions:	EN55011:1999+A2:2001
Electrostatic Discharge RF Immunity:	EN61000-4-3:2001 80MHZ-2.5GHZ (10V/m)
Magnetic Field Immunity:	EN61000-4-8:2001 (3 A/m)
Aircraft:	RTCA/DO-160F: 1997, Section 21 (Category M)
Falling Height:	1 meter

Event Documentation	
Type:	Internal Memory
Memory Capacity:	90 minutes of ECG (full disclosure) and event/ incident recording
Playback Capabilities:	Custom USB cable directly connected to PC and Saver™ EVO Windows-based data review software

Materials Used	
PAD SAM300P:	ABS, Santoprene. Printed circuit board with electronic components.
PAD Cartridge:	Battery: Lithium Manganese Dioxide
Housing:	ABS – Electrodes: Hydrogel, Silver, Aluminium and Polyester

Pad-Pak — Electrode and Battery Cartridge	
Adult Pad-Pak (Pad-Pak-01) and Pediatric Pad-Pak (Pad-Pak-02)	
Shelf Life:	4 years from manufacture date
Weight:	0.44 lbs (0.2kg)
Size:	3.93 in x 5.24 in x .94 in (10cm x 13.3cm x 2.4cm)
Battery Type:	Lithium Manganese Dioxide (LiMnO2)
Capacity:	Meets ISO 60601-2-4 and AAMI DF80:2003 18V, 1.5 Amp Hrs
Electrodes:	HeartSine samaritan® disposable defibrillation pads are supplied as standard with each device
Placement:	Anterior-lateral (Adult); Anterior-posterior (Pediatric)
Active Gel Area:	100cm²
Cable Length:	3.5 ft (1m)

Lifesaving, **Pure and Simple**

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CE 0120

The products described in this brochure all meet the applicable European Medical Directive requirements.

ISO 13485

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www.heartsine.com