

# samaritan® PAD 500P

## Public Access Defibrillator 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**.

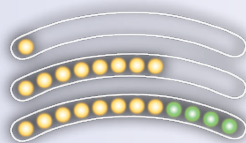


### Easy-to-Follow Visual and Verbal Guides

**Built-in confidence.** The samaritan PAD 500P uses an Impedance Cardiogram (ICG) to assess the effectiveness of the CPR and give the rescuer feedback on compressions.

**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. The AED also automatically runs a self check each week.

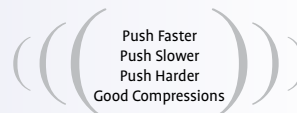


Visual indicators let the user know if effective CPR is being administered.

Push harder/No CPR being performed

Push harder

Good Compressions



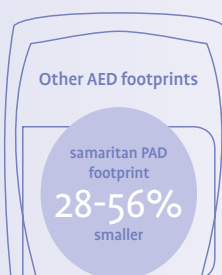
Voice prompts let the user know if chest compressions are being given correctly. Aural "clicks" help the user keep time.

### Compact in Size, Big on Ability

**Highest level of dust/moisture protection.** The samaritan PAD has a rating of IP56, providing the 500P defibrillator with the highest level of protection from dust or moisture ingress in the industry.

**Durable.** The samaritan PAD 500P resists shock and vibration and carries a ten-year unit warranty that demonstrates the reliability of this quality unit.

**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.

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

### 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 four 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.



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

# Technical Overview



Physical	With Pad-Pak™ Inserted
<b>Size:</b>	20 cm x 18.4 cm x 4.8 cm (8.0 in x 7.25 in x 1.9 in)
<b>Weight:</b>	1.1 kg (2.4 lbs) including Pad-Pak Battery

Defibrillator	
<b>Waveform:</b>	Self-Compensating Output Pulse Envelope (SCOPE) Biphasic waveform. Optimized biphasic escalating waveform compensates energy, slope and envelope for patient impedance

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

Environmental	
<b>Operating/Standby Temperature:</b>	0°C to 50°C (+32°F to +122°F)
<b>Temporary Transportation Temperature:</b>	-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.
<b>Relative Humidity:</b>	5% to 95% (non-condensing)
<b>Water Resistance:</b>	IEC 60529/EN 60529 IP56
<b>Altitude:</b>	0 – 4,575 meters (0 to 15,000 feet)
<b>Shock:</b>	MIL STD 810F Method 516.5, Procedure I (40 G's)
<b>Vibration:</b>	MIL STD 810F Method 514.5+ Category 4 Truck Transportation – US Highways Category 7 Aircraft – Jet 737 & General Aviation (Exposure)
<b>EMC:</b>	EN 60601-1-2
<b>Radiated Emissions:</b>	EN55011
<b>Electrostatic Discharge RF Immunity:</b>	EN61000-4-3 80MHZ-2.5GHZ (10 V/m)
<b>Magnetic Field Immunity:</b>	EN61000-4-8 (3 A/m)
<b>Aircraft:</b>	RTCA/DO-160F, Section 21 (Category M)
<b>Falling Height:</b>	1 meter (3.3 feet)

Energy Selection	
<b>Adult:</b>	Shock 1: 150J; Shock 2: 150J; Shock 3: 200J
<b>Pediatric:</b>	Shock 1: 50J; Shock 2: 50J; Shock 3: 50J

Charging Time	
<b>New Battery:</b>	Typically 150J in < 8 seconds, 200J in < 12 seconds
<b>After 6 Discharges:</b>	Typically 150J in < 8 seconds, 200J in < 12 seconds

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

Materials Used	
<b>samaritan® PAD 500P:</b>	ABS, Santoprene. Printed circuit board with electronic components.
<b>Housing:</b>	ABS – Electrodes: Hydrogel, Silver, Aluminium and Polyester

Pad-Pak — Electrode and Battery Cartridge	
Adult Pad-Pak (Pad-Pak-03) and Pediatric Pad-Pak (Pad-Pak-04)	
<b>Shelf Life:</b>	4 years from manufacture date
<b>Weight:</b>	0.2 kg (0.44 lbs)
<b>Size:</b>	10 cm x 13.3 cm x 2.4 cm (3.93 in x 5.24 in x .94 in)
<b>Battery Type:</b>	Lithium Manganese Dioxide (LiMnO2)
<b>Capacity:</b>	> 60 shocks at 200J 18V, 1.5 Amp Hrs
<b>Electrodes:</b>	HeartSine samaritan® disposable defibrillation pads are supplied as standard with each device
<b>Placement:</b>	Anterior-lateral (Adult); Anterior-posterior (Pediatric)
<b>Active Gel Area:</b>	100 cm² (15.5 in²)
<b>Cable Length:</b>	1 meter (3.3 feet)

## Lifesaving, Pure and Simple

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



UL Classified.  
See complete marking on product.



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