



HEARTSINE 500P



DEFIBRILLATION IS EASY, CPR IS THE HARD PART...

Regardless of whether it is a lay person or a professional rescuer, the ANZCOR 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**.

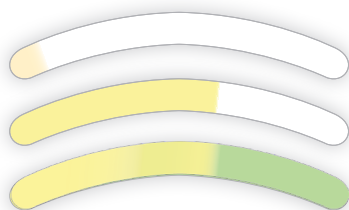
EASY-TO-FOLLOW GUIDES

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 regular self check.

Visual LEDs



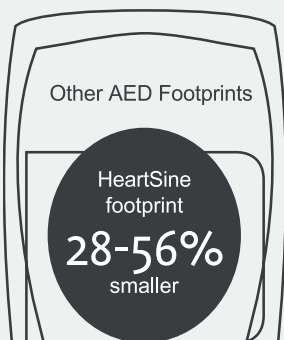
- Push harder/No CPR being performed
- Push harder
- Good Compressions

Audio Commands



"Push Faster!"
"...Push Slower!"
"...Push Harder!"
"Good Compressions!"

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 comes with a shock-proof carry case free of charge

Advanced technology. The samaritan PAD 500P utilizes proprietary electrode technology, advanced and stable firmware, and proprietary SCOPE™* Biphasic Technology to assess rhythm and recommend defibrillation is necessary.

*See overleaf for more information



PAD PAK TECHNOLOGY

Low cost of ownership.

Pad Pak 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.



Two parts, one expiration date.

Cartridge combines battery and electrode pads, with one expiration date to monitor.

Great for children.

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

TECHNICAL SPECIFICATIONS

PHYSICAL WITH PAD-PAK™ INSERTED

Size:	20cm x 18.4cm x 4.8cm
Weight:	1.1kg including Pad-Pak battery

DEFIBRILLATOR

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

ENVIRONMENTAL

Operating/Standby Temperature:	0°C to 50°C
Temporary Transportation Temperature:	-10°C to 50°C 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 – 4,575 meters
Shock	MIL STD 810F Method 516.5, Procedure I (40 Gs)
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
Radiated emissions:	EN55011
Electrostatic Discharge RF Immunity:	EN61000-4-3 80MHZ-2.5GHZ (10 V/m)
Magnetic Field Immunity:	EN61000-4-8 (3 A/m)
Aircraft:	RTCA/DO-160F, Section 21 (Category M)
Drop Tested:	1 metre

ENERGY SELECTION

Adult:	Shock 1: 150J; Shock 2: 150J; Shock 3: 200J
Paediatric:	Shock 1: 50J; Shock 2: 50J; Shock 3: 50J

CHARGING TIME

New Battery:	Typically 150J in < 8 seconds, 200J in < 12 seconds
After 6 Discharges:	Typically 150J in < 8 seconds, 200J in < 12 seconds

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

Housing	ABS, Santoprene. Printed circuit board with electronic components.
Electrodes	Hydrogel, Silver, Aluminium and Polyester

PAD PAK - ELECTRODE & BATTERY CARTRIDGE

Shelf Life:	4 years from manufacture date
Weight:	0.2kg
Size:	10 cm x 13.3 cm x 2.4 cm
Battery Type:	Lithium Manganese Dioxide (LiMnO ₂)
Capacity:	> 60 shocks at 200J 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:	100 cm ²
Cable Length:	1 metre

